

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 03/2022
ISSUE NO. 03/2022

शुक्रवार
FRIDAY

दिनांक: 21/01/2022
DATE: 21/01/2022

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(Shri Rajendra Ratnoo)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

21st JANUARY, 2022

CONTENTS

<i>SUBJECT</i>	<i>PAGE NUMBER</i>
JURISDICTION	: 2843 - 2844
SPECIAL NOTICE	: 2845 – 2846
LIST OF HOLIDAYS FOR THE YEAR-2022 (ENGLISH)	: 2847
LIST OF HOLIDAYS FOR THE YEAR-2022 (HINDI)	: 2848
EARLY PUBLICATION (DELHI)	: 2849 – 2960
EARLY PUBLICATION (MUMBAI)	: 2961 – 3026
EARLY PUBLICATION (CHENNAI)	: 3027 – 3168
EARLY PUBLICATION (KOLKATA)	: 3169 – 3206
PUBLICATION AFTER 18 MONTHS (DELHI)	: 3207 – 3793
PUBLICATION AFTER 18 MONTHS (MUMBAI)	: 3794 – 3921
PUBLICATION AFTER 18 MONTHS (CHENNAI)	: 3922 – 3980
PUBLICATION AFTER 18 MONTHS (KOLKATA)	: 3981 – 3992
WEEKLY ISSUED FER (DELHI)	: 3993 – 4025
WEEKLY ISSUED FER (MUMBAI)	: 4026 – 4043
WEEKLY ISSUED FER (CHENNAI)	: 4044 – 4088
WEEKLY ISSUED FER (KOLKATA)	: 4089 – 4094
AMENDMENT UNDER SEC. 57(KOLKATA)	: 4095
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (DELHI)	: 4096 – 4111
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (MUMBAI)	: 4112 – 4118
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (CHENNAI)	: 4119 – 4133
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (KOLKATA)	: 4134 – 4138
INTRODUCTION TO DESIGN PUBLICATION	: 4139
COPYRIGHT PUBLICATION	: 4140
REGISTRATION OF DESIGNS	: 4141 - 4241

**THE PATENT OFFICE
KOLKATA, 21/01/2022**

Address of the Patent Offices/Jurisdictions

The following are addresses of all the Patent Offices located at different places having their Territorial Jurisdiction on a Zonal basis as shown below:-

1	<p>Office of the Controller General of Patents, Designs & Trade Marks, Boudhik Sampada Bhavan, Near Antop Hill Post Office, S.M. Road, Antop Hill, Mumbai - 400 037</p> <p>Phone: (91)(22) 24123311, Fax : (91)(22) 24123322 E-mail: cgpdtm@nic.in</p>	4	<p>The Patent Office, Government of India, Intellectual Property Rights Building, G.S.T. Road, Guindy, Chennai - 600 032.</p> <p>Phone: (91)(44) 2250 2081-84 Fax : (91)(44) 2250 2066 E-mail: chennai-patent@nic.in</p> <p>❖ The States of Andhra Pradesh, Telangana, Karnataka, Kerala, Tamil Nadu and the Union Territories of Puducherry and Lakshadweep.</p>
2	<p>The Patent Office, Government of India, Boudhik Sampada Bhavan, Near Antop Hill Post Office, S.M. Road, Antop Hill, Mumbai - 400 037</p> <p>Phone: (91)(22) 24137701 Fax: (91)(22) 24130387 E-mail: mumbai-patent@nic.in</p> <p>❖ The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu & Dadra and Nagar Haveli</p>	5	<p>The Patent Office (Head Office), Government of India, Boudhik Sampada Bhavan, CP-2, Sector -V, Salt Lake City, Kolkata- 700 091</p> <p>Phone: (91)(33) 2367 1943/44/45/46/87 Fax: (91)(33) 2367 1988 E-Mail: kolkata-patent@nic.in</p> <p>❖ Rest of India</p>
3	<p>The Patent Office, Government of India, Boudhik Sampada Bhavan, Plot No. 32., Sector-14, Dwarka, New Delhi - 110075</p> <p>Phone: (91)(11) 25300200 & 28032253 Fax: (91)(11) 28034301 & 28034302 E.mail: delhi-patent@nic.in</p> <p>❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttaranchal, Delhi and the Union Territory of Chandigarh.</p>		

Website: www.ipindia.nic.in

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 and The Patents (Amendment) Act, 2005 or by the Patents (Amendment) Rules, 2006 will be received only at the appropriate offices of the Patent Office.

Fees: The Fees may either be paid in cash or may be sent by Bank Draft or Cheques payable to the Controller of Patents drawn on a scheduled Bank at the place where the appropriate office is situated.

पेटेंट कार्यालय
कोलकाता, दिनांक 21/01/2022

• कार्यालयों के क्षेत्राधिकार के पते

विभिन्न जगहों पर स्थित पेटेंट कार्यालय के पते आंचलिक आधार पर दर्शित उनके प्रादेशिक अधिकार क्षेत्र के साथ नीचे दिए गए हैं:-

<p>1 कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिह्न, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फ़ैक्स: (91) (22) 24123322 ई. मेल: cgpdtm@nic.in</p>	<p>4 पेटेंट कार्यालय, भारत सरकार इंटेलेक्चुअल प्रॉपर्टी राइट्स बिल्डिंग, इंडस्ट्रियल इस्टेट एसआईडीसीओ आरएमडी गोडाउन एरिया एडजसेन्ट टु ईगल फ्लास्क, जी. एस. टी. रोड, गायन्डी चेन्नई - 600 032. फोन: (91) (44) 2250 2081-84 फ़ैक्स: (91) (44) 2250-2066 ई. मेल: chennai-patent@nic.in ❖ आन्ध्र प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुडुचेरी राज्य क्षेत्र एवं संघ शासित क्षेत्र, लक्षदीप</p>
<p>2 पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, फोन: (91) (22) 24137701 फ़ैक्स: (91) (22) 24130387 ई. मेल: Mumbai-patent@nic.in ❖ <input type="checkbox"/> गुजरात, महाराष्ट्र, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दावर और नगर हवेली.</p>	<p>5 पेटेंट कार्यालय, भारत सरकार कोलकाता, (प्रधान कार्यालय) बौद्धिक संपदा भवन, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत. फोन: (91) (33) 2367 1943/44/45/46/87 फ़ैक्स:/Fax: (91) (33) 2367 1988 ई. मेल: kolkata-patent@nic.in ❖ भारत का अवशेष क्षेत्र</p>
<p>3 पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91) (11) 25300200, 28032253 फ़ैक्स: (91) (11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़</p>	

वेबसाइट: <http://www.ipindia.nic.in>

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाएं, विवरण या अन्य दस्तावेज़ या कोई शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होंगे। शुल्क: शुल्क या तो नगद रूप में या Controller of Patents के नाम में देय बैंक ड्राफ्ट या चेक के द्वारा भेजी जा सकती है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित है।

SPECIAL NOTICE

18 Months publication as required under Section 11A of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005.

Notice is hereby given that any person at any time before the grant of Patent may give representation by way of opposition to the Controller of Patents at appropriate office on the ground and in a manner specified under section 25(1) of the Patents (Amendment) Act, 2005 read with Rule 55 of the Patents (Amendment) Rules, 2006.

Notice is also given that if any interested person requests for copies of the complete specification, drawing and abstract of any application already published, the photocopy of the same can be supplied by the Patent Office as per the jurisdiction on payment of prescribed fees of Rs.8/- per page. If any further details are required to be obtained, the same can be provided by the respective Patent Offices on request.

(Shri Rajendra Ratnoo)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

SPECIAL NOTICE

Under the new provision of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005 and Rules there under, Publication of the matter relating to Patents in the Official Gazette of India Part III, Section 2 has been discontinued and instead The Official Journal of the Patent Office is being published containing all the activities of The Patent Office such as publication of all the patent applications after 18th months , grant of patents & all other information in respect of the proceedings as required under the provisions of the Patents (Amendment) Act, 2005 and Rules thereunder on weekly basis on every **Friday**.

The Journal is uploaded in the website every Friday. So Paper form and CD-ROM form of the Journal are discontinued from 01/01/2009.

SPECIAL NOTICE

Every effort is being taken to publish all the patent applications under section 11(A) of the Patents Act. However, if duplication of publication of any application is found, then earlier date of publication will be taken for the purpose of provisional protection for applicant and Patent Office will grant Patent not before six months from the date of second publication, provided that there is there is no third party representation.



बौद्धिक सम्पदा भारत
एकस/अधिकल्प/व्यापार चिह्न
भौगोलिक संकेत/पेटेंट सूचना प्रणालि
INTELLECTUAL PROPERTY INDIA
Patents/Designs/Trade Marks
Geographical Indications/
Patent Information System



भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

बौद्धिक सम्पदा भवन/BOUDHIK SAMPADA BHAWAN
सीपी-२/CP-2, सेक्टर- V/ Sector-V, साल्ट लेक/SALT LAKE
कोलकाता/KOLKATA- 700 091.
दूरभाष/Tel : (91)(33)2367 1943-46
: (91)(33)2367 1987(D).

संख्या/No. : H-45011/1/2022-Admn.

दिनांक/Date: 07-12-2021

CIRCULAR

LIST OF HOLIDAYS FOR THE YEAR - 2022

The following days have been declared as holidays to be observed by the Patent Office Kolkata during the year 2022.

Sl. No.	Holidays & Connected Festivals	Date	Days of Week
1.	Republic Day	January, 26	Wednesday
2.	Holi	March, 18	Friday
3.	Mahavir Jayanti	April, 14	Thursday
4.	Good Friday	April, 15	Friday
5.	Idu'l Fitr	May, 03	Tuesday
6.	Buddha Purnima	May, 16	Monday
7.	Ratha Yatra	July, 01	Friday
8.	Id-uz-zuha(Bakrid)	July, 10	Sunday
9.	Muharram	August, 09	Tuesday
10.	Independence Day	August, 15	Monday
11.	Mahatma Gandhi's Birth Day	October, 02	Sunday
12.	Dussehra (Maha ashtami)(Additional Day)	October, 03	Monday
13.	Dusshera	October, 05	Wednesday
14.	Milad-un-nabi or Id-E-Milad (Birth Day Prophet Mahammad)	October, 09	Sunday
15.	Diwali (Deepavali)	October, 24	Monday
16.	Guru Nanak's Birthday	November, 08	Tuesday
17.	Christmas Day	December, 25	Sunday

Note: Central Government Organizations, which include industrial, commercial & training establishments (i.e. other than doing work of Secretariat nature) would observe 16 holidays in a year out of which 3 namely Republic Day, Independence Day and Mahatma Gandhi's Birthday will be compulsory. The remaining holidays/occasions may be determined by such Establishments/Organizations themselves on year to year basis.

In deciding whether a particular Deptt/Establishment/Organization an industrial, commercial or trading organizations (i.e. other than those doing work of Secretariat nature) the decision may be taken by the respective Ministry/Ministry of Home Affairs, New Delhi.

*The date of Holidays for the Muslim festivals may be changed on sighting of the Moon and decision to be taken by the CGEWCC, Kolkata based on the decision of the State Government in respect of Idu'l Fitr, Idu'l Zoha, Muharram and Id-e-Milad..



भौदिक सम्पदा भारत
एकसव/अभिकल्प/व्यापार चिह्न
भौगोलिक संकेत/पेटेंट सूचना पद्धति
INTELLECTUAL PROPERTY
INDIA
Patents/Designs/Trade Marks
Geographical Indications/
Patent Information System



भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

भौदिक सम्पदा भवन/BOUDDHIK SAMPADA BHAWAN
सीपी-२/CP-2, सेक्टर- V/ Sector-V, साल्ट लेक/SALT LAKE
कोलकाता/KOLKATA- 700 091.
दूरभाष/Tel : (91)(33)2367 1943-46
: (91)(33)2367 1987(D),

संख्या/No. : एच-45011/1/2022-प्रशासन

दिनांक/Date: 07-12-2020

वर्ष 2022 में छुट्टियों की सूची

वर्ष 2022 के दौरान पेटेंट कार्यालय, कोलकाता के लिए निम्नलिखित दिनों को छुट्टी घोषित किया गया है।

क्र.सं.	छुट्टियाँ तथा संबंधित त्यौहार	दिनांक	सप्ताह के दिन
1.	गणतंत्र दिवस	जनवरी, 26	बुधवार
2.	होली	मार्च, 18	शुक्रवार
3.	महावीर जयंती	अप्रैल, 14	गुरुवार
4.	गुड फ्राइडे	अप्रैल, 15	शुक्रवार
5.	ईद-उल-फितर	मई, 03	मंगलवार
6.	बुद्ध पुर्णिमा	मई, 16	सोमवार
7.	रथ यात्रा	जुलाई, 01	शुक्रवार
8.	ईद-उल-जुहा (बकरीद)	जुलाई, 10	रविवार
9.	मुहर्रम	अगस्त, 09	मंगलवार
10.	स्वतंत्रता दिवस	अगस्त, 15	सोमवार
11.	महात्मा गाँधी जयंती	अक्तुबर, 02	रविवार
12.	दशहरा (महा अष्टमी) (अतिरिक्त दिन)	अक्तुबर, 03	मंगलवार
13.	दशहरा	अक्तुबर, 05	बुधवार
14.	मिलाद-उन-नवी या ईद-ए-मिलाद (प्रोफेट मोहम्मद जन्मदिवस)	अक्तुबर, 09	रविवार
15.	दिवाली (दिपावली)	अक्तुबर, 24	सोमवार
16.	गुरुनानक जयंती	नवम्बर, 08	मंगलवार
17.	क्रिसमस डे	दिसम्बर, 25	रविवार

टिप्पणी: केन्द्र सरकार के संस्थानों में, जिनमें औद्योगिक, वाणिज्यिक तथा प्रशिक्षण प्रतिष्ठान (यथा सचिवालयी प्रवृत्ति से पृथक कार्य कराने वाले) शामिल हैं, इस वर्ष 16 अवकाश होंगे जिनमें से 3 (तीन) यथा गणतंत्र दिवस, स्वतंत्रता दिवस तथा महात्मा गाँधी जयंती अनिवार्य होंगे। शेष अवकाश/अवसर उन प्रतिष्ठानों/संस्थानों द्वारा प्रत्येक वर्ष स्वयं निर्धारित किए जायेंगे।

कोई विशेष/प्रतिष्ठान/संगठन औद्योगिक, वाणिज्यिक एवं व्यापारिक प्रतिष्ठान (अर्थात् सचिवालयीय प्रवृत्ति के कार्य करने वाले प्रतिष्ठानों के अतिरिक्त) है कि नहीं इसका निर्धारण संबंधित मंत्रालय/गृह मंत्रालय, नई दिल्ली द्वारा किया जाएगा।

*मुस्लिम त्यौहारों की छुट्टी के दिन चाँद के दिखने तथा राज्य सरकार द्वारा लिए गए निर्णय के आधार पर बदले जा सकते हैं।

Early Publication:

The following patent applications have been published under section 11A (2) of The Patents (Amendment) Act 2005 and rule 24A of The Patents (Amendment) Rules, 2006. Any person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013559 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : A MIX OF GEOPOLYMER CONCRETE AND METHOD FOR APPROPRIATE MIX PROPORTION OF CONSTITUENT AND DESIRED COMPRESSIVE STRENGTH

(51) International classification :C04B0028000000, B29C0044460000, C04B0012000000, G01N0003080000, B28C0007040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DR B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR

Address of Applicant :G.T. Road, Amritsar Bypass, Jalandhar,

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)KAPOOR KANISH

Address of Applicant :Department of Civil Engineering, Dr B R Ambedkar National Institute Of Technology Jalandhar, G.T. Road, Amritsar Bypass, Jalandhar, - 144011, -----

2)SINGH PARAMVEER

Address of Applicant :Department of Civil Engineering, Dr B R Ambedkar National Institute Of Technology Jalandhar, G.T. Road, Amritsar Bypass, Jalandhar - 144011 -----

(57) Abstract :

The present invention relates to a mix of geopolymer concrete and method for appropriate mix proportion of constituent and desired compressive strength. The method of proportioning of mix constituents based on multiple curing regime and proposed method are based on one ambient curing (25°C) and two heat curing i.e., 60°C and 90°C. In present invention, the mix is divided into three categories based on curing regime and every parameter of mix is considered as variable.

No. of Pages : 25 No. of Claims : 5

(54) Title of the invention : DISCOVEY OF ATOSIBAN ACETATE FOR TREATING CORONAVIRIDAE FAMILY OF VIRUS”

<p>(51) International classification :G16C0020500000, G16B0035000000, G16C0020600000, G16B0015000000, C07K0007060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Sanskriti University Address of Applicant :Sanskriti University, School of Pharmacy, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Vishal M. Balaramnavar Address of Applicant :Sanskriti University, School of Pharmacy, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 -----</p> <p>2)Ms. Deepti Mathpal Address of Applicant :Sanskriti University, School of Pharmacy, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 -----</p> <p>3)Dr Arminder Kaur Address of Applicant :Sanskriti University, School of Pharmacy, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 -----</p>
---	--

(57) Abstract :

A method (300) for identifying a binding site of Atosiban Acetate, the method comprising:developing pharmacophore models to extract features from the Atosiban Acetate;validating the developed pharmacophore models by comparing with pre-defined models of existing coronavirus drugs;performing a ligand-based virtual screening (first virtual screening) of a database of drugs with the validated pharmacophore models; performing a structure-based virtual screening (second virtual screening) of the validated pharmacophore models by structural docking of a target protein into the validated pharmacophore models; assigning a score to each pharmacophore model of the Atosiban Acetate in order to identify the validated pharmacophore models with a high binding affinity and efficiency; and comparing the score obtained from the ligand-based virtual screening (first virtual screening) and the structure-based virtual screening (second virtual screening) for classifying the scored pharmacophore models based on the target protein binding affinity and efficiency for the coronaviridae family of virus.

No. of Pages : 26 No. of Claims : 10

(54) Title of the invention : “DISCOVEY OF GENTIOPICOSIDE FOR TREATING CORONAVIRIDAE FAMILY OF VIRUS”

<p>(51) International classification :G16C0020500000, G16B0035000000, G16C0020600000, G16B0015000000, G16C0020400000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Sanskriti University Address of Applicant :Sanskriti University, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Vishal M. Balaramnavar Address of Applicant :Sanskriti University, School of Pharmacy, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 -----</p> <p>2)Ms. Deepti Mathpal Address of Applicant :Sanskriti University, School of Pharmacy, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 -----</p> <p>3)Ms Namrata Arya Address of Applicant :Sanskriti University, School of Pharmacy, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 -----</p>
---	--

(57) Abstract :

A method (300) for identifying a binding site of Gentiopicroside, the method comprising: developing pharmacophore models to extract features from the Gentiopicroside drug; validating the developed pharmacophore models by comparing with pre-defined models of existing coronavirus drugs; performing a ligand-based virtual screening (first virtual screening) of a database of drugs with the validated pharmacophore models; performing a structure-based virtual screening (second virtual screening) of the validated pharmacophore models by structural docking of a target protein into the validated pharmacophore models; assigning a score to each pharmacophore model of the Gentiopicroside in order to identify the validated pharmacophore models with a high binding affinity and efficiency; and comparing the score obtained from the ligand-based virtual screening (first virtual screening) and the structure-based virtual screening (second virtual screening) for classifying the scored pharmacophore models based on the target protein binding affinity and efficiency for the coronaviridae family of virus.

No. of Pages : 25 No. of Claims : 10

(54) Title of the invention : “DISCOVEY OF PEPSTATIN A FOR TREATING CORONAVIRIDAE FAMILY OF VIRUS”

(51) International classification :G16C0020500000, G16B0035000000, G16C0020600000, G16B0015000000, G16C0020400000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Sanskriti UniversityAddress of Applicant :Sanskriti University, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.)
Pin – 281401 -----**Name of Applicant : NA****Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Vishal M. Balaramnavar

Address of Applicant :Sanskriti University, School of Pharmacy, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 -----

2)Ms. Deepti Mathpal

Address of Applicant :Sanskriti University, School of Pharmacy, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 -----

3)Ms Namrata AryaAddress of Applicant :Sanskriti University, School of Basic and Applied Sciences , 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 -----

(57) Abstract :

A method (300) for identifying a binding site of Pepstatin A, the method comprising: developing pharmacophore models to extract features from the Pepstatin A; validating the developed pharmacophore models by comparing with pre-defined models of existing coronavirus drugs; performing a ligand-based virtual screening (first virtual screening) of a database of drugs with the validated pharmacophore models; performing a structure-based virtual screening (second virtual screening) of the validated pharmacophore models by structural docking of a target protein into the validated pharmacophore models; assigning a score to each pharmacophore model of the Pepstatin A in order to identify the validated pharmacophore models with a high binding affinity and efficiency; and comparing the score obtained from the ligand-based virtual screening (first virtual screening) and the structure-based virtual screening (second virtual screening) for classifying the scored pharmacophore models based on the target protein binding affinity and efficiency for the coronaviridae family of virus.

No. of Pages : 25 No. of Claims : 10

(54) Title of the invention : LOAD BALANCING DELIVERY BOX FOR MOTORCYCLES

(51) International classification :G01N0033380000, A47G0029120000, G01G0023000000, H04R0001260000, B28C0005180000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA
 Filing Date :NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)ANVEKAR, DINESH KASHINATH
 Address of Applicant :19, HALCYON DEFENCE ENCLAVE, BAGALUR CROSS, SATHNUR, BENGALURU- 562149 KARNATAKA, INDIA -----

2)RAJUK, VENUGOPAL KUPPANNA
3)MATHUR, VENKATESHA KRISHNA
4)SINGH, VIPULA
5)SHAHABADKAR, RAMESH
6)ANDHE, PALLAVI
7)BADANAL, USHA SIDDAIAH
8)BELGAONKAR, SANJAY MOHAN
9)KULKARNI, ARCHANA RAMESH
10)NANJUNDEGOWDA, PRABHAVATHI CHICKNANJEGOWDA
11)JADHAV, PRAKASH
12)RAYALAKALAHALLI, KAVITHA JAYARAMEGOWDA
13)SHAHABADKAR, KRUTIKA RAMESH

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)ANVEKAR, DINESH KASHINATH
 Address of Applicant :19, HALCYON DEFENCE ENCLAVE, BAGALUR CROSS, SATHNUR, BENGALURU- 562149 KARNATAKA, INDIA -----

2)RAJUK, VENUGOPAL KUPPANNA
 Address of Applicant :VICE CHANCELLOR, BANGALORE UNIVERSITY 109, 4TH MAIN, 2ND CROSS, HAL III STAGE, BANGALORE-560075, KARNATAKA, INDIA -----

3)MATHUR, VENKATESHA KRISHNA
 Address of Applicant :HITECH CITADEL APARTMENTS T-5, 15TH MAIN, 19TH B CROSS, NEAR BANGALORE KIDNEY FOUNDATION PADMANABHANAGAR, BANGALORE - 560061, KARNATAKA, INDIA -----

4)SINGH, VIPULA
 Address of Applicant :A1216 KOMARALA BRIGADE RESIDENCY, CHIKALSANDRA UTTARAHALLI MAIN ROAD BANGALORE-560061, KARNATAKA, INDIA -----

5)SHAHABADKAR, RAMESH
 Address of Applicant :DEPARTMENT CSE AMBO UNIVERSITY WOLISO CAMPUS, ETHIOPIA 217 ----

6)ANDHE, PALLAVI
 Address of Applicant :APT. NO. 204, BALAJI ENCLAVE, 2A MAIN ROAD, ITTAMADU, BSK 3RD STAGE, BANGALORE-560085 KARNATAKA, INDIA -----

7)BADANAL, USHA SIDDAIAH
 Address of Applicant :173, 2ND MAIN ROAD, KEMPEGOWDA LAYOUT, BENGALURU-560058 KARNATAKA, INDIA -----

8)BELGAONKAR, SANJAY MOHAN
 Address of Applicant :#81/A, 11TH CROSS, OPP. TO VASAVI TEMPLE, MAHALAKSHMI LAYOUT, BENGALURU-560086, KARNATAKA, INDIA -----

9)KULKARNI, ARCHANA RAMESH
 Address of Applicant :#203, G M ELEGANCY APARTMENT 3RD MAIN, 3RD CROSS, BEML I PHASE RAJARAJESHWARI NAGAR BANGALORE-98, KARNATAKA, INDIA -----

10)NANJUNDEGOWDA, PRABHAVATHI CHICKNANJEGOWDA
 Address of Applicant :#1019, BSK 6TH STAGE, 5TH BLOCK, BANGALORE-560109, KARNATAKA, INDIA -----

11)JADHAV, PRAKASH
 Address of Applicant :#31, 100 FEET ROAD, BSK 6 STAGE, 4 BLOCK CHIKKEGOWDANAPALYA BENGALURU-560062, KARNATAKA, INDIA -----

12)RAYALAKALAHALLI, KAVITHA JAYARAMEGOWDA
 Address of Applicant :#550, 7TH CROSS, NORTH BLOCK, UPKAR RESIDENCY, BENGALURU-560091, KARNATAKA, INDIA -----

13)SHAHABADKAR, KRUTIKA RAMESH
 Address of Applicant :AMITY HARMONY, D329, SHASHIDHAR LAYOUT, DWARAKANAGAR CHANNASANDRA, BSK 6TH STAGE, BANGALORE-560098 -----

(57) Abstract :
 The present invention relates to a load balancing delivery box (200) in which its center of gravity (CG) 450 of the box lie on a mid vertical plane (MVP) (130) of the motorcycle 120 to which the box is fixed in its pillar rider position. The delivery box (200) comprises a cylindrical housing body (230) fixed within a box (210); a rotatable drum (220) having with a closed bottom plate (271) coaxially placed within the cylindrical body (230); a circular base plate (270) placed under the bottom plate (271), a sensor (290); a beeper (1050); and a microprocessor (280) within the box (210). The rotatable drum 220 is rotated by any angle by means of a gearing arrangement driven by a stepper motor (260) under control of the microprocessor unit (280). If the angle of tilt of the base of the box (210) from the horizontal plane is within a tolerable limit, the coordinates of the center of gravity (CG) 450 are found by using the weight measurements obtained from four load cells (332, 334, 336, 338), and the center of gravity (CG) 450 is made to lie on the mid vertical plane (MVP) 130 of the motorcycle (120) by rotating the drum (220) through the required angle.

No. of Pages : 24 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111036385 A

(19) INDIA

(22) Date of filing of Application :11/08/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATED RING TOSS EXERCISE TRAINING DEVICE

(51) International classification :A63B0023120000, A63B0069360000, A63B0023035000, A63B0021068000, A61N0001040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr Amit Kumar

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Aprajay Sharma

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Neeraj Kumar

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Dr. Gurjot Singh

Address of Applicant :Department of Physics, Faculty of Science , Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

5)Dr. Sunanda

Address of Applicant :Department of Physics, Faculty of Science , Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

6)Mahesh Kumar

Address of Applicant :Department of Physics, Faculty of Science , Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

7)Anushika Yadav

Address of Applicant :Department of Physics, Faculty of Science , Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

8)Reema Yadav

Address of Applicant :Department of Physics, Faculty of Science , Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

9)Anjali Sharma

Address of Applicant :Department of Physics, Faculty of Science , Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to an automated ring toss exercise training device comprises of a frame 1 present in an open area divided into first 2 and second 3 portion, an AI based thermal imaging unit 4 on front portion to determine height, body posture and facial expressions of user, at least two telescopic stands 5 associated with front portion to adjust height of frame 1 based on height and fatigue risk of user, multiple rings 6 attached with multiple electromagnetic holders 7 associated with front portion to generate electromagnetic field in between holders 7 and ring which is varied by microcontroller to set mode of difficulty, multiple sensors attached within ring connected with microcontroller to determine vital parameters, grip pressure, bodyweight distribution, based on these parameters microcontroller varies difficulty mode, a display 8 unit associated with side portion to display improvement suggestions and facilitate user to select difficulty level.

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : MODULAR BICYCLE

(51) International classification :B62M0009080000, B62M0003000000, G08B0013190000, B62M0009000000, B62K0017000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)Shree Guru Gobind Singh Tricentenary University**

Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)Aman Thapak**Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.
-----**2)Vinod Kumar**

Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Tanuj SattiAddress of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.
-----**4)Rakesh Yadav**

Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to a modular bicycle, comprising a frame 1 installed with a chain wheel 2 and cassette 3, wherein the chain wheel 2 and cassette 3 are supported with a chain 4, a rectangular shaped cavity 5 configured with multiple slots fabricated on the frame 1, wherein the chain wheel 2 is attached to the cavity 5 through a slidable rod which helps in translating the chain wheel 2 back and forth for loosening/tightening the chain 4, at least two extendable motorized pins 11 that extends to engage with slots formed in between two consecutive rollers to restrict engagement of teeth with the chain 4, a crank arm installed with pedals 9 aligned to each other, wherein the pedals 9 are configured with PIR (Passive Infrared) sensors that detects the alignment of the pedals 9 upon successful alignment engages the pedals 9 magnetically to prevent pedalling.

No. of Pages : 20 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111036387 A

(19) INDIA

(22) Date of filing of Application :11/08/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATED GREENHOUSE AGRICULTURAL SYSTEM

(51) International classification :A01G0009240000, A01G0007040000, C12M0001340000, A01G0009180000, A01G0007020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. A.K. Yadav

Address of Applicant :Department of Agriculture, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Anshul Phaugat

Address of Applicant :Department of Agriculture, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to an automated greenhouse agricultural system, comprising an enclosure 1 made up of transparent material for allowing entry of sunlight to maintain optimum growth conditions of crops/plants 2, a primary and secondary set of sensors 3, 4, 5, 8, 9 for determining temperature, carbon dioxide content within the enclosure, moisture, pH value of soil with light intensity over the plants 2, wherein a microcontroller actuates a temperature regulator to maintain the temperature and activates a nozzle internally linked to a storage tank in order to maintain carbon dioxide content, multiple primary image capturing units 6 that identifies type and health of the plants 2 in order to monitor their growth, multiple electro chromic curtains 7 to regulate light intensity for controlling light intensity, a dispenser 10 for discharging the solutions in order to maintain the plants' moisture level, pH and health.

No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : JAW CHUCK CLEANING SYSTEM

(51) International classification :H04N0005225000, E21D0011100000, A61C0008000000, A61L0002040000, A46B0015000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Ankit Tyagi
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

2)Prabhjot Singh
 Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
3)Gaurav Jangra
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

4)Manav Nishcal
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

(57) Abstract :

The present invention relates to a jaw chuck cleaning system includes a first chamber 17 having a suction cup 3 fitted on a telescopic arrangement 1 to hold and transfer a jaw chuck assembly 2 into a second chamber 18, a primary Artificial Intelligence (AI) camera module 4 installed in the chamber 18 to transfer acquired data to control unit, two lead screws 5 arranged on primary portion of the second chamber 18, wherein a screwing tool 6 is coupled on one of the screw 5, a third chamber 19 having a secondary Artificial Intelligence (AI) camera module 7, wherein the third chamber 19 comprises: multiple suction cups 8, a pair of sliders 9, wherein multiple telescopic pins 10 are fitted over the sliders 9, and two lead screws 11, wherein a cleaning tool 12 is arranged on a shaft 16 which is connected over one of the screw 11.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111036389 A

(19) INDIA

(22) Date of filing of Application :11/08/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SECURED TREE CLIMBING DEVICE

(51) International classification :A61B0005000000, A61B0006030000, A01M0031020000, A61B0005107000, A01G0023095000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Shree Guru Gobind Singh Tricentenary University
Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dinesh Deshwal
Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
2)Aman Kuma
Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
3)Marut Mishra
Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India - -----
4)Dr. Mohinder Singh
Address of Applicant :Department of Agriculture, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, Indi -----
5)Naveen Sharma
Address of Applicant :Department of Agriculture, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
6)Sandeep Kumar Reddy
Address of Applicant :Department of Agriculture, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to a secured tree climbing device 1, comprising a portable body 1 mounted on a tree trunk and configured into a first 9 and second section 10, wherein the first section 9 includes an AI (Artificial Intelligence) based imaging unit 2 for visualizing dimensions of the, an adjustable seat 3 creating space to be occupied by the user according to physique output provided by the imaging unit 2, an telescopic footrest 4 for allowing the user to climb the trunk, plurality of for detecting axial orientation of the seat 3 along with vital parameters and bodyweight distribution associated with the user while climbing, wherein the supporters 4, 11 stop moving along the trunk when detected vital parameters are varying from normal value pre-fed in the microcontroller, and plurality of inflatable cushions 6 arranged around the seat preventing risk of injury for the user.

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : DEAD FISH PROCESSING DEVICE

(51) International classification :A22C0025080000, A22C0025020000, A22C0025140000, B26D0007010000, H04R0003120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Dr Amit Kumar
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
2)Aprajay Sharma
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
3)Neeraj Kumar
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
4)Dr. Susanta Ranjan Chaini
 Address of Applicant :Faculty Of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
5)Khushi
 Address of Applicant :Faculty Of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
6)Lucky Lakra
 Address of Applicant :Faculty Of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
7)Sanidhya Prasad
 Address of Applicant :Faculty Of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to a dead fish processing device, comprising, a platform 1 having a conveyor belt 2 to transfer a dead fish along the direction of movement of belt for cleaning, AI camera 3 integrated with image processing unit to capture image(s) and extract dimensional parameters of fish, a measuring component incorporated within platform 1 to assess firmness of fish scales, pair of telescopic rods 4 attached at either sides of platform 1 having multiple brushes 5 in an horizontal alignment to length of platform 1, wherein rods 4 adjust according to acquired parameters, further brushes 5 are actuated to remove fish scales and set of blades affixed at end of platform 1 and connected to controller, wherein primary blade 6 dissects dead fish and a secondary blade 7 equipped with robotic arm 8 cuts fins along with tail of fish in order to successively provide processed fish.

No. of Pages : 14 No. of Claims : 8

(54) Title of the invention : SMART CONVERTIBLE MIRROR

(51) International classification :G06F0003010000, G02B0005080000, G02B0026080000, B25J0009160000, B65H0016000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Dr. Sumit Kumar
 Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Jyoti Shokhanda
 Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Vishal
 Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Prashant
 Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to a smart convertible mirror includes an aqua frame 1 having a first, second and third portion 4 included with an imaging unit 6 for determining age and presence of the user, a gesture sensor for detecting gesture based commands provided by the user, plurality of nozzles 8 for dispensing water streams to form water curtain as aesthetic decor, a chamber for storing water that is filtered by a filtration unit present within the chamber, a refrigeration module 9 helping information of an ice layer at the second portion for promoting crystallization of water dispensed from the nozzles to form an iced panel along boundaries of the frame and a reflective unit 10 included with a roller 11 coiled with reflective sheet for dispensing it over back portion of frame 1 via pair of grippers 12 to convert the iced panel into a reflective mirror.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : AUTOMATED INDUCTION BASED GEAR HARDENING DEVICE

(51) International classification :C21D0001100000, H02J0050900000, C21D0001420000, C21D0009320000, H05B0006400000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)Shree Guru Gobind Singh Tricentenary University**

Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)Dr. Vikas Dhawan**Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.
-----**2)Dr Ajay**Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.
-----**3)Tanuj Satti**Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.
-----**4)Rakesh Yadav**Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.
-----**(57) Abstract :**

The present invention relates to an automated induction based gear hardening device comprises, a body having first and second portion, an AI (artificial intelligence) based imaging unit 1 to visualize gear geometry and gap between successive teeth of gear 3, a telescopic shaft 2 attached in second portion on which a gear 3 is aligned, telescopic shaft 2 expands towards circular opening to clasp and move gear 3 inside the body, plurality of induction coils 5 designed with respect to different gear geometry arranged on sliding arrangement, sliding arrangement and rod actuates position respective coil in alignment with the teeth for induction based heating of teeth, plurality of nozzles 6 attached to coils dispense quenching solutions to cause induction hardening of teeth, a grinding tool 7 attached on a lead screw assembly provides bi-directional movement to sharpen teeth surface after induction hardening.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111036393 A

(19) INDIA

(22) Date of filing of Application :11/08/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATED SANDWICH PREPARATION DEVICE

(51) International classification :A61J0007000000, A21C0015000000, A23P0020200000, A21B0003130000, A21D0008060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Susanta Ranjan Chaini

Address of Applicant :Faculty of Hotel &Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Gagandeep

Address of Applicant :Faculty of Hotel &Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Gunjan Gupta

Address of Applicant :Faculty of Hotel &Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Kunal Yadav

Address of Applicant :Faculty of Hotel &Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

5)Rahul Singhania

Address of Applicant :Faculty of Hotel &Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

6)Rachit Sharma

Address of Applicant :Faculty of Hotel &Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

7)Lakshya Gilani

Address of Applicant :Faculty of Hotel &Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

8)Dr. Atul Babbar

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to an automated sandwich preparation device, comprising, a portable body having a first and second section, a motorized cylinder 2 allows passage of sandwich ingredients towards a primary platform 5, a display unit 1 to input data regarding number of sandwiches and ingredients, plurality of primary containers 3 having a sliding lid 11 store different types of bread loaf 12 and toppings, a telescopic pusher 7 extends to provide loaf towards cylinder to place loaf on platform, plurality of secondary containers 6 for storing different dressings, a secondary platform 4 attached to primary platform 5 via motorized hinge fixed with a heating unit, to provide heat for baking of sandwich.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111036394 A

(19) INDIA

(22) Date of filing of Application :11/08/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : STABILIZED SITTING DEVICE

(51) International classification :A63B0067000000, B25B0011000000, F04D0013060000, H04N0005235000, A46B0009000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Monika
Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

2)Sreekesh Ashok Nair
Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

3)Anurag Sharma
Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

(57) Abstract :

The present invention relates to a stabilized sitting device, comprising plurality of legs 3 attached with a frame 1 and covered with an elastic material that provides a sitting base to a user, plurality of suction cups integrated inside the legs 3 to provide grip to the surface and prevent tilting of legs 3, a weight sensor measures the weight of a user sitting on the surface, a pumping unit integrated in each suction cup to maintain vacuum inside the cup for gripping of legs 3 with the surface, suction cup 6 maintain desired grip with the surface to prevent depression of material below a threshold value, an image capturing unit 2 takes the images and analyses the type of surface, plurality of motorized flaps 4 extends to provide an additional support to the legs 3 on detecting the loose surface.

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : HYGIENIC BEVERAGE STORAGE DEVICE

(51) International classification :A61F0013476000, H04N0007180000, E01H0001000000, B08B0001000000, B67D0001000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Dr. Abhishek Swami
 Address of Applicant :Department of Environmental Science, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Dr. Simranjeet Singh
 Address of Applicant :Department of Environmental Science, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Vaishali Wadhva
 Address of Applicant :Department of Environmental Science, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Nisha Kataria
 Address of Applicant :Department of Environmental Science, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

5)Lavisha Batra
 Address of Applicant :Department of Environmental Science, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

6)Ritu Bhatt
 Address of Applicant :Department of Environmental Science, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :
 The present invention relates to a hygienic beverage storage device including a portable body 1 having an outer and inner casing 3, 2 serving as container for storing beverage, an AI (Artificial Intelligence) based imaging unit 4 installed at the inner casing for detecting dirt present on the inner casing's surface, multiple rods 5 equipped with multiple flaps 6 arranged within the inner casing for rotating the flaps in clockwise direction to form the casing or anticlockwise direction to align flaps at angular orientation with outer casing, a telescopic brush 9 and nozzles 10 attached on a first portion 7 of the flaps for cleaning a second portion 8 of the flaps where the nozzle dispense cleaning solution spray and the brush removes dirt present on the flaps for maintaining hygienic condition for storing the beverage.

No. of Pages : 18 No. of Claims : 8

(54) Title of the invention : SMART FOOTWEAR MONITORING DEVICE

<p>(51) International classification :G16H0040630000, G01C0022000000, A43B0003000000, H04N0005225000, A61B0005000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Shree Guru Gobind Singh Tricentenary University Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Kalpana Address of Applicant :Faculty of Allied Health Sciences, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. ----- --</p> <p>2)Dr.Chetan Address of Applicant :Faculty of Allied Health Sciences, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. ----- --</p> <p>3)Dr. Pooja Anand Address of Applicant :Faculty of Physiotherapy, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. ----- --</p>
---	---

(57) Abstract :

The present invention relates to a smart footwear monitoring device includes a compact frame 1 structured to detachably couple with a footwear sole via a mini suction cup, wherein the frame 1 includes multiple sensors, and weight of a wearer, a foot step counter unit and a 3D motion scanner installed within the frame 1, an Artificial Intelligence (AI) camera module 2 installed on the frame 1 which captures and process images via image processing to identify type of footwear and surface, a microcontroller in connection with the sensors, unit, scanner and camera module 2 to receive fetched readings, footwear type, surface information, walking gesture, wherein the microcontroller forms/updates a profile of the footwear, and a communication module installed within the frame 1, that wirelessly connects the device with a server 3 and a computing device 4 that is adapted with a user interface.

No. of Pages : 14 No. of Claims : 10

(54) Title of the invention : SMART LIQUID DRINKING CONTAINER

(51) International classification :A47J0027210000, A45D0044000000, A47J0036060000, G01F0023000000, E03C0001050000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Shubhangi Chourasia
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

2)Inderjeet Kumar
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

3)Nitin Maan
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

(57) Abstract :
 The present invention relates to a smart liquid drinking container, comprising a body 13 having an opening 1 supported with a lid 2 configured with a pneumatically actuated rod 3 that extends and retracts to open/close the opening 1, an artificial intelligence (AI) enabled image capturing module 4 in syncing with a tilt sensor 5, wherein the module 4 detects presence of a user grabbing body 13 and tilt sensor 5 detects the angle of inclination/tilting of body 13, a microcontroller for actuating rod 3 to undergo required level of extension/retraction to regulate opening of the lid 2 based on collaborative data(s) to allow controlled flow of water, a control panel 7 accessed by the user to input command regarding heating/cooling of the water, wherein a Peltier unit 8 operates to heat/cool the water and a temperature sensor 9 for detecting the temperature of the water.

No. of Pages : 17 No. of Claims : 7

(54) Title of the invention : AUTOMATED SHEET HOLDER CLEANING DEVICE

(51) International classification :A47L0013380000, G02B0006360000, B08B0009047000, A63B0057600000, G05D0007060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)Shree Guru Gobind Singh Tricentenary University**

Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)Dr. Ravi Tomar**

Address of Applicant :Department of Chemistry, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Dr. Kamlesh Sharma

Address of Applicant :Department of Chemistry, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Anirudh Singh Bathiwal

Address of Applicant :Department of Chemistry, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Aditi Tiwari

Address of Applicant :Department of Chemistry, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

5)Varsha Bhardwaj

Address of Applicant :Department of Chemistry, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

6)Pinky Yadav

Address of Applicant :Department of Chemistry, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to an automated sheet holder cleaning device, comprising a body 2 having a telescopic clasper 1 that extends to grip and place a sheet holder 3, 4 within the body 2, an image capturing unit 5 that visualizes location of cap 3 and casings 4 associated with the holder 3, 4, at least two iris grippers 6 coupled with two telescopic rods 7 that expand and move along a primary slider 8 to grasp each of overlapped casings 4, multiple motorized ball joints 9 for allowing movement of the clasper 1 and grippers 6 to dismantle the holder 3, 4 by separating the cap 3 and casings 4 respectively, a telescopic brush 10 to clean internal surface of the cap 3 and casings 4, multiple nozzles 12 for removing dirt inside the cap 3 and casings 4, a storage container 14 to dispose solution after cleaning.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111036400 A

(19) INDIA

(22) Date of filing of Application :11/08/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : WEARABLE SAFETY DEVICE

(51) International classification :A61B 5/00
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Vikas Dhawan

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

2)Dr. Sahil Vashisht

Address of Applicant :Department of Computer Science Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Nikhil Pandey

Address of Applicant :Department of Computer Science Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Arsh Anwar

Address of Applicant :Department of Computer Science Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

5)Aayush Chand

Address of Applicant :Department of Computer Science Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to a wearable safety device, comprising a ring 1 mapped with an image capturing unit 2 that captures images of the user's surrounding in order to monitor eye and body language of a person, a vibration unit 3 for alerting the user in case person stare at the user over a threshold time period, an ultrasonic sensor 4 for measuring distance between the person and the user, a speaker 5 that emits high frequency sound for distracting the person, an electric teaser 6 for stunting the person and simultaneously the nozzle 7 discharges pepper spray towards the person, a chain 8 magnetically winded that releases for allowing the user to use as self-defence, an arrangement 9 composed of liquid metal fabricated that utilizes contact tribo-electrification to sense and harvest biomechanical signals from human body.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111036401 A

(19) INDIA

(22) Date of filing of Application :11/08/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : MULTILEVEL SELF-DEFENSIVE DEVICE

(51) International classification :G06N 3/08
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Sandeep Singh

Address of Applicant :Department of Computer Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Nitin Sharma

Address of Applicant :Department of Computer Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Priya

Address of Applicant :Department of Computer Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Vikrant

Address of Applicant :Department of Computer Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to a multilevel self-defensive device comprising, a handheld body having plurality of slots 1, user inserts fingers within the slots, an AI (Artificial Intelligence) based imaging unit 2 for detecting size of user's fingers along with physique of an attacker, plurality of sensors for detecting gesture commands provided by user, an ANN (Artificial Neural Network) based microcontroller analyzes an appropriate defense mode according to harming capability, an inflating unit 3 inflates cushions between fingers and slots 1 to prevent physical impact caused to the user's hands, plurality of kinematic blocks 4 actuate to cause higher or lesser level of harm to the attacker, a shock generation unit 5 generates electrical shock as third mode of defense based on coordinative output generated by imaging unit 2 and sensors.

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : AUTOMATED COOLING FAN CLEANING DEVICE

(51) International classification :F04D0029700000, B08B0001000000, A61M0025010000, A47L0025000000, B23K0003080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)Shree Guru Gobind Singh Tricentenary University**

Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)Preeti**

Address of Applicant :Department of Civil Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-Badli Road, Gurugram, Haryana, 122505, India. -----

--

2)Atul Babbar

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram- Badli Road, Gurugram, Haryana, 122505, India. -----

3)Jyoti Yadav

Address of Applicant :Department of Civil Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-Badli Road, Gurugram, Haryana, 122505, India. -----

--

4)Sweta Tiwari

Address of Applicant :Department of Civil Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-Badli Road, Gurugram, Haryana, 122505, India. -----

--

(57) Abstract :

The present invention relates to an automated cooling fan cleaning device comprises of body 1 divided into two sections, a conveyer unit connected with microcontroller to move belt 4 from one side to second 3, an imaging unit attached within body 1 to determine internal components of Electronic unit, a motorized driving tool 5 attached on top wall to unfasten bolts securing the cover, a pair of claspers to hold Electronic unit stably, a primary suction 7 unit attached on left 2 section to remove cover, a secondary suction 8 unit associated with slider to withdraw fan, an iris 9 holder attached on right 3 section to hold fan, a cleaning unit 10 including motorized brush 11 having nozzles attached on left 2 section operated by microcontroller to clean the fan based on data received via imaging unit.

No. of Pages : 16 No. of Claims : 8

(54) Title of the invention : SECURED TOE BONE REALIGNMENT DEVICE

(51) International classification :A61B0017680000, G01J0003260000, G06F0030170000, A63B0021065000, G02B0021260000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Dr. Sudhir Kumar Kapoor
 Address of Applicant :Department of Orthopadeics, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Dr. Gaurav Arora
 Address of Applicant :Department of Orthopadeics, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Dr Dhyey Dhamelia
 Address of Applicant :Department of Orthopadeics, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to a secured toe bone realignment device which comprises of a primary casing 3 wrapped manually around user's foot, an AI based thermal imaging unit 2 connected with microcontroller to visualize symptoms related to bunion and toe deformities, a Velcro unit to manual wear the device, a secondary casing 4 connected with primary casing 3 with telescopic rod 5 which helps in providing support to phalanges and align bone of toe, a dolorimetric unit attached within secondary casing 4 connected with microcontroller to determine pressure applied by rod 5, swelling and medication presence, multiple nozzles 6 attached with secondary casing 4 interlinked with electrical valves to dispense medications on foot of user, a telescopic platform 7connected with primary casing 3 to maintain gap between realigned toe and adjacent fingers during realignment.

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : SAVOURY RICE CAKE PREPARATION DEVICE

(51) International classification :B01F0015020000, B01F0013100000, A01G0009029000, F24H0009180000, C01B0033037000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Jaslien Chhattwal
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
2)Mudit Sharma
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
3)Divyam Mittal
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
4)Harsh Joon
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
5)Karayan Arya
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
6)Mohit
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
7)Dr. Ajay
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
8)Dinesh Deswal
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :
 The present invention relates to a savoury rice cake preparation device, comprising a frame 1 having a first compartment 2 installed with multiple containers 4 for storage of raw materials and a second compartment 3 includes multiple plates 5 with concave depressions arranged sequentially around a rotatable rod 6, a pair of vessels 7 connected to the containers 4 through multiple pipes 8, wherein pipes 8 allow dispensing of the raw materials from the containers 4 to vessels 7, a chamber 9 equipped with water for soaking of the raw materials, a grinding blade 11 for grinding of the soaked off raw materials to form a batter, a telescopic scooper 13 that telescopically extends to collect and pour batter into concave shaped depressions and multiple heating rods for heating water stored inside the case 14 up to an optimal temperature to produce hot steams for preparation of the rice cake.

No. of Pages : 16 No. of Claims : 9

(54) Title of the invention : AUTOMATED PUPPET ENTERTAINMENT DEVICE

(51) International classification :G06F0003010000, A63H0003140000, A63J0019000000, A45C0013300000, A63H0003280000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Dr. Mukesh Kumar
 Address of Applicant :Department of Physics, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Dr. M. T. Beig
 Address of Applicant :Department of Physics, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Mansi Jain
 Address of Applicant :Department of Physics, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Monika Sharma
 Address of Applicant :Department of Physics, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

5)Raina
 Address of Applicant :Department of Physics, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

6)Nitesh Gulia
 Address of Applicant :Department of Physics, Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to an automated puppet entertainment device comprising, a body 3 with a first and second side 10, 5 and fabricated with a fabric strap 1, where the strap 1 allows a user to wear the body 3 over hands, an image capturing unit 2 mounted over the body 3 that takes multiple images of movement of the user's hand and decode in a readable command, multiple primary pixel blocks 6 attached at second side 5 that move according to the direction by a microcontroller on basis of hand gestures in order to move a puppet connected to the blocks 6 via multiple rods 9, a microphone mounted over body 3 that captures the audio from a speaker 4 having story narration, multiple secondary pixel blocks 7 fabricated over the puppet 8 that actuates on the basis of story to transform into various story characters.

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : ADJUSTABLE SCOOP DEVICE

(51) International classification :A01D0041120000, G01F0019000000, B29C0064357000, G01G0023370000, F16H0001140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Naresh Kumar
 Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Dinesh Deswal
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Namrita
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Harsh
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to an adjustable scoop device comprising, a handle 4 where the proximal end 6 of handle 4 equipped with a display unit 5 used to user to enter type and quantity of material to be collected and distal end 7 is attached to a fixed section 2, a pair of driving and driven shafts 11, 14 in order to transfer rotational motion of driving shaft 11 to driven shaft 14 at right angle, two movable sections 1, where rotational motion of shaft 14 forces to move movable sections 1 laterally in order and form a bowl along with fixed section 1 to collect material, a microcontroller integrated within said handle 4, where microcontroller compares the weight selected by user with capacity of bowl and microcontroller activates motor 10 to increase bowl capacity and a primary and secondary lid 8 to discharge surplus material collected.

No. of Pages : 17 No. of Claims : 8

(54) Title of the invention : AUTOMATED SPRAY GUN CLEANING DEVICE

(51) International classification :B05B0007240000, A47L0013220000, B05B0014000000, B08B0003080000, B08B0003020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Asad Habeeb
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

2)Sandeep Singh
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

3)Harsh Saini
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

4)Abhishek Sharma
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

(57) Abstract :

The present invention relates to an automated spray gun cleaning device, comprising a chamber 5 having a first and second portion 14, 13, where the first portion 14 is attached with a rack 6 attached with a suction cup 16 for holding a spray gun 15 in a fixed manner, a reservoir 4 mounted over the spray gun 15 and filled with cleaning solution, where upon activation, a microcontroller actuates a pump within reservoir 4 to discharge cleaning solution into cup 3 of gun 15, a rod 8 slides over rack 6 and pushes trigger 7 to allow solution to clean remaining paint, an image capturing unit 2 detects clean solution and terminates operation of pump via microcontroller, a telescopic shaft 11 extend to unscrew nozzle with the help of rotating lid and a telescopic pole 1 inserts into the gun 15 and dips into primary tank 10 for cleaning.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : AUTOMATIC FLAVORED ICE SLUSH PREPARATION DEVICE

(51) International classification :F25C0005040000, A23G0009260000, A23G0009040000, F25C0001220000, B29C0041180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Manpreet Singh
 Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Dharminder Kumar
 Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Muskan Jain
 Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Hemant Kumar
 Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to an automatic flavored ice slush preparation device comprising, a portable body having a first and second portion, a display unit 1 to feed information regarding number of ice slush and flavors required, a mould dispensing unit 2 provides a mould on conveyor belt 11, an ice crusher 3 having a motorized blade disintegrates ice into snowflakes, plurality of sticks 4 for providing at least one stick towards mould, wherein a telescopic pusher 6 to push one of sticks 4 inside mould, an AI based imaging unit 7 for visualizing level of snowflakes packed in mould, two grippers 8 aids in holding mould and pulling out stick 4, a bowl dispenser 9 for placing bowl on the belt 11, plurality of nozzles 10 rotates to align nozzle 10 towards the bowl to dispense flavored solution.

No. of Pages : 15 No. of Claims : 9

(54) Title of the invention : BEVERAGE MAKING AND SERVING DEVICE

(51) International classification :G07F0017000000, F25B0021040000, B60N0003100000, B01F0013000000, B65D0085720000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Ashok Panchal
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Harish Kumar
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Sparsh Bhatti
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Anirudh
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

5)Shekher Soni
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

6)Anuj
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

7)Nandini Kalra
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

8)Parul Agarwal
 Address of Applicant :Professor, Master of Business Administration, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

9)Dr. Deepak Pandey
 Address of Applicant :Master of Business Administration, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to a beverage making and serving device comprising, a body 1 installed with a base plate 2 filled with sand to hold a container, multiple peltier units fabricated within base plate 2 to provide heating effect, a temperature sensor 3 installed within plate 2 that monitors heat provided to plate 2, a display unit 4 mounted over body 1 allows a user to enter amount of required beverage, a container dispenser 5 connected body 1 to dispense container, multiple electronic valves 6 connected in proximity with container to dispense ingredients to brew the beverage, a robotic arm 7 attached with body 1 that grip container and provides reciprocating motion to container over sand to boil beverage to an appropriate temperature, a vessel dispenser 8 associated with body 1 to dispense a vessel over sand, simultaneously microcontroller actuates robotic arm 7 for pouring beverage in the vessel.

No. of Pages : 15 No. of Claims : 8

(54) Title of the invention : BANGLE MANUFACTURING DEVICE

(51) International classification :A44C0005000000, G04G0009000000, G04G0021020000, H01Q0021280000, G06F0003048300

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Shelly
 Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Monika
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Joy
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Anurag
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :
 The present invention relates to a bangle manufacturing device comprising, a body 1 installed with a container 11 to store various crystals, multiple peltier units connected with container 11 for melting crystals to form wax, an image capturing module 4 mounted over body 1 to ensures adequate blending of wax, a display unit 5 to enter required colour and size of a bangle, a robotic arm connected with platform that transfers wax on a series of rollers 9, multiple chambers 6 attached above rollers to dispense colour as per user's input, a cutting tool 7 installed above base plate for cutting colored wax in accordance with size required, a case 8 mounted at second portion 3 to dispense a circular coil of required size, two telescopic grippers 10 connected at second portion 3 of body 1 to clasp and wrap melted wax around circular coil to form a bangle.

No. of Pages : 17 No. of Claims : 9

(54) Title of the invention : AUTOMATED GRAIN COLLECTING DEVICE

(51) International classification :A01D0041127000, G01G0017000000, G01G0017040000, G01F0025000000, G01G0019520000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Shivendra
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Dr. Pradeep Lamba
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Prabhat
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Aksh
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

5)Vikash
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

6)Ashis Raj
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

7)Rachit Sharma
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

8)Sameer Kumar
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

9)Sarthak Mohapatra
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

10)Harish Kumar
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

11)Dr. Susanta Ranjan Chaini
 Address of Applicant :Faculty of Hotel & Tourism Management, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :
 The present invention relates to an automated grain collecting device comprising, a primary frame 5 having a first and second portion 7, 2, where first portion 7 is attached with an image capturing unit 6 that takes images of a container 3 to determine its capacity, multiple wheels 1 attached to move frame 5 towards stack of grain, secondary frame 10 having a proximal 8 and distal end 11, where the distal end 11 is fitted with a tray 13 that collects the grain and also a weight sensor that measures weight of grain collected, a pair of electromagnets 9 that upon detecting weight of grain equal to required quantity, gets activated via microcontroller to swing secondary frame for dropping collected grain within container 3, a pair of vertical telescopic rods 12 that extend according to quantity of grain stack to provide support to the tray 13 while collecting grain.

No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : AUTOMATED FILTER CLEANING AND MAINTENANCE DEVICE

(51) International classification :F24F0003160000, F01N0003021000, A61F0002360000, G05D0001020000, B60S0001480000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Shivendra Singh
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

2)Malini Tiwari
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

3)Rohan Sangwan
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

4)Ankit Yadav
 Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

(57) Abstract :

The present invention relates to an automated filter cleaning and maintenance device including a portable body 1 having a proximal and distal sections 2, 3 where multiple telescopic suction cups 4 are attached on a common rod 5 mounted on a slider 6 for holding and moving a filter 7 inside the body, an AI (Artificial Intelligence) based imaging unit 8 installed in the proximal section for detecting base diameter of filter and actuating the cups accordingly, a cleaning module having multiple nozzles 9 and dryer 10 arranged at least three sliders 11, 12, 13 attached along outer curved surface of the distal section and similar nozzles and dryer attached at a telescopic shaft 14 mounted on top of the distal section for helping in cleaning, drying and servicing of outer and inner surface of the filter respectively.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111036414 A

(19) INDIA

(22) Date of filing of Application :11/08/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : MATERIAL TRANSPORTATION DEVICE

(51) International classification :B65D0005500000, B65D0025100000, A01D0034000000, A61B0010000000, B62B0005060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Aman Thapak

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Gaurav

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

3)Dr. Vikas Nath

Address of Applicant :Master of Business Administration, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Dr. Yogesh Mehta

Address of Applicant :Master of Business Administration, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

5)Dr. Rekha

Address of Applicant :Master of Business Administration, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to a material transportation device, comprising a base 1 attached with a primary and secondary wall(s) 2, 3, vertically oriented with each other to form a container for carrying and storing materials, wherein the primary walls 2 are attached with the base 1 via motorized hinge that opens the container for collecting the material, a pair of suction units 4 that absorb the surrounding material and discharge within the container, a weight sensor 5 that measures weight of the material filled within the container, a pair of telescopic rods 7 that extends/retracts to allow the user to balance weight of the material, multiple motorized wheels 8 for carrying the material to long distance, secondary motorized hinge that activates to tilt the container up to a predefined angle in order to unload the material.

No. of Pages : 14 No. of Claims : 8

(54) Title of the invention : AUTOMATIC KOHL PREPARATION DEVICE

(51) International classification :B05C0011100000, D06F0039020000, B02C0023000000, B02C0019000000, B02C0018060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)Shree Guru Gobind Singh Tricentenary University**

Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)Dr. Ashwani Kumar**Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.
-----**2)Ujjwal**Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.
-----**3)Ashwin Kashyap**Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.
-----**4)Dr. Rajkumar Jaiswar**

Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to an automatic kohl preparation device comprises of a portable body 1 equipped with a display unit so as facilitate the user to input information related to amount and consistency of kohl, multiple primary containers 2 attached within body 1 to store raw materials as carom seeds and almonds and dispense them through iris 3 opening, a grinding 4 unit attached with chamber 11 controlled with microcontroller to receive and grind raw materials, a secondary chamber 11 attached with grinding 4 unit having a motorized roller 7 to spread cotton sheet 9 to pack powder inside sheet 9, a combustion chamber 11 associated with lighter 12 to ignite the packed powder for production of fumes which is collected on platform 13, a scrapping unit to scrape and collect the hydrocarbon residue accumulated on the inner surface of platform 13.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111036416 A

(19) INDIA

(22) Date of filing of Application :11/08/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : GAMING DEVICE FOR IMPAIRED PERSON

<p>(51) International classification :G06F0003010000, G09B0021000000, G07F0017320000, A63F0013213000, G10L0015260000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Shree Guru Gobind Singh Tricentenary University Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Arko Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----</p> <p>2)Amrit Singh Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----</p> <p>3)Siddharth Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----</p> <p>4)Sheetal Solanki Address of Applicant :Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----</p>
---	--

(57) Abstract :

The present invention relates to a gaming device for impaired person comprising, a platform around which multiple players sit to play game, where each side of the platform 1 is mounted with a display unit 2 that extends to allow the players to use the display unit 2 and select mode of game, multiple image capturing unit 4 identifies the player by comparing taken images with pre saved ones in order to detect type of player, the image capturing unit 4 detects hand gesture of user to allow navigate with display unit 2, a refreshable braille unit 8 to allow a blind player to interact with display unit 2 and select cards while playing, multiple microphones 6 allow players to communicate with deaf player via speech to text conversion and a projection unit 3 that projects cards of player as selected in their respective chances.

No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : HIGH RISE FOOD COMMODITY TRANSPORTATION DEVICE

<p>(51) International classification :B62B0005000000, D06F0034280000, G01G0019414000, C30B0015280000, G01G0023180000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Shree Guru Gobind Singh Tricentenary University Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Kaushal Sharma Address of Applicant :Department of Civil Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----</p> <p>2)Dr Neeraj Saini Address of Applicant :Department of Civil Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----</p> <p>3)Paras Address of Applicant :Department of Civil Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----</p> <p>4)Pankaj Singh Address of Applicant :Department of Civil Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----</p>
---	---

(57) Abstract :

The present invention relates to a high rise food commodity transportation device, comprising a body 1 configured with motorized pulleys 2 attached to a vessel 3 through ropes 4 to translate vessel 3 from balcony to ground surface, a control panel 5 to feed inputs regarding type and weight of food commodities, wherein a speaker 6 is configured on vessel 3 which produces voice commands regarding fed type and weight, a weight sensor 7 for measuring weight of the commodities, a motorized wheel 8 coiled with a cable 9 and installed with a grabber 14 that extends to grab vessel to provide stability to vessel in case measured weight exceeds bearing capacity of the pulleys 2 and ropes 4 and a hyper spectral image processing unit 11 for analyzing nutritional qualities of food commodities, wherein the speaker 6 produces commands regarding replacement in case the commodities are unfit.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111036418 A

(19) INDIA

(22) Date of filing of Application :11/08/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SECURED CHILD CARRYING DEVICE

(51) International classification :A47D0013020000, A45F0003140000, A61H0015000000, A61F0005020000, A47D0013040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Shree Guru Gobind Singh Tricentenary University
Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Neha Sehrawat
Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
2)Dr. Nancy Arya
Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
3)Shubham Saini
Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
4)Hunny Tyagi
Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
5)Jaya Sharma
Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to a secured child carrying device comprises of a wearable body 1 divided into two portions, a pair of straps 4 worn around user's shoulder and torso region , imaging unit attached within the straps 4 connected with microcontroller to determine user's height and expression and child's physique, multiple telescopic rods 5 associated with straps 4 connected with microcontroller so as to support user's back, multiple weight sensors attached with straps 4 connected with microcontroller to determine pressure exerted on the user's shoulder while carrying child, telescopic platform 6 associated with rod to provide sitting and standing space to child, multiple telescopic supporters 7 associated on outer circumference that protrudes out to provide back support to child so as to secure the child.

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : TRAINING SYSTEM FOR PLAYING PERCUSSION INSTRUMENTS

(51) International classification :G10G0007020000, A61B0090000000, G01H0011060000, G10H0001340000, G09B0015060000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Reenu Batra
 Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

2)Amritpal
 Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India -----

3)Karitika Karwal
 Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

4)Sumit Yadav
 Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----

(57) Abstract :

The present invention relates to a training system for playing percussion instruments, comprising a wearable body 1 installed with multiple pressure sensors 2 to determine pressure exerted by fingers while playing instrument 8, a position sensor 3 for monitoring displacement of palm portion over the instrument 8 while playing, a microcontroller processes the displacement along with examining pressure to generate a command in case pressure and monitored displacement is found to be altered, multiple motorized strings 4 carry out proper bending/flexing of the fingers while playing the instrument 8 to produce a desirable sound, a vibration sensor 9 for measuring amount and frequency of vibrations produced, wherein the microcontroller processes the vibrations to decode tuning level of the sound and a set of motorized rollers 11 directed by the microcontroller to move upwards and downwards for tightening/loosening braces in an appropriate manner to produce tuned up sound.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111036420 A

(19) INDIA

(22) Date of filing of Application :11/08/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATED ORNAMENT MAINTENANCE DEVICE

(51) International classification :B08B0005020000, G10L0013000000, F24S0040200000, B23K0026361000, B44B0003000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
Address of Applicant :Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India. -----
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dinesh Deshwal
Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

2)Monika
Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

3)Aprajay
Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana 122505, India.

(57) Abstract :

The present invention is related to an automated ornament maintenance device, comprising a chamber 1 fabricated with a primary slider 2 mounted with a rotatable platform 3 that carries an ornament 4 via a suction cup 5, an image capturing unit 6 for determining physical characteristics and material of the ornament 4, plurality of nozzles 7 fitted to dispense water for cleaning the ornament 4, a brushing unit 8 for removing dust, debris and stains from the ornament 4, a polishing unit 10 that activates upon detecting of material of the ornament 4 for retaining natural glow, a display unit 12 shows digital representation of the ornament 4, allowing a user to select and type text that is to be carved over selected surface of the ornament 4, an engraving unit 11 that activates to engrave the text over the ornament 4 based upon selected text.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111046120 A

(19) INDIA

(22) Date of filing of Application :10/10/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : "Identification and Prevention for Malicious Transactions of authorized users in Cloud Environment using Machine Learning"

<p>(51) International classification :G10L0015220000, G10L0015060000, G09B0019020000, G09B0001160000, A63H0033000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr Ashok Sharma Address of Applicant :Department OF Computer Science and IT, Bhaderwah Campus, University of Jammu ----- 2)Dr Parveen Singh 3)Dr Amar Singh Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr Ashok Sharma Address of Applicant :Dr. Ashok Sharma, House NO 69, Ward No 6 Railway Road Vijaypur Jammu Tehsil: Vijaypur Distt: Jammu ----- 2)Praveen Singh Address of Applicant :Sector 1 Nanak Nagar, Jammu, Distt: Jammu ----- 3)Dr Amar Singh Address of Applicant :Lovely Professional University, Phagwara - ----- 4)Mr. Ravindra Address of Applicant :MIT Pune -----</p>
---	--

(57) Abstract :

A process of designing and developing a Voice-based Interface educational Toy to teach the Marathi Vowel / Consonants / Numbers / Words to Marathi-speaking children will make this process fun to learn. In the present invention, we will collect speech corpus from the Marathi-speaking children below 5 years old. This speech corpus will be given to MFCC-SF for feature extraction and PCA for feature selection. After this process, these selected features will be passed to PB3C-LSTM for recognizing the voice, and the model gets trained. This trained model will be deployed into the educational Toy. We will give this educational Toy to Marathi-speaking children to make learnability fun. The children will utter any Marathi Vowel / Consonants / Numbers / Words, and text in Devnagari or Marathi will be displayed on the Toy's screen.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111047001 A

(19) INDIA

(22) Date of filing of Application :14/10/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASEDAUTOMATED SYSTEM FOR HEALTH CARE

<p>(51) International classification :H04L0029080000, A61B0005010000, G05B0023020000, A61B0005000000, B25J0009160000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr . Jasmin Debora Address of Applicant :Professor Department of medical surgical nursing SGT University Gurgaon- Haryana India ----- ----- 2)Dr Baba Vajrala 3)Kumkumapudi Samatha Jyothi Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr . Jasmin Debora Address of Applicant :Professor Department of medical surgical nursing SGT University Gurgaon- Haryana India ----- ----- 2)Dr Baba Vajrala Address of Applicant :Professor cum Principal Department of Psychiatry nursing BIRENDER SINGH COLLEGE OF NURSING Jind- Haryana- 126115 India ----- 3)Kumkumapudi Samatha Jyothi Address of Applicant :Nursing tutor Gandhi school of nursing Secunderabad Telangana India -----</p>
---	--

(57) Abstract :

The present invention relates to an artificial intelligence and internet of things based health care monitoring system. The proposed system precisely monitors health, movement and activity. The system comprises of sensors, Arduino, Raspberry Pi, AI and various communication technologies. The proposed system helps administrators to systematically take care, and manage them depending on the body temperature, mood, activity and position. Using cloud the administrator can easily access the service from anywhere through the internet.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111048941 A

(19) INDIA

(22) Date of filing of Application :26/10/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : DEVICE FOR TREATMENT OF ERECTILE DYSFUNCTION

(51) International classification :A61F0005410000, A61K0031498500, A61K0047220000, A61K0047360000, A61K0009000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)RAJEEV SOOD

Address of Applicant :D-1/1137 Vasant Kunj, New Delhi 110070, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)RAJEEV SOOD

Address of Applicant :D-1/1137 Vasant Kunj, New Delhi 110070, India. -----

(57) Abstract :

The present invention relates to a device (1) for use in erectile dysfunction disorders. More particularly, the device (1) of the present invention is an external penile support device comprising at least a bolster (2) and at least a band (3) attached to at least a part of said at least a bolster (2). The bolster (2) has a lumen (4) structure, which can be filled via at least a one-way valve with at least a gas or a liquid to afford rigidity to the device (1).

No. of Pages : 21 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053480 A

(19) INDIA

(22) Date of filing of Application :21/11/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : INNOVATIVE CHANGE TO SOLVE ANY DISPUTE, UNEXPECTED BUSINESS LOSS, CLOSURES, FINANCIAL LOSS, UNEXPECTED ACCIDENTS

(57) Abstract :

The present invention relates to Wearing's and in particularly discuss about the colour of wearing and their forces how it affects the brain and the impact of those energies either to self or else to the others. when we apply back colour wearables it gets connected with our mind and at that time our mind acts like sensors. As these sensors get connected directly with our brains and as we move then it starts getting work and we connected with negative forces, energy, as it creates a block in senses, disconnection between mind and body due to which we are unable to react, act in same manner as we are doing by wearing's of any other colours other than the black. As the black colour is a conversion of negative energy and giving disputes, inconveniences as a result. Weapons, strategies, human resources, treatments of disorders, exist but the real cause and object that is causing disputes/inconveniences etc. And how it is giving disputes and how when one apply it or wears it , then after our body moves, thinks, or do work the motion of senses, working of brain gets weak and lost its efficiency and it moves to a direction I. e. Blocking approximately all senses of mind so that other are gaining advantages, more efficiency, more financial strength, more advancements and getting work done in least time I. e. Happening by the existing technology is infinite times We will get domination, our every disputes, wars, inconveniences, diseases, financial loss, closure and loss in every profession get over, success, growth, advancement in every field of profession, protection of national security, increase in gdp, wealth, per capita income, zero workload on government in areas of disputes, conflicts, human loss as it gets minimal or reduced to zero. easy way to get things done that where taking infinite efforts, lives to make it happen, more connections, more strong relationships, more advancement and improvements in every aspects of life. no wars, no economic failure, loss.

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111056721 A

(19) INDIA

(22) Date of filing of Application :07/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : VEHICLE SECURITY USING FINGERPRINT SCANNER TO AID INTELLIGENT TRANSPORTATION SYSTEM

(51) International classification :B60R0025250000, B60R0025040000, G07G0001000000, H04L0009320000, H04W0004400000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SHALINI YADAV

Address of Applicant :1760/3, LANE NO.6, RAJIV NAGAR, GURGAON HARYANA-122001, INDIA -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SHALINI YADAV

Address of Applicant :1760/3, LANE NO.6, RAJIV NAGAR, GURGAON HARYANA-122001, INDIA -----

(57) Abstract :

The invention provides security to the vehicles. It is intelligent enough to authenticate the transportation system. It identifies the driver with the associated vehicle. It checks if the driver is an authorized driver for the particular vehicle or not. It control vehicle movement via the authentication process. If the driver is the correct and authenticated person to drive the vehicle, the vehicle shall start else the vehicle shall not start. The invention thereby provides security to the vehicle and vehicle" owner. Additional benefits include optimizing the entire transportation ecosystem which is used by all age groups; gender and all professionals.

No. of Pages : 9 No. of Claims : 4

(54) Title of the invention : ENHANCED ANTIBACTERIAL ACTIVITY OF THE SYNTHESIZED AMOXICILLIN-IRON COMPLEX

<p>(51) International classification :C11D0009100000, C11D0003480000, A61F0013840000, C11D0009000000, C07K0014360000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)KUSHNEET KAUR SODHI Address of Applicant :SOIL MICROBIOLOGY AND ENVIRONMENTAL TOXICOLOGY LABORATORY, DEPARTMENT OF ZOOLOGY,UNIVERSITY OF DELHI-110007, INDIA ----- 2)DR. MOHIT KUMAR 3)PROF. DILEEP KUMAR SINGH Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)KUSHNEET KAUR SODHI Address of Applicant :SOIL MICROBIOLOGY AND ENVIRONMENTAL TOXICOLOGY LABORATORY, DEPARTMENT OF ZOOLOGY,UNIVERSITY OF DELHI-110007, INDIA ----- 2)DR. MOHIT KUMAR Address of Applicant :SOIL MICROBIOLOGY AND ENVIRONMENTAL TOXICOLOGY LABORATORY, DEPARTMENT OF ZOOLOGY,UNIVERSITY OF DELHI-110007, INDIA ----- 3)PROF. DILEEP KUMAR SINGH Address of Applicant :SOIL MICROBIOLOGY AND ENVIRONMENTAL TOXICOLOGY LABORATORY, DEPARTMENT OF ZOOLOGY,UNIVERSITY OF DELHI-110007, INDIA -----</p>
---	---

(57) Abstract :

Antibiotic resistance is a major global threat to the environment. Millions of deaths are encountered every year due to the prevalence of antibiotic resistant bacteria. Many novel compounds are tried as an antimicrobial agent. Transition metal complexes are a good candidate for antimicrobial agents. The interaction of the transition metal ions with antibiotics helps to enhance their antimicrobial activity as compared to that of free ligands. In the invention, we synthesized the Amoxicillin-Iron (HI) complex and studied its antibacterial activity. The complex structure was elucidated using elemental analysis, TGA analysis, XRD, SEM-EDX, DLS studies, and biological assays to determine the antibacterial activity. The synthesis of the complex was determined by all the techniques, and the synthesized complex passed all the parameters of Green chemistry, and was safe to be used and caused minimum environmental damage. Antibacterial activity of the complex was measured by studying the growth kinetics and disk diffusion test of the amoxicillin resistant strains isolated by the earlier studies of Sodhi et al.. 2020. Our data suggested that the in-vitro synthesized amoxicillin-iron (III) complex showed antibacterial activity against all the bacteria whereas it was resistant to antibiotics amoxicillin. Therefore, we claim that the in-vitro synthesized antibiotic metal complex can be used as an antimicrobial agent.

No. of Pages : 10 No. of Claims : 4

(54) Title of the invention : CYLINDER LINER FOR INSERT CASTING

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:B22D0019000000, F02F0001000000, H04L0001180000, H04L0001160000, F02F0001160000</p> <p>:PCT/JP2020/024707</p> <p>:24/06/2020</p> <p>:-----</p> <p>:PCT/JP2020/024707</p> <p>:24/06/2020</p> <p>:WO 2021/260819</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)TPR CO., LTD. Address of Applicant :6-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo 1000005 -----</p> <p>2)TPR INDUSTRY CO., LTD. Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)TOKAIRIN, Yasutomo Address of Applicant :c/o TPR INDUSTRY CO., LTD., 1, Central Industrial Park, Sagae-shi, Yamagata 9900561 ----- --</p> <p>-----</p> <p>2)HATAKEYAMA, Koichi Address of Applicant :c/o TPR INDUSTRY CO., LTD., 1, Central Industrial Park, Sagae-shi, Yamagata 9900561 ----- --</p> <p>-----</p> <p>3)KAWAI, Kiyoyuki Address of Applicant :c/o TPR CO., LTD., 6-2, Marunouchi 1- chome, Chiyoda-ku, Tokyo 1000005 -----</p>
--	---	--

(57) Abstract :

The present invention addresses the problem of providing a cylinder liner for insert casting, whereby the joining strength between a cylinder liner and a cylinder block can be enhanced by reducing a gap that occurs between the cylinder liner and the cylinder block. The problem described above can be solved by a configuration in which the run index YI defined by formula (1) is 2.2-14.5 (inclusive). Formula (1): Run index $YI = [\text{surface area } St (\%) \text{ of protrusion top} \times \text{molten metal infiltration volume } V (\text{mm}^3) / \text{surface area } A (\text{mm}^2) \text{ of cylinder liner base}] / \text{average distance } Pav (\text{mm}) \text{ between surfaces of protrusion tops}$

No. of Pages : 22 No. of Claims : 6

(54) Title of the invention : AIR-HANDLING SYSTEM

(51) International classification :F24F3/044,F24F11/74,F24F11/84
 (31) Priority Document No :2019-077305
 (32) Priority Date :15/04/2019
 (33) Name of priority country :-----
 (86) International Application No :PCT/JP2020/016622
 Filing Date :15/04/2020
 (87) International Publication No :WO 2020/213658
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :**1)DAIKIN INDUSTRIES, LTD.**

Address of Applicant :Umeda Center Building, 4-12, Nakazaki-Nishi 2-Chome, Kita-ku, Osaka-shi, Osaka 5308323 ----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)FUJIMOTO, Toru**

Address of Applicant :c/oDAIKIN INDUSTRIES, LTD., Umeda Center Building 4-12, Nakazaki-Nishi 2-Chome, Kita-ku Osaka-shi Osaka 530-8323 -----

2)TANAKA, Shuuichi

Address of Applicant :c/oDAIKIN INDUSTRIES, LTD., Umeda Center Building 4-12, Nakazaki-Nishi 2-Chome, Kita-ku Osaka-shi Osaka 530-8323 -----

3)KOMATSU, Akira

Address of Applicant :c/oDAIKIN INDUSTRIES, LTD., Umeda Center Building 4-12, Nakazaki-Nishi 2-Chome, Kita-ku Osaka-shi Osaka 530-8323 -----

4)NOUCHI, Yoshiteru

Address of Applicant :c/oDAIKIN INDUSTRIES, LTD., Umeda Center Building 4-12, Nakazaki-Nishi 2-Chome, Kita-ku Osaka-shi Osaka 530-8323 -----

5)TATSUMI, Kouji

Address of Applicant :c/oDAIKIN INDUSTRIES, LTD., Umeda Center Building 4-12, Nakazaki-Nishi 2-Chome, Kita-ku Osaka-shi Osaka 530-8323 -----

6)SUZUKI, Ryouta

Address of Applicant :c/oDAIKIN INDUSTRIES, LTD., Umeda Center Building 4-12, Nakazaki-Nishi 2-Chome, Kita-ku Osaka-shi Osaka 530-8323 -----

7)NAKASHIMA, Taishi

Address of Applicant :c/oDAIKIN INDUSTRIES, LTD., Umeda Center Building 4-12, Nakazaki-Nishi 2-Chome, Kita-ku Osaka-shi Osaka 530-8323 -----

(57) Abstract :

This air-handling system controls air volume according to the required air volume, which changes as needed. An air supply fan unit (20) is provided separate from an air-handling unit (10), sends external air from the outside to the air-handling unit (10), and sends the external air treated at the air-handling unit (10) to the interior. An air exhaust fan unit (30) is provided separate from the air-handling unit (10), sends internal air from the interior to the air-handling unit (10), and sends the interior air treated at the air-handling unit (10) to the outside. A controller controls the rotational speed of a first fan on the basis of a first detection value from a first air volume detection unit and the rotational speed of a second fan on the basis of a second detection value from a second air volume detection unit.

No. of Pages : 72 No. of Claims : 8

(54) Title of the invention : NETWORK SYSTEM

(51) International classification :H04L12/46,F24F11/54,F24F11/58
 (31) Priority Document No :2019-067795
 (32) Priority Date :29/03/2019
 (33) Name of priority country :-----
 (86) International Application No :PCT/JP2020/013128
 Filing Date :24/03/2020
 (87) International Publication No :WO 2020/203494
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)DAIKIN INDUSTRIES, LTD.
 Address of Applicant :Umeda Center Building, 4-12, Nakazaki-Nishi 2-Chome, Kita-ku, Osaka-shi, Osaka 5308323 ----

Name of Applicant : NA
Address of Applicant : NA
 (72)**Name of Inventor :**
1)HIGASHIYAMA,shin
 Address of Applicant :DAIKIN INDUSTRIES, LTD. Umeda Center Building, 4-12, Nakazaki-Nishi 2-Chome, Kita-ku, Osaka-shi, Osaka 5308323 -----
2)DOHMAE,Hiroshi
 Address of Applicant :DAIKIN INDUSTRIES, LTD. Umeda Center Building, 4-12, Nakazaki-Nishi 2-Chome, Kita-ku, Osaka-shi, Osaka 5308323 -----

(57) Abstract :

The present invention improves reliability of communication in a network in which a plurality of apparatuses is classified into a plurality of hierarchy levels, in a case where communication irrelevant to the hierarchy levels and communication within each of the hierarchy levels are performed using physical wiring. A physical first wiring (501) is connected to a first indoor unit (121) and an outdoor unit (110) which are first level apparatuses. A physical second wiring (502) is connected to a second indoor unit (122) which is a second level apparatus. A first intermediate unit (150), which is a first intermediate apparatus, has a first filter (151) which is constantly connected to the first wiring (501) and the second wiring (502). The first intermediate unit (150) communicates with the outdoor unit (110) and the second indoor unit (122) by using a first signal. The first filter (151) is disposed so as to facilitate passage therethrough of a high-frequency first signal to be used for communication among the outdoor unit (110), the first indoor unit (121), the first intermediate unit (150), and the second indoor unit (122), and so as to retard passage therethrough of a low-frequency second signal to be used for communication between the first intermediate unit 150 and the second indoor unit 122.

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117041878 A

(19) INDIA

(22) Date of filing of Application :16/09/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AIR CONDITIONING SYSTEM

(51) International classification :F24F3/044,F24F11/74,F24F11/89

(31) Priority Document No :2019-077306

(32) Priority Date :15/04/2019

(33) Name of priority country :-----

(86) International Application No :PCT/JP2020/016618
Filing Date :15/04/2020

(87) International Publication No :WO 2020/213655

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)DAIKIN INDUSTRIES, LTD.

Address of Applicant :Umeda Center Building, 4-12, Nakazaki-Nishi 2-Chome, Kita-ku, Osaka-shi, Osaka 5308323 ----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)TANAKA, Shuuichi

Address of Applicant :DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-Nishi 2-Chome, Kita-ku, Osaka-shi, Osaka 5308323 -----

2)NOUCHI, Yoshiteru

Address of Applicant :DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-Nishi 2-Chome, Kita-ku, Osaka-shi, Osaka 5308323 -----

3)TATSUMI, Kouji

Address of Applicant :DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-Nishi 2-Chome, Kita-ku, Osaka-shi, Osaka 5308323 -----

(57) Abstract :

The present invention addresses reverse airflow occurring in the ducts of an air conditioning system that uses ducts to supply conditioned air to a plurality of locations inside a building. A heat exchanger unit (10) includes a usage-side heat exchanger (11). A plurality of ducts (20) are connected to the heat exchanger unit (10). A plurality of fan units (30) draw in conditioned air from the heat exchanger unit (10) via the plurality of ducts (20) and supply the same to a plurality of outlets (71). A differential pressure sensor (121), which is a detection device, detects reverse airflow heading toward the heat exchanger unit (10) from at least one outlet (71) among the plurality of outlets (71) in a plurality of distribution flow paths formed from the plurality of ducts (20), the plurality of fan units (30), and the outlets (71) of a plurality of outlet units (70).

No. of Pages : 32 No. of Claims : 9

(54) Title of the invention : ROBOT SYSTEM, RECOVERY PROGRAM GENERATION DEVICE, CONTROL SUPPORT DEVICE, CONTROL DEVICE, PROGRAM, RECOVERY PROGRAM GENERATION METHOD, AND RECOVERY PROGRAM OUTPUT METHOD

(51) International classification :B25J0009160000, G06F0011140000, B25J0019000000, B25J0019060000, B25J0003000000

(86) International Application No :PCT/JP2019/019788
Filing Date :17/05/2019

(87) International Publication No :WO 2020/234946

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)KABUSHIKI KAISHA YASKAWA DENKI

Address of Applicant :2-1, Kurosaki-Shiroishi, Yahatanishi-ku, Kitakyushu-shi, Fukuoka 8060004 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)HASHIGUCHI Yukio

Address of Applicant :c/o KABUSHIKI KAISHA YASKAWA DENKI, 2-1, Kurosaki-Shiroishi, Yahatanishi-ku, Kitakyushu-shi, Fukuoka 8060004 -----

2)KUWAHARA Koichi

Address of Applicant :c/o KABUSHIKI KAISHA YASKAWA DENKI, 2-1, Kurosaki-Shiroishi, Yahatanishi-ku, Kitakyushu-shi, Fukuoka 8060004 -----

(57) Abstract :

A robot system 1 is provided with: a robot 10; peripheral equipment 50 disposed to the periphery of the robot 10; a control unit 112 which causes at least the robot 10 to operate on the basis of a program; an interruption unit 113 which interrupts a series of a plurality of operations, performed by the robot 10 in tandem with the peripheral equipment 50 and on the basis of an operation program, when an irregular state occurs in the peripheral equipment 50; and a simulator 300 which generates a recovery program on the basis of at least robot state information, of the robot 10, at the point in time when operation was interrupted due to the occurrence of the irregular state, wherein, on the basis of the recovery program, the control unit 112 causes the robot 10 operate with respect to the peripheral equipment 50 such that operations performed via the interrupted operation program can be continued.

No. of Pages : 43 No. of Claims : 17

(54) Title of the invention : APPARATUS FOR DIFFICULT NASOTRACHEAL INTUBATION

<p>(51) International classification :A61M0016040000, A61B0001267000, B08B0015040000, A61M0031000000, A61F0005000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. SURJEET SINGH Address of Applicant :FLAT NO.-5, TYPE 4 B-BLOCK, MRA MEDICAL COLLEGE, AMBEDKAR NAGAR UTTAR PRADESH-224190, INDIA -----</p> <p>2)MAMATA GURAGAIN Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)DR. SURJEET SINGH Address of Applicant :FLAT NO.-5, TYPE 4 B-BLOCK, MRA MEDICAL COLLEGE, AMBEDKAR NAGAR UTTAR PRADESH-224190, INDIA -----</p> <p>2)MAMATA GURAGAIN Address of Applicant :FLAT NO.-5, TYPE 4 B-BLOCK, MRA MEDICAL COLLEGE, AMBEDKAR NAGAR UTTAR PRADESH-224190, INDIA -----</p>
---	---

(57) Abstract :

The present invention envisages and apparatus/technique for such difficult nasotreachal intubation makes easier, causing no bleed/puncture to the object in the nasopharyngeal pathway during intubation, has small dimension and low cost,disposable. The apparatus comprises a hollow conical structure made up of firm. Rubber/soft gelatin like flexible material,which may caps tightly the distal end of endotracheal tube through its cylindrical part of wider, hollow first end. The other narrow end of conical structures gets fully attached to the first end of long transparent hollow and flexible pipe (about 25-30cm long -adjustable). While the other second end of pipe should be blunt and closed. (Diameter also adjustable according to patient's age). The transparent pipe works as a guide wire and the conical structure widens the nasopharyngeal pathway to allow the endotracheal tube in to the oral cavity without harming /puncture the objects/ obstruction.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211000848 A

(19) INDIA

(22) Date of filing of Application :06/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : SELF-ADJUSTABLE FRICTION WHEEL DRIVE ASSEMBLY

(51) International classification :B60G0005020000, E02F0009080000, B60L0053800000, B26D0007000000, G11B0025040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Falcon Autotech Private Limited

Address of Applicant :57, Nimri Colony Double Storey Flats
Delhi, India-110052 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)VERMA, Dheeraj

Address of Applicant :G-803, DASNAC The Jewel of Noida,
Sector-75, Noida 201301 -----

2)YADAV, Sonu

Address of Applicant :KM30/202, Jaypee Kosmos, Sector-134,
Noida-201304 -----

(57) Abstract :

Provided is a friction wheel drive assembly (100) for self-adjustment. The friction-wheel drive assembly (100) includes a main frame (112) provided with a central hinge wheel (108) mounted on both sides of the main frame (112) in X-X direction of the main frame (112); a base plate (105) is pivotally supported on the main frame (112) by virtue of a supporting member (109) of the base plate (105) being supported on the central hinge wheel (108) of the main frame (112); and a pair of linear guides (110A, 110B) that are distally arranged to each other on the base plate (105) such that a first roller plate (118) and a second roller plate (120) slidably mounted on the pair of linear guides (110A, 110B).

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001060 A

(19) INDIA

(22) Date of filing of Application :07/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : A PELLETIZED ARSENIC ADSORBENT AND ITS METHOD OF PREPARATION USING THE LATERITE ROCK AND THE FERROMANGANESE SLAG

<p>(51) International classification :B01J0020300000, B01J0020280000, C02F0001280000, B01J0020060000, B01J0020100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY ROORKEE Address of Applicant :ROORKEE -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. ABHIJIT MAITI Address of Applicant :Department of Polymer and Process Engineering, Indian Institute of Technology Roorkee, Saharanpur Campus, Saharanpur- 247001 -----</p> <p>2)MR. NISHANT JAIN Address of Applicant :Department of Polymer and Process Engineering, Indian Institute of Technology Roorkee, Saharanpur Campus, Saharanpur- 247001 -----</p> <p>3)DR. ANIL KUMAR Address of Applicant :Department of Polymer and Process Engineering, Indian Institute of Technology Roorkee, Saharanpur Campus, Saharanpur- 247001 -----</p>
---	--

(57) Abstract :

The present invention relates to a system and method for an arsenic adsorbent with remarkable oxidation ability, efficiency to remove total arsenic, easy scalability, and, finally, economic viability. The arsenic adsorbent has been developed by combining the Laterite and the ferromanganese slag in the optimum proportion in a chemical treatment route. the preparation of a mixed arsenic adsorbent using natural rock and industrial waste. Laterite rock and the ferromanganese slag as a raw material were subjected to chemical treatment. Successively leach the active ingredients from both materials at optimal process conditions and then precipitate as mixed metal oxides/hydroxides. The adsorbents were prepared by tuning the elements Fe, Al, and Mn leaching concentration in the final solution before hydrolysis. Hence, Mn(IV) imposes the As(III) oxidation functionality, and Fe and Al oxide/hydroxide provide the active surface sites for the adsorption of arsenic species.

No. of Pages : 41 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001079 A

(19) INDIA

(22) Date of filing of Application :07/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : REVERSIBLE MALE CONTRACEPTIVE EFFECT OF GLORIOSA SUPERBA

(51) International classification :A61K0036480000, C08J0005180000, A61K0036906600, A61K0036481000, A61K0036539000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mr. HIMANSHU GUPTA

Address of Applicant :Department of Pharmacy, Mahatma Jyotiba Phule Rohilkhand University, Bareilly 243006, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Himanshu Gupta

Address of Applicant :Department of Pharmacy, Mahatma Jyotiba Phule Rohilkhand University, Bareilly 243006, India -----

2)DR. KAMAL KISHORE MAHESHWARI

Address of Applicant :Department of Pharmacy, Mahatma Jyotiba Phule Rohilkhand University, Bareilly 243006, India -----

3)HIMANSHU GUPTA

Address of Applicant :A/217 DEFENCE COLONY NEAR ARYA SAMAJ MANDIR PO IZZATNAGAR -----

-

(57) Abstract :

In the present invention alcoholic extract of Gloriosa Superba bark was found to be producing potent antifertility effect in male rats. The effect so produced was reversible and natural condition was restored after 45 days of withdrawing the drug treatment.

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001598 A

(19) INDIA

(22) Date of filing of Application :11/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ECO-FRIENDLY METHOD AND DEVICE FOR ONSITE GENERATION OF HYDROGEN FUEL

(51) International classification :C10K0003040000, C01B0003040000, B01J0023890000, C01B0003380000, C22C0005040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Harjinder Singh Cheema

Address of Applicant :#1580, sector 69, Mohali 160062, Punjab, India -----

2)J.P. Kundra

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Harjinder Singh Cheema

Address of Applicant :#1580, sector 69, Mohali 160062, Punjab, India -----

2)J.P. Kundra

Address of Applicant :# 1364, Sector 49B, Chandigarh-160047, India -----

(57) Abstract :

Eco-friendly method and device for onsite generation of hydrogen fuel relates to an onsite device for production of gaseous mixture containing a substantial proportion of hydrogen by reaction of methane with superheated steam in the presence of a catalyst, and a method thereof. The present invention also enables capture and usage of carbon as carbon nanoparticles for further use in industry. The present invention substitutes the combustion of fossil fuels with hydrogen to release no greenhouse gases. The invention provides a cost effective, eco-friendly, and easy to install alternative to cut down industry's carbon emissions.

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : N-6 METHYL ADENINE DEPENDENT AND, SENSITIVE RESTRICTION ENZYMES BASED QPCR ASSAY FOR DETERMINING PROMOTER/LOCUS SPECIFIC DNA ADENINE METHYLATION

<p>(51) International classification :C12Q0001685100, G01N0033500000, C12Q0001688600, G01N0033680000, C12Q0001682500</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. GAURAV PARASHAR Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWER (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, HARYANA-133207. -----</p> <p>2)DR. NIDARSHANA CHATURVEDI PARASHAR 3)PROF. KULBHUSHAN TIKOO</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)DR. GAURAV PARASHAR Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWER (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, HARYANA-133207. -----</p> <p>2)DR. NIDARSHANA CHATURVEDI PARASHAR Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWER (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, HARYANA-133207. -----</p> <p>3)PROF. KULBHUSHAN TIKOO Address of Applicant :PROFESSOR & HEAD, DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY, NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH, SECTOR-67, SAS NAGAR, PUNJAB-160062 ---- -----</p>
---	---

(57) Abstract :

Disclosed herein a kit of determination of promoter or locus specific DNA adenine methylation levels utilising methylation dependent (DpNI) and sensitive (DpNII) restriction enzymes targeting 'GATC' sites and fluorescence based quantitative polymerase chain reaction. This invention provides N-6 methyl adenine dependent and, sensitive restriction enzymes-based qPCR assay for determining locus or site-specific levels of m6dA in DNA. Methylation ratios observed for the PDL-1 and CTLA-4 genes using the assay were also found to agree with changes observed in gene expression. Considering limited assays including antibody-based immunoprecipitation and single restriction enzyme-based qPCR for promoter or locus specific determination of m6dA levels, the present disclosure also attempts to addresses the cell to cell variations and possible non-specific homogenous incorporation of N-6 methyl-deoxyadenine and allow assessing their biological role in regulation. The present disclosure may be utilized as an assay or a kit for evaluating m6dA biological role in pathological and other conditions. Further the assay may also be used for diagnostics by identifying possible m6dA sites as biomarkers, association or relationship with gene expression or prognostic or survival analysis or therapeutics designing applications.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001840 A

(19) INDIA

(22) Date of filing of Application :12/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : COMPARATIVE STUDY OF PITAVASTATIN AS ANTIEPILEPTIC AGENT

<p>(51) International classification :A61K0031470000, C07D0215140000, A61K0031190000, A61B0005000000, A61K0031416600</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Shubham Verma Address of Applicant :Saraswathi College of Pharmacy, Hapur, Uttar Pradesh, 245304, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Shubham Verma Address of Applicant :Saraswathi College of Pharmacy, Hapur, Uttar Pradesh, 245304, India -----</p> <p>2)Dr. Nitin Kumar Address of Applicant :Saraswathi College of Pharmacy, Uttar Pradesh, 245304, India -----</p> <p>3)Dr. Umesh Kumar Address of Applicant :Om BioSciences and Pharmacy College, Roorkee, Uttarakhand, 247667, India -----</p> <p>4)Dr. Gaurav Jain Address of Applicant :Delhi Pharmaceutical Sciences and Research University, New Delhi, 110017, India -----</p> <p>-</p>
---	---

(57) Abstract :

The current investigation was designed to investigate the antiepileptic properties of pitavastatin (PVS). Presently available anti-epileptic drugs cannot control seizures in 15-30% epilepsy patients who develop refractory epilepsy. None of the currently available anti-seizure drugs targets hypersynchronization of epileptogenic impulses. This animal study compared antiepileptic activity of pitavastatin with that of valproic acid and phenytoin. The study was carried out to evaluate intranasal pitavastatin vs intranasal Phenytoin vs intranasal Valproic acid on pentylenetetrazole (PTZ) induced seizures, Maximal electroshock (MES) induced seizures, cognitive assessment i.e., pole climbing test, Forced swim test & Elevated plus maze test & statistical analysis. In PTZ model, the latency to myoclonic jerks and generalized seizures were found to be 117 ± 1.78 and 117.5 ± 3.67 and in MES model there is increase in seizure threshold current (28.33 ± 2.16) in intranasal pitavastatin compared with control (14.41 ± 1.14) but little less than the seizure threshold current of intranasal phenytoin (33.66 ± 2.58) and valproic acid (32.5 ± 2.58). On comparison with control group, intranasal phenytoin (05 ± 1.41) and valproic acid (5.16 ± 1.47) give increase HLTE duration with respect to intranasal pitavastatin (3.83 ± 0.75).

No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : CULTURAL TOURISM AN AID FOR EMPLOYMENT GENERATION AND SUSTAINABLE DEVELOPMENT IN RURAL AREA

(51) International classification	:G06Q0050140000, G06Q0010060000, A47G0029120000, G06Q0050260000, A01N0047180000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
1)Mr. Ravi Parkash
Address of Applicant :Assistant Professor, MMIT&BM(HM) Maharishi Markandeshwar (DEEMED TO BE UNIVERSITY) Mullana, Ambala, Haryana, Pin Code: 133207 -----

2)Mr. Ajay Bhardwaj
3)Dr. Sonia Gupta
4)Mr. Nitish Kumar Bhardwaj
5)Dr. Pankaj Sharma
6)Dr. Meenakshi Sharma
7)Dr. Manjoo Saraswat
8)Dr. Rama Sharma
9)Dr. Deepika
10)Dr. Mala Saraswat
11)Dr Anil Kumar Dubey
12)Dr. Namita Mishra
13)Prof. Ramesh Chandra Panda
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Mr. Ravi Parkash
Address of Applicant :Assistant Professor, MMIT&BM(HM) Maharishi Markandeshwar (DEEMED TO BE UNIVERSITY) Mullana, Ambala, Haryana, Pin Code: 133207 -----

2)Mr. Ajay Bhardwaj
Address of Applicant :Assistant Professor, Department of Hotel Management, Travel & Tourism, IEC University, Baddi, Solan, Himachal Pradesh, Pin Code: 174103. -----

3)Dr. Sonia Gupta
Address of Applicant :Assistant Professor, Journalism and Mass Communication Department, IEC University , Baddi, Solan, Himachal Pradesh, Pin Code: 174103 -----

4)Mr. Nitish Kumar Bhardwaj
Address of Applicant :Assistant Professor, Faculty of Hotel & Tourism Management, SGT University, Gurugram, Haryana, Pin Code: 122025 -----

5)Dr. Pankaj Sharma
Address of Applicant :Associate Professor, Department of Hotel Management, Travel and Tourism, IEC university, Baddi, Solan, Himachal Pradesh, Pin Code: 174103. -----

6)Dr. Meenakshi Sharma
Address of Applicant :Professor, RNB Global University, Sri Ganga Nagar Road, Bikaner, Rajasthan, Pin Code: 334601 -----

7)Dr. Manjoo Saraswat
Address of Applicant :Professor, RNB Global University, Sri Ganga Nagar Road, Bikaner, Rajasthan, Pin Code: 334601 -----

8)Dr. Rama Sharma
Address of Applicant :Assistant Professor, Chandigarh Business School of Administration, Chandigarh Group of Colleges, Sector 112, Landran, Mohali, Punjab, Pin Code: 140307. -----

9)Dr. Deepika
Address of Applicant :Associate Professor, Chandigarh Business School of Administration, Chandigarh Group of Colleges, Sector 112, Landran, Mohali, Punjab, Pin Code: 140307 -----

10)Dr. Mala Saraswat
Address of Applicant :C-4, Plot No-208 Gyankhand-1, Indrapuram, Ghaziabad, Uttar Pradesh, Pin Code: 201010 -----

11)Dr Anil Kumar Dubey
Address of Applicant :House No 76, Indi Parwatpur, Birshahpur, Mirzapur, Uttar Pradesh, Pin Code: 231001 -----

12)Dr. Namita Mishra
Address of Applicant :Associate professor, Tecnia Institute of Advanced Studies, 3 PSP, Institutional Area Madhuban Chowk, Bhagwan Mahavir Marg, Sector 14, Rohini, New Delhi, Pin Code: 110085 -----

13)Prof. Ramesh Chandra Panda
Address of Applicant :Chief Scientist, Wegrow Private Limited, Bhubaneswar, Odisha, Pin Code: 751001 -----

(57) Abstract :
The present invention relates to cultural tourism an Aid (100) for employment generation and sustainable development in a rural area. The method (100) comprising the step of creating state operative tourist lodge (SOTL) (104), creating a standard operating procedure vigilance team (SOPVT) (106), creating a help desk and tour support centre (HDTSC) (108), and creating a rural tourism spot promotion council (RTSPC) (102). The rural tourism spot promotion council (RTSPC) (102) is configured to promote handicraft centers for selling rural artisans' products, to promote Ayurveda/medicinal plant farming, and to promote tribal culture. The method (100) provide employment among rural farmers and artisans and for generating employment opportunity to eradicate poverty and for transformation overall rural areas.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001886 A

(19) INDIA

(22) Date of filing of Application :12/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ANTIFERTILITY POTENTIAL OF CARTHAMUS TINCTORIUS IN MALE RATS

(51) International classification :A61K0036286000, A61K0039000000, A61K0031135000, A61K0035520000, A61K0009480000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)HIMANSHU GUPTA

Address of Applicant :Department of Pharmacy, Mahatma Jyotiba Phule Rohilkhand University, Bareilly 243006, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)HIMANSHU GUPTA

Address of Applicant :Department of Pharmacy, Mahatma Jyotiba Phule Rohilkhand University, Bareilly 243006, India -----

2)DR. DINESH KUMAR SHARMA

Address of Applicant :Himalyan Institute of Pharmacy & Research, Dehradun, uttarakhand, 248007 India -----

3)DR. KAMAL KISHORE MAHESHWARI

Address of Applicant :Department of Pharmacy, Mahatma Jyotiba Phule Rohilkhand University, Bareilly 243006, India -----

(57) Abstract :

In the present invention ethanolic extract of Carthamus tinctorius seeds at 100 mg/kg and 200 mg/kg doses shows potent antifertility effect in male rats. For evaluating this antifertility potential of the above extract the body, testis, epididymis & seminal vesicle weight of treated group rats were compared with control. Furthermore, number of pups delivered, litter weight, serum testosterone, sperm motility and sperm count were performed in male rats.

No. of Pages : 10 No. of Claims : 1

(54) Title of the invention : THE EFFECT OF INTERNET USE ON STUDENTS' ACADEMIC PERFORMANCE IN INDIA DURING COVID-19 PANDEMIC

(51) International classification :G06Q0050200000, G09B0007000000, G09B0005060000, G09B0005000000, G09B0005140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)JITENDRA KUMAR NAGAR
 Address of Applicant :S/O BABU RAM NAGAR HOUSE NO-3/37 FLATE NO 2 DLF PUBLIC SCHOOL, GHAZIABAD, UTTAR PRADESH, INDIA, 201005 -----
2)Dr. Kavita khatana
3)Dr. M. THANIKAIVEL
4)Dr.Gururaja C.S
5)D Rajkumar Pillay
6)G.Girishkumar
7)ANIRUDDHA VIKAS KUMAWAT
8)Dr.T.RANI
9)K.PRAKASH
10)M.SUDHARSAN
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)JITENDRA KUMAR NAGAR
 Address of Applicant :S/O BABU RAM NAGAR HOUSE NO-3/37 FLATE NO 2 DLF PUBLIC SCHOOL, GHAZIABAD, UTTAR PRADESH, INDIA, 201005 -----
2)Dr. Kavita khatana
 Address of Applicant :Assistant professor College Name with address: IIMT College of Polytechnic, Alpha 1, greater noida, u.p Pin: 201310 State: UTTAR PRADESH Country: India Email: bhatikavita77@gmail.com -----
3)Dr. M. THANIKAIVEL
 Address of Applicant :Assistant Professor, PG Research Department of Commerce, Government Arts College for Men (Autonomous), Nandanam, Chennai - 600 035. Tamil nadu India dr.thanikaivel@gmail.com -----
4)Dr.Gururaja C.S
 Address of Applicant :Assistant Professor College Name with address: Mount Carmel College, Autonomous, Bengaluru, Department of Education. Pin: 560051 State: Karnataka Country: India Email: raj.guru700@gmail.com -----
5)D Rajkumar Pillay
 Address of Applicant :Assistant Professor College Name: Institute of Public Enterprise. Pin: 500101 State: Telangana Country: India Email: rajkumarpillay@ioeindia.org -----
 --
6)G.Girishkumar
 Address of Applicant :Assistant Professor College Name with address: Government Polytechnic College Kooduveli, Kattumannar koil, Cuddalore Dist. Pin: 608305 State: Tamilnadu Country: India Email: girishedmau@gmail.com -----
7)ANIRUDDHA VIKAS KUMAWAT
 Address of Applicant :ASSISTANT PROFESSOR College Name with address: JES COLLEGE OF COMMERCE, SCIENCE AND INFORMATION TECHNOLOGY, CAVES ROAD, NEAR JOGESHWARI RAILWAY STATION, JOGESHWARI (EAST) MUMBAI, MAHARASHTRA Pin: 400060 State: MAHARASHTRA Country: INDIA Email: aniruddha.kumawat@gmail.com -----
8)Dr.T.RANI
 Address of Applicant :Assistant Professor College Name with address:SRM INSTITUTE OF SCIENCE AND TECHNOLOGY BHARATHI SALAI, RAMAPURAM, CHENNAI -89 Pin:600089 State:TAMILNADU Country:INDIA Email: ranit@srmist.edu.in -----
 --
9)K.PRAKASH
 Address of Applicant :: Assistant professor College Name with address:SRM arts and science college, Kattankulathur, chengalpattu Dist. Pin:603203 State: Tamilnadu Country: India Email:prakash.researchscholar23@gmail.com -----
10)M.SUDHARSAN
 Address of Applicant :Assistant professor College Name with address:SRM Arts And science college, Kattankulathur, chengalpattu Dist Pin:603203 State: Tamilnadu Country:india Email: sudharsanms15@gmail.com -----

(57) Abstract :
 Following the COVID-19 outbreak, several institutions have turned their attention to the availability and utilization of online and e-learning platforms. For example, Blackboard is an e-learning system with a number of useful features that might be useful during the COVID-19 outbreak. Practical usage of an e-learning system, on the other hand, requires an understanding of the elements that impact adoption as well as the major difficulties that face today's e-learning systems. Information technology substantially impacted elementary education systematically and highly integrated at the start of the twenty-first century. The development of genuinely transformative education for people will be aided by the expansion and evolution of educational technology, which will result in the establishment of non-traditional ways of teaching. Education, knowledge growth, and sharing have never been more important. In light of the relationship between technology growth and changes like educational programme execution, this process compels a rethink of the value and relevance of teaching in general. In addition to information technology, humans continue to play an important role in education. Consequently, university teachers' roles and competencies must be adjusted to match worldwide developments, notably during the Covid-19 pandemic. The research examines and evaluates university instructors' abilities and the value of using information technology into classroom learning.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001913 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : DAWNING ROLE OF PITAVASTATIN IN EPILEPSY

<p>(51) International classification :A61K0009107000, A61K0047100000, A61K0031470000, A61K0009000000, C07D0215140000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Shubham Verma Address of Applicant :Saraswathi College of Pharmacy, Hapur, Uttar Pradesh, 245304, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Shubham Verma Address of Applicant :Saraswathi College of Pharmacy, Hapur, Uttar Pradesh, 245304, India -----</p> <p>2)Dr. Nitin Kumar Address of Applicant :Saraswathi College o Pharmacy, Hapur, Uttar Pradesh, 245304, India -----</p> <p>3)Dr. Umesh Kumar Address of Applicant :Om BioSciences and Pharmacy College, Roorkee, Uttarakhand, 247667, India -----</p> <p>4)Dr. Gaurav Jain Address of Applicant :Delhi Pharmaceutical Sciences and Research University, New Delhi, 110017, India -----</p> <p>-</p>
---	---

(57) Abstract :

Pitavastatin calcium is a lipid-lowering drug molecule having poor bioavailability. In invention pitavastatin was used as antiepileptic drug by using various oils, surfactants, and co-surfactants, which increase the bioavailability of this BCS class- II drug. Nanoemulsion was prepared by Vortex technique to increase the bioavailability of pitavastatin through nasal route. Nanoemulsion formulation of pitavastatin was evaluated for its invitro characterization like drug content, droplet size analysis, zeta potential and drug permeation. Out of the 6 formulations, formulation F2 was quite stable and effective in epilepsy.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001943 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : FLOOR CARPET REPAIR DEVICE

(51) International classification :B60N0003040000, G07F0011160000, A47G0027040000, G07F0009020000, B29L0031300000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Vivekananda Global University
Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr.Kalpna Munjal
Address of Applicant :Faculty of Design, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----
2)Onkar Bagaria
Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

(57) Abstract :

A floor carpet repair device comprising a body 1 attached with a set of motorized wheels 2 to move on a carpet, an image capturing module 3 for determining dimensions of damaged portion on the carpet, a telescopic cutter 4 for cutting damaged portion, a dispensing unit that dispenses glued strips on a cavity, a motorized roller 7 wrapped with a white colored carpet, a robotic arm 9 installed with a suction cup 10 to hold and place the trimmed carpet from a platform 8 to the cavity, multiple compartments 11 and a vessel 12 for storing different colors of paint, a photoelectric sensor 14 for determining color of the carpet, an electronically controlled valve 15 for allowing dispensing of multiple colored paints inside a receptacle 16, a nozzle 18 for sprinkling the blended color on the trimmed carpet, a motorized scrubber 20 for scrubbing the trimmed carpet.

No. of Pages : 19 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001944 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ADJUSTABLE CLIMBING DEVICE

(51) International classification :B62B0005020000, A61G0005060000, B25J0015060000, E02F0003920000, A61B0017320000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Vivekananda Global University

Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Pramod Faujdar

Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India --

2)Sunjay Sharma

Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

(57) Abstract :

The present invention relates to an adjustable climbing device, comprising a first 1 and second set of rods 2 having primary 3 and secondary ends 4 for helping user in climbing, primary ends 3 hinged to each other and secondary ends 4 are telescopic for adjusting the height, a voice recognition module 6 linked with ultrasonic sensor 7 installed on the rod 1 for providing input and sense the obstacle , a motorized wheels 8 connected at base of the rods 1,2 for providing movement, a pair of telescopic rods 9 configured with suction units 10 connected on the rods 1,2 to provide gripping, a motorized slider 11 attached to outer periphery of rods 1,2 to reach location and a pair of telescopic bars 12 configured with a suction unit 13 fixed on the sliders 11 for aligning with stairs.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001945 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : STICKY FOOT WEARABLE DEVICE

(51) International classification :B63B0032400000, A43D0001020000, A61B0005103000, A61B0005000000, A63B0021068000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Vivekananda Global University

Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Vikash Kumar

Address of Applicant :Faculty of Agriculture, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

2)Mohit Jain

Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

(57) Abstract :

The present invention relates to a sticky foot wearable device, comprising a pad 1 configured with straps 2 developed in a manner to be positioned on a sole portion of a user's foot, an artificial intelligence enabled image capturing module 3 to determine overall size of the foot, plurality of shape changing polymers layered on the pad 1 for extent/retract as per user's foot, a load sensor 4 arranged on the pad 1 for determining force of interaction in between the foot and pad 1, plurality of pores 5 mapped on the pad 1 and connected to a glue chamber 6 positioned on the straps 2 via multiple conduits for dispensing the glue and an acetone storing compartment 7 installed on the straps 2 that dispenses passing of the acetone through multiple pipes to the perforations 8 in order to remove the pad 1 from the foot portion of user.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001946 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ADAPTIVE EXERCISE SYSTEM

(51) International classification :G06K0009000000, H04M0001725000, A61B0005000000, A63B0024000000, G06F0001160000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Vivekananda Global University
Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr.Bhupesh Goyal
Address of Applicant :Faculty of Medical Sciences, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----
2)Surjeet Yadav
Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

(57) Abstract :

An adaptive exercise system includes a base platform 1 installed with a touch interactive screen 2 which allows a user to create user profile, a finger print sensor 3 integrated over screen 2 that gives permit to user to access their saved profile, a telescopic rod 4 attached on platform 1 that allows user to perform exercise, an image capturing module 5 attached for capturing user's images to identify type of exercise performed by user and posture of user, a pair of electromagnets 6 integrated inside platform 1 and precisely placed underside rod 4, and upon generation of magnetic field, it results in dragging of rod 4 towards platform 1, a regulator electronically linked to electromagnets 6 for regulating generated magnetic field, a notification module 7 consisting a speaker 8 and vibrational unit 9, mounted on platform 1 to make user aware about wrong body posture and hand grip.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001947 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATIC WOOD GRAINING DEVICE

(51) International classification :F24H0003040000, G01B0011060000, B08B0001000000, B27M0001000000, G01N0005040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Vivekananda Global University
Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Rajesh Dangoria
Address of Applicant :Faculty of Design, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----
2)Sandeep Jain
Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

(57) Abstract :

The present invention relates to an automatic wood graining device including a housing 1 with a user-controlled slidable base 2 for sliding a wood 4, an image capturing module 5 and a moisture detection sensor 6 installed on housing 1 and linked with a microcontroller for determining type, moisture level and ignition temperature of wood 4, a laser displacement sensor 7 affixed on housing 1 for detecting roughness of wood 4, a motorized brush 8 attached to inner top of housing 1 through a telescopic rod for smoothing wood 4 surface, a heat gun 9 attached to housing 1 apex for burning upper layer of wood 4, a telescopic scrubbing unit 10 mapped at apex for burnt layer removal and a valve 11 attached to housing 1 and connected with a chamber 12 having water for dispensing water on scrubbed wood 4.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001948 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ADAPTABLE HEADREST

(51) International classification :A46B0015000000, G09F0023000000, A61B0005010000, A61B0005151000, A45C0015000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Vivekananda Global University

Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.Shalini Dixit

Address of Applicant :Faculty of Medical Sciences,Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

2)Vikash Maroti

Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

(57) Abstract :

The present invention relates to an adaptable headrest comprising, a body 1 engulfed with soft spongy material having first 2 and second portion 3 allowing user to put head for resting, a chamber 4 crafted on both portion of the body 1 holding spongy material, a pressure storage unit mounted in the chamber 4 to push out the spongy material, a sliding lid 5 fabricated with spongy material at opening of chambers 4, a button 5 is placed on body 1 to actuate lid, a weight sensor 6 installed on body 1 to admit presence of user, an artificial intelligence based image capturing module 7 to capture multiple images of user while sleeping, a vibrating module 8 installed on body 1 to alert user for removal of spectacles as well as on completion of sleeping time, a robotic arm 9 to remove spectacles after await of threshold once not removed by user.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001949 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : PORTABLE CLOTHES MAINTENANCE DEVICE

(51) International classification :D06F0058200000, D06F0059020000, D06F0058140000, F16M0011180000, A47G0025060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Vivekananda Global University

Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.Kajal Thakuriya

Address of Applicant :Faculty of Design, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

2)Sunil Kumar Jakhar

Address of Applicant :Department of Mechanical Engineering, Vivekananda Institute of Technology, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

(57) Abstract :

The present invention relates to a portable clothes maintenance device comprising a telescopic frame 1 having a first and second end 2, 3, wherein the first end is configured with multiple motorized wheels 4 adapted to maneuver the frame 1 in a user-defined manner, an artificial intelligence image capturing module 5 in synchronization with a pair of sensors 6 for detecting height of the user in proximity to the frame 1, a primary and secondary bar 7, 8 hinged to each other to rotate on axis of the second end 3, multiple motorized hooks 9 which is accessed by the user to hang clothes, a touch interactive display panel 10 is accessed by a user to input commands regarding number of clothes to be dried by the user, a dryer 11 installed at inner periphery of the bars 7, 8 for drying the clothes.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001950 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : CUSTOMIZED CURRENCY STORAGE DEVICE

(51) International classification :G06F0021320000, B62D0007150000, B25B0009000000, G06Q0020340000, A47B0081000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Vivekananda Global University
Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Muktar Alam
Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----
2)Sanjay Choudhary
Address of Applicant :Department of Mechanical Engineering, Vivekananda Institute of Technology, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

(57) Abstract :

The present invention relates to a currency storage device comprising of a motorized slider 1 arranged with a biometric authentication unit 2 to provide valid authentication to the user and actuating the slider 1 to slide in a linear motion, a semi-circular loop 4 arranged to the slider 1 via a crank pin 15 where crank pin 15 provide rotational motion to the loop 4 which extends through the housing 3 in anti-clockwise manner, a pair of artificial intelligence image capturing module 5 which detect the user in close proximity and activate a gripper unit 6 to grip the currency from the hands of the user, a shelf 7 having multiple bars 8 installed in the housing 3 and configured with a pneumatic grasper 9 which provide sorting of the currency by storing within bars 8 moving under rack arrangement, a weight sensor 10 to detect the counterfeit currency.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001951 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : SPRINT TRAINING AND MONITORING SYSTEM

(51) International classification :A61B0005000000, A63B0071060000, A61B0005020500, A61B0005024000, G02C0005120000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Vivekananda Global University
Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Bhuvnesh Sharma
Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----
2)Sunil Kumar Jakhar
Address of Applicant :Department of Mechanical Engineering, Vivekananda Institute of Technology, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

(57) Abstract :

The present invention relates to a sprint training and monitoring system including eye glasses 1, bridge 3, temples 4, nose pad 5, and rim 2, a holographic image projector 6 installed on the rim 2 for projecting a holographic image of a virtual opponent, a Fiber Bragg Grating sensor 7 installed on the temples 4 for monitoring vital parameters of the user, wherein the microcontroller on basis of the monitored parameters generates a command to the image projector 6 for altering speed of the virtual opponent, a wearable band 8 configured with an accelerometer module for continuously monitoring running speed of the user, an artificial intelligence image capturing module 10 installed on bridge 3 for detecting cracks, dust on the glasses 1 and rim 2, and a pair of telescopic wiping units 12 connected to each glasses 1 to move in back and forth directions for removing the dust.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001952 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : VENOMOUS BITE TREATMENT DEVICE

(51) International classification :A61N0001320000, A61F0013100000, B25J0019020000, A61B0018200000, A61H0033140000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Vivekananda Global University
Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr.Abhishek Roy
Address of Applicant :Faculty of Medical Sciences,Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----
2)Sanjay Sharma
Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

(57) Abstract :

A venomous bite treatment device, comprising a chamber 1 assembled in between a pair of pneumatically actuated telescopic rods 2 having an upper and lower portion 3, 4, the lower portion 4 is utilized by the user for placing infected area present of any body parts, the upper portion 3 is installed with an image capturing module 5 that captures images of an infected area, an ultrasonic sensor 6 for detecting thickness of body part, a retractable robotic arm 7 for tying a thread around body part, a vein detection module 8 for detecting any veins near the infected area, a telescopic surgical blade 9 for slitting a skin over infected area, a suction unit 10 coupled with a pH sensor 11 for absorbing acidic blood from the infected area, a container 12 for storing anti-venom solution, the motorized sprayer 13 sprays the solution to heal the infected area.

No. of Pages : 19 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001953 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : MECHANICAL PULLING DEVICE

(51) International classification :F16M0011280000, G01B0011060000, F16M0011420000, H04N0007180000, B23P0019040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Vivekananda Global University

Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Sourav Kumar

Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

2)Dhiraj singh

Address of Applicant :Department of Electrical Engineering, Vivekananda Institute of Technology, Jaipur, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

(57) Abstract :

The present invention relates to a mechanical pulling device comprising of a base 1 integrated with multiple motorized wheels 2 which determines the arrangement of the base 1 in close vicinity to the pulley arrangement 3, a telescopic rod 5 vertically arranged over the base 1 wherein the image capturing module 6 capture the image of pulley arrangement 3 and determines its height in order to align the rod in parallel to the arrangement 3, a motorized lead screw rod 7 installed at first portion 8 which determines the linear force over the shaft 4 at a defined pressure in order to affix the center of the pulley arrangement 3, a set of primary 9 and secondary pneumatic arm 12 installed over second portion and first portion 10 configured with a acuity laser sensor 11 which determine the positioning of the clamping unit 9, 12.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001954 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ADAPTIVE CUTTING DEVICE

(51) International classification :A61B0005000000, B26D0007220000, G01L0001140000, B02C0018000000, A61H0015000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Vivekananda Global University

Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.Sidharth Raju

Address of Applicant :Faculty of Hospitality And Hotel Management, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

2)Akash Jaiman

Address of Applicant :Department of Computer Science & Engineering , Vivekananda Institute of Technology, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

(57) Abstract :

An adaptive cutting device comprising a body 1 having two ends configured with multiple teeth 2 for cutting a material, a handle 3 arranged at each end that is held by a first and second user respectively for cutting the material, a pair of wearable bands 4 mapped with a touch interactive display panel 5, wherein the panel 5 enables the users to input time for cutting the material, a sensing module 6, 7, 8 in synchronization with an artificial intelligence enabled image capturing module 9 for detecting speed, pressure exerted, alignment made by the first and second user while the cutting, a set of sensors 10, 11 for monitoring condition of material, a vibrating unit 12 for giving an alert to the user in case of alteration of in pressure exerted by the user on the material.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001955 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : MODULAR CUTTING DEVICE

(51) International classification :A63B0024000000, H04N0005330000, F16M0011040000, A61B0005000000, G16H0050200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Vivekananda Global University

Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Manish Shrivastav

Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

2)Ankit Kr. Tiwari

Address of Applicant :Department of Computer Science & Engineering, Vivekananda Institute of Technology, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

(57) Abstract :

The present invention relates to a modular cutting device configured with a misery whip whose both end are installed with handles 1 utilized by at least two individuals and an extended saw blade 2 which follows to and fro motion for cutting the objects where an AI (artificial intelligence) powered thermal imaging camera 3 installed on each of the handles 1 captures the different images of the user and an angle sensor 6 attached on each of the handles 1, the decoding is done by the microcontroller for the postures/stances of various body parts of the user that are arm, wrist, elbow, shoulder and foot, where upon detecting the wrong postures/stances, the attached display screen 4 and laser light projector 7 displays and project the corrective postures/stances on the display screen 4 and projection respectively on ground that are occupied by the user for attaining the corrective orientation and postures/stances.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001956 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATED STERILIZED CULTURE MEDIA PREPARATION DEVICE

(51) International classification :C12N0005000000, A61L0002080000, B01F0007160000, B01F0007000000, G07F0013060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Vivekananda Global University
Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Sunita Bishnoi
Address of Applicant :Faculty of Basic & Applied Sciences, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----
2)Dr. Mala Mathur
Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

(57) Abstract :

An automated sterilized culture media preparation device comprising a housing 1 mapped with a touch interactive display panel 2 for receiving user-input regarding preparation of a culture media type, multiple electronically actuated nozzles 3 connected to multiple chambers 4 for dispensing the determined ingredients, a container 5 configured with a motorized stirrer 6 for collecting and mixing the dispensed solution which is turn is heated by a heating unit 7, an artificial intelligence image capturing module 8 synchronized with a pH sensor 9 detecting the mixing and detecting pH of the mixture, an electronically controlled valve 10 for dispensing pH solutions within the mixture to alter pH value, a glassware 11 for collecting the optimized mixture via a motorized lid 12, a telescopic gripper 13 for positioning a cotton plug at outer periphery of the glassware 11, an autoclave unit 14 for sterilizing the prepared culture medium.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001957 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : AIR ASSISTIVE VEHICLE

(51) International classification :A61B0005000000, A63B0024000000, A63B0071060000, G06F0003048400, B62J0045400000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Vivekananda Global University

Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mohit Sharma

Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

2)Amogh Sharma

Address of Applicant :Department of Mechanical Engineering, Vivekananda Institute of Technology, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

(57) Abstract :

An air assistive vehicle includes a bicycle 1, a touch interactive display panel 3 fitted on one of the handles 2 to receive user input commands regarding desired distance and time to cover the distance, a pressure sensor fabricated on the paddles 4 for monitoring pressure exerted by the user while cycling, the microcontroller transmit display notification on the panel 3 to alert the user if the pressure recedes a threshold level, a fiber bragg's grating sensor and an anemometer 5 for monitoring vital parameters of a user and speed of wind, notification displays on the panel 3 in case of alteration in the monitored parameters and wind speed, a pair of telescopic umbrella (6, 7) positioned on front and back sides of the cycle 1, the microcontroller activates umbrella 6 to open and resist wind flow towards the user that aids the user to cycle 1 in cycling.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001958 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : TEMPERATURE CONTROLLED WATER STORAGE DEVICE

(51) International classification :G01F0023260000, A47J0041000000, A47J0031560000, G01N0001100000, G01N0033530000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Vivekananda Global University

Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Prashant Chauhan

Address of Applicant :Faculty of Architecture & Planning, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

2)Dr. Menka Basin

Address of Applicant :Faculty of Basic & Applied Sciences, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

(57) Abstract :

A temperature controlled water storage device comprising a thermos flask 1 characterized in that a touch interactive display panel 2 for receiving user-input regarding a specific temperature at which the water is to be maintained inside the flask 1, a primary temperature sensor 3 for determining ambient temperature of surrounding, a secondary temperature sensor 4 positioned in between cap 5 and an iris operated lid 6 installed beneath the neck portion, wherein closure of the cap 5 and lid 6 results in formation of an enclosed space that is utilized for accommodating water sample and temperature of the collected water sample is further detected by the secondary temperature sensor 4, a level sensor 7 to detect level of varied temperature water being stored inside the flask 1, an artificial intelligence enabled image capturing module 8 for capturing multiple images of the user for performing authentication of the user.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001959 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATED TILE BREAKING DEVICE

(51) International classification :B25G0001000000, B01F0007160000, F16H0019060000, F16M0011280000, G09B0005020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Vivekananda Global University

Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ramoo Ram

Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

2)Dr. Ravi kant Pareek

Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

(57) Abstract :

The present invention relates to an automated tile breaking device, comprising a frame 1 having a first 2 and second portion 5 in which the first portion 2 is installed with a handle 10 that allows a user to move the frame 1, an image capturing module 3 installed over frame 1 and interlinked to a touch interactive screen 4 for allowing the user to select the section , plurality of motorized wheels 6 installed with frame 1 for movement , a cylinder 7 affixed at second portion 5 of the frame 1 and fabricated with plurality of hollow tubes 8 to insert tools 11 used for breaking tiles, a solenoid valve positioned within the cylinder 7 and connected to a shaft for providing reciprocating motion to the tool 11 and a high torque stepper motor 9 affixed along with the cylinder 7 for aligning the tool 11 with shaft.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001960 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : SMART FOOTWEAR STORAGE DEVICE

(51) International classification :A47L0023200000, G01N0027220000, B65D0025020000, B65D0025000000, B23Q0017240000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Vivekananda Global University
Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr.Vijay Kr.Pandey
Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----
2)Onkar Bagaria
Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

(57) Abstract :

A smart footwear storage device characterizes housing 1 having hollow racks 2 arranged linearly divided into first 5 and second portion 6, first portion 5 having wire mesh 7 used to store footwear, second portion 6 having multiple iris lid 8, server attached with microcontroller attached on housing 1 used to store localized information related to positioning of footwear in racks 2, AI based imaging unit 9 attached over housing 1 captures real time images of footwear present in vicinity of house, telescopic robotic arm 10 is attached on side portion of housing 1 via ball and socket joint 11 in order to pick and place footwear, contactless moisture sensor 12 attached on housing 1 for detecting moisture content, multiple fans 13 are attached beneath lids 8 in order to dry moisture, telescopic rod 14 attached with motorized brush 15 via motorized joint to remove dust stuck to footwear.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001961 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATED NOSE-BRIDGE MASSAGING DEVICE

(51) International classification :A61B0005000000, A61M0016060000, A61M0016000000, A61H0015000000, G02C0005080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Vivekananda Global University
Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Owais Ahmed
Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----
2)Anil Bagaria
Address of Applicant :Faculty of Engineering & Technology, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

(57) Abstract :

The present invention relates to an automated nose-bridge massaging device that comprises of a pair of flaps 1 connected with a motorized hinge 2 that takes the conformation of the user's nasal bridge area with aid of an angle sensor fabricated within the flaps 1, wherein the flaps 1 are configured with an artificial intelligence enabled thermal imaging module 3 to determine user's location along with the patches formed on user's nasal area and pain intensity level suffered by the user, a pair of telescopic pushers 4 in sync with a tweezer 5 to slightly displace spectacles and mask worn by the user respectively, multiple electronically controlled nozzles to dispense moistening agent contained in a pair of chambers 6 and a pair of motorized rollers 8 attached via a pair of telescopic rods 7 to massage the user's nasal bridge area to reduce patches and pain experienced by the user.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001962 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : THERAPEUTICALLY ADAPTABLE SUPPORT MATTRESS

(51) International classification :A61B0005000000, A61B0005024000, A61F0007000000, A61G0007057000, A47C0021000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Vivekananda Global University
Address of Applicant :Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Parvesh Kumar Sharma
Address of Applicant :Faculty of Pharmaceutical Science and Nursing, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----
2)Vikrant Pancholi
Address of Applicant :Faculty of Architecture & Planning, Vivekananda Global University, Sector 36, NRI Road, Jagatpura, Jaipur Rajasthan 303012, India. -----

(57) Abstract :

The present invention relates to a therapeutically adaptable support mattress 1, comprising a first and second layer 2,3 having a display unit 4 and biometric sensor 5 installed on mattress 1 to input biometric information and medical history of user, a computing unit connected with mattress 1 that enables user to feed sleeping schedule and intensity of mattress 1 comfort, multiple weight sensors 6 integrated on first layer 2 for detecting weight of user(s) lying on the mattress 1, multiple telescopic rods 7 equipped with respective springs arranged between the layers for changing hardness of mattress 1, multiple chest-piece 8 coupled with sensors 9 configured at first layer 2 to monitor heart rate of the user and multiple heating panels 10 coupled with vibration units 11 and attached to the rods 7 installed between the layers 2,3 for providing heat therapy along with vibrational massage, thereby maintaining user comfort.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002138 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : PHOTOACTIVATED INDIGENOUS NITRIC OXIDE (NO) RELEASING HYDROGEL EFFECTIVE AGAINST DRUG RESISTANT MICROBES

(51) International classification :A61K0009000000, A61L0029080000, A61K0041000000, A61K0047320000, A61L0027520000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)Ruhvenile Biomedical OPC Pvt. Ltd.

Address of Applicant :104B/9, Kishangarh Vasant Kunj, New Delhi, New Delhi Delhi India 110070 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Rajkumar Halder

Address of Applicant :39B, Kamarabad Netaji Palli, Sonarpur Kolkata West Bengal India 700150 -----

(57) Abstract :

A photoactivated indigenous nitric oxide (no) releasing hydrogel to deliver nitric oxide under illumination on impacted physiological sites in order to mitigate drug resistance infection. The formulation is prepared by incorporating a photoactive metal nitrosyl into a biocompatible material. The biocompatible material is selected from a group which may include but not limited to silicate-based hydrogels, HEMA hydrogel, modified Al-MCM-41 (modified zeolite). The photoactive metal nitrosyl is preferably manganese nitrosyl. The formulation may be used in the form of gel, patch and alike. The formulation may be used as antibacterial agent, antifungal agent and alike.

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002170 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : COW DUNG CAKE PREPARATION DEVICE

(51) International classification :F23G0001000000, F23G0007100000, A61K0035240000, F24H0001000000, A47J0043200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Vikas Dhawan

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Dinesh Deshwal

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Yatharth Bhardwaj

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

The present invention relates to a cow dung cake preparation device comprising a primary chamber 1 having an inlet 2 for inserting of cow dung, multiple compartments 5 situated on the primary chamber 1 for storing of husk, coal dust and water, a touch interactive display panel 6 configured on the primary chamber 1 to input details regarding usage of the cow dung, a motorized stirrer 7 configured at base portion of primary chamber 1 to stir/mix the cow dung, a secondary chamber 8 positioned beneath the primary chamber 1 through a motorized iris 10, a L-shaped telescopic rod 11 attach with a circular plate configured inside the secondary chamber 8 that extends to press the plate in order to give cake shape to dung, a heating unit 12 installed inside the secondary chamber 8 to produce heat in order to dry the cake shaped dungs.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002171 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : VOLUMETRIC ANALYSIS PERFORMING DEVICE

(51) International classification :G01N0031160000, G01N0031180000, B01F0013080000, G01N0021780000, G01N0021790000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Gurjot Singh

Address of Applicant :Faculty, Department of Science, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

-

2)Dr. Sunanda

Address of Applicant :Faculty, Department of Science, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

-

3)Reema Yadav

Address of Applicant :Faculty, Department of Science, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

-

(57) Abstract :

The present invention relates to a volumetric analysis performing device, comprising a titration assembly having a burette 1 connected to a burette stand 2, a beaker 3 characterized in that a platform 4, a magnetic stirrer 5 activates to continuously mix the titrant with the analyte until a neutralization point is obtained in the reaction, an artificial intelligence image capturing module 6 in syncing with a color sensor 7 for detecting chromaticity, neutralization point of the analyte during the reaction and readings on the burette 1 after the reaction, a display panel 8 to display the value to notify the user, a stopcock 9 adapted to move in pre-defined directions to regulate flow of the titrant, a conveyer 10 for translating the titrated beaker 3 towards a pH measuring electrode 11 connected to a bar 12 via a clamping unit 13, for determining pH level of the solution.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002172 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : COCONUT HUSK PROCESSING DEVICE

(51) International classification :F01M0011000000, G01V0011000000, G07F0011420000, B25J0009100000, B23P0019000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Shelly

Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Pardeep Kumar

Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Naresh Kumar

Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

The present invention relates to a coconut husk processing device comprising of a body 1 installed with a touch interactive screen 2, a primary 3, secondary 4 and tertiary 5 compartments arranged within the body 1 and configured with a sorting unit 6, a grinding module 7 embedded within the primary compartment 3 and arranged with a mixing and sieving unit, an iris lid 8 arranged underneath the grinding module 7, a robotic cutter 10 comprising first reservoir 9 and arranged within the secondary compartment 4, a second reservoir 11 arranged in close association with the robotic cutter 10, primary robotic arm 12 and a blower 13, plurality of mud bowls 14 installed within the third compartment 5 integrated with a heating unit 15 and comprising a secondary robotic arm 16 arranged with a sliding rack 17, a moulding tray 18 arranged with the sliding rack 17

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002173 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATED WEIGHT LIFTING DEVICE

(51) International classification :G09F0015000000, B25B0011000000, A47B0001050000, G01B0011020000, B65H0005080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Nitin Sharma

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Nancy Arya

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Manpreet Singh

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

The present invention relates to an automated weight lifting device, comprising a body 1 having two bars 2, 3 connected to each other through motorized hinge 4, two supporting plate, i.e. primary plate 5 adapted to fix with a object and second plate 6 attached with an anchor surface where the bars 2,3 are positioned, a pair of suction units 7 activated when the user grips of plates 5, 6, an AI image capturing module 8 for determining position of the object, an ultrasonic sensor 9 for measuring distance of object from surface, a pair of telescopic rods 10 connected to each other to extend and retract to position of the rods 10 along the edges of the object, a telescopic gripper 12 with vacuum pump for providing grip between rods 10 and objects and a tilt sensor 13 for detecting inclination of the object while lifting.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002174 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : LID POSITIONING DEVICE FOR AIR-TIGHT CONTAINERS

(51) International classification :H03K0017950000, B23Q0011000000, B65G0047520000, B65B0057020000, A47J0043046000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Neha Gahlot

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Jyoti Shokhanda

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Vivek Dabra

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

The present invention relates to a lid positioning device for air-tight containers, comprising a stand 1 having a platform 2 to accommodate containers, a motorized rack 3 to translate a crimping tool 4 equipped with a base plate 12 having multiple telescopically operated jaws 14, an inclined roller conveyer 5 attached with the platform 2 for transferring the lid/container 11 to the platform 2, an artificial intelligence enabled image capturing module 6 positioned on the stand 1 to calculate distance between container and tool 4, a suction unit 10 arranged at the base plate 12 for generating suction pressure to attach the lid, an inductive proximity sensor 9 positioned on the plate 12 for detecting material type of the container and a declined conveyer 7 arranged with the platform 2 to transfer sealed container to ground.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002176 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : HAND BALANCING TRAINING SYSTEM

(51) International classification :G06F0003010000, A61B0005110000, A63B0024000000, A63B0071060000, A61B0005000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Reenu Batra

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Sandeep Singh

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Vinod Kumar

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

The present invention relates to a hand balancing training system, comprising a pair of telescopic rods 1 arranged vertically on platform 2 which is gripped by user while performing exercise, apex portions of rods 1 are attached with rotatable members 3 that aids rotation of user in defined direction, biometric scanner 4 attached over the members 3 that received finger print of user, operated by microcontroller which compares the received fingerprints with stored data, wearable body suit 5 configured with belt 6 associated with system worn by user which is installed with strain sensor 7 that records strain experienced by user, vibration unit 8 attached over the body suit 5 for providing alert to user, first 9 and second motion sensor 10 arranged on legs and wrist portion of body suit 5 to determine the motion of user, voice command display screen 11 operated by microcontroller display the correct posture.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002177 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : COMPACTIBLE MUSICAL INSTRUMENTS ACCOMMODATION AND TRAINING DEVICE

(51) International classification :G06F0003048800, G10H0001000000, G06F0001160000, H04N0005232000, G10H0001340000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Pardeep Kumar
Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----
2)Sumit Kumar
Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----
3)Neha Gahlot
Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

A compactible musical instruments accommodation and training device comprises of a cuboidal body 1 installed with multiple buttons 2 used for playing different types of musical instruments independently, multiple touch panels 3 include various virtual musical instruments and are installed with multiple motorized hinges 4 arranged in a Swiss type arrangement in body 1, a microcontroller embedded in body 1 connected with buttons 2 for generating command to actuate hinges 4 for moving out touch panels 3 having user desired virtual instrument included, a microphone 5 installed on body 1 which receives voice inputs for playing of user-desired musical tune in background via a speaker 6 installed on body 1, a display screen 7 mounted on body 1 for displaying real time procedures of playing user selected instrument, a buzzer 8 attached with body 1 for generating sounds alerts for user if user follow an incorrect method of playing instrument.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002178 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATED SOLUTION TRANSFERRING DEVICE

(51) International classification :B01L0003020000, G01N0035100000, G01N0035000000, G01N0035020000, C02F0103020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Vikas Dhawan

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Monika Deshwal

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Tushar Dhankhar

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

The present invention relates to an automated solution transferring device characterized by a housing 1 mapped with a touch interactive display panel 2 to input commands regarding solution required to be dispensed through the pipette 5, multiple columns 4 arranged inside the housing 1 for storing the pipettes 5 of different volumes, a light emitting diode 6 installed on each columns 4 that blinks in accordance with the input volume, a telescopic gripper 7 arranged on a motorized sliding rack 8 fabricated inside the housing 1 that grip the pipette 5 and dip in a container 9 filled with the media, a flow sensor 11 mapped on the pipette 5 for monitoring flow of the solution inside the pipette 5 and a motorized sliding lock 12 connected at tip of the pipette 5 to cover the tip when the solution is filled inside the pipette 5.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002179 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : SWIM TRAINING DEVICE

(51) International classification :A61B0005000000, A63B0069120000, A63B0069100000, A63B0071060000, G06N0005040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Amritpal Kaur

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Sangeeta Rani

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Reenu Batra

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

A swim training device, comprising a pair of wearable body 1 having a first and second portion adapted to be configured on hands of a user practicing swimming, a pair of telescopic rods 2 to accommodate the palm for providing grip while practicing the swimming, an artificial intelligence image capturing module 3 for detecting palm size and age of the user for determining level of training of the user, a touch interactive display panel 4 for displaying instruction regarding arc length to be maintained and strokes to be adopted in accordance to the determined level while practicing the swimming, an inclinometer 5 connected to the body 1 for measuring the arch maintained through the body 1, an ultrasonic sensor 7 for measuring water level of a pool, a vital sensor 9 for measuring vital parameters of the user while the swimming.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002180 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATIC CONSTRUCTION DEVICE

(51) International classification :A61F0002460000, E04F0021220000, E04F0021180000, E21B0033140000, E01C0019520000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Aman Thapak

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Neeraj Kumar

Address of Applicant :Department of Civil Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

-

3)Aprajay Sharma

Address of Applicant :Department of Civil Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

-

(57) Abstract :

An automatic construction device comprising, a body 1 installed with a touch interactive screen 2 to allows a user to choose different brick laying patterns, multiple chambers filled with cement and multiple bricks, multiple nozzles 3 to discharge cement over a surface, a sensing module 4 consisting an image capturing module and depth sensor to determine topographic condition and depth of surface where bricks are to be arranged, a microcontroller determines quantity of cement required and accordingly actuates nozzle 3 to accordingly discharge cement over surface, multiple levelling plates 5 installed over body 1 and linked to microcontroller, wherein upon laying cement, microcontroller actuates plates 5 to level cement to attain smooth and even surface, multiple robotic arms 6 installed in proximity to chambers, wherein upon smoothening surface, microcontroller actuates arms 6 to grab and position bricks over cemented surface based upon selected layout to construct desired structure for user.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002203 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ORNAMENTS STORING DEVICE

(51) International classification :G06F0003010000, E05B0047000000, G07C0009000000, H04W0012000000, G06F0003048800

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Naresh Kumar
Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----
2)Pardeep Kumar
Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----
3)Sumit Kumar
Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

The present invention relates to an ornaments storing device consist of a cylindrical body 1 configured over a shaft 2 which is linked with a motor 3 for rotating the body 1, plurality of compartment 4 for storing different type of ornaments, a slot 5 to lock or unlock compartment 4, a pair of connecting members 6 coupled with plurality of motorized pins 7 impart rotation within the slot 5 to unlock compartment 4, a plurality of linear actuators 8 provide extraction or retraction to pins, a voice recognition module 9 providing access to the user to input commands related to types of ornaments, an artificial intelligence image capturing module 10 provide authentication of the user, a proximity sensor 11 detect proximity of the user, a gesture sensor 12 monitor gesture of the user, an electrochromic glass 13 allows the user to visualize the ornaments mapped over the body 1.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002205 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : INFANT CALMING AND SLEEPING AID DEVICE

(51) International classification :A61B0005110000, A61J0017000000, A61H0001020000, A41D0019000000, B01D0061180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Simranjeet Singh

Address of Applicant :Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Dr. Mukesh Kumar

Address of Applicant :Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Nisha Kataria

Address of Applicant :Faculty of Science, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

The present invention relates to an infant calming and sleeping aid device, comprising multiple sliders 1 associated with the device to form a frame 2 layered with a fabric 3, a displacement sensor 4 installed over the frame 2 to detect positioning of the infant over the frame 2, a motion sensor 5 mounted over the frame 2 to detect motion of the infant over the frame 2, a thermal image capturing module 6 installed over the frame 2 to analyzes the facial expressions of the infant, a hand glove 7 filled with a small granules attached over the frame 2 with a rack 8 provides a path for movement of the glove 7 to perform tapping which aid in sleeping of the infant and a force sensor 9 fabricated over the glove 7 to detect force exerted by the glove 7 while tapping the infant.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002206 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : MAKEUP KIT MANAGEMENT DEVICE

(51) International classification :G01N0019020000, G01P0005100000, A47L0013510000, A46B0017060000, B01D0046120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Dr K Tara Shankar
Address of Applicant :Faculty of Commerce and Management, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Dr. Chand Saini
Address of Applicant :Faculty of Commerce and Management, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Dr. Deepak Pandey
Address of Applicant :Faculty of Commerce and Management, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

The present invention relates to a makeup kit management device, comprising an enclosed body 1 having plurality of section 2 to accommodate multiple frames 3, multiple number of slots 4 are fabricated within the frames 3 for placing multiple makeup brushes 14, a vertical mortised rack 5 layered on the section 2 for moving the frame 3 with the brushes 14 in the downward direction, a dust sensor 7 arranged over a retractable base portion 6 for measuring the dust present, a chamber 8 containing cleaning solution for removal of dust and dirt, a motorized linear actuator 9 configured with the chamber 8 to transfer the chamber 8 in a corner of the section, a tribometer 11 installed inside the compartment 10 for determining the stiffness of the bristles and an electronically controlled valve 12 fabricated inside the compartment 10 for dispensing the softening agent over the bristles.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : BRICK SORTING AND REARRANGEMENT DEVICE

(51) International classification :H04W0004020000, B64G0004000000, B24B0009100000, A61J0007000000, G06T0019000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Sumit Kumar
 Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Jyoti Ahlawat
 Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Dr Neeraj Saini
 Address of Applicant :Department of Civil Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

-

(57) Abstract :

A brick sorting and rearrangement device comprising a housing 1 configured with multiple motorized wheels 2 that are adapted to maneuver the housing 1 on a site, a photoelectric sensor 3 in synchronization with an artificial intelligence image capturing module 4 mapped on the housing 1 for monitoring color pattern and structural configuration of the bricks, a telescopic gripper 5 attached on the housing 1 via a ball and socket joint 9 for rearranging the bricks within the site in accordance to pre-fed colored patterns and configurations of the bricks, a container 6 mapped within the housing 1 for storing various colors and configurations of the bricks, a telescopic cutter 7 is mapped within the housing 1 for cutting bricks in accordance to the detected configuration, a telescopic grinder 8 is arranged in proximity to the cutter 7 for grinding edges of the cut brick.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002208 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : SECURED INFANT CARESSING DEVICE

(51) International classification :A61B0005000000, A47D0015000000, A47D0013100000, A47D0001100000, A47K0003120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Kamlesh Sharma

Address of Applicant :Faculty, Department of Science, Shree Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Dr. Ravi Tomar

Address of Applicant :Faculty, Department of Science, Shree Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Anirudh Singh Bathiwal

Address of Applicant :Faculty, Department of Science, Shree Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

The present invention relates to secured infant caressing device comprising a chair 1 having seat 2 and backrest 3 attached to each other via hinge to adjust inclination of seat corresponding to backrest 3 lifting seat 2 to prevent infant from escaping, an artificial intelligence enabled thermal imaging capturing module 4 arranged on backrest 3 for capturing multiple images of infant, a pair of robotic arms 5 interconnected with microcontroller attached to seat 2 for holding the infant, a tilt sensor 6 installed on the backrest 3 nearest to the hinge for detecting inclination of seat 2 and an audio alert unit 7 arranged on the chair 1 for generating an alert to notify the user in case of any risk of injury or escaping of infant.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002209 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : WOODEN CRACK FIXING DEVICE

(51) International classification :E21B0007020000, G01N0021950000, B25H0001000000, E01C0023090000, E04G0023020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Naresh Kumar

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Shivendra

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Naveen Sharma

Address of Applicant :Department of Agriculture, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

he present invention relates to a wooden crack fixing device consist of a body 1 mapped with multiple motorized wheels 2 to manoeuvre the body 1, plurality of L-shaped telescopic rods 3 for extension and retraction of an attached suction unit 4 to provide grip to the body 1 further coupled with an electronic actuated valve 5 for dispensing air upon gripped surface which is further linked to a chamber 6 for storing mixture, an artificial intelligence image capturing module 7 for detecting the cracks, plurality of sliders 8 activates to slide the configured drilling unit 9 which drill holes over the surface, a slidable container 10 for storing adhesive agent installed with plurality of nozzles 11 to dispense the adhesive agent onto the surface, a circular disc 12 attached with a hydraulic piston 13 position the disc 12, a metallic plate 14 helps in spreading out the adhesive.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002210 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : CONVERTIBLE COMFORT DEVICE

(51) International classification :A61B0005000000, A61H0007000000, B62B0005000000, G01R0021133000, A47C0017040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Aman Kumar Thapak

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Abhay Anand

Address of Applicant :Department of Mechanical Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Kaushal Sharma

Address of Applicant :Department of Civil Engineering Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

The present invention relates to a convertible comfort device, comprising a sofa arrangement 1 configured with a backrest 2 and sitting platform 3 for providing comfort to users, an artificial intelligence enabled image capturing module 4 positioned on the arrangement 1 for determining height of a user, a motorized ball and socket joint configured with pair of telescopic arms 5 for hugging the user sitting/sleeping on the platform 3, multiple rollers wrapped with different types of blankets to cover the user, plurality of extendable escape slides 6 positioned on peripheral sides of platform 3 to prevent user from being hurt due to falling, a FBG (Fiber Bragg Grating) sensor 7 configured on the arrangement 1 to measure health parameters and electric massagers 8 installed on the back rest and platform 3 to perform massaging of user to provide relief to the user.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002211 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : BICYCLE WHEEL TRUING DEVICE

(51) International classification :B60B0031020000, B60B0001040000, A63B0003000000, B21D0003100000, B62J0006200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shree Guru Gobind Singh Tricentenary University

Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Manpreet Singh

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Amritpal Kaur

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Nitin Sharma

Address of Applicant :Department of Computer Science & Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

The present invention relates to a bicycle wheel truing device, comprising a stand 1 having a pair of rods 2 that are configured with a ring 3 that fits onto motorized axle 4 to place the bicycle above ground surface, a telescopic rod 5 configured with a U-shaped clamp arrangement 6 installed with an artificial intelligence enabled image capturing module 7 synchronized with an ultrasonic sensor 8 for detecting width of the wheel, pair of telescopic pins 9 integrated with touch sensor 10 to determine touching of any portions of the wheel, telescopic grippers 11 to restrict further movement of the wheel, a robotic arm 12 installed with a pair of parallel bars 13 that extends up to a nipple 14 of a spoke for fixing/straightening the wobbled spoke, pneumatically actuated mechanical link 15 for determining tensile strength, motorized marker 16 to mark nipple 14 portion of the deformed spokes.

No. of Pages : 16 No. of Claims : 6

(54) Title of the invention : FLOOR SURFACE CLEANING DEVICE

(51) International classification :A61L0002100000, E04D0015000000, A61B0017290000, A47L0005300000, C02F0003300000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)Shree Guru Gobind Singh Tricentenary University
 Address of Applicant :Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Sumit Kumar
 Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

2)Jyoti Ahlawat
 Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

3)Shelly
 Address of Applicant :Department of Electronics and Communication Engineering, Shree Guru Gobind Singh Tricentenary University, Budhera, Gurugram-badli Road, Gurugram-122505, Haryana, India. -----

(57) Abstract :

A floor surface cleaning device, comprising a hollowed elongated body 1 having a proximal and distal end 2, 3, a handle 4 attached at proximal end 2 clasped by a user to maneuver the device, an image capturing module 5 mounted on proximal end 2 to capture multiple images of floor surface, multiple pneumatically powered primary and secondary bristles 6, 7, installed within body 1, the bristles 6, 7, actuated by microcontroller to extend out from the body 1, a flap 8 attached at the distal end 3 of body 1 to provide a multidirectional movement to the flap 8, and an ultraviolet unit 10 attached at the distal end 3 of body 1, the unit 10 is activated by the microcontroller upon cleaning is performed to disinfect the surface.

No. of Pages : 16 No. of Claims : 8

(54) Title of the invention : COOPERATIVE TEAMWORK AS A CORE ASPECT OF ORGANISATIONAL BEHAVIOR INFLUENCING COMPETITIVE ADVANTAGE OF ORGANISATION IN MARKET

<p>(51) International classification :G06Q0010060000, G06Q0010100000, G09B0019000000, H04L0029080000, G06F0009460000</p> <p>(86) International Application No Filing Date :NA :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Amarendra Singh Address of Applicant :System Manager, Dept of Computer Science & Engineering, Kamala Nehru Institute of Technology, Sultanpur, Uttar Pradesh, India ----- 2)Dr Melanie Lourens 3)Dr. Amitabh Bhargava 4)Dr. Nethravathi K 5)Dr. Nitya Khurana 6)Neha Anand 7)Kawerinder Singh Sidhu 8)Dr. S. Jayashree 9)Joel Alanya-Beltran 10)Jeidy Panduro-Ramirez Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Amarendra Singh Address of Applicant :System Manager, Dept of Computer Science & Engineering, Kamala Nehru Institute of Technology, Sultanpur, Uttar Pradesh, India ----- 2)Dr Melanie Lourens Address of Applicant :Department of Human Resources Management Durban University of Technology, South Africa ----- 3)Dr. Amitabh Bhargava Address of Applicant :Management Studies, Graphic Era Deemd to be University, Dehradun, Uttarakhand, India ----- 4)Dr. Nethravathi K Address of Applicant :Assistant Professor, Department of BMS, Jain University --- ----- 5)Dr. Nitya Khurana Address of Applicant :Assistant Professor, Department of Business Administration, Jagannath International Management School, New Delhi ----- 6)Neha Anand Address of Applicant :Assistant Professor, Department of Humanities, Faculty of Engineering, Teerthaanker Mahaveer University Moradabad ----- 7)Kawerinder Singh Sidhu Address of Applicant :Research Scholar, Uttaranchal Institute of Management (UIM), Uttaranchal University, Dehradun, Uttarakhand, India ----- 8)Dr. S. Jayashree Address of Applicant :Assistant Professor, Department of Commerce, Kristu Jayanti College (Autonomous), Bengaluru, Karnataka, India ----- 9)Joel Alanya-Beltran Address of Applicant :Professor, Electronic Department, Universidad Tecnológica del Perú ----- 10)Jeidy Panduro-Ramirez Address of Applicant :Professor, Business Department Universidad Tecnológica del Perú -----</p>
---	--

(57) Abstract :
This invention analyzes cooperative teamwork as a core aspect of organisational behavior influencing competitive advantage of organisation in market. A cooperative team has a common commitment and specific purpose that it delivers on, has shared leadership roles, and has both individual and mutual accountabilities. Cooperative teams discuss, make decisions, and perform real work together, and they measure their performance by assessing their collective work products.

No. of Pages : 11 No. of Claims : 3

(54) Title of the invention : METHODOLOGY FOR IMPLEMENTATION ONLINE CLASSROOM PLATFORM LEARNING TECHNIQUE

<p>(51) International classification :G06Q0050200000, G09B0005060000, G09B0005140000, G09B0007000000, G09B0005100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Y. Prasanna Kumar Address of Applicant :Professor, Dept. of Mining Engineering, Bule Hora University, Ethiopia ----- 2)Dr. Ashu Tomar 3)Dr. R .D. Padmavathy 4)Dr S N Panda 5)Dr. Sampada Gulavani 6)Prof. Vinit A. Sinha 7)Anamika Shukla Sharma 8)Gargee Shukla 9)Dr. K.Thiyagarajan 10)Dr. Shital Kiran Davangere Padmanabh 11)Prof. Makhn Kumbhkar 12)Ankur Gupta Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Y. Prasanna Kumar Address of Applicant :Professor, Dept. of Mining Engineering, Bule Hora University, Ethiopia ----- 2)Dr. Ashu Tomar Address of Applicant :Assistant Professor, Dept. of Applied Sciences and Humanities, Rajkiya Engineering College, Bijnor, Uttar Pradesh, India ----- 3)Dr. R .D. Padmavathy Address of Applicant :Assistant Professor in Mathematics Education, Dept. of Education, Tezpur University (A Central University), Assam, India ----- 4)Dr S N Panda Address of Applicant :Professor, Department of Chemistry, Vikash Degree College, Bargarh, Odisha, India ----- 5)Dr. Sampada Gulavani Address of Applicant :Associate Professor, Dept. of MCA, Bharati Vidyapeeth(Deemed to be University) Institute of Management, Kolhapur, Maharashtra, India ----- 6)Prof. Vinit A. Sinha Address of Applicant :Assistant Professor, Dept. of MCA, Prof. Ram Meghe Institute of Technology and Research, Badnera, Maharashtra, India ----- 7)Anamika Shukla Sharma Address of Applicant :Assistant Professor, Dept. of Computer Science, Govt. E. Raghvendra Rao P.G. Science College, Bilaspur, Chhattisgarh, India ----- 8)Gargee Shukla Address of Applicant :Assistant Professor, Dept. of Computer Science, Government Nagarjuna PG College of Science, Raipur, Chhattisgarh, India ----- 9)Dr. K.Thiyagarajan Address of Applicant :Associate Professor and Head, Dept. of English, Sir Theagaraya College, Chennai, India ----- 10)Dr. Shital Kiran Davangere Padmanabh Address of Applicant :Professor, Dept. of Pediatric and Preventive Dentistry, College of Dental Science, Taluka-Sihor, District-Bhavnagar Amargadh, Gujarat, India ----- - 11)Prof. Makhn Kumbhkar Address of Applicant :Assistant Professor, Dept. of Computer Science, Christian Eminent College, Indore, Madhya Pradesh, India ----- 12)Ankur Gupta Address of Applicant :Assistant Professor, Dept. of Computer Science and Engineering, Vaish College of Engineering, Rohtak, Haryana, India -----</p>
---	---

(57) Abstract :
This invention analyzes methodology for implementation online classroom platform learning technique. According to an embodiment in studies on the use of online classroom platform the effectiveness of using online classroom for final year primary teacher education students to encourage student voice and agency, and to consider how the platform might influence future pedagogies at the tertiary level. The data showed that online classroom increased student participation and learning and improved classroom dynamics.

No. of Pages : 10 No. of Claims : 3

(54) Title of the invention : THE BLOCKCHAIN AND ARTIFICIAL INTELLIGENCE BASED IOT ENVIRONMENT FOR 6G WIRELESS NETWORK

(51) International classification :H04L0029080000, H04L0009320000, H04L0009060000, G06N0003020000, G06N0020000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Dr. Shashiraj Teotia
 Address of Applicant :Associate Professor, Department of Computer Application, Swami Vivekanand Subharti University Meerut, Uttar Pradesh -----
2)Dr. Nitya Nand Dwivedi
3)Mr. Ankur Chaudhary
4)Dr. Abhishek
5)Dr. Nikhat Raza Khan
6)Samrat Ray
Name of Applicant : NA
Address of Applicant : NA
 (72)**Name of Inventor :**
1)Dr. Shashiraj Teotia
 Address of Applicant :Associate Professor, Department of Computer Application, Swami Vivekanand Subharti University Meerut, Uttar Pradesh -----
2)Dr. Nitya Nand Dwivedi
 Address of Applicant :Assistant Professor, Department of Computer Application, Swami Vivekanand Subharti University Meerut, Uttar Pradesh -----
3)Mr. Ankur Chaudhary
 Address of Applicant :Assistant Professor , Department of Computer Application, Swami Vivekanand Subharti University Meerut, Uttar Pradesh -----
4)Dr. Abhishek
 Address of Applicant :Assistant Professor, Department of Management, Baba Mastnath University, Rohtak, Haryana -----

5)Dr. Nikhat Raza Khan
 Address of Applicant :Associate Professor, COMPUTER SCIENCE AND Engineering Department, IES COLLEGE OF TECHNOLOGY, BHOPAL -----
6)Samrat Ray
 Address of Applicant :Researcher, Economics, The Institute of Industrial Management, Economics and Trade , Peter The Great Saint Petersburg Polytechnic University, Russia -----
 --

(57) Abstract :
 This invention analyzes the Blockchain and Artificial Intelligence based IoT environment for 6G Wireless Networks. Internet of-things (IoT) are new age technology that provided a system to incorporated processing gadgets with sensors, cell phones, and distributed computing stages for association between gadgets. In control and a coordinated keen multi-specialist framework, the innovation can work with the geriatric control of the home. The Blockchain and Artificial Intelligence based IoT environment for 6G Wireless Networks of communication system, which will be faster, secure and more efficient than current networks, are currently being developed by researchers during this time period.

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002303 A

(19) INDIA

(22) Date of filing of Application :14/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : A SYSTEM FOR DIGITAL WATERMARKING FOR IMAGE AUTHENTICATION USING SPATIAL-SCALE DOMAIN-BASED TECHNIQUES

<p>(51) International classification :G06T0001000000, H04N0019154000, G06T0007000000, H04N0001320000, A61K0039000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Sunil Kumar Vishwakarma Address of Applicant :Research Scholar, Department of Computer Science & Engineering, Dr. A.P.J. Abdul Kalam Technical University, Lucknow, India ----- 2)Birendra Kumar Sharma 3)Syed Qamar Abbas Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Sunil Kumar Vishwakarma Address of Applicant :Research Scholar, Department of Computer Science & Engineering, Dr. A.P.J. Abdul Kalam Technical University, Lucknow, India ----- 2)Birendra Kumar Sharma Address of Applicant :Professor, Department of MCA, Ajay Kumar Garg Engineering College, Ghaziabad, India ----- ----- 3)Syed Qamar Abbas Address of Applicant :Professor, Department of Computer Science & Engineering, AIMT, Lucknow, India ----- ----- -</p>
---	---

(57) Abstract :

The present invention discloses a system for digital watermarking for image authentication using spatial-scale domain-based techniques. The system includes, but not limited to, an RMSE module for creating metric for the estimation of quality of image when reference image is present; a PSNR module for creating metric, used to quantify the distortion of the watermarked image compared with the reference image; and wherein the overall structural quality of an image is obtained by computing the average of SSIM values over all the windows, enabling if N is total number of windows then Mean Structural Similarity Index (MSSI).

No. of Pages : 23 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002314 A

(19) INDIA

(22) Date of filing of Application :14/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : A SYSTEM FOR DETECTION OF FACE MASKS ON THE FACE AREA IN SURVEILLANCE ENVIRONMENTS

(51) International classification :G07F0019000000, G06K0009000000, G06Q0020320000, H04L0029060000, G06Q0020100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Akhil Kumar

Address of Applicant :RZ-G 855 U.G. Floor Raj Nagar Part II, Street No. 17, Palam -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Akhil Kumar

Address of Applicant :RZ-G 855 U.G. Floor Raj Nagar Part II, Street No. 17, Palam -----

(57) Abstract :

The present invention discloses a system and method for detection of person(s) with face masks and specifically, mask region on the face area in the premises of secured surveillance environments such as automatic teller machines (ATMs), banks, airport security checks and biometric attendance systems. The disclosed system with method raises an early alarm if a person with face mask is detected by the system. The disclosed invention is a useful tool to prevent crimes, breach of security, thefts, robberies and identity spoofing which is generally done by law offenders and criminals by hiding their faces behind a face mask.

No. of Pages : 18 No. of Claims : 5

(54) Title of the invention : THE ROLE OF NANO TECHNOLOGY AND VLSI FOR LOW POWER CIRCUIT IMPLEMENTATION

<p>(51) International classification :B82Y001000000, B82Y003000000, H01L0029060000, H01L0029160000, B82B0003000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Vishal Kumar Address of Applicant :Associate Professor, Department of Physics, Governemnt Women PG College , Kandhla, Shamli, UP, India,247775 ----- 2)Er. Yogendra Kumar 3)Dr. Jai Shanker 4)Dr. Surendra Pratap Singh 5)Mr. Praveen Kumar 6)Mr. Rajeev Kumar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Vishal Kumar Address of Applicant :Associate Professor, Department of Physics, Governemnt Women PG College , Kandhla, Shamli, UP, India,247775 ----- 2)Er. Yogendra Kumar Address of Applicant :Assistant Professor, Department of Physics. VSP Govt. PG College Kairana , Shamli, UP, India Pin code- 247774 ----- 3)Dr. Jai Shanker Address of Applicant :Assistant Professor, Department Of Physics, Government Degree College Haripur, Nihastha Raebareli, Up, India, 229208 ----- 4)Dr. Surendra Pratap Singh Address of Applicant :Associate Professor, Dr. B. R. Ambedkar Govt. Degree College, Mainpuri (UP), India,205001 ----- 5)Mr. Praveen Kumar Address of Applicant :Sr. Assistant Professor, Department of Physics, V.R.A.L. Govt. Girls Degree College Barailly, UP, India Pin code- 247774 ----- 6)Mr. Rajeev Kumar Address of Applicant :Assistant Professor, Department of Physics, S.M.P. Govt. Girls P.G. College Meerut, UP, India Pin code- 250002 -----</p>
---	---

(57) Abstract :

While it is critical for the electronics industry in the long run to continue shrinking lithographic transistor sizes, this trend cannot continue indefinitely. The best alternative to lithography-based integrated circuits appears to be nanoelectronics (10nm-scale components). To learn more about small devices such as diodes, switches, carbon nanotubes, and nanowires, observe them in chemistry class at school or in the library. Additionally, these devices have been demonstrated to be capable of self-assembling a variety of structures, with some being used to create small prototypes. While these devices and assembly methods enable the fabrication of nanoscale electronics, they also make them susceptible to defects and short-term problems. Nanoelectronics will necessitate novel problem solving techniques. When integrated circuits (ICs) are designed or used, the software tools used to design and use them must be modified to support nanoelectronics. This survey discusses nanoelectronics for the first time and examines what's new in technology, architecture, fault tolerance, and software tools. Individuals who work in the silicon semiconductor VLSI industry are extremely interested in VLSI technology, its value, and the potential benefits or drawbacks of Nanotechnology. This article must discuss CMOS devices that are sufficiently small to discuss. As a result, the term "nanotechnology" refers to silicon. Additionally, there are chemists working on the creation of carbon nanotubes and other nanoscale devices without realising how this could fundamentally alter the worlds of Si and CMOS technology, as well as the world we live in today.

No. of Pages : 11 No. of Claims : 8

(54) Title of the invention : METHOD AND SYSTEM FOR PROVIDING MULTI-FACE THREE-AXIS TO FIVE-AXIS COMPUTER NUMERICAL CONTROL (CNC) MACHINE

<p>(51) International classification :G05B0019401000, H05B0033040000, B23Q0001010000, G01N0021840000, B23K0026380000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. BIPIN KUMAR SINGH (ASSISTANT PROFESSOR) Address of Applicant :Department of Mechanical Engineering Goel Institute of Technology & Management, Dist: Lucknow, (Utter Pradesh)-226028 Email bipinmech2008@gmail.com Cell- 8392006007 -----</p> <p>2)DR. RAVI SHANKAR SINHA (ASSOCIATE PROFESSOR) 3)DR. SANTOSH KUMAR SINGH (PRINCIPAL IN CHARGE) 4)PRATYUSH VERMA (ASSISTANT PROFESSOR) 5)DR. RAKESH KUMAR (ASSOCIATE PROFESSOR) 6)DR. RAHUL SINHA (ASSISTANT PROFESSOR)</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)DR. BIPIN KUMAR SINGH (ASSISTANT PROFESSOR) Address of Applicant :Department of Mechanical Engineering Goel Institute of Technology & Management, Dist: Lucknow, (Utter Pradesh)-226028 Email bipinmech2008@gmail.com Cell- 8392006007 -----</p> <p>2)DR. RAVI SHANKAR SINHA (ASSOCIATE PROFESSOR) Address of Applicant :Budge Budge Institute of technology, Kolkata-700137–West Bengal Email: ravishankarism0181@gmail.com Mobile:9576791083 -----</p> <p>3)DR. SANTOSH KUMAR SINGH (PRINCIPAL IN CHARGE) Address of Applicant :Adwaita Mission Institute of Technology Shivdham, P.O.Maniyarpur, Via– Bounsi, Dist. Banka, (BIHAR)-813104 Email: adwaitamission@gmail.com Cell-09679700590. -----</p> <p>4)PRATYUSH VERMA (ASSISTANT PROFESSOR) Address of Applicant :Department of Mechanical Engineering Adwaita Mission Institute of Technology Shivdham, P.O. Maniyarpur, Via– Bounsi, Dist. Banka, (BIHAR)-813104 Email adwaitamission@gmail.com Cell- 8112231382 -----</p> <p>5)DR. RAKESH KUMAR (ASSOCIATE PROFESSOR) Address of Applicant :Department of Mechanical Engineering, Elite College of Engineering, Ghola, Mohispota, West Bengal- 700113 Email id: rakeshraj2009@gmail.com Mobile: 8102272886 -----</p> <p>6)DR. RAHUL SINHA (ASSISTANT PROFESSOR) Address of Applicant :Department of Mechanical Engineering School of Engineering P P Savani University NH 8, GETCO, Near Biltech Company Village: Dhamdod, Kosamba, Gujarat 394125 Email id: rahul.sinha@pps.ac.in Mobile: 9608501005 -----</p>
---	---

(57) Abstract :

The present invention disclosed an approach for providing a novel multi-faced three-axis to five-axis Computer Numerical Control (CNC) machine. The present invention provides a method and system which comprises at least one coordinate measuring unit which is arranged attached to the machining center and which in turn comprises a carriage in which a laser emitter is located, where said carriage is movable with respect to a column according to a vertical axis (Z) perpendicular to the lateral axis (Y), where said column is in turn movable with respect to a bed plate according to the lateral axis (Y), the machining center.

No. of Pages : 29 No. of Claims : 6

(54) Title of the invention : IMPLEMENTATION OF MIXED REALITY IN BANKING SECTOR FOR FINANCIAL TRANSACTION

<p>(51) International classification :G07F0019000000, G06K0009000000, G06Q0040020000, A63F0013000000, H04N0013344000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Suneev Anil Bansal Address of Applicant :Maharaja Agrasen University, Barotiwala, Baddi HP174103 ----- 2)Azam Anwar 3)Nikhil Bhatt 4)Neha 5)Pooja Gupta 6)Sunil Kumar Sharma 7)Nalin Somani 8)Arminder Singh Walia Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Suneev Anil Bansal Address of Applicant :Maharaja Agrasen University, Barotiwala, Baddi HP174103 ----- 2)Azam Anwar Address of Applicant :A-90, thokar no.6, Shaheen Bagh, Okhla, New Delhi-110025 ----- 3)Nikhil Bhatt Address of Applicant :218-E, POCKET-1, MAYUR VIHAR PHASE-1, NEW DELHI-110091 ----- 4)Neha Address of Applicant :Department of CSE, SEST, Jamia Hamdard-110062 ----- 5)Pooja Gupta Address of Applicant :Department of CSE, SEST, Jamia Hamdard-110062 ----- 6)Sunil Kumar Sharma Address of Applicant :Department of Mechanical Engineering, Gurugram ----- 7)Nalin Somani Address of Applicant :Department of Mechanical Engineering, DIT University, Dehradun ----- 8)Arminder Singh Walia Address of Applicant :Thapar Polytechnic Patiala ----- -----</p>
---	--

(57) Abstract :

The ATM and financial transaction were touch based, and were expensive to install and maintain. This invention uses MR technology with the IOT and computer vision to reduce any physical contact with the external hardware which also proves to be effective during any pandemic. The invention uses many novel steps to ensure the best result possible. The use of MR provides numerous opportunities such as the virtual dashboard for inputs and outputs, visual image based identification system, MR based assistance for guidance etc. User is supposed to have an MR headset for any interaction in the MR. Traditional ATMs can be modified for better function with MR technology. The new MR based ATM design is small-scale, low cost and efficient compared to traditional ATMs. This idea has the potential to advance the use of extended reality (XR) in the banking sector.

No. of Pages : 21 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002449 A

(19) INDIA

(22) Date of filing of Application :15/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : PRODUCT COMPARISON SYSTEM AND METHOD THEREOF

(51) International classification :G06Q0030060000, G06Q0010060000, G06F0016958000, G06Q0030020000, G06Q0030000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Noida Institute of Engineering Technology, Greater Noida
Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Areas, Greater Noida - 201306 Email-id: evp@niet.co.in Mb: 9958698090 -----
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Mr. Nishant Kumar Hind
Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----
2)Ms. Shruti Dadhich
Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----
3)Ms. Surbhi Jha
Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----
4)Ms. Neeti Taneja
Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----
5)Ms. Sanchi Kaushik
Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----

(57) Abstract :

A product comparison system (100), the system (100) comprising: a processor (114) located on a central server (102); and a storage medium (116). The processor (114) is configured to: register a user on the central server (102) through a computer application (106); store user information related to the registered user in a database (118); store user preferences in the database (118) and correlate the user preferences with the user information; track products in real-time on web platforms (112a-112n) based on the stored user preferences; fetch product data related to the tracked products from the web platforms (112a-112n) in real-time and store the fetched product data in a structured form in the database (118); compare the tracked products by analyzing the stored product data based on pre-defined attributes; and display a comparison chart of the compared products on a user device (104).

No. of Pages : 24 No. of Claims : 10

(54) Title of the invention : GAMING SYSTEM AND METHOD

(51) International classification :G07F0017320000, A63F0009240000, G09B0019000000, G06T0007330000, G06Q0010000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)Noida Institute of Engineering Technology, Greater Noida
 Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Areas, Greater Noida - 201306 Email-id: evp@niet.co.in Mb: 9958698090 -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Mr.Raman Batra
 Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----

2)Mr.Sachin Kumar
 Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----

3)Ms. Savita Yadav
 Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----

4)Ms. Nancy
 Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----

5)Mr. Sovers Singh Bisht
 Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----

(57) Abstract :

A gaming system (100) for performing game-based cleaning tasks in real-time, comprising:a computer application (102) stored on a computer server (104), to assign the game-based cleaning tasks to players; an image capturing device (106) to capture live projections in form of images and/or videos; and a set of cleaning devices (108a-108m)registered on the computer application (102) such that the players are enabled to access and control the cleaning devices (108a-108m) through corresponding mobile devices (112a-112n); whereinthe computer application (102) comprises: a registration module (200) configured to register a profile of the players; a login module (202) to allow the players to login, a gaming module (204) to generate and allocate the game-based cleaning tasks, a controlling module (206) to enable the players to control the cleaning devices (108a-108m), and a scoring module (208) to generate scores.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002451 A

(19) INDIA

(22) Date of filing of Application :15/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR AUDIO CLASSIFICATION

(51) International classification :G10L0013100000, G10L0025180000, G10L0015060000, G10L0015020000, G06F0003160000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Noida Institute of Engineering Technology, Greater Noida
Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Areas. Greater Noida - 201306 Email-id: evp@niet.co.in Mb: 9958698090 -----
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Mr. Raman Batra
Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----
2)Mr. Abhijit Kumar
Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----
3)Ms. Amita Shukla
Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----
4)Ms. Sonia Arora
Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----
5)Ms. Manali Gupta
Address of Applicant :Plot No. - 19, Knowledge Park - 2 Institutional Area, Greater Noida – 201306 -----

(57) Abstract :

A system (100) for audio classification using a machine learning technique, the system (100) comprising: a processor (104); a storage medium (106) adapted to store programming instructions to be executable by the processor (104), wherein the storage medium (106) comprises: an audio receiving module (108) configured to receive an audio file from an audio source (102); an audio classification module (110) configured to: detect syllables carrying a primary stress level from the audio file using a lexical stress classifier (114) such that the lexical stress classifier (114) detects the primary stress level by using a first Gaussian mixture model, and detect high rising pitch ascents from the audio file using a pitch accent classifier (116) such that the pitch accent classifier(116) detects the high rising pitch accents by using a second Gaussian mixture model; and an audio processing module (112) configured to identify a specific audio.

No. of Pages : 26 No. of Claims : 10

(54) Title of the invention : A VENTILATOR SYSTEM AND METHOD THEREOF

(51) International classification :A61M0016000000, A61M0016080000, A61M0016060000, A61M0016200000, A61M0016100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

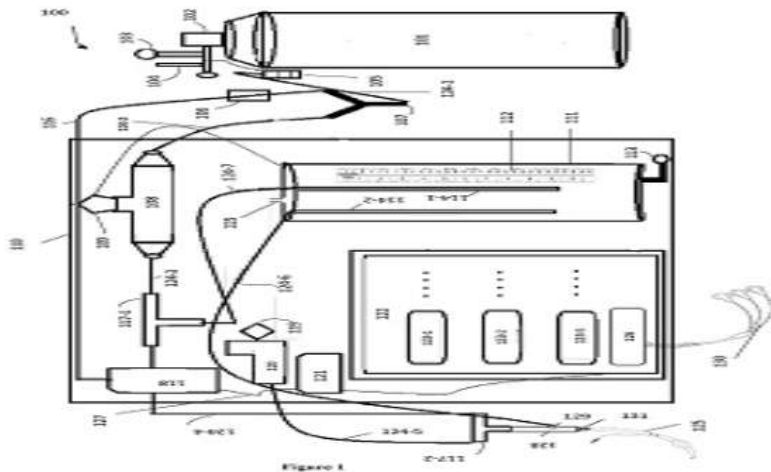
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Sudarshan Kumar Bhandari
 Address of Applicant :49, Baikunth Dham, Old Palasiya, Indore-452018 -----
2)Purnima Bhandari
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Sudarshan Kumar Bhandari
 Address of Applicant :49, Baikunth Dham, Old Palasiya, Indore-452018 -----
2)Purnima Bhandari
 Address of Applicant :49, Baikunth Dham, Old Palasiya, Indore-452018, -----

(57) Abstract :

A VENTILATOR SYSTEM AND A METHOD THEREOF Disclosed is a ventilator system 100 comprising an oxygen delivery cylinder 101, an air delivery unit 118, connecting tubes 124, digital display unit 122. The system 100 comprises a Y connector 107 configured to mix air and oxygen, to form a gas and pass said gas towards an outlet 131 of the system 100. A water manometer 111 is configured to monitor a pressure of the gas in the system and blow off the excess pressure of the gas. A solenoid valve 120 is configured to adjust an end respiratory pressure obtained from a breathing device 125 connected to the outlet 131 of the system. The pressure of the gas being instantly delivered to the breathing device 125 is measured by water manometer 111 from a dead space 128 near the outlet 131, thereby enabling a dual monitoring of the gas pressure being delivered to the breathing device 125. [To be published with Figure 1]



No. of Pages : 23 No. of Claims : 13

(54) Title of the invention : A PORTABLE CLOSE-UP CAMERA PROBE FOR MEDICAL APPLICATIONS

(51) International classification :A61B0001240000, A61B0001267000, A61B0003000000, H04N0005225000, G06K0009680000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)HARIBHAKTI, Vijay Vishnu
 Address of Applicant :51 Maker Tower B, Cuffe Parade, Mumbai 400005, Maharashtra India -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)HARIBHAKTI, Vijay Vishnu
 Address of Applicant :51 Maker Tower B, Cuffe Parade, Mumbai 400005, Maharashtra India -----

(57) Abstract :

ABSTRACT A PORTABLE CLOSE-UP CAMERA PROBE FOR MEDICAL APPLICATIONS The present disclosure envisages a portable close-up camera probe (100) for medical applications. the probe (100) comprises a handle portion (H) and a probing portion (P). The handle portion (H) comprises a printed circuit board (PCB) (9) disposed with in a first casing (21), a female jack connector (8) fixed to one end of the PCB (9) and a USB charging connector (10) fixed at other end thereof. A power button (12) disposed on the first casing (21). The probing portion (P) comprises a cable (6) disposed within a second casing (22) having the camera with an illumination unit (5) coupled to one end thereof and the male jack connector (7) coupled to other end. The handle portion (H) configured to be detachably communicatively coupled with the probing portion (P), thereby enabling a physician to capture images/ videos of structures of mouth without being in aerosol trajectory of a patient.

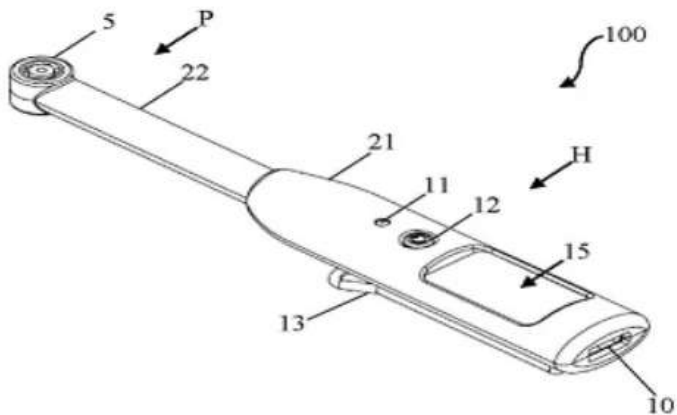


FIGURE 2

No. of Pages : 23 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021027499 A

(19) INDIA

(22) Date of filing of Application :29/06/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : SANITIZER GENERATOR DISPENSER APPARATUS

(51) International classification :B60K0006480000, E03D0009030000, A61L0002180000, B65D0083260000, B60K0006547000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)ABHIJEET GAN

Address of Applicant :Plot No 19, Krishna Kunj, Friends Colony, Pratap Nagar, Nagpur 440022, Maharashtra, India -----

2)VINAYAK GAN

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)ABHIJEET GAN

Address of Applicant :Plot No. 19, Krishna Kunj, Friends Colony, Pratap Nagar, Nagpur-440022, Maharashtra, India -----

2)VINAYAK GAN

Address of Applicant :Plot No. 19, Krishna Kunj, Friends Colony, Pratap Nagar, Nagpur-440022, Maharashtra, India -----

(57) Abstract :

Disclosed herein, is a sanitizer generator dispenser apparatus that has an in-situ disinfectant generator and an automatic dispenser. The apparatus generates multiple concentrations of the disinfectant solution. The apparatus functions in three specific modes – a sanitizer mode, a disinfectant mode, and a dispenser mode. The apparatus includes an electrolyzer assembly and a contactless sensor-based dispenser.

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : "INTERACTION OF CORONA VIRUS SPIKE PROTEIN WITH FLAVONOIDS OF CLITORIA TERNATEA LEAD TO EDIBLE VACCINE

(51) International classification :A61K0039000000, C07K0014005000, A61K0036480000, A61K0039120000, C07K0016100000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)DR. NISHA GARG
 Address of Applicant :68, M. G. ROAD, MANDLESHWAR, MADHYA PRADESH, INDIA-451 221. -----
2)Mr. SARTHAK SANJAY GARG
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)DR. NISHA GARG
 Address of Applicant :68, M. G. ROAD, MANDLESHWAR, MADHYA PRADESH, INDIA-451 221. -----

(57) Abstract :

ABSTRACT TITLE: INTERACTION OF CORONA VIRUS SPIKE PROTEIN WITH FLAVONOIDS OF CLITORIA TERNATEA LEAD TO EDIBLE VACCINE According to WHO, no pharmaceutical product has yet been shown to be safe and effective for the treatment of COVID-19. The only plausible alternative is vaccination, which is just a preventive measure, not a treatment of COVID-19. Currently, only vaccinations are available, which need a lot of extra care (refrigeration, careful handling, expertise to apply, etc.), and are costly too. Other medications like Remdisvir, Favipiravir, Lopinavir pose various side-effects (e.g. rise in sugar level, fungal infections, nausea, rashes, swelling of lips or face or throat), also being very expensive, which render them rather unusable. The current invention proposes to formulate an edible herbal composition for mitigating COVID-19 infection symptoms, which is needle-free, and inexpensive. Present invention provide a herbal composition for mitigating COVID-19 infection symptoms comprising an aqueous extract of dried roots or dried flowers or dried leaves of a Clitoria Ternatea plant.

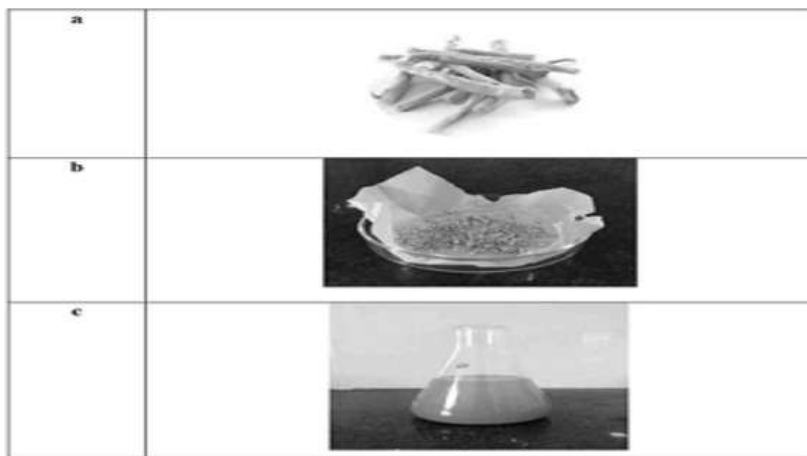


Figure 1

No. of Pages : 26 No. of Claims : 11

(54) Title of the invention : A GAMIFICATION SYSTEM FOR LEARNING

(51) International classification :G09B0007000000, G09B0019000000, G06Q0050200000, G09B0007020000, A61B0005160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)GAURANG SURESH GANDHI
Address of Applicant :306 D/E Vishal Apt, 1025 Sadashiv Peth, Nagnath Par, Pune-411030, Maharashtra, India -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)GAURANG SURESH GANDHI
Address of Applicant :306 D/E Vishal Apt, 1025 Sadashiv Peth, Nagnath Par, Pune-411030, Maharashtra, India -----

(57) Abstract :

ABSTRACT A GAMIFICATION SYSTEM FOR LEARNING The present disclosure relates to the field of an interactive learning system. A gamification system (100) for learning comprising of at least one of an input sensor (102) and an output sensor (104), each of input sensor (102) and output sensor (104) having an associated device driver identifier, a sensor block (106) and a learning module (108) loaded in a user device (112). The learning module (108) provides a game-based learning environment to a user upon installation in a user device (112). The system (100) monitors the user's attention and measures or track user's actions and record observations such as number of attempts, learning pattern, and time spent on every display screen, while measuring virtual credit on completion of a task. The system (100) tracks the user's comprehensibility by correlating user's answers to tracked activities and recorded observations to identify the areas of improvement of content or user's behavior.

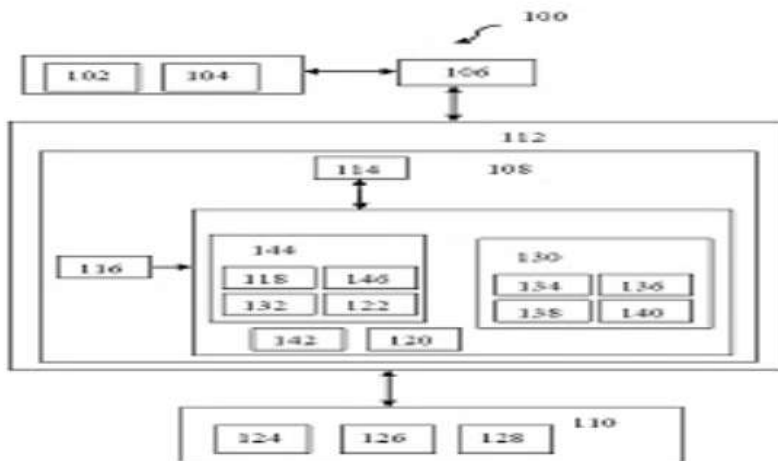


Figure 1

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021038707 A

(19) INDIA

(22) Date of filing of Application :08/09/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : A NOVEL PEDICULICIDAL COMPOSITION FOR CONTROLLING HEAD LICE AND A NOVEL DELIVERY SYSTEM THEREOF

(51) International classification :A61K0036487000, A61K0036185000, A61Q0017020000, A61K0036530000, A01N0043220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Ross Lifescience Private Limited

Address of Applicant :Plot No. 96, Sector No. 10, PCNDTA, Bhosari, Pune- 411026, Maharashtra, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Faiz Rai

Address of Applicant :Ross Lifescience Private Limited, Plot No. 96, Sector No. 10, PCNDTA, Bhosari, Pune- 411026, Maharashtra, India -----

(57) Abstract :

The present invention relates to a novel pediculicidal composition for controlling head lice which comprises pesticidally active natural oils such as Pogostemon oil, Styrax benzoin oil, Madhuca longifolia oil, Eucalyptus globulus, Mentha pulegium; pesticidally acceptable carrier oil such as Psoralea corylifolia oil, Citrullus lanatus oil; pesticidally acceptable perfume such as Rosemarinus oil; pesticidally acceptable carrier solvents such as polar aliphatic solvents and other ingredients in suitable ratio. The invention also relates to a novel delivery system for effective delivery of novel pediculicidal compositions.

No. of Pages : 26 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040164 A

(19) INDIA

(22) Date of filing of Application :21/09/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : A GRADING AND SORTING CONVEYOR SYSTEM FOR AGRICULTURAL PRODUCTS

(51) International classification :B65G0047960000, G06Q0050020000, A01C0007080000, B07C0005220000, B65G0047520000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)PRAVIN CHANDRAKANT PHUTANE

Address of Applicant :“Kala-Chandra”, Plot. No. 539, Sector-27, Sambhaji Chowk, Pradhikaran, Nigdi, Pune Maharashtra 411044, India -----

2)MANOJ CHANDRAKANT PHUTANE

3)SANJAY CHANDRAKANT PHUTANE

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)PRAVIN CHANDRAKANT PHUTANE

Address of Applicant :“Kala-Chandra”, Plot. No. 539, Sector-27, Sambhaji Chowk, Pradhikaran, Nigdi, Pune Maharashtra 411044, India -----

2)MANOJ CHANDRAKANT PHUTANE

Address of Applicant :“Kala-Chandra”, Plot. No. 539, Sector-27, Sambhaji Chowk, Pradhikaran, Nigdi, Pune Maharashtra 411044, India -----

3)SANJAY CHANDRAKANT PHUTANE

Address of Applicant :“Kala-Chandra”, Plot. No. 539, Sector-27, Sambhaji Chowk, Pradhikaran, Nigdi, Pune Maharashtra 411044, India -----

(57) Abstract :

ABSTRACT A GRADING AND SORTING CONVEYOR SYSTEM FOR AGRICULTURAL PRODUCTS The present disclosure relates to storage facilities for agricultural products and envisages a grading and sorting conveyor system (100) offering an enhanced ability in segregation of products. The system (100) comprises a grading means (10) having a plurality of graders aligned consecutively to each other. Each grader is defined by a flat frame extending into an inclined frame, and a meshed screening belt provided on each frame for receiving the agricultural products thereon. The meshes of the consecutive graders have successively increased dimensions to allow a product having dimensions corresponding to dimensions of the meshes to drop therethrough. A sorting means (20) is disposed beneath each grader for receiving the product falling through the meshes to facilitate manual sorting of the product.

No. of Pages : 28 No. of Claims : 24

(54) Title of the invention : FORTIFIED NUTRACEUTICALS OF ACACIA NILOTICA PODS

(51) International classification :A61K0036480000, A61K0031352000, B82Y0040000000, A61K0036000000, A23K0020100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DR. TABASSUM KHAN

Address of Applicant :SVKM'S DR. BHANUBEN NANAVATI COLLEGE OF PHARMACY, GATE NO.1, MITHIBAI COLLEGE CAMPUS, V. M. ROAD, VILE PARLE (W), DIST. MUMBAI-400 056, MAHARSHTRA, INDIA. -----

2)DR. MUNIRA MOMIN**3)MS. KAKSHA SANKHE**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. TABASSUM KHAN

Address of Applicant :SVKM'S DR. BHANUBEN NANAVATI COLLEGE OF PHARMACY, GATE NO.1, MITHIBAI COLLEGE CAMPUS, V. M. ROAD, VILE PARLE (W), DIST. MUMBAI-400 056, MAHARSHTRA, INDIA. -----

2)DR. MUNIRA MOMIN

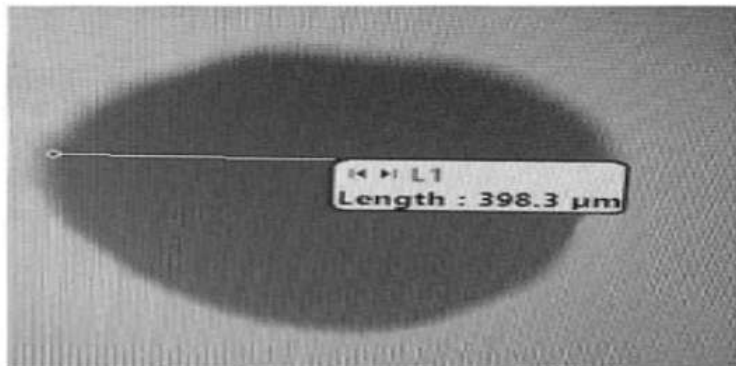
Address of Applicant :SVKM'S DR. BHANUBEN NANAVATI COLLEGE OF PHARMACY, GATE NO.1, MITHIBAI COLLEGE CAMPUS, V. M. ROAD, VILE PARLE (W), DIST. MUMBAI-400 056, MAHARSHTRA, INDIA. -----

3)MS. KAKSHA SANKHE

Address of Applicant :SVKM'S DR. BHANUBEN NANAVATI COLLEGE OF PHARMACY, GATE NO.1, MITHIBAI COLLEGE CAMPUS, V. M. ROAD, VILE PARLE (W), DIST. MUMBAI-400 056, MAHARSHTRA, INDIA. -----

(57) Abstract :

ABSTRACT FORTIFIED NUTRACEUTICALS OF ACACIA NILOTICA PODS This invention is directed to a field of nutraceutical formulation comprising of Acacia nilotica (Babul pods extract), Nigella sativa (Kalonji seed powder), Linum usitatissimum (Flax seed powder), whey protein isolate, suitable sweetening agent, suitable flavoring agent, and suitable coloring agent. This invention is safe, convenient and cost-effective containing a homogenous blend of multifunctional phytoactives with varied benefit like antioxidant and anti-inflammatory in addition to macro and micro-nutrients in a suitable dosage form, will be potentially useful in contributing to the overall health, energy/vitality and wellness of the geriatric population.

**Fig 1**

No. of Pages : 32 No. of Claims : 9

(54) Title of the invention : “A DEVICE FOR CHARGING ELECTRICALLY POWERED VEHICLES FROM COOPERATIVE AS WELL AS NON-COOPERATIVE AMBIENT ELECTRIC FIELDS”

(51) International classification :B60R0016030000, H02J0007020000, H02J0050900000, B60L0053140000, B60L0053680000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

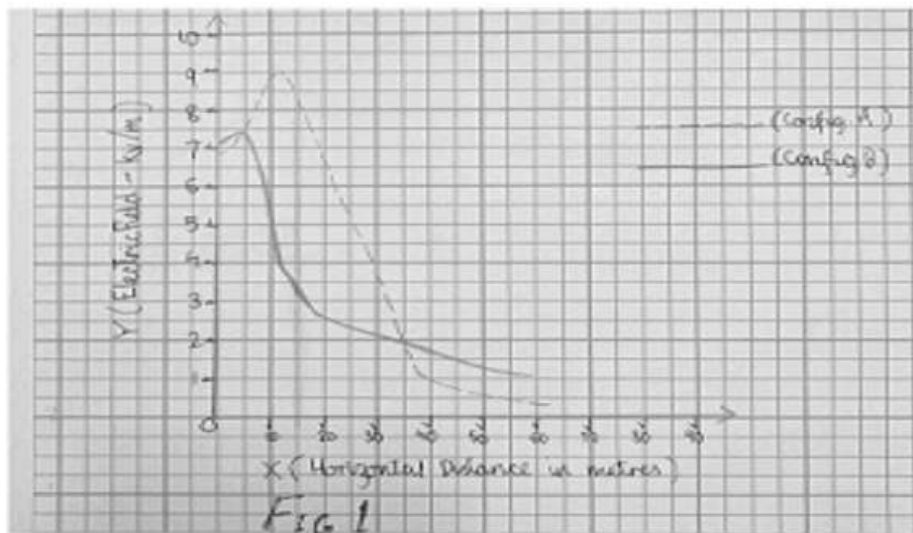
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Amit Rajora
 Address of Applicant :D301 Amar Ambience Sopan Baug Ghorpadi Pune -----
2)Sneh Bharti
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Amit Rajora
 Address of Applicant :D301 Amar Ambience Sopan Baug Ghorpadi Pune -----
2)Sneh Bharti
 Address of Applicant :D301 Amar Ambience Sopan Baug Ghorpadi Pune -----

(57) Abstract :

A method and a device for charging and powering an electrically powered vehicle from non-cooperative as well as cooperative sources of electrical fields is claimed. The system can be deployed at effective and safe ranges from the electrical field being harvested. The system is configurable for various applications depending upon the size, power requirements, manoeuvrability, speed, deployment purpose and safety requirements of the vehicle. The method can be used irrespective of whether the vehicle is controlled autonomously/remotely/manned.



No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021052889 A

(19) INDIA

(22) Date of filing of Application :04/12/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYNERGISTIC TERNARY HERBICIDAL COMPOSITION

(51) International classification :A01N0047360000, A01N0037220000, A01N0057200000, A01N0025040000, A01N0043400000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Rallis India Limited

Address of Applicant :23rd Floor, Lodha Excelus, New Cuffe Parade, Off Eastern Freeway, Wadala, Mumbai - 400037, Maharashtra, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)GOWDRA NANJAPPA, Kendappa

Address of Applicant :Rallis India Limited, No. 73/1C & 1D, Byregowda Industrial Estate, Srighandhanagar, Hegganahalli, Bangalore - 560091, Karnataka, India. -----

2)AGADI, Shivappa

Address of Applicant :Rallis India Limited, No. 73/1C & 1D, Byregowda Industrial Estate, Srighandhanagar, Hegganahalli, Bangalore - 560091, Karnataka, India. -----

3)PAUL, Rupak

Address of Applicant :Rallis India Limited, No. 73/1C & 1D, Byregowda Industrial Estate, Srighandhanagar, Hegganahalli, Bangalore - 560091, Karnataka, India. -----

4)REDDY, Vijay Kumar

Address of Applicant :Rallis India Limited, No. 73/1C & 1D, Byregowda Industrial Estate, Srighandhanagar, Hegganahalli, Bangalore - 560091, Karnataka, India. -----

(57) Abstract :

The present disclosure provides a herbicidal synergistic composition and formulations comprising combination of pretilachlor, pyrazosulfuron-ethyl and chlorimuron. The ternary herbicide composition is suitable for selectively controlling undesirable vegetation in crops of agriculturally useful plants and exhibits a synergistic herbicidal activity against a broad spectrum of economically important weeds, including broadleaf, sedge and grass weeds.

No. of Pages : 41 No. of Claims : 28

(54) Title of the invention : A DIGITAL MEDICINE STORING BOX

(51) International classification :A61J0007040000, G08B0021240000, A61J0001000000, A61M0001000000, A61K0038380000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)CHAKOLKAR MADHAV DEVENDRA
 Address of Applicant :SHANTI NAGAR, BYPASS, MANGRULPIR ROAD KARANJA LAD DIST WASHIM PIN CODE : 444105 -----

2)TAYADE SHARAD DINKARRAO
3)TAPADIYA SHWETA GANESH
4)WAGHMARE ADITI GANESH
5)CHAVAN MAYURI GHANSHYAM
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)CHAKOLKAR MADHAV DEVENDRA
 Address of Applicant :SHANTI NAGAR, BYPASS, MANGRULPIR ROAD KARANJA LAD DIST WASHIM PIN CODE : 444105 -----

2)TAYADE SHARAD DINKARRAO
 Address of Applicant :SHIVSHANKAR NAGAR, CHIKHLI ROAD, SUNDERKHED, BULDHANA PIN CODE: 443001 -----

3)TAPADIYA SHWETA GANESH
 Address of Applicant :208, AANANDI APARTMENT, VIVEKANANDA, PURAM OSMANPURA, AURANGABAD. PIN CODE :431005 -----

4)WAGHMARE ADITI GANESH
 Address of Applicant :AT POST BHADOLA DIST: BULDHANA PIN CODE: 443001 -----

5)CHAVAN MAYURI GHANSHYAM
 Address of Applicant :CONGRESS NAGAR, CHIKHLI ROAD, SUNDERKHED, BULDHANA PIN CODE: 443001 -----

(57) Abstract :
 The present invention relates to a digital medicine box. The proposed invention comprises of embedded adaptive configured system (screen) [105], temperature display, inbuilt scanner [104], and alarming system, android application in built for mobile phone [103], the patient who are unable to take medicine on time. The object of the proposed invention is to provide portable medicine device which is useful for carrying medicines and display medication information to remind user's medication. The device is useful for those patients who forget to take medicine on time and also those who don't have any caretaker. The device utilize for the vaccination camp such as polio virus camp. Following invention is described in detail with the help of Figure 1 of sheet 1 showing.

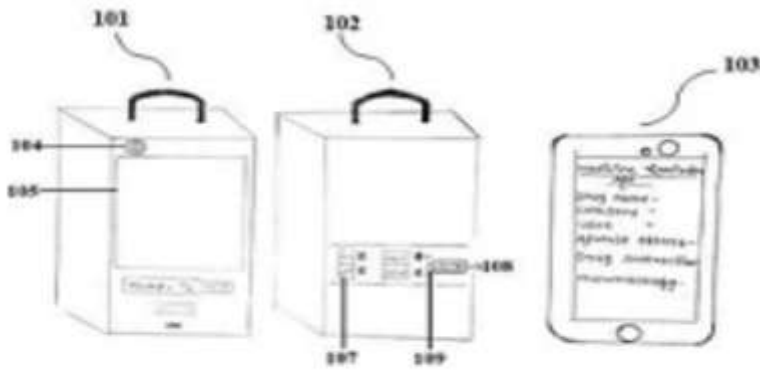


Figure 1

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : WET SILICIC ACID FOR RUBBER-REINFORCING FILLER

(51) International classification :C01B 33/193, B60C 1/00
(31) Priority Document No :2018-151034
(32) Priority Date :10/08/2018
(33) Name of priority country :-----
(86) International Application No :PCT/JP2019/024672
Filing Date :21/06/2019
(87) International Publication No :WO 2020/031523
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)TOSOH SILICA CORPORATION
Address of Applicant :2-5-10, Shiba, Minato-ku, Tokyo 1050014 -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)IMABEPPU Yuta
Address of Applicant :c/o TOSOH SILICA CORPORATION, 4560, Kaisei-cho, Shunan-shi, Yamaguchi 7460006 -----

2)KANEMITSU Hideo
Address of Applicant :c/o TOSOH SILICA CORPORATION, 4560, Kaisei-cho, Shunan-shi, Yamaguchi 7460006 -----

(57) Abstract :

The present invention pertains to a wet silicic acid for rubber-reinforcing filler, having a BET specific surface area that falls within the range of 230-350 m²/g, a volume-average particle diameter (D50) that does not exceed 3.0 μm, and the upper 10% of particles (D90) do not exceed 10 μm, in the particle distribution measured by laser diffraction after 50 ml of the wet silicic acid slurry adjusted to 4wt% is dispersed for 10 minutes in an ultrasonic homogenizer having an output of 140 W. According to this invention, a wet silicic acid is provided, the wet silicic acid having, in addition to rubber-reinforcing properties obtained by the BET specific surface area, rubber-reinforcing properties, in particular wear resistance, the performance imparted thereto by improved dispersibility of the wet silicic acid in rubber.

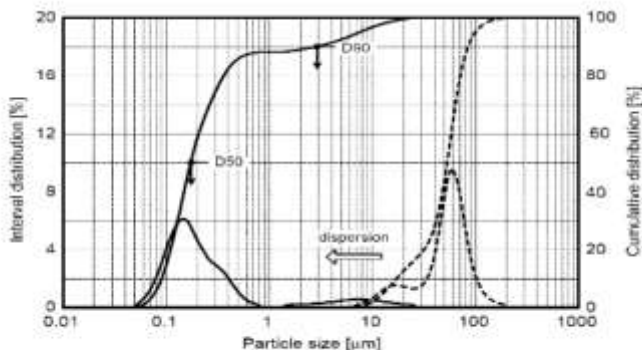


Fig. Particle size distribution of example 1
(Laser Diffraction System: Microtrac MT-3300II)
----- Granulated hydrous silicate
----- After dispersion (4% conc. 140W 10min)

No. of Pages : 34 No. of Claims : 8

(54) Title of the invention : MULTIPURPOSE BIODEGRADABLE DISINFECTANT LIQUID COMPOSITION AND HAND SANITIZER COMPOSITION

<p>(51) International classification :A01N0059160000, A61K0047320000, A61K0008920000, C08L0083040000, A61K0047690000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Chemkraft Home Care Private Limited Address of Applicant :B/507, Great Eastern Summit, Plot No 66, Sector 15, CBD Belapur, Navi Mumbai - 400614, Thane, Maharashtra, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)DESHMUKH, Devendra Address of Applicant :Chemkraft Home Care Private Limited, B/507, Great Eastern Summit, Plot No 66, Sector 15, CBD Belapur, Navi Mumbai - 400614, Thane, Maharashtra, India. -----</p> <p>2)SINGH, Navin Address of Applicant :Chemkraft Home Care Private Limited, B/507, Great Eastern Summit, Plot No 66, Sector 15, CBD Belapur, Navi Mumbai - 400614, Thane, Maharashtra, India. -----</p> <p>3)PRADHAN, Gaurav Address of Applicant :Chemkraft Home Care Private Limited, B/507, Great Eastern Summit, Plot No 66, Sector 15, CBD Belapur, Navi Mumbai - 400614, Thane, Maharashtra, India. -----</p>
---	---

(57) Abstract :

The present invention relates to a biodegradable disinfectant liquid composition and hand sanitizer composition comprising amines, N-C10–C16-alkyltrimethylenedi-, reaction products with chloroacetic acid, and one or more pharmaceutically or cosmetically acceptable excipients and method of preparation thereof. Both the disinfectant compositions of the present disclosure possess excellent long lasting antimicrobial, antifungal and virucidal property.

No. of Pages : 36 No. of Claims : 9

(54) Title of the invention : REDESIGNING AND DEVELOPMENT OF HARDENING CYCLE FOR HEAT TREATMENT OF ALLOY STEEL AISI H-13 GRADE.

(51) International classification :C21D0008100000, C21D0009000000, C22C0021000000, C21D0001060000, G03F0007400000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

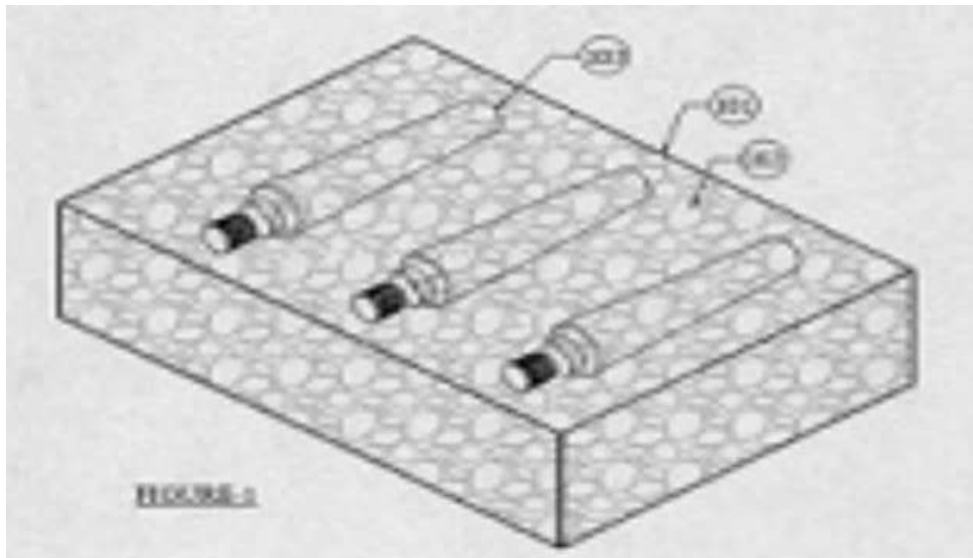
(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Ordnance Factory Ambajhari
 Address of Applicant :Ordnance Factory Ambajhari Defence Project Nagpur - 440021 -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Vipin Asthana/WM OFAJ
 Address of Applicant :Ordnance Factory Ambajhari Defence Project Nagpur - 440021 -----
2)V.V.R.K.N Murthy/ JWM SG OFAJ
 Address of Applicant :Ordnance Factory Ambajhari Defence Project Nagpur - 440021 -----
3)Ashok Kumar/DGM OFAJ
 Address of Applicant :Ordnance Factory Ambajhari Defence Project Nagpur - 440021 -----
4)N.J. Kamde/Chargeman OFAJ
 Address of Applicant :Ordnance Factory Ambajhari Defence Project Nagpur - 440021 -----

(57) Abstract :
 Redesigning and development of hardening cycle for heat treatment of Alloy Steel AISI H-13 grade by controlled heating & soaking during hardening process. Innovation improves the quality and quantity of components during Heat Treatment. The implementations of this system increase the rate of heating and reduce the soaking time during hardening Process resulting improved quality and quantity of the components. According to claim 1, contributed in reducing global warming by cutting down the huge amount of charcoal burning and reduce the electric power consumption with newly implemented hardening cycle.



No. of Pages : 13 No. of Claims : 10

(54) Title of the invention : HIGH GLOSS POLYMER FLOORING TILES

(51) International classification :E04F0015020000, B32B0038000000, B44C0005040000, E04F0015100000, B32B0037150000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Welspun Flooring Limited
 Address of Applicant :Welspun House, 6th Floor, Kamala City, Senapati Bapat Marg, Lower Parel (W), Mumbai – 400013 -

 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Utpal Haldar
 Address of Applicant :Welspun House, 6th Floor, Kamala City, Senapati Bapat Marg, Lower Parel (W), Mumbai – 400013 -----

2)Dipali Goenka
 Address of Applicant :Welspun House, 6th Floor, Kamala City, Senapati Bapat Marg, Lower Parel (W), Mumbai – 400013 -----

(57) Abstract :
HIGH GLOSS POLYMER FLOORING TILES ABSTRACT This disclosure relates generally to composite polymer product applications. In one embodiment, a composite polymer flooring tile is disclosed, comprising: a core layer; a print layer applied to a surface of the core layer, the print layer including a decorative design; a wear layer applied to a surface of the print layer; a primer layer applied to a surface of the wear layer; a sanding layer applied to a surface of the primer layer, wherein the sanding layer includes a surface smoothed by sandblasting; an abrasive layer applied to the smoothed surface of the sanding layer, the abrasive layer including wear resistant particles; and a gloss layer applied to a surface of the abrasive layer; wherein a gloss level of the tile is at least 90% at 60° as measured according to ASTM D523 and EN 16094; and wherein the tile meets EPLF abrasion criteria (“AC”) rating of at least AC3.

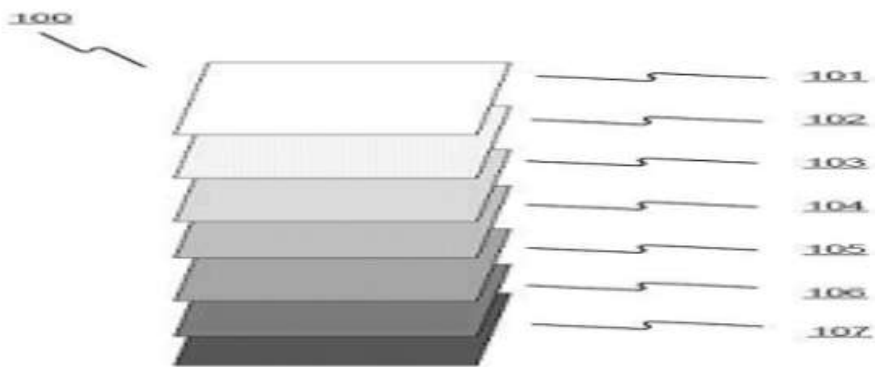


FIG 1

No. of Pages : 36 No. of Claims : 34

(54) Title of the invention : "RADIO SENSITIZER BASED ON IRON OXIDE NANOPARTICLES"

(51) International classification :A61K0041000000, A61K0049180000, B82Y0030000000, C02F0001280000, C09C0001240000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)DR. VISHWANATH VITHAL BHOSALE**

Address of Applicant :D.Y.PATIL EDUCATION SOCIETY (DEEMED TO BE UNIVERSITY), KASABA BAWADA, KOLHAPUR-416 006, MAHARASHTRA, INDIA. -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)DR. PADMAJA PAWASKAR**

Address of Applicant :D. Y. PATIL EDUCATION SOCIETY (DEEMED TO BE UNIVERSITY), KASABA BAWADA, KOLHAPUR- 416 006, (M.S.), INDIA -----

2)MS. MADHURI ANUJE

Address of Applicant :D.Y. PATIL EDUCATION SOCIETY (DEEMED TO BE UNIVERSITY),KASABA BAWADA, KOLHAPUR-416006, (M.S), INDIA -----

3)MR. AJAY SIVAN

Address of Applicant :AYURVED HOSPITAL AND RESEARCH CENTRE, WAGHOLI, PUNE 412207 -----

4)MR. SATISH JADHAV

Address of Applicant : D.Y. PATIL EDUCATION SOCIETY (DEEMED TO BE UNIVERSITY),KASABA BAWADA, KOLHAPUR-416 006, (M.S), INDIA. -----

5)PROF. CHANDRAKANT LOKHANDE

Address of Applicant :D.Y.PATIL EDUCATION SOCIETY (DEEMED TO BE UNIVERSITY), KASABA BAWADA, KOLHAPUR-416 006, MAHARASHTRA, INDIA. -----

(57) Abstract :

Treatment methods for cancer that are widely being utilized affect both normal and cancerous cells. We report synthesis polyethylene glycol (PEG)-coated Fe₃O₄ nanoparticles (NPs) and its characteristic properties and appraise its potential as a promising radiation sensitizer candidate in radiotherapy that improves cancer treatment and reduces side effects of radiation. PEG-coated Fe₃O₄ NPs were synthesized by chemical co-precipitation method and characterized by studying their size, structure, functional group, stability, magnetization, and cytotoxicity using different techniques. X-ray powder diffraction, Fourier transform infrared spectroscopy, and thermo gravimetric analysis results show that Fe₃O₄ NPs have been functionalized with PEG molecules during the course of synthesis. The potential role of superparamagnetic iron oxide nanoparticles (SPIONs) as radiosensitization enhancer on HT 29 cell lines for different concentrations (0.007to 0.25 mg/ml) and different radiation doses (0.5to 2 Gy) of 6MV photon beam is also presented. Synthesized NPs have good stability based on zeta-potential study. Dynamic light-scattering results reveal that PEG-coated Fe₃O₄ has a greater hydrodynamic size than bare Fe₃O₄. Transmission electron microscopy (TEM) micrograph exhibited that NPs are roughly spherical with size in range of 10-20 nm. Saturation magnetization value of PEG-coated and bare Fe₃O₄ also confirms coating and shows superparamagnetic behavior. Cytotoxicity evaluation study indicated that PEG-coated Fe₃O₄ is biocompatible on L929 and toxic on Michigan Cancer Foundation-7 (MCF-7) (breast cancer cells). The highest sensitization enhancement ratio (SER) value was observed with 2 Gy for 0.25 mg/ml concentration and radio sensitization is found to be increasing with increase in the concentration of nanoparticles. Combination of 6MV energy radiation and polyethylene glycol (PEG) coated SPIONs results in increasing cell killing of HT 29 as compared to cell killing with radiation therapy alone.

No. of Pages : 17 No. of Claims : 4

(54) Title of the invention : A NOVEL ORGANIC BIO STIMULANT AND ITS PROCESS OF MANUFACTURING

(51) International classification :C05G0003800000, C05F0011020000, A01N0061000000, A01N0065030000, C05F0005000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Dnyaneshwar Waghchoure
 Address of Applicant :127/ 1/1, Saisamarth, Bhamanagar, Sai City, Tal-Kopargaon, Dist.-Ahmednagar, State: Maharashtra (India) PIN - 423601, -----

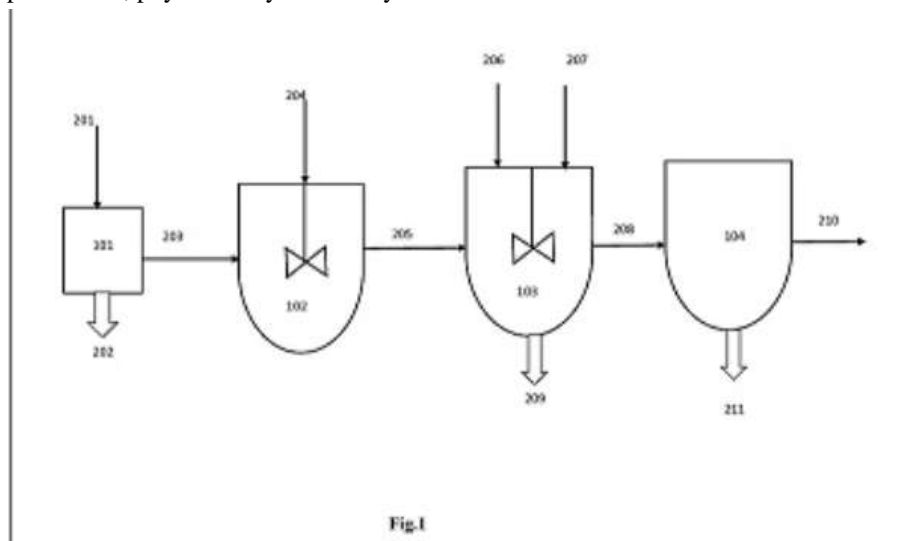
Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Dnyaneshwar Waghchoure
 Address of Applicant :127/ 1/1, Saisamarth, Bhamanagar, Sai City, Tal-Kopargaon, Dist.-Ahmednagar, State: Maharashtra (India) PIN - 423601, -----

2)Samarth Dnyaneshwar Waghchoure
 Address of Applicant :127/ 1/1, Saisamarth, Bhamanagar, Sai City, Tal-Kopargaon, Dist.-Ahmednagar, State: Maharashtra (India) PIN - 423601, -----

(57) Abstract :

The invention discloses the novel organic biostimulant and its process of manufacturing. The novel organic stimulant has excellent ability to minimize the physiological stresses in plant growth phases like shoot development, flowering and fruit. The unique composition of the disclosed biostimulant comprises, amino acid, humic acid, vitamins and solvent aqua. This novel biostimulant has shown excellent performance during the farm tests for the parameters sprouting performance, fruit retention, physiological parameters, phytotoxicity and fruit yield.



No. of Pages : 19 No. of Claims : 2

(54) Title of the invention : CENTRIFUGAL BASKET FOR SEPARATION OF MOLASSES FROM SUGAR

(51) International classification :C13B0030060000, C02F0001380000, B04B0007180000, G01N0021780000, F04D0029420000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Phadnis Centrifuge and Balancing
 Address of Applicant :1077/A, Flat No 6, Building Number 3, Sharmishtha Apartments, Off Senapati Bapat Road, Model Colony, Behind Hotel Sahara, Pune 411016, Maharashtra, India --

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Netaji Gundu Chavan
 Address of Applicant :Building - 4, Vinayak Smruti, Ugar Khurd, Athni Belgaum 591316, Karnataka -----
2)Amol Vijay Phadnis
 Address of Applicant :1077/A, Flat No 6, Building Number 3, Sharmishtha Apartments, Off Senapati Bapat Road, Model Colony, Behind Hotel Sahara, Pune 411016, Maharashtra, India --

(57) Abstract :
 Centrifugal Basket for Separation of Molasses from Sugar Abstract Disclosed is a centrifugal basket (50) for separation of molasses from sugar. The centrifugal basket (50) comprises double skirt ring and double outlet for separation of molasses from sugar. The centrifugal basket (50) facilitates separation of light and heavy molasses at two different points. The centrifugal basket (50) helps in improving magma color as well as sugar color due to which recovery of the sugar improves. The centrifugal basket (50) facilitates higher yield and saves costs, energy and time. Figure 3

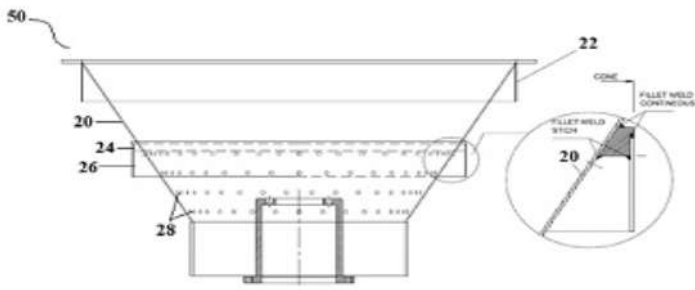


Figure 3

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : SYSTEM AND METHOD FOR DETECTING DEEP-FAKE IMAGE AND VIDEO

(51) International classification :G06N0003040000, G06N0003080000, G06K0009000000, G06K0009620000, H04W0012120000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)SHRADDHA SUNIL SURATKAR
 Address of Applicant :COE-CNDS LAB, VJTI COLLEGE, H.R. MAHAJANI MARG, MATUNGA EAST, MUMBAI, 400019, MAHARASHTRA, INDIA ----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)SHRADDHA SUNIL SURATKAR
 Address of Applicant :COE-CNDS LAB, VJTI COLLEGE, H.R. MAHAJANI MARG, MATUNGA EAST, MUMBAI, 400019, MAHARASHTRA, INDIA ----

2)PRANJAL RANJAN
 Address of Applicant :54/1403, NRI COMPLEX, NERUL, NAVI MUMBAI, 400706, MAHARASHTRA, INDIA -----

3)SARVESH PATIL
 Address of Applicant :B/308, SAGAR SAMRAT, MAHIM CAUSEWAY, MUMBAI, 400016, MAHARASHTRA, INDIA -----

4)ANKIT PAREKH
 Address of Applicant :5D/603, GREEN MEADOWS, LOKHANDWALA TOWNSHIP, KANDIVALI, MUMBAI, 400101, MAHARASHTRA, INDIA ----

5)BADHRINARAYAN MALOLAN
 Address of Applicant :6/199, SUKHDHAM, GAOTHAN RD. NO. 1, CHEMBUR, MUMBAI, 400071, MAHARASHTRA, INDIA -----

6)SAKSHAM SINGH
 Address of Applicant :602, SIGNATURE HEIGHTS, SECTOR 8, PLOT NO 19, GHANSOLI, NAVI MUMBAI, THANE, 400701, MAHARASHTRA, INDIA ----

7)FARUK KAZI
 Address of Applicant :COE-CNDS LAB, VJTI COLLEGE, H.R. MAHAJANI MARG, MATUNGA EAST, MUMBAI, 400019, MAHARASHTRA, INDIA ----

(57) Abstract :
 ABSTRACT According to an embodiment of the present invention, a system, and a method for detecting deep fake image and video is specified. The method includes, training pre-determined deep learning models with a deep fake image dataset to detect deep fake images. The deep fake image dataset may be created by sourcing deep fake image samples from one or more predefined sources. The method also includes, training a combination of a neural network and a long short term memory network with a deep fake video dataset to detect deep fake videos. The deep fake video dataset may be created by sourcing deep fake video samples from one or more predefined sources. The neural network extracts feature vectors from the deep fake video and the long short term memory network, process the feature vectors to detect the deep fake video. The method is effective in detecting the deep fake video and the deep fake image. FIG.1

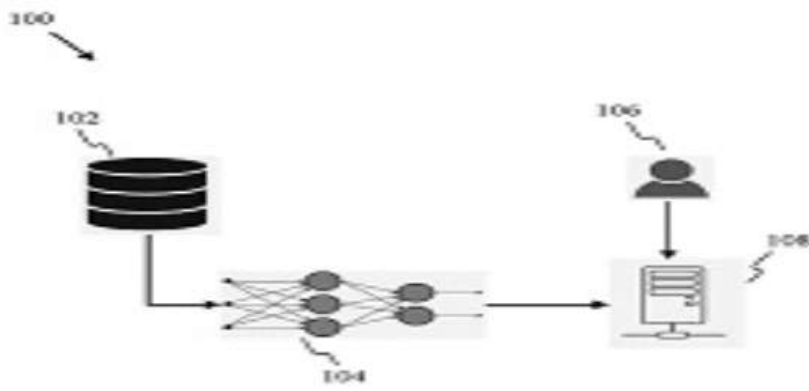


Fig. 1

(54) Title of the invention : INTEGRATION AND UNIQUE CHARACTERIZATION OF BIOACTIVE COMPLEX COMPOUNDS FROM STEMBARK EXTRACT OF UAPACA PILOSA HUTCH.

(51) International classification :C12R0001125000, A01N0065000000, A01N0065080000, A61K0039112000, A23L0005200000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No :NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Swati Nilesh Deshmukh (Associate Professor)
 Address of Applicant :Address-1: CAYMET's Siddhant College of Pharmacy, Sudumbare, Pune, MH, India. Address-2: B-1104, Swiss county, Near Vengsarkar Cricket Academy, Thergaon, Chinchwad, Pune, Maharashtra-411033, -----
2)Mrs. Vanita Gade (Assistant Professor)
3)Dr. Bhambar Rajendra Sudhakar (Professor .and Principal)
4)Dr. Gaurav Dubey (Professor)
5)Aditi Yashwant Karmarkar
6)Janhvi Naval Pagar
7)Shravani Dnyaneshwar Shivale
8)Rushikesh Pramod Nagarkar
9)Dr. Nidhi Jain (Assistant Professor)
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Dr. Swati Nilesh Deshmukh (Associate Professor)
 Address of Applicant :Address-1: CAYMET's Siddhant College of Pharmacy, Sudumbare, Pune, MH, India. Address-2: B-1104, Swiss county, Near Vengsarkar Cricket Academy, Thergaon, Chinchwad, Pune, Maharashtra-411033, -----
2)Mrs. Vanita Gade (Assistant Professor)
 Address of Applicant :Address-1: CAYMET's Siddhant College of Pharmacy Sudumbare Pune, MH, India. Address-2: Chature vasti, Ashvi- Nimgaon jail road Ashvi BK, Tal Sangamner, Dist: Ahmednagar, MH-413714 -----
3)Dr. Bhambar Rajendra Sudhakar (Professor .and Principal)
 Address of Applicant :Address-1: MGV's Pharmacy College Panchavti (Nashik) MH,432003 Address-2: 06 /07 Shivsarita Society Mate Park Sawarkar Nagar, Gangapur Road Nashik 422013, MH, India. -----
4)Dr. Gaurav Dubey (Professor)
 Address of Applicant :Address-1: NIMS Institute of Pharmacy, NIMS University Jaipur, RJ, India. Address-2: Gaurav Dubey V/76 Vaishnav Parisar, Sant Asha Ram nagar Bagsaveniya Bhopal, M.P. Pin:462043 -----
5)Aditi Yashwant Karmarkar
 Address of Applicant :41/606, Regal, Ekta Nagar Mhada, C.S.R Complex, opp. Ganesh nagar, near Atharva College, Kandivali (W) Mumbai-400067. -----
6)Janhvi Naval Pagar
 Address of Applicant :Balajipark, Rakshewadi Rajgurunagar, MH, India. -----
7)Shravani Dnyaneshwar Shivale
 Address of Applicant :Jai Shankar Society Bldg 20, Sch no 10, Sec 21, Flat 01, Yamunanagar, Nigdi, Pune-411044 -----
8)Rushikesh Pramod Nagarkar
 Address of Applicant :H.No 108 Baliram Peth Jalgaon Maharashtra -425001 -----
9)Dr. Nidhi Jain (Assistant Professor)
 Address of Applicant :Bharati Vidyapeeth's College of Engineering, Lavale, Pune, MH, India. -----

(57) Abstract :
 ABSTRACT Our Invention Integration and Unique Characterization of Bioactive Complex Compounds from Stembark Extract of Uapaca pilosa Hutch is a Uapaca pilosa(Hutch.) a plant utilized in certain pieces of Africa in the treatment of looseness of the bowels, feminine torment, fever, stoppage, erectile brokenness, skin contaminations, female sterility, heap, ailment, emetic, tooth-inconveniences and weariness. The dried plant was extricated, the concentrate was oppressed to phytochemical examination utilizing standard technique uncovered the presence of alkaloids, flavonoids, anthraquinones, tannins, saponins, steroids, terpenoids and glycosides. The antimicrobial screening of the rough concentrate and parts utilizing agar well dissemination method showed action against Staphylococcus aureus, Shigella dysenteriae, Salmonella typhi, Bacillus subtilis and Escherichia coli. The Zone of Inhibition of the plant separate against chosen microorganisms goes from 13mm to 17mm against Staphylococcus aureus, 10mm to 14mm against Bacillus subtilis, 12mm to 15mm against Shigella dysenteriae, 15mm to 18mm against Escherichia coli and 10mm to 11mm against Salmonella typhi. The MIC and MBC for the concentrate, divisions and disengaged compounds not set in stone. The scope of Minimum Inhibitory focus is between 6.25 mg/mL to 25 mg/mL for Staphylococcus aureus, 25 mg/mL for Shigella dysenteriae, 6.25 mg/mL for Bacillus subtilis and 12.50 mg/mL for Escherichia coli while the Minimum Bactericidal Concentration range between 12.50 mg/mL for Staphylococcus aureus, 50 mg/mL for Shigella dysenteriae, 12.50 mg/mL for Bacillus subtilis and 25 mg/mL for Escherichia coli. This investigation on the stem bark separate from Uapaca pilosa, utilized customarily in certain pieces of Africa as a restorative plant for the treatment of different afflictions has affirmed that it has antimicrobial action against the microorganisms that cause a portion of these infections.

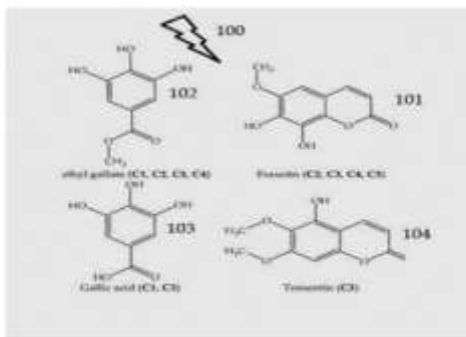


Fig.1: Characterization of Bioactive Compounds from Stembark Extract of Uapaca Pilosahutch flow Chart.

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : DETERMINATION OF ANTIOXIDANT AND PHENOLIC CONTENT USED OF LANTANA CAMARA.

(51) International classification :A61K0036850000, A23L0033105000, A01N0065000000, G06Q0030020000, A01H0005020000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Ishan Y Pandya
 Address of Applicant :International Author (Biosciences) & Fr. Ecologist, Gujarat Ecological Education and Research (GEER) Foundation, Indroda Nature Park, P.O. Sector-7 Gandhinagar-Gujarat (382007), India. -----

2)Dr. Rayees Afzal Mir (Associate Professor)
3)Dr. D.K Mishra
4)Mr. Vijay
5)Dr. Ravinder Kumar
6)Dr. Ritika
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Ishan Y Pandya
 Address of Applicant :International Author (Biosciences) & Fr. Ecologist, Gujarat Ecological Education and Research (GEER) Foundation, Indroda Nature Park, P.O. Sector-7 Gandhinagar-Gujarat (382007), India. -----

2)Dr. Rayees Afzal Mir (Associate Professor)
 Address of Applicant :Glocal University. Mirzapur Pole , Saharanpur .UP 247121 India. -----

3)Dr. D.K Mishra
 Address of Applicant :Abhilashi University, Chail Chowk, Mandi, Himachal Pradesh 175045, India. -----

4)Mr. Vijay
 Address of Applicant :Abhilashi University, Chail Chowk, Mandi, Himachal Pradesh 175045, India. -----

5)Dr. Ravinder Kumar
 Address of Applicant :Abhilashi University, Chail Chowk, Mandi, Himachal Pradesh 175045, India. -----

6)Dr. Ritika
 Address of Applicant :Abhilashi University, Chail Chowk, Mandi, Himachal Pradesh 175045, India. -----

(57) Abstract :
 ABSTRACT Our Invention Determination of antioxidant and phenolic content used of Lantana camara is to a Phytochemicals like carotenoids, tocopherols, ascorbates and phenols present in the plants are solid cell reinforcements and play a significant part in the medical services framework. There is developing interest in associating the phytochemical constituents of a plant with its pharmacological action. Thusly, the current examination explores the substance of all out phenolics, flavonoids and the cell reinforcement movement of four distinct assortments of Lantana camara L. (Verbenaceae) leaves by utilizing in vitro cell reinforcement models. The leaves of Chandigarh purple assortment (CPV), Palampur red assortment (PRV), Chandigarh yellow becoming pink assortment (YTPV) and Chandigarh yellow assortment (CYV) Lantana camara were gathered and the complete phenolic, flavonoid content, cancer prevention agent and free revolutionary searching not really set in stone in their methanolic separates.

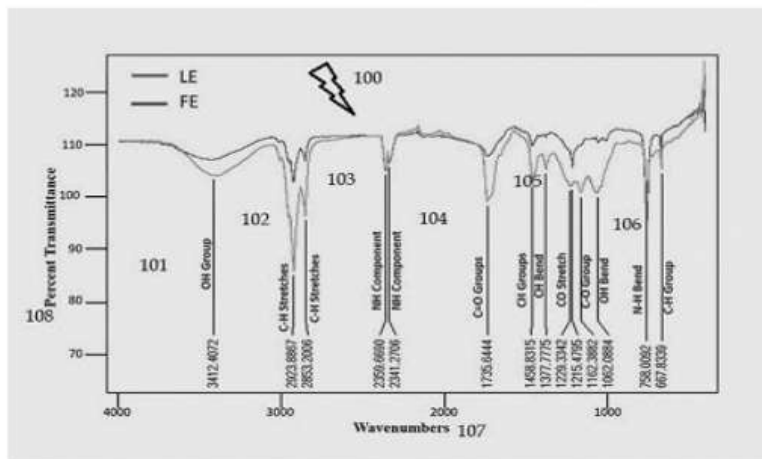


Fig.1: Determination of antioxidant and phenolic content use of Lantana camara Flow Chart.

No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : FORMULATION AND EVALUATION OF SUSTAIN RELEASE TABLET OF CASSIA UNIFLORA WITH POTENTIAL ANTI-ARTHRITIC ACTIVITY.

<p>(51) International classification :A61K0009200000, A61K0031196000, A61K0036280000, A61K0036482000, C08L0005000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Pradnya Nilesh Jagtap Address of Applicant :Jagtap ali, kodit Naka, Saswad, Tal: Purandar, Dist: Pune ----- 2)Sayali Sunil Chavan 3)Smita Milind Kamble 4)Ganesh Balasaheb Nigade Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Pradnya Nilesh Jagtap Address of Applicant :Jagtap ali, kodit Naka, Saswad, Tal: Purandar, Dist: Pune ----- 2)Sayali Sunil Chavan Address of Applicant :At. Post Kiroli, Tal. Koregaon, Dist. Satara, pin code - 415116 ----- 3)Smita Milind Kamble Address of Applicant :A 33 Ashoknagar bidikamgar vasahat yerwada golf club pune 6 ----- 4)Ganesh Balasaheb Nigade Address of Applicant :A/P: - Gulunche, Tal: - Purandar, Dist: - Pune-412102 -----</p>
---	--

(57) Abstract :

ABSTRACT Our Invention Formulation and Evaluation of Sustain release tablet of Cassia uniflora with potential anti arthritic activity. Anti-arthritic activity of the formulations of Sustain release tablet of Cassia uniflora was tested in rat model. The invention is to a prepare formulations of Sustain release tablet from the aqueous extracts of leaves of Cassia uniflora. Two formulations of Sustain release tablet were prepared and the formulations were evaluated for physical properties like appearance, hardness, thickness, weight variation, friability, drug content of sample and other required things as per need. The anti arthritic activity of prepared formulations of of Sustain release tablet of Cassia uniflora was checked by using the complete freund's adjuvant induced arthritis in rat model. The results revealed that prepared Sustain release tablet formulation of Cassia uniflora showed significant anti arthritic activity compared with standard drug (Diclofenac sodium). So these plant materials can be used in the preparation of Sustain release tablet of Cassia uniflora on commercially scale. This might be rational basis for use of Cassia uniflora and use of these in making anti arthritic Sustain release tablet in place of chemicals.

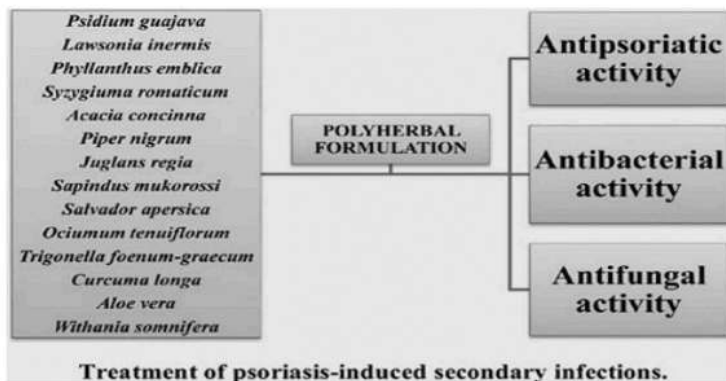


FIG.1: Antifungal Status

(54) Title of the invention : APPARATUS TO PARTIALLY AUTOMATE PROCESS OF DIGITIZING DENTAL STUDY MODELS THROUGH PHOTOGRAMMETRY

(51) International classification :H04N0005232000, G06F0003048200, G03B0017560000, G06T0007330000, A61C0009000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)DR.SHUBHANGI MANI
 Address of Applicant :DEPT OF ORTHODONTICS, RURAL DENTAL COLLEGE LONI, PIMS, PMT -----
2)DR.RAVINDRA MANERIKAR
3)DR.AMEET MANI
4)DR.SHIVANI SACHDEVA
5)DR.ABHAY PAUL
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)DR.SHUBHANGI MANI
 Address of Applicant :DEPT OF ORTHODONTICS, RURAL DENTAL COLLEGE LONI, PIMS, PMT -----
2)DR.RAVINDRA MANERIKAR
 Address of Applicant :RURAL DENTAL COLLEGE, PIMS LONI -----

3)DR.AMEET MANI
 Address of Applicant :RURAL DENTAL COLLEGE, LONI, PIMS LONI -----

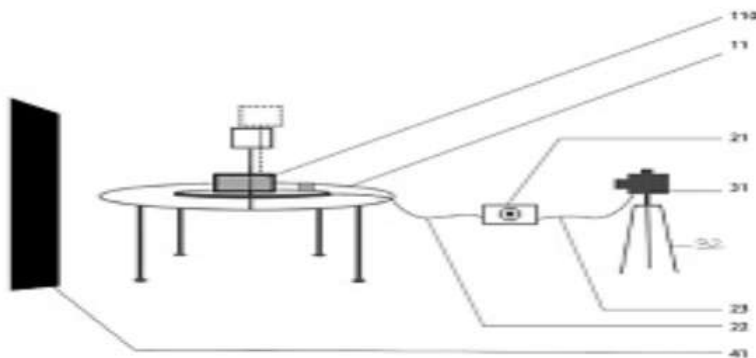
4)DR.SHIVANI SACHDEVA
 Address of Applicant :RURAL DENTAL COLLEGE, PIMS, LONI -----

5)DR.ABHAY PAUL
 Address of Applicant :RDC, LONI -----
6)DR. GOPAL KASAT
 Address of Applicant :275/ SECTOR 2 VIDYADAR NAGAR JAIPUR, 302032 --

7)
 Address of Applicant : -----

(57) Abstract :
 APPARATUS TO PARTIALLY AUTOMATE PROCESS OF DIGITIZING DENTAL STUDY MODELS THROUGH PHOTOGRAMMETRY The present invention describes within an apparatus to partially automate the process of capturing images of a dental study model from various angles. This enables the user to create a digital 3-dimensional replica of the dental study model which can be used for clinical and laboratory purposes. It involves a rotating table setup on which the study model is rotated allowing the camera to capture images of the study model from multiple angles. A microprocessor is programmed to send a signal to the motor setup rotating the platform for a set time.

FIGURE 1



No. of Pages : 17 No. of Claims : 6

(54) Title of the invention : INTERACTIVE VIRTUAL REALITY SYSTEM WITH UV PROCESSING BASED 360 DEGREE VIEW CREATION OF AN ENVIRONMENT

(51) International classification :G06F0003010000, G06T0019000000, G02B0027010000, G06T0011000000, H04N0013239000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

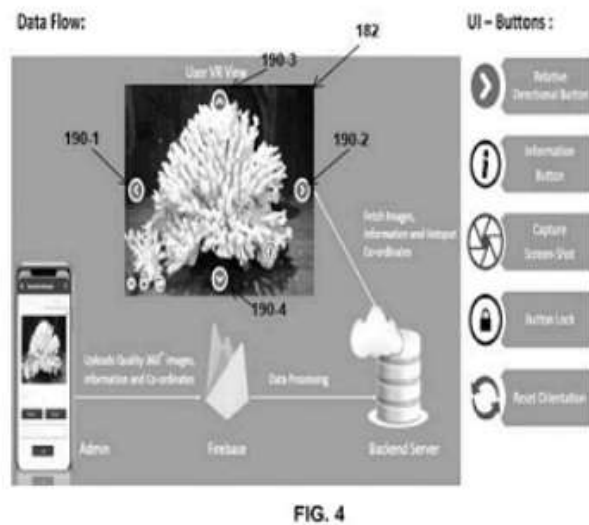
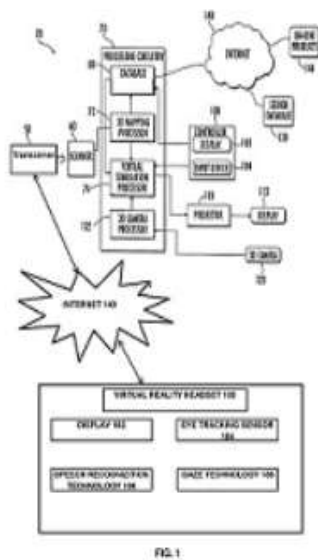
(71)Name of Applicant :
1)Shreyas Nitin Songirkar
 Address of Applicant :Ghar kr10/1031, Near ICT computer class, Sharda nagar, bhusawal - 425201, Maharashtra -----

2)Jayshree Nitin Songirkar
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Shreyas Nitin Songirkar
 Address of Applicant :Ghar kr10/1031, Near ICT computer class, Sharda nagar, bhusawal - 425201, Maharashtra -----

(57) Abstract :

The present invention provides a virtual reality system and method for generating and displaying a simulation video of an environment (e.g., real world locations for example, a museum etc.) having 3D images of objects obtained based on UV mapping, wherein the device is configured to detect the head movement of the user while viewing the environment, using gaze technology, for determining next course of action/operation to be performed in the VR environment. The system includes server (20) having a transceiver (50), a scanner (60), a three-dimensional (3D) mapping processor (72), a three-dimensional (3D) mapping processor (72) for generating a computer simulated environment of an existing location, and the VR headset (105) for displaying the generated computer simulated environment to the user. The invention converts 2D coordinates of the image into 3D coordinates using UV processing for creating a 360° view of an environment to provide a virtual tour using VR.



No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : A SYSTEM AND METHOD FOR AUTOMATED THIRD-PARTY VENDOR RISK MANAGEMENT AND AUDIT

(51) International classification :G06Q0030020000, G06N0020000000, G06Q0010060000, G06Q0040080000, G06F0040200000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)ShieldByte Infosec Pvt Ltd
 Address of Applicant :B/402, Bldg no. 122-1 , Wing B, Chembur Sandesh, Chembur , TilakNagar , Mumbai – 400089 , India -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Vaishali Mutalik
 Address of Applicant :B/402, Bldg no. 122-1 , Wing B, Chembur Sandesh, Chembur , TilakNagar , Mumbai – 400089 , India -----

2)Rohit Mutalik
 Address of Applicant :B/402, Bldg no. 122-1 , Wing B, Chembur Sandesh, Chembur , TilakNagar , Mumbai – 400089 , India -----

(57) Abstract :

The present disclosure is related to a system and a process of automated third-party vendor risk management and audit. The process includes sending a list of questionnaires to the third-party vendor 203 through a secured platform based on the compliance that the vendor needs to comply and processing the responses provided by the third-party vendor using an Artificial Intelligence (AI) system 107 trained to analyses the responses and automatically provide the degree of compliance 402 of the vendor as compliant, non-compliant or partially compliant. The AI system 107 is also trained to automatically provide a risk severity 403 and an audit note 404 based on the response of the third-party vendor which can then be shared with the client managing the third-party vendor.

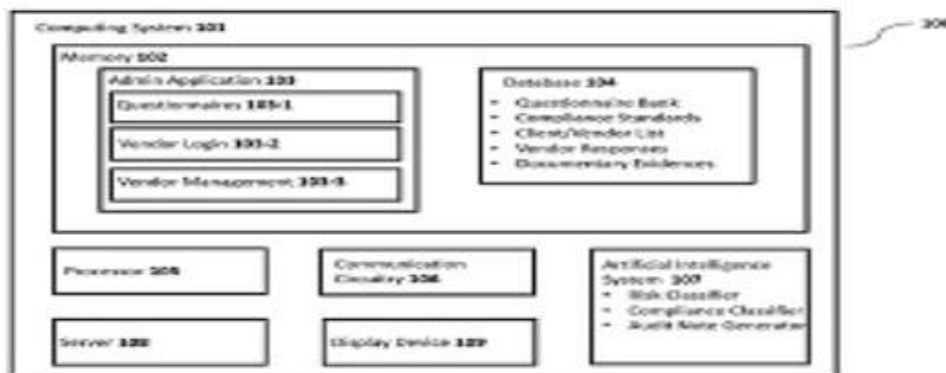


FIG. 1

No. of Pages : 19 No. of Claims : 3

(54) Title of the invention : AN IOT BASED FOLDABLE CAR COVERING SYSTEM

(51) International classification :G09F0021040000, G01N0015060000, B60J0011020000, G06Q0010080000, G01S0017931000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)MESHRAM, Diwesh Babruwan

Address of Applicant :Plot no.50, Kasturba Nagar, Jaripatka, Nagpur-440014, Maharashtra, India -----

2)MESHRAM, Akshaykumar Jagdishrao

3)THAWARE, Karuna Prabhakar

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MESHRAM, Diwesh Babruwan

Address of Applicant :Plot no.50, Kasturba Nagar, Jaripatka, Nagpur-440014, Maharashtra, India -----

2)MESHRAM, Akshaykumar Jagdishrao

Address of Applicant :Lane No-2, Kunjilal-Peth, Bhagwan Nagar, Nagpue-440027, Maharashtra, India -----

3)THAWARE, Karuna Prabhakar

Address of Applicant :Plot No. 86, Mauli Nagar, Amravati Road, Wadi, Nagpur, Near Pooja Weight Bridge, Nagpur-440023 -----

(57) Abstract :

The present invention relates to an IOT based foldable car covering system. The object of the proposed invention is to use for protecting the car from the various dust particles in the atmosphere and direct heating through sunlight. The proposed system is hanging on the rooftop/porch area in which the car is parked. The mechanical linkage along with the hydraulic system is used for operating the complete system mechanism which results in covering the car from all sides. The activity of opening and closing the cover is operating through the mobile based application. Following invention is described in detail with the help of Figure 1 of sheet 1 showing schematic diagram of proposed invention.

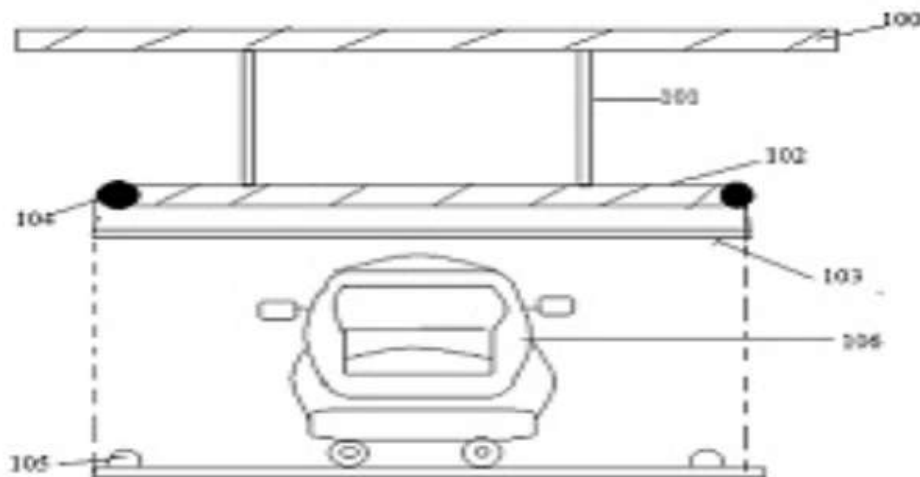


Figure 1

No. of Pages : 9 No. of Claims : 2

(54) Title of the invention : WIND-SOLAR HYBRID POWER GENERATION SYSTEM

(51) International classification :F03D0009250000, F03D0009000000, F03D0003060000, H02S0010120000, F03G0006060000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Shailesh Kantilal Patel (Faculty of SSPC, Sankalchand Patel University)
 Address of Applicant :11, Badrinarayan Society, B/H Mohannagar Society, M N College Road, Visnagar, Mehsana, Gujarat, 384315, India -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Patel Jayesh Ashokbhai (Staff of SSPC, Sankalchand Patel University)
 Address of Applicant :51, Sahkar Nagar Society,B/H Rajkamal Petrol Pump, Mehsana, Gujarat, 384002, India -----
2)Patel Ajay Vipulbhai (Student of SSPC, Sankalchand Patel University)
 Address of Applicant :Mohannagar Society, M N College Road, Visnagar, Mehsana, Gujarat, 384315, India -----
3)Hansaben Haribhai Patel (Faculty of SSPC, Sankalchand Patel University)
 Address of Applicant :157/1875, Pratiksha Appartment, Sola Housing Bus stop, sola Road, Naranpura, Ahmedabad, Gujarat, 380063, India -----
4)Dr. Shailesh Kantilal Patel (Faculty of SSPC, Sankalchand Patel University)
 Address of Applicant :11, Badrinarayan Society, B/H Mohannagar Society, M N College Road, Visnagar, Mehsana, Gujarat, 384315, India -----

(57) Abstract :

The present invention relates to a wind-solar hybrid power generation system (1). The aim is to provide renewable energy solution having vertical axis wind turbine and solar plate which can be installed at rural areas and on highways for street light requirements during night hours where an electricity crisis is the main problem. Additionally the present invention is capable of operating two street lights having total capacity of 48 watt to minimum four to five days. The wind-solar hybrid power generation system (1) consisting of a base unit (2), a power storage unit (3), a pair of power generation unit (4), a gear assembly (5), a base cover (6), a hollow vertical shaft (9), a stand (11), a stud (8), a vertical turbine (7), a pair of bearing (14), a pair of turbine frame (13), a three curve blade (10), a secondary stud (15) and a pair of solar plate (12).

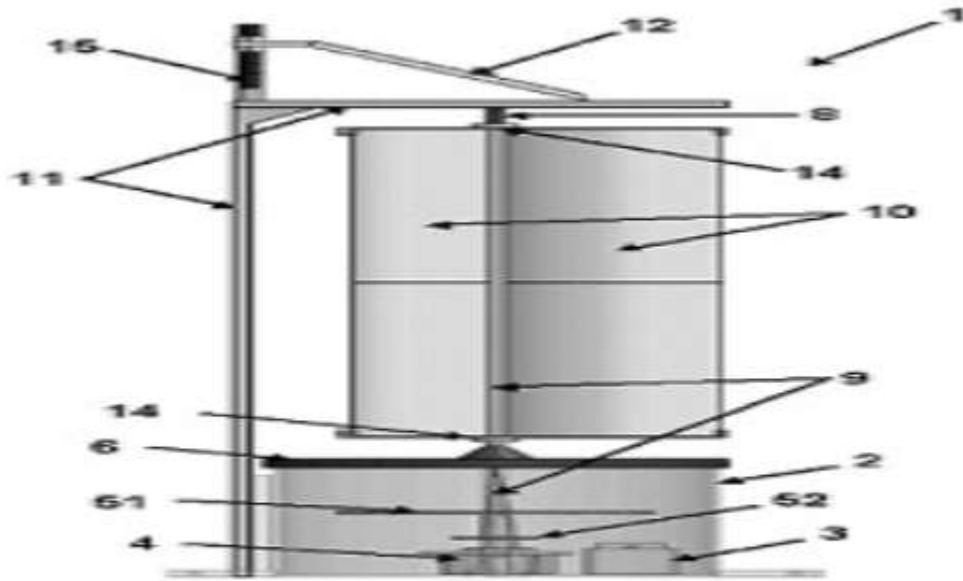


Fig 1

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121049810 A

(19) INDIA

(22) Date of filing of Application :30/10/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : A VETERINARY LIQUID ORAL FORMULATION FOR BLOOD PROTOZOAL DISEASE

(51) International classification :A61K0047100000, C09D0007610000, A61K0031000000, A61K0008220000, A61K0008340000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)CRITTHEERBS PHARMA

Address of Applicant :202, Abhishek Plaza, B/H Nav Gujarat College, Usmanpura, Ahemdabad, Gujrat, India – 380014. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. AALAP SHAH

Address of Applicant :A-203 Stavan Avisha, B/H Seema Hall, Satellite, Ahmedabad, Gujrat, India -380015 -----

2)DR. KRUTI SHAH

Address of Applicant :A-101 Stavan Avisha, B/H Seema Hall, Satellite, Ahmedabad, Gujrat, India -380015 -----

3)DR. JAYSHREE SHAH

Address of Applicant :A-203 Stavan Avisha, B/H Seema Hall, Satellite, Ahmedabad, Gujrat, India -380015 -----

(57) Abstract :

ABSTRACT A VETERINARY LIQUID ORAL FORMULATION FOR BLOOD PROTOZOAL DISEASE The aim of present work is to cover the whole pathophysiology of the any kind of blood protozoal Infection. It is a complete supportive therapy for any kind of Blood Protozoal Infection. It is involved in this conditions like Liver tonic, Energy Booster, to improve Hemoglobin. A veterinary liquid oral formulation is a unique formulation for blood protozoal which contains various excipients like different plant extracts, anti-microbial agent, thickening agent, preservative and Purified water.

No. of Pages : 22 No. of Claims : 8

(54) Title of the invention : A CEILING-BASED STORAGE SYSTEM AND ITS OPERATIONAL METHOD THEREOF

(51) International classification :B26D0005000000, H02P0023240000, D06F0057120000, B66D0003180000, B05B0012120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)IES College of Technology
Address of Applicant :Bhopal-462044, Madhya Pradesh India; -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Manish Shrivastava
Address of Applicant :IES College of Technology, Bhopal-462044, Madhya Pradesh India -----

2)Prof. Khushbu Kriplani.
Address of Applicant :IES College of Technology, Bhopal-462044, Madhya Pradesh India -----

3)Prof. Jamvant Omkar
Address of Applicant :IES College of Technology, Bhopal-462044, Madhya Pradesh India -----

4)Prof. Sonu Lal
Address of Applicant :IES College of Technology, Bhopal-462044, Madhya Pradesh India -----

5)Arpit Mishra
Address of Applicant :IES College of Technology, Bhopal-462044, Madhya Pradesh India -----

6)Nilesh Kumar
Address of Applicant :IES College of Technology, Bhopal-462044, Madhya Pradesh India -----

7)Aryan Gupta
Address of Applicant :IES College of Technology, Bhopal-462044, Madhya Pradesh India -----

8)Md. Sahil Babu
Address of Applicant :IES College of Technology, Bhopal-462044, Madhya Pradesh India -----

9)Ujjwal Deep
Address of Applicant :IES College of Technology, Bhopal-462044, Madhya Pradesh India -----

(57) Abstract :

The system comprises a set of befitting aisles 102 coupled to a ceiling for storing objects secretly and out of reach from children in an organized manner; a carrying box 104 coupled through a pulley mechanism exposed to an approachable distance from the ceiling for loading an object; a control unit 106 for calculating a storage requirement upon detecting dimensional area of the object using an ultrasonic sensor 108 and an infrared sensor 110; a motor 112 for pulling up the carrying box 104 for delivering the object on the befitting aisles 102, wherein the direction of a pulley 114 is controlled by a direction control switch 116, which help a thread of the pulley to move in forward & reverse directions; and a user interface 118 for controlling direction of rotation of motor 112 and direction of the direction control switch 116 remotely for placing the box on one of the befitting aisles.

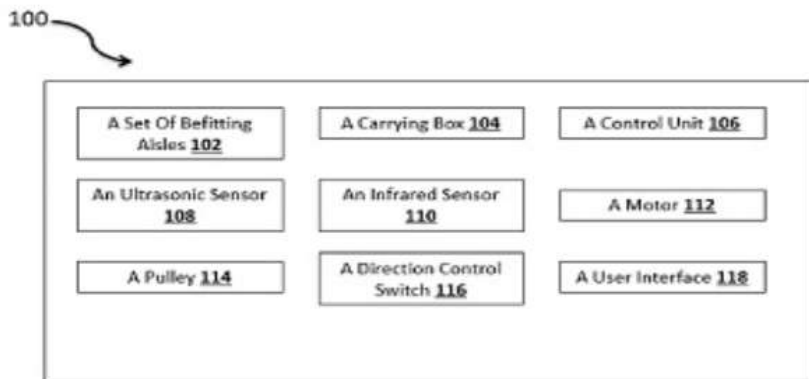


Figure 1

(54) Title of the invention : CROWD ABNORMAL DETECTION OF CCTV VIDEO USING DEEP LEARNING

(51) International classification :G06N0003040000, G06Q0010060000, G06Q0050260000, H04N0007180000, G06N0003080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)VISHAKHA BANSOD
 Address of Applicant :Kalinga University Naya Raipur, Chhattisgarh -----
2)DR ASHA AMBHAIKAR
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)VISHAKHA BANSOD
 Address of Applicant :Kalinga University Naya Raipur, Chhattisgarh -----
2)DR ASHA AMBHAIKAR
 Address of Applicant :Kalinga University Naya Raipur, Chhattisgarh -----

(57) Abstract :

Abstract In Covid-19 epidemic, the administration in India, which has a large population, had to suffer a lot of problem. The government had to implement various measures in India to avoid crowds. Crowd management strategies are much needed in India. Crowd management strategies should ultimately be adopted for crowd safety. CCTV cameras are used in most public places, but abnormal behavior is not detected automatically. There is a need for a supervisor to detect abnormal behavior. This paper introduces in-depth architectural design that controls crowd behavior helps to avoid various visual effects caused by crowds. Therefore, we are proposing a system that will detect abnormal behavior in crowds using deep learning techniques. In this paper, we will increase the accuracy of crowd detective strategies using Inception Network (Inception-V4 or Inception-ResNets) and LSTM Network or GRU.

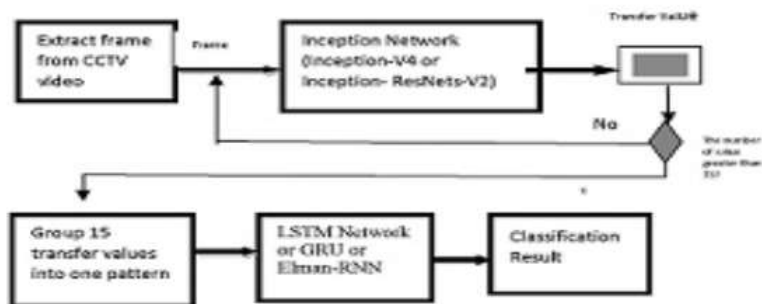


Fig. 1. Classification based on multilayer long short-term memory networks

No. of Pages : 10 No. of Claims : 2

(54) Title of the invention : APPARATUS FOR CONCENTRATION AND ABSORPTION OF SOLAR ENERGY

(51) International classification :F24S0020200000, F24S0010700000, F24S0070200000, F24S0080600000, F24S0010300000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. Vinod B. Tungikar
 Address of Applicant :Prod Engg Dept SGGS Institute of Engg & Tech Nanded 431606 -----
2)Jagdish B. Pawar
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Vinod B. Tungikar
 Address of Applicant :Prod Engg Dept SGGS Institute of Engg & Tech Nanded 431606 -----
2)Jagdish B. Pawar
 Address of Applicant :Prod Engg Dept SGGS Institute of Engg & Tech Nanded 431606 -----

(57) Abstract :

ABSTRACT APPARATUS FOR CONCENTRATION AND ABSORPTION OF SOLAR ENERGY A helically coiled conical cavity receiver for concentration and absorption of solar energy. Conventional receivers are bulky and undergoes considerable heat loss limiting the efficiency of CST system. The conical cavity receiver comprises of a copper tube [108] welded to a copper vessel forming the cavity receiver where the solar radiation is concentrated [100]. The receiver is coated with an anti-reflecting black paint and enclosed in a metallic casing [110] to maximize insulation, lowering heat loss. The fluid is pumped through inlet [102] and collected through the outlet [106]. The receiver is mounted on a stand [112] so that it can be angled at any desired angle. The receiver is flexible, compact and exhibits higher energy efficiency. Figure 3

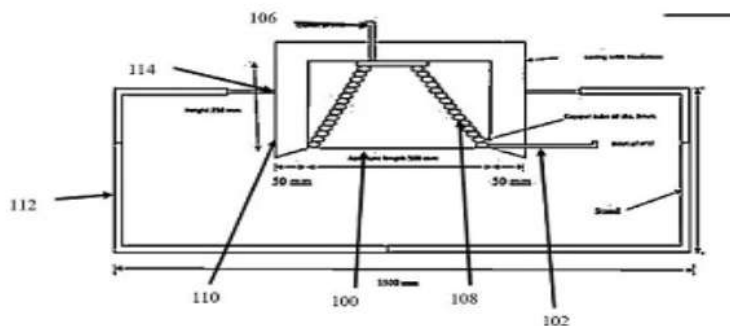


FIG. 3

No. of Pages : 20 No. of Claims : 9

(54) Title of the invention : RETAIL BANKING TRANSFORMATION STORY IN POST-LIBERALIZED INDIA

(51) International classification :G06Q0030020000, G06Q0040020000, G06Q0010060000, G06Q0090000000, G06Q0020100000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No :NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Amit Khare
 Address of Applicant :Assistant Professor Oriental College of Management, Patel Nagar Raisen Road, Bhopal-462021, Madhya Pradesh -----
2)Dr. Poorva Sakergayen
3)Dr. Shikha Bhargava
4)Dr. Mamta Manshani
5)Dr. Sushil Kumar Gupta
6)Ms. Sruthi S
7)Dr. Elizabeth Chacko
8)Dr. Priya Makhija
9)Dr. Asjad Usmani
10)Dr. Rajeev Kumar
11)Dr. V.Kannan
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Dr. Amit Khare
 Address of Applicant :Assistant Professor Oriental College of Management, Patel Nagar Raisen Road, Bhopal-462021, Madhya Pradesh -----
2)Dr. Poorva Sakergayen
 Address of Applicant :Assistant Professor Oriental College of Management, Patel Nagar Raisen Road, Bhopal-462021, Madhya Prade -----
3)Dr. Shikha Bhargava
 Address of Applicant :Director & Associate Professor Oriental College of Management, Opp. Patel Nagar, Raisen Road, Bhopal-462021 Madhya Pradesh -----
4)Dr. Mamta Manshani
 Address of Applicant :Associate Professor Oriental College of Management, Patel Nagar Raisen Road- 462021 Madhya Pradesh ----
5)Dr. Sushil Kumar Gupta
 Address of Applicant :Assistant Professor School of Management (UG) Dr. Vishwanath Karad MIT World Peace University, Pune-411038 Maharashtra -----
6)Ms. Sruthi S
 Address of Applicant :Assistant Professor Department of Commerce Gregorian College of Advanced Studies, Trivandrum-695035, Kerala -----
7)Dr. Elizabeth Chacko
 Address of Applicant :Associate Professor Management Department JAIN (Deemed to be) University - Center for Management Studies Bangalore- 560027, Karnataka -----
8)Dr. Priya Makhija
 Address of Applicant :Associate Professor Management Center for Management Studies, JAIN (Deemed-to-be University) Bangalore -560043, Karnataka -----
9)Dr. Asjad Usmani
 Address of Applicant :Assistant Professor Management Banarsidas Chandiwala Institute of Professional Studies (Ggsipu University, New Delhi) New Delhi- 110025 -----
10)Dr. Rajeev Kumar
 Address of Applicant :Associate Professor. Management, Uttarakhand University, Dehradun-248001, Uttarakhand -----
11)Dr. V.Kannan
 Address of Applicant :Managing director, CLDC Research and Development No.997, Mettupalayam Road, Near X-Cut Signal,R.S.Puram, Coimbatore-641002 Tamil Nadu -----

(57) Abstract :

Retail banking transformation story in post-liberalized India Abstract: A shift in the manufacturing and use of goods is having a significant impact on retail banking in India. Because people are spending more money, there has been an increase in demand for retail banking products such as credit cards, loans, and customised products and services. It is difficult for retail banking customers to keep up with ever-changing competition, capitalise on technological advancements, and expand their customer base in rural India toward inclusive banking, improve customer service, and make their products and services more unique for specific groups of customers. The retail banking industry in India has evolved significantly over the years. In the past, Indian middle-class people disliked debt. They would rather live within their means than take out loans. People's attitudes toward borrowing money to spend have shifted over time. You must stay on top of things as the retail banking landscape changes at breakneck speed. Retail banking, on the other hand, has both positive and negative aspects. These issues are documented in retail banking market research reports. The retail market's success and growth will be determined by how well banks deal with problems and capitalise on opportunities (in the banking sector). Retail liquidity margins can be as high as 3% to 4% above the prime rate, which is the rate at which banks lend money. According to recent reports, India's retail market may be larger than that of the United States. According to the National Readership Survey, over 4.5 million Indian households earn more than Rs.5000 per month. According to a survey, households earning more than Rs 2 lakh per year are increasing at a rate of 30 percent per year, with Gujarat experiencing the fastest growth. Banks with foresight are attempting to enter this market with new products, services, technology, and marketing strategies that will not make them a lot of money. There is access to branch banking, room service, ATMs, a telephone banking network, and room service. Customers are regarded as kings and queens in the retail banking industry. Since 1992, when the country's financial sector reforms were implemented, the banking industry in India has changed dramatically. Banks now operate in a very different environment than they did previously. An Indian bank is attempting to improve its operations by adhering to international banking standards and practises.



No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : SYSTEM AND METHOD FOR DATA WAREHOUSE MIGRATION

(51) International classification :G06F0008410000, G06F0040211000, G10L0015000000, G06F0008200000, G06F0008300000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)DATAMETICA SOLUTIONS PRIVATE LIMITED
 Address of Applicant :502, 5TH FLOOR, ZERO ONE, MUNDHWA ROAD, KOREGAON PARK EXTENSION, PINGALE WASTI, ABOVE PASSPORT OFFICE, PUNE, MAHARASHTRA 411036, INDIA -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)NIRAJ KUMARNIRAJ KUMAR
 Address of Applicant :V-27, KONARK CAMPUS, VIMAN NAGAR, PUNE - 411014, MAHARASHTRA, INDIA -----

2)ABBAS GADHIA
 Address of Applicant :A/10, SIDDHARTH COMPLEX, NAGAR ROAD, PUNE – 411006, MAHARASHTRA, INDIA -----

3)KRISHNAKANT AGRAWAL
 Address of Applicant :435, SAMTA COLONY, RAIPUR, CHHATTISGARH, INDIA -----

4)STUTI GUPTA
 Address of Applicant :56, HOSPITALROAD, JAGDISHPUR, BALLIA, UTTAR PRADESH, INDIA -----

(57) Abstract :

A system for data warehouse migration is disclosed. The system (100) includes a parsing module (110) to receive one or more input constructs from a source database in a first syntactical dialect, parse the one or more input constructs received in the first syntactical dialect using an external domain specific language parser, converts the one or more input constructs upon parsing into an abstract syntax tree corresponding to the first syntactical dialect of the source database. A canonicalization module (120) transforms the abstract syntax tree into a canonical abstract syntax tree by utilizing a library of a plurality of operators and expressions corresponding to the first syntactical dialect. A tree optimization module (130) optimizes the canonical abstract syntax tree by utilizing a set of optimization rules. An input translation module (140) converts the canonical abstract syntax tree into an output code corresponding to a second syntactical dialect associated with a target database for compatibility using a translation layer. FIG. 1

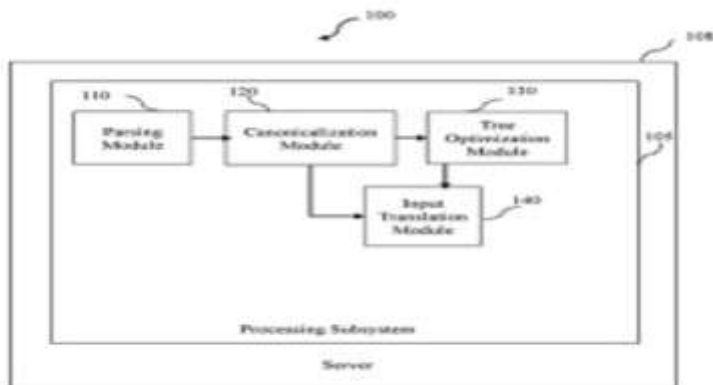


FIG. 1

No. of Pages : 24 No. of Claims : 10

(54) Title of the invention : IMPROVING THE WORKABILITY OF AN EMPLOYEE WITH AN EMOTION DETECTOR

(51) International classification :G06K0009000000, G06Q0010060000, A01B0075000000, G01C0009060000, G06Q0099000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

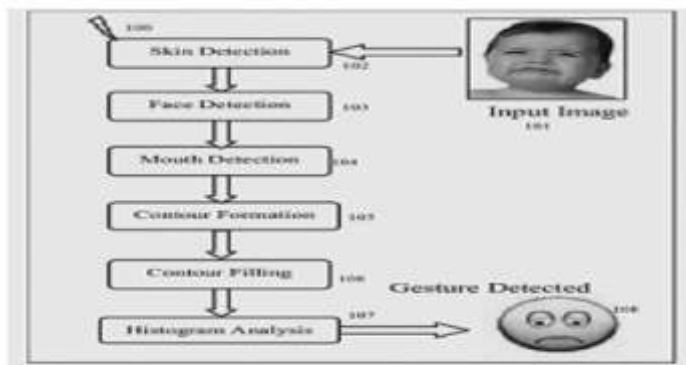
(71)Name of Applicant :
1)GEH RESEARCH LLP
 Address of Applicant :FL NO 104, GEH RESEARCH LLP, ADHRAJ CLUSTER ,269, PAUD RD, BHUGAON, BAVDHAN, PUNE, MAHARASHTRA 412115, INDIA. E-Mail: dr.bksarkar2003@yahoo.in -----

2)Prof. (Dr.) Haribhau R. Bhapkar
3)Prof.(Dr.) B.K. Sarkar (International Patent Motivational Speaker)
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Prof. (Dr.) Haribhau R. Bhapkar
 Address of Applicant :MIT Art, Design and Technology University's, MIT School of Engineering, Loni Kalbhor, Pune-412201, Manjri Green Woods, Bld- J2, Flat. No-604, Manjri, Pune Email: haribhau.bhapkar@mituniversity.edu.in Mobile No:9011227141 -----

2)Prof.(Dr.) B.K. Sarkar (International Patent Motivational Speaker)
 Address of Applicant :FL NO 104, GEH RESEARCH LLP, ADHRAJ CLUSTER ,269, PAUD RD, BHUGAON, BAVDHAN, PUNE, MAHARASHTRA 412115, INDIA. E-Mail: dr.bksarkar2003@yahoo.in -----

(57) Abstract :
 ABSTRACT Our Invention "Improving the workability of an employee with an emotion detector" Work fulfillment of every worker is fundamental as it straightforwardly influences their functionality. The work fulfillment file is straightforwardly relative to their joy, which relies more upon their home climate. On the off chance that a worker is glad at home and happy with his work profile, his functionality will give magnificent outcomes. These days, each industry is utilizing the biometric participation of a representative. The new model of biometric machines with a bliss file is planned. While doing biometry, his looks noted and chose a worker's satisfaction. A worker can join his work when his joy list surpasses the limited esteem. In any case, he really wants to seek some guidance or be given some an ideal opportunity to get ready. This methodology works on a representative's functionality and further develops work culture, increment worker usefulness, increment maintenance, contribute positive outcomes towards reference programs, lower intentional turnover, decrease non-attendance, and a lot more things.



No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : IOT BASED SYSTEM FOR WOMEN AND CHILDREN SAFETY

(51) International classification :A61B0005000000, A61B0005024000, B60N0002280000, G08B0021040000, G08B0025010000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)MAHATMA EDUCATION SOCIETY’S, PILLAI COLLEGE OF ENGINEERING
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S, PILLAI COLLEGE OF ENGINEERING, Dr K M Vasudevan PILLAI Campus, Sector 16, New Panvel, NAVI Mumbai -410206, MH, India. -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Prof. Suhas Lawand
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S, PILLAI COLLEGE OF ENGINEERING, Dr K M Vasudevan PILLAI Campus, Sector 16, New Panvel, NAVI Mumbai -410206, MH, India. -----

2)Prof. Rupali Nikhare
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S, PILLAI COLLEGE OF ENGINEERING, Dr K M Vasudevan PILLAI Campus, Sector 16, New Panvel, NAVI Mumbai -410206, MH, India. -----

3)Dr. Prashant Nitnaware
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S, PILLAI COLLEGE OF ENGINEERING, Dr K M Vasudevan PILLAI Campus, Sector 16, New Panvel, NAVI Mumbai -410206, MH, India. -----

4)Prof. Deepti L
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S, PILLAI COLLEGE OF ENGINEERING, Dr K M Vasudevan PILLAI Campus, Sector 16, New Panvel, NAVI Mumbai -410206, MH, India. -----

5)Prof. Gayatri Hegde
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S, PILLAI COLLEGE OF ENGINEERING, Dr K M Vasudevan PILLAI Campus, Sector 16, New Panvel, NAVI Mumbai -410206, MH, India. -----

(57) Abstract :
 ABSTRACT Our Invention “IoT based System for Women and Children Safety” We observed that India is among those nations where there is a need of certain activities or gadgets which guarantees that the ladies and kids in our nation feel more secure to go any place and at whatever point they feel like. Along these lines, we are proposing a ladies and youngsters wellbeing framework. We will be planning and executing a framework that conquers the downsides of existing security frameworks accessible in market. We will be attempting to plan a wellbeing framework against provocations, attacks, seizing, social issues and so forth The framework comprises of highlights like Image catching, Backtracking, Live following, Heartbeat Sensor, Panic button and so on This assists the wearer with rapidly calling for help during risk. The heartbeat sensor will detect the heartbeat of the wearer and consequently send the message to the loved ones of the wearer, when the heartbeat passes a boundary esteem. The loved ones of the wearer can get to the site to see the current area of the wearer whenever since the site is refreshed as and when changes happen. Thusly, the framework will manage the basic issues looked by the wearer and assist them with taking care of the issue with mechanically strong gear's and thoughts subsequently guaranteeing wellbeing of ladies just as kids.

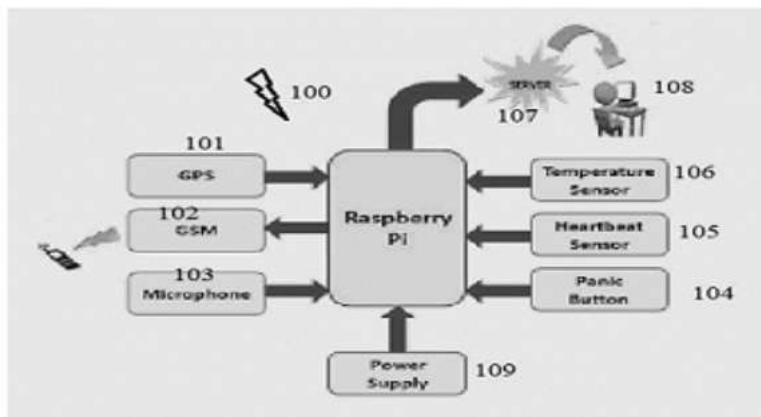


FIG.1: IoT based System for Women and Children Safety Block Diagram

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121057473 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : NUTRACEUTICAL PRODUCT COMBINIG WHEAT GRASS AND FENUGREEK.

<p>(51) International classification :A61K0036480000, A23L0033105000, A61K0031575000, A23L0007100000, A61K0045060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MAHATMA EDUCATION SOCIETY'S PILLAI COLLEGE OF ARTS, COMMERCE & SCIENCE (AUTONOMOUS) Address of Applicant :MAHATMA EDUCATION SOCIETY'S PILLAI COLLEGE OF ARTS, COMMERCE & SCIENCE (AUTONOMOUS), Dr. K. M. Vasudevan Pillai Campus Plot No. 10, Sector 16, New Panvel – 410 206 Maharashtra, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ms. Meenakshi Johri Address of Applicant :MAHATMA EDUCATION SOCIETY'S PILLAI COLLEGE OF ARTS, COMMERCE & SCIENCE (AUTONOMOUS), Dr. K. M. Vasudevan Pillai Campus Plot No. 10, Sector 16, New Panvel – 410 206 Maharashtra, India. (R) C-402, Bhoomi Harmony, Sector-18, Plot No- 82, Kamothe, Navi Mumbai, MH, India. Pin: 410209 -----</p> <p>2)Ms. Bindu Rajaguru Address of Applicant :MAHATMA EDUCATION SOCIETY'S PILLAI COLLEGE OF ARTS, COMMERCE & SCIENCE (AUTONOMOUS), Dr. K. M. Vasudevan Pillai Campus Plot No. 10, Sector 16, New Panvel – 410 206 Maharashtra, India. (R) C-501, Neel Vardhman. C.H.S, Sector-05, Plot No. 46, New Panvel, Navi Mumbai, MH, India. Pin: 410206. -----</p> <p>3)Mr. Gopakumar Pillai Address of Applicant :MAHATMA EDUCATION SOCIETY'S PILLAI COLLEGE OF ARTS, COMMERCE & SCIENCE (AUTONOMOUS), Dr. K. M. Vasudevan Pillai Campus Plot No. 10, Sector 16, New Panvel – 410 206 Maharashtra, India. (R) C-103, Tirupati C.H.S, Sector- 1E, Kalamboli, Navi Mumbai, MH, India. Pin: 410218. -----</p>
---	---

(57) Abstract :

ABSTRACT Our Invention “Nutraceutical Product Combinig Wheat Grass and Fenugreek” Wheatgrass is a normally rich wellspring of nutrients, minerals, amino acids, compounds, chlorophyll and dietary fiber. Wheatgrass is said to contain in excess of 90 unique nutritious substances and 19 amino acids including 9 fundamental amino acids (EAA). The pH (hydrogen atoms) worth of both human blood and wheatgrass is around 7.2 (basic) and is along these lines immediatly retained in blood and is profoundly valuable. Wheatgrass powder is high in dietary fiber and accordingly keeps up with the glucose level, the cholesterol level, forestalls obstruction and malignant growth. Fenugreek seeds are a rich wellspring of nutrients, minerals and cancer prevention agents, which assist with shielding the body's phones from harm brought about by shaky particles known as free extremists. It is referred to for its restorative characteristics like antidiabetic, insect cancer-causing, hypocholesterolaemia, cell reinforcement, and immunological exercises. Nutraceutical item consolidating wheat grass and fenug.

No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : IDENTIFY YOUR TARGET CUSTOMERS FOR DIFFERENT MARKETING STRATEGIES USING AI.

<p>(51) International classification :G06Q0030020000, G06F0016360000, G06Q0099000000, A61B0003107000, A61B0003117000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Prof. Mohsin Shaikh Address of Applicant :ASM Institute of Professional Studies, Pune Email: skmohsin1@rediffmail.com Mobile: 9604012473 ----- 2)Mr. Rizwan Munir Shaikh 3)Dr. Irfan Siddiqui 4)Dr. Zameer Ahmed S. Mulla 5)Prof. Dr. Haribhau R. Bhapkar 6)Dr. Pathan Mohd. Shafi A Karim Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prof. Mohsin Shaikh Address of Applicant :ASM Institute of Professional Studies, Pune Email: skmohsin1@rediffmail.com Mobile: 9604012473 ----- 2)Mr. Rizwan Munir Shaikh Address of Applicant :Manager, Seagate Technology, EON Free Zone, Cluster E, Kharadi, Pune, Maharashtra, India, Pincode 411014. E-mail: rizwanoracle@gmail.com Phone 9823125221 ----- 3)Dr. Irfan Siddiqui Address of Applicant :Sinhgad College of Engineering Pune, irfansiddi@gmail.com, M 9764903750 ----- 4)Dr. Zameer Ahmed S. Mulla Address of Applicant :R.M. Dhariwal Sinhgad Management Kondhapuri. Email id: zsmulla63@gmail.com Mobile number:9822406631 ----- 5)Prof. Dr. Haribhau R. Bhapkar Address of Applicant :MIT Art, Design and Technology University, MIT School of Engineering, Loni Kalbhor, Pune- 412201 Email: haribhau.bhapkar@mituniversity.edu.in Mobile No:9011227141 ----- 6)Dr. Pathan Mohd. Shafi A Karim Address of Applicant :MIT Art, Design and Technology University, MIT School of Engineering, Loni Kalbhor, Pune- 412201 Email: shafi.pathan@mituniversity.edu.in Mobile No:9822857658 -----</p>
---	--

(57) Abstract :
ABSTRACT Our Invention “Identify your target customers for different marketing strategies using AI “Problematic innovations like the web of things, large information examination, blockchain, and computerized reasoning have changed the manners in which organizations work. Of the relative multitude of problematic advancements, man-made reasoning (AI) is the most recent innovative disruptor and holds monstrous advertising change potential. Experts overall are attempting to sort out the best fit AI answers for their promoting capacities. Notwithstanding, a precise writing survey can feature the significance of man-made reasoning (AI) in advertising and outline future examination headings. The current review means to offer a thorough audit of AI in promoting utilizing bibliometric, applied and scholarly organization examination of surviving writing distributed somewhere in the range of 1982 and 2021. An extensive audit of 1,000 500 and eighty papers assisted with distinguishing the logical entertainers' presentation like most important creators and most pertinent sources. Besides, co-reference and co-event examination offered the applied and scholarly organization. Information bunching utilizing the Louvain calculation recognized exploration sub-subjects and future examination bearings to extend AI in advertising.



FIG.1: Identify your target customers for different marketing strategies using AI.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : MAGNETIC LEVITATION SYSTEM FOR INCREASING MAGNETIC FIELD INTENSITY THEREIN

(51) International classification :B60L0013040000, F16C0032040000, B60L0050510000, F04C0029000000, H02K0007090000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Indian Institute of Technology Bombay
 Address of Applicant :IIT Bombay, Powai, Mumbai, Maharashtra, India - 400076 -----
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Mayank Manohar
 Address of Applicant :Department of Electrical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India -----
2)Naveen Kumar Endla
 Address of Applicant :Department of Electrical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India -----
3)Amarkumar Ayodhyasingh Kushwaha
 Address of Applicant :Department of Electrical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India -----
4)Baylon Godfrey Fernandes
 Address of Applicant :Department of Electrical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India -----

(57) Abstract :
 ABSTRACT MAGNETIC LEVITATION SYSTEM FOR INCREASING MAGNETIC FIELD INTENSITY THEREIN
 Embodiments herein disclose a magnetic levitation system that is compact and in which pole pieces of alternating polarity and sizes of a Halbach PM rotor is utilized for driving the rotor without the need for an external motor to rotate the rotor. The magnetic levitation system increases the magnetic field intensity in the inner region of the Halbach rotor. FIG. 3

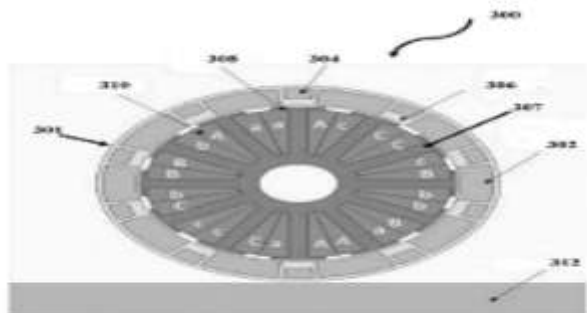


FIG. 3

No. of Pages : 36 No. of Claims : 12

(54) Title of the invention : A ROBOTIC GRIPPER FOR SAFE AND COGNITIVE GRIPPING

(51) International classification :B25J0015100000, B25J0015000000, B25J0015020000, B25J0009160000, B25J0013080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Indian Institute of Technology Bombay
 Address of Applicant :IIT Bombay, Powai, Mumbai, Maharashtra, India - 400076 -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Tania Mukherjee
 Address of Applicant :Department of Metallurgical Engineering & Materials Science, Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India -----

2)Dipti Gupta
 Address of Applicant :Department of Metallurgical Engineering & Materials Science, Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India -----

3)Ashok Kushwaha
 Address of Applicant :Department of Metallurgical Engineering & Materials Science, Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India -----

(57) Abstract :

ABSTRACT A ROBOTIC GRIPPER FOR SAFE AND COGNITIVE GRIPPING The embodiments herein achieve a robotic gripper which offers slippage free, damage controlled and secured gripping of an irregular object. Further, the robotic gripper which achieves cognitive tasks using fringing field based capacitance sensor array which is integrated on a robotic gripper palm using elastomeric Eco-flex rear cladding for enhanced gripping. Moreover, the robotic gripper uses a dual capacitive sensor array platform to execute proximity sensing during shape estimation and identification of agreeable pair of gripping face of the object and pressure sensing to measure the gripping pressure when the object is gripped by optimum gripping force thereby ensuring slippage free gripping by continuously updating the gripping force when required. Also, the embodiments herein achieve a method of providing a robotic gripper which offers slippage free, damage resistant and secured gripping of an irregular object. FIG. 10

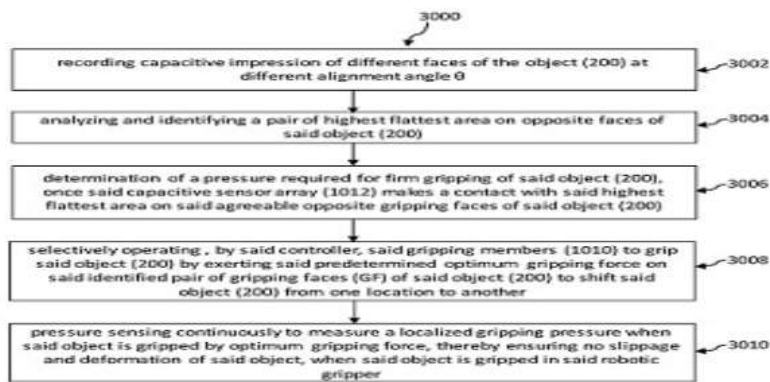


FIG. 10

No. of Pages : 63 No. of Claims : 16

(54) Title of the invention : SYSTEM AND METHOD FOR CONTROLLED EXPOSURE OF THE UV RAYS ONTO CONTAMINATED SPACE

(51) International classification :G01K0003040000, G06Q0010080000, G01R0033000000, B60W0050000000, A61M0005240000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Joojanta Technologies Private Limited
 Address of Applicant :S. No. 168/2, Nisarg Nirmiti BLDD/2, FL601, PIMSAU, Pune - 411027, Maharashtra, India. -----

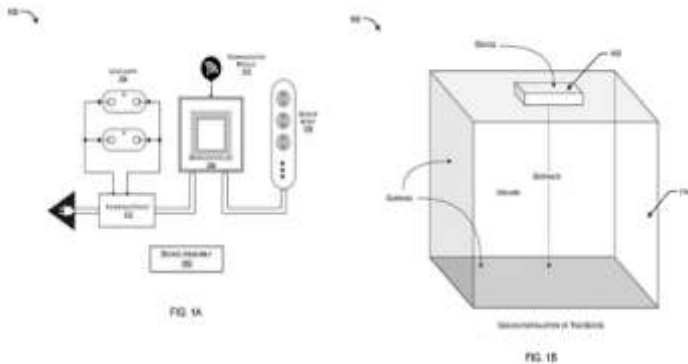
Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)KARKARE, Prateek
 Address of Applicant :L-67 Harshwardhan Nagar, Bhopal - 462003, Madhya Pradesh, India. -----

2)NAYAK, Rahul
 Address of Applicant :G007, SJ East Breeze, KSVK School Road, Hagadur Village, Whitefield, Bengaluru - 560066, Karnataka, India. -----

(57) Abstract :

The present disclosure relates to a system (100) for performing controlled exposure of UV rays onto a target space, the system includes a microcontroller (108) operatively coupled to an array of sensors (106), and configured to receive the set of physical attributes of the target space, analyse the received set of physical attributes to extract a set of values, obtain history of UV exposures in form of individual and cumulative time durations, obtain pre-calibrated time-dependent deterioration of the power output of one or more UV lamps (104) and calculate a predetermined period of time to allow delivery of the predetermined dosage of the UV rays onto the target space, wherein, the microcontroller is configured to operate the one or more UV lamps for the predetermined period of time to allow delivery of the predetermined dosage of the UV rays.



No. of Pages : 26 No. of Claims : 10

(54) Title of the invention : HIGHLY REFLECTING COATINGS ON FRONT WINDSHIELD OF THE CAR

(51) International classification :B60J0003020000, B60J0003060000, B60J0003040000, G02B0005280000, C03C0003066000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Nikam Ravindra Rajaram
 Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI COLLEGE OF ENGINEERING, Dr K M Vasudevan PILLAI Campus, Sector 16, New Panvel, NAVI Mumbai -410206, MH, India (R) A-201/Building No.-1, Krishna Vandana CHS ,Vichumbe Village, New Panvel (E), 410206 -----

2)Nikam Sonali Ravindra
3)Nikam Vaishnavi Ravindra
4)Nikam Vishwanath Anand
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Nikam Ravindra Rajaram
 Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI COLLEGE OF ENGINEERING, Dr K M Vasudevan PILLAI Campus, Sector 16, New Panvel, NAVI Mumbai -410206, MH, India (R) A-201/Building No.-1, Krishna Vandana CHS ,Vichumbe Village, New Panvel (E), 410206 -----

2)Nikam Sonali Ravindra
 Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI COLLEGE OF ENGINEERING, Dr K M Vasudevan PILLAI Campus, Sector 16, New Panvel, NAVI Mumbai -410206, MH, India (R) A-201/Building No.-1, Krishna Vandana CHS ,Vichumbe Village, New Panvel (E), 410206 -----

3)Nikam Vaishnavi Ravindra
 Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI COLLEGE OF ENGINEERING, Dr K M Vasudevan PILLAI Campus, Sector 16, New Panvel, NAVI Mumbai -410206, MH, India (R) A-201/Building No.-1, Krishna Vandana CHS ,Vichumbe Village, New Panvel (E), 410206 -----

4)Nikam Vishwanath Anand
 Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI COLLEGE OF ENGINEERING, Dr K M Vasudevan PILLAI Campus, Sector 16, New Panvel, NAVI Mumbai -410206, MH, India (R) Shramtirth Nivas ,103/23 ,Chaitanyanagar, Near Professor Colony ,Savedi, Ahmednagar-414003 -----

(57) Abstract :
 ABSTRACT Our Invention "Highly reflecting coatings on front windshield of the car" The most noticeable issue looked by pretty much every driver around evening time is the glare from the headlights of the vehicle coming from the opposite side with high serious bars. A splendid light coming from inverse course falls straightforwardly on driver's eyes causes the deficiency of profundity discernment and fringe vision. This causes the vast majority of the mishaps. This issue can be survived assuming front windshield is covered with profoundly reflecting surfaces like cryolite, Magnesium Fluoride (MgF2) whose refractive index (R.I.) is closer to 1.22 for example about square root of R.I. of glass and keeping thickness of the covering half of the wavelength of noticeable (visible) light (2500 Å). This covering fulfills the state of useful impedance (Constructive Interference) and because of which the vast majority of the light gets reflected from the windshield. This will decrease the glare of light coming from inverse side of the vehicle and it will make vehicle driving simpler around evening time.

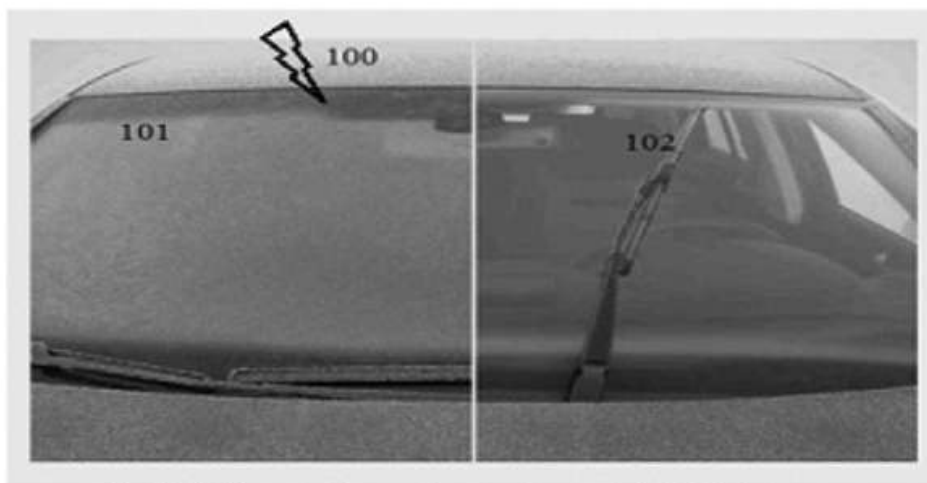


Fig.1: Highly reflecting coatings on front windshield of the car

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : IMAGE MOSAIC USING CORNER DETECTION AND HOMOGRAPHIC ESTIMATION

(51) International classification :G06T0003400000, G06T0003000000, G06K0009200000, G06T0007300000, G06T0007330000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Harshal Patil
Address of Applicant :C 16 Pushpalata Apt, Nandivli Road, Dombivali East ---

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Chetana Patil
Address of Applicant :Research Scholar, Jaipur National University, Jaipur-Agra Bypass, near New RTO office, Jagatpura, Jaipur, Rajasthan 302017, India. -----

2)Richa Chouhan
Address of Applicant :Flat No. C2-904, Colonnade Society, Tukaram Nagar, Kharadi, Pune - 411014, Maharashtra, India. -----

3)Dr. Harshal Patil
Address of Applicant :Associate Professor, Ajeenkya DY Patil University, School of Engineering, Charoli Bk.via Lohegaon, District Pune – 412 105 Maharashtra, India. -----

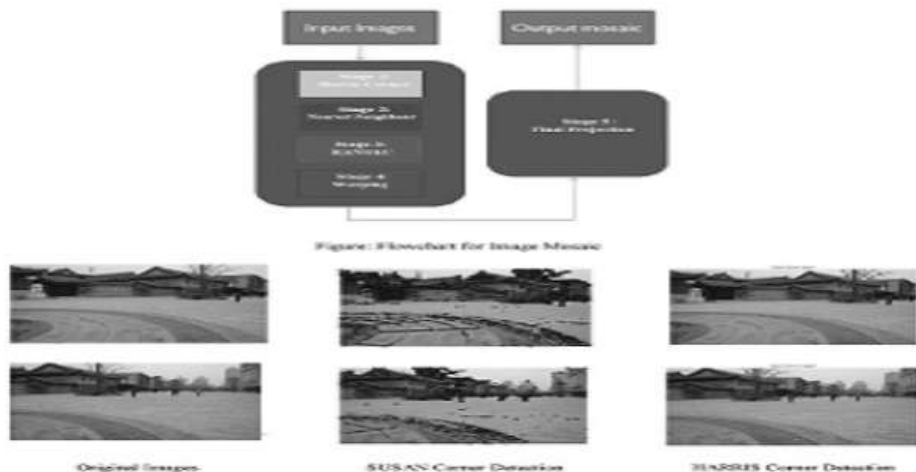
4)Dr. Raj Gaurav Mishra
Address of Applicant :Associate Professor, Ajeenkya DY Patil University, School of Engineering, Charoli Bk.via Lohegaon, District Pune – 412 105 Maharashtra, India. -----

5)Dr. Ranjan Mishra
Address of Applicant :Associate Professor, University of Petroleum and Energy Studies, ENERGY ACRES, UPES, BIDHOLI, via, Prem Nagar, Uttarakhand 248007, India. -----

(57) Abstract :

The act of integrating two or more photographs of the same view is known as mosaicing. Its goal is to merge photos in such a way that there is no obstructive barrier between overlapping regions. An image mosaic is a simulated composition made up of a sequence of photos that can be made by examining the geometric relationships between them. The emphasis is on creating a mosaic image with as few deviations from the original photos as feasible. Image mosaicing is an essential topic in the field of Image Base Rendering, as well as a key approach in the reconstruction of the Virtual Environment. A direct method analyses all of the photos' pixel intensities, whereas a feature-based strategy extracts specific properties from the images in order to identify a link between them. Direct techniques offer the advantage of using all available data and so providing very precise registration, but their real-time implementation appears to be severely constrained. The majority of existing feature-based mosaic algorithms finds feature points from images using characteristics such as edges and corners. Corner points are local structures with lot of information in images. Extracting corners is significant to image processing. reducing much of calculations. In proposed method of Image mosaic, two images are taken as input and corners in both images are detected using Harris Corner detector. After finding corners, false corners are removed in both images. Homography is used to find mapping between these two images. Images are matched to get panoramic view from multiple warped images. The combination of two images into one continuous image is generated as output of image mosaic.

Image Mosaic using Corner Detection and Homographic Estimation
DRAWINGS



(54) Title of the invention : A SYSTEM AND A METHOD FOR ELECTRICITY THEFT DETECTION

(51) International classification :G01R0031400000, G06N0003040000, G08B0013240000, G01R0022100000, G01D0004000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. PRIYAMVADA CHANDEL
Address of Applicant :121 Soumya Estates, BDA Road, Awadhपुरi, Bhopal-462022, India -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. PRIYAMVADA CHANDEL
Address of Applicant :121 Soumya Estates, BDA Road, Awadhपुरi, Bhopal-462022, India -----

(57) Abstract :

ABSTRACT A SYSTEM AND A METHOD FOR ELECTRICITY THEFT DETECTION A system (100) for electricity theft detection, the system (100) comprising: smart electrical meters (104), having current and voltage detectors, configured to detect electrical parameters, a processing module (102) associated with the smart electrical meters (104) configured to receive the electrical parameters in a predetermined time interval, extract convolutional features from the electrical parameters using CNN layers, classify the extracted convolutional features into one or more abnormal and tamper events using BiLSTM, and identify an abnormal and tamper event as theft of electricity based on the extracted convolutional features. The abnormal and tamper event is identified as theft on occurrence of the abnormal and tamper event for a predetermined time limit and repeat for a predetermined times in a fixed time interval, generate alerts and messages based on the identified abnormal and tamper events or the theft, and a user interface (106) configured to display the alerts and messages. [FIG. 1]

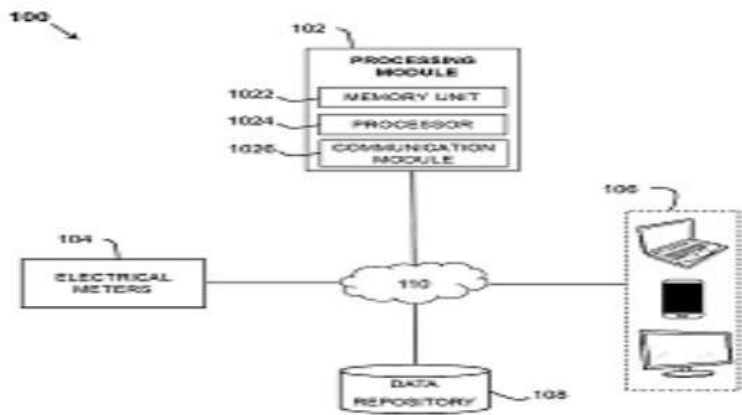


FIG. 1

No. of Pages : 33 No. of Claims : 10

(54) Title of the invention : VEHICLE SPEED AUTOMATICALLY LOCK IF OBJECTS DETECTS UNDER DEFINED DISTANCE.

(51) International classification :G08G0001160000, G01S0013931000, B60W0030160000, B60R0025200000, B60T0008320000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Mrs. Vaishali Kumbhar
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S PILLAI COLLEGE OF ARTS, COMMERCE & SCIENCE (AUTONOMOUS), Dr. K. M. Vasudevan Pillai Campus Plot No. 10, Sector 16, New Panvel – 410 206 Maharashtra, India. -----

2)Mr Amey Marathe
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Mrs. Vaishali Kumbhar
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S PILLAI COLLEGE OF ARTS, COMMERCE & SCIENCE (AUTONOMOUS), Dr. K. M. Vasudevan Pillai Campus Plot No. 10, Sector 16, New Panvel – 410 206 Maharashtra, India. -----

2)Mr Amey Marathe
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S PILLAI COLLEGE OF ARTS, COMMERCE & SCIENCE (AUTONOMOUS), Dr. K. M. Vasudevan Pillai Campus Plot No. 10, Sector 16, New Panvel – 410 206 Maharashtra, India. -----

(57) Abstract :
 ABSTRACT Our Invention “Vehicle Speed Automatically Lock if objects Detects under Defined Distance “The vehicle will have a system which automatically lock the vehicle speed less than 40 KMPH when there are objects at distance of less than 500 m in the vicinity of the vehicle. The sensor (LIDAR) in the system will sense the objects in the vicinity of the vehicle. The object may be moving or at rest. After sensing the object, sensor will send the information to electronic control module (ECM). In ECM the data from the sensor processed and result signal send to actuator. The actuator will lock the vehicle speed at less than 40 KMPH. If There will not be any object in the vicinity of the vehicle, then the unlocking of the vehicle speed will have done by actuator. The system will have one sensor to detect the object, Electronic control module, and actuator which will lock the vehicle speed.

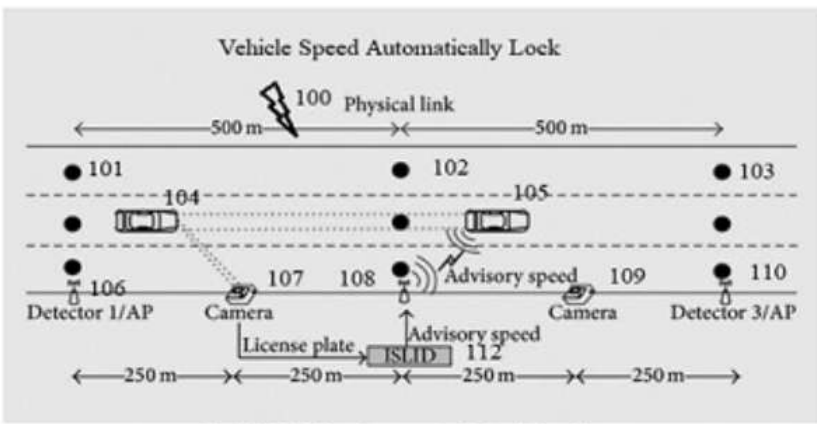


Fig 1: Vehicle Speed Automatically Lock Flow Chart

No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : SLOPE BOTTOM TUNED LIQUID DAMPER FOR IMPROVING PERFORMANCE OF FLAT BOTTOM TUNED LIQUID DAMPER.

(51) International classification :B05C0017005000, H01S0003081000, G01T0001110000, F16F0009100000, G06F0021550000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. G R Patil
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI, TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. -----

2)Dr. K D Singh
3)Raju Narwade
4)Karthik Nagarajan
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. G R Patil
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI, TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. -----

2)Dr. K D Singh
 Address of Applicant :Professor in Civil Engineering, Indian Institute of Technology (I.I.T), Guwahati, Assam 781039, India. -----

3)Raju Narwade
 Address of Applicant :Department of civil engineering, MAHATMA EDUCATION SOCIETY’S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI, TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA -----

4)Karthik Nagarajan
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI, TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA, -----

(57) Abstract :
 ABSTRACT Our Invention “Slope bottom tuned liquid damper for improving performance of flat bottom tuned liquid damper” is to alleviate harm of constructions and save the life during a tremor occasion, different measures are being thought of and utilization of primary control gadgets is one of them. In this development, an endeavor has been made to efficiently examine the exhibition of underlying control gadget in particular, tuned fluid damper (TLD) for controlling the powerful reaction of built up concrete (RC) building. Dynamic examination of a 10 story RC outlined design with both level and incline (W or focal slant) base rectangular TLDs, exposed to five seismic tremor time accounts have been performed. Results have been introduced as impact on tuning proportion, fluid mass decrease and relocation decrease because of focal slant at lower part of TLD. Investigations have been performed for focal incline point going from 5-14°. In view of the examination, it has been seen that tuning proportion of TLD diminishes with increment of focal incline point, the variety of fluid mass decrease with slant point has been viewed as straight and decrease in dislodging of design increments with expansion in focal slant poin

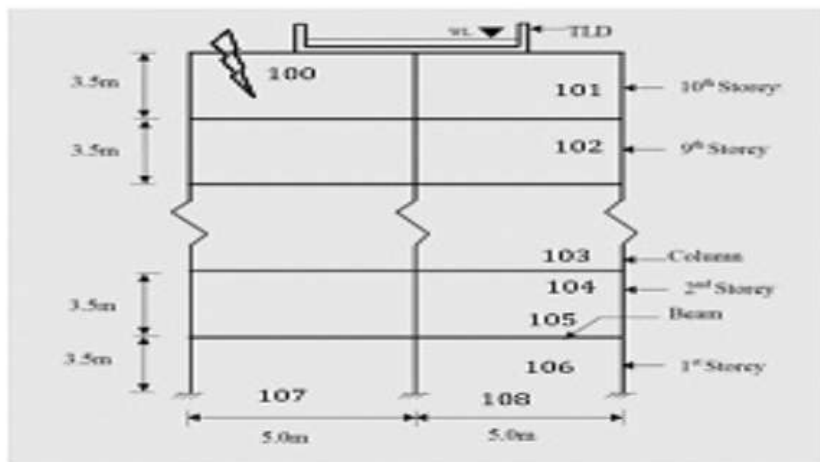


Figure 1. Structural model of a 2D representative frame

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : NEW SCRUBBER FOR CLEANING AND WASHING OF STAINLESS TIFFIN BOX AND UTENSILS/POT USED IN COOKER.

(51) International classification :A47L0017040000, A47L0015000000, A47J0043280000, A47L0017000000, B67B0007780000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. G R Patil
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI, TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. -----

2)Raju Narwade
3)Karthik Nagarajan
4)Prof.(Dr.) B.K.Sarkar
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. G R Patil
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI, TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. -----

2)Raju Narwade
 Address of Applicant :Department of civil engineering, MAHATMA EDUCATION SOCIETY’S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI, TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA -----

3)Karthik Nagarajan
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI, TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA -----

4)Prof.(Dr.) B.K.Sarkar
 Address of Applicant :MAHATMA EDUCATION SOCIETY’S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI, TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. -----

(57) Abstract :
 ABSTRACT Our Invention “New scrubber for cleaning and washing of stainless tiffin box and utensils/pot used in cooker” is a Tiffins/utensils/pots used to put one tiffins/utensils/pots over other have a flat half circle outside projection/space of various width relying upon size of tiffin/utensil/pot. Within piece of this projection/opening, draw in/store food particles and these food particles are probably going to be deteriorated. This inside piece of space is hard to clean and wash with present accessible scrubbers. Because of this, clean conditions are hard to keep up with. Another sort of scrubber is proposed for settling previously mentioned issue. This scrubber comprises of change to the current scrubber. In the current scrubber a half circle projection/segment of differing distance across can be given. The variable measurement of this crescent projection/stip will be acclimate to within width of half circle opening gave to tiffin/utensils/pots, during cleaning and washing. While cleaning and washing the tiffin/utensil/pot, the crescent projection/stip recommended in the development can be squeezed inside the half circle opening gave on the tiffin/utensil/pot and tiffin/utensil/pot can be cleaned/washed without any problem.

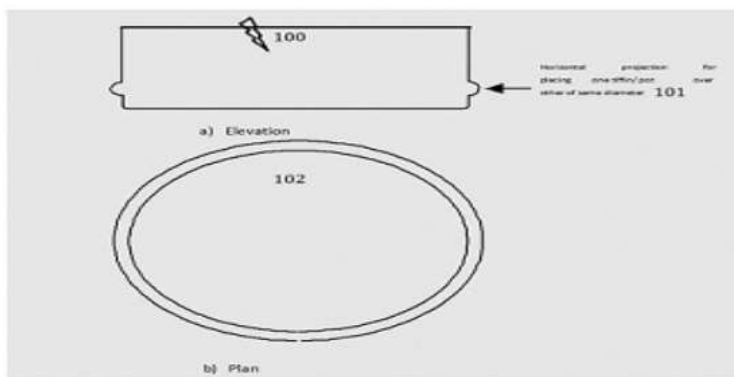


Figure 1: Diagrams of tiffin/ utensil/pot

(54) Title of the invention : SYSTEM AND METHOD FOR QUESTION GENERATION BASED ON BLOOM’S TAXONOMY AND ASSESSMENT GENERATION.

<p>(51) International classification :G06F0016182000, G06F0016280000, G16H0010200000, G16H0050200000, G06F0040560000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Prof. Kavita Pankaj Moholkar Address of Applicant :10-Elite, Bldg A2, Flat No 302, Kadam Jagtap Associates, Near PCMC Badminton Hall, Katepuram Chowk, Pimple Gaurav, Pune-411027, MH, India. -----</p> <p>2)Dr. Suhas Haribhau Patil 3)Dr. Shashank Joshi 4)Dr. Uday Chandrakant Patkar 5)Prof. Vinodkumar Hemanth Bhutnal 6)Prof. Dhanaraj Somaling Jadhav 7)Mrs. Rashna Golande 8)Dr Rushali Anandrao Deshmukh 9)Dr. Saurabh Saoji 10)Prof. A. H. Hingmire Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prof. Kavita Pankaj Moholkar Address of Applicant :10-Elite, Bldg A2, Flat No 302, Kadam Jagtap Associates, Near PCMC Badminton Hall, Katepuram Chowk, Pimple Gaurav, Pune-411027, MH, India. -----</p> <p>2)Dr. Suhas Haribhau Patil Address of Applicant :48, Swarup housing colony, mama Deshpande marg, anandnagar, sinhadag road, Pune 411051, mh, India. -----</p> <p>3)Dr. Shashank Joshi Address of Applicant :: H 904 Ruturang society Aranyeshwar Road Parvati Pune 411009 -----</p> <p>4)Dr. Uday Chandrakant Patkar Address of Applicant :A - 24 kunal nest manik colony pimpri chinchwad link Road near darshan Hall Chinchwad pune 411033 -----</p> <p>5)Prof. Vinodkumar Hemanth Bhutnal Address of Applicant :Vijayanagar Colony, Behind IB, Ward No 2, ILKAL(Rural), Tq: Hunagund, Dt: Bagalkot, Karnataka-587125 -----</p> <p>6)Prof. Dhanaraj Somaling Jadhav Address of Applicant :Buchade Nagar, Near Sai Sparsh Apartment, Marunji, Tal Mulshi Pune-411057 -----</p> <p>7)Mrs. Rashna Golande Address of Applicant :Omkar Colony, Rahatani Road, Shringar, Pimpri, Pune-411017 -----</p> <p>8)Dr Rushali Anandrao Deshmukh Address of Applicant :Flat no. 5 Vaishnavi Heights, c-wing, s.no.34/3/1, Phalanager, Ambegaon bk. Pune 411046 -----</p> <p>9)Dr. Saurabh Saoji Address of Applicant :Sai ambience, 2B/ B wing, flat num 201,pimple saudagar, Near NKGSB bank, kunal icon road, Pimple saudagar, pune, 411027 -----</p> <p>10)Prof. A. H. Hingmire Address of Applicant :B 604 Teerth Towers, Baner , Pune-411021 -----</p>
--	---

(57) Abstract :

ABSTRACT Our invention "System and Method for Question Generation based on Bloom's Taxonomy and Assessment generation". is a development manages distinguishing the inquiry type dependent on Blooms Taxonomy which not tended to by past creations and also the model assists with recognizing Cognitive area (mental abilities or information), Affective space (development in sentiments or feelings or demeanor), Psychomotor space. The total framework is executed utilizing lambda engineering. The cluster layer is executed utilizing Apache Hadoop and Apache Hive. Our framework is isolated into two fundamental modules, Question characterization and Question age. Being referred to characterization we utilize the highlights and contrast it and Blooms' action word rundown and grouped likewise. Being referred to age, just those sentences will be chosen which are significant in the passage on which questions can be produced. Hence, positioning of the sentences is done rather than positioning the inquiries. Then, at that point, contingent upon the sentence type, the outlining of the sentence the fitting inquiries are created. The inquiry age module produces inquiries from straightforward sentences just as perplexing sentences utilizing Bloom's action word. Complex sentences are those sentences which contain talk connective for example conjunctions. It will likewise create outline sort of inquiries.

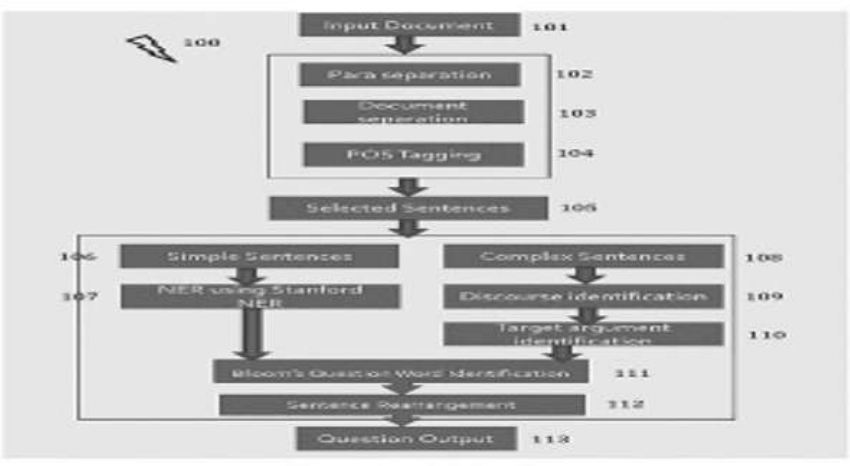


Figure 1: Question generation

No. of Pages : 19 No. of Claims : 5

(54) Title of the invention : PESTICIDE SPRAYER & COVID SANITIZATION INTELLIGENT DRONE.

(51) International classification :A01M0007000000, B64C0039020000, B64D0001180000, B64C0027080000, A61L0002180000

(86) International Application No Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA

(62) Divisional to Application Number Filing Date :NA

(71)Name of Applicant :
1)Dr. Kishor B. Waghulde
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Pimpri, Pune, MH, India. -----
2)Dr. Atul Ashok Patil
3)Dr. Manish Deshmukh
4)Dr. Amit Sudhakar Chaudhary
5)Mrs. Sarika Atul Patil
6)Dr. Tushar M Patil
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Dr. Kishor B. Waghulde
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Pimpri, Pune, MH, India. -----
2)Dr. Atul Ashok Patil
 Address of Applicant :Professor, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune, MH, India. -----
3)Dr. Manish Deshmukh
 Address of Applicant :Associate Professor, Mechanical Engineering, AISSMS College of Engineering, 1 Kennedy Road, Near RTO Square, Pune, MH, India. ----
4)Dr. Amit Sudhakar Chaudhary
 Address of Applicant :Assistant Professor, Mechanical Engineering, Dr. D Y Patil Institute of Technology, Pimpri, Pune, MH, India. -----
5)Mrs. Sarika Atul Patil
 Address of Applicant :Assistant Professor, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune, MH, India. -----
6)Dr. Tushar M Patil
 Address of Applicant :Principal, G H Raisonni Polytechnic, Gat. No-269, At post Sawkheda, Jalgaon, MH, India. -----

(57) Abstract :
 ABSTRACT Our Invention Pesticide Sprayer & COVID Sanitization Intelligent Drone is a technologies involved in today’s Agriculture, out of which spraying pesticides using drones is one of the integrated technologies. The World Health Organization estimated as more than one million cases of ill affected when spraying the pesticides in the crop , other any field manually so our design a drone mounted with spraying device having 12.5 V pump, 6.6 Litre storage capacity tank,32-pixel 4-nozzles to atomize in very fine spray , an I-octocopter configuration faxable frame ,landing frame, 8-Brushless Direct Current motors with propellers to produce required thrust about 38.4 KG, 99% RPM and battery of current capacity 24000-mAh and 22.22-V to meet necessary current and voltage requirements. The camera and transmitter can also be fixed in the drone for monitoring the advan ed spraying process and also for checking pest attacks on or air virus and the pesticide spraying drone decrease the time, number of man-power and cost of pesticide application and also a type of drone can also be used to spray disinfectant liquids over buildings, water bodies and in highly covid-19 infected populated areas by changing the flow discharge of the pump.

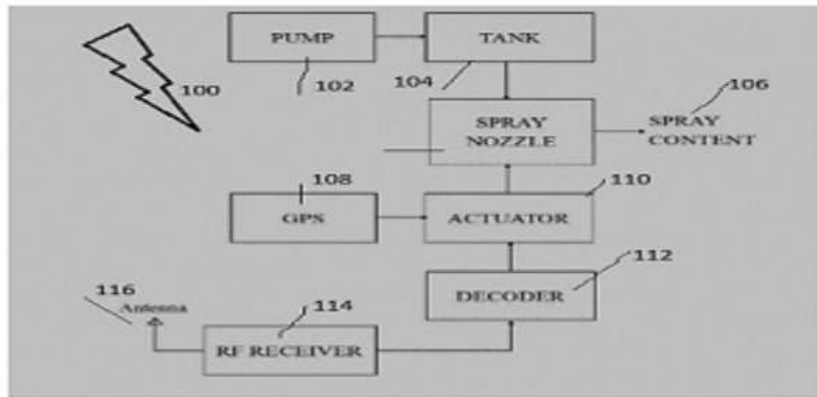


Fig.1: Pesticide Sprayer & COVID Sanitization Intelligent Drone Flow.

No. of Pages : 13 No. of Claims : 4

(54) Title of the invention : PAVER BLOCKS OF CONCRETE WITH RECYCLED AGGREGATES AND PARTIAL REPLACEMENT OF CEMENT WITH ALCCOFINE

<p>(51) International classification :C04B0018160000, C04B0028000000, C08L0067020000, C04B0018120000, C04B0111200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Miss. Madhulika Sinha Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. ----- 2)Adith Selvaraj 3)Vishnu Panicker 4)Amol Niladhe 5)Prathamesh Pawar Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Miss. Madhulika Sinha Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. ----- 2)Adith Selvaraj Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. ----- 3)Vishnu Panicker Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. ----- 4)Amol Niladhe Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. ----- 5)Prathamesh Pawar Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. -----</p>
---	---

(57) Abstract :
ABSTRACT Increase in construction activities necessitates the utilization of raw materials in Concrete, particularly coarse aggregates which creates a threat to the untimely depletion of natural resources. Possible replacement materials would assist to slow down the risk of early exhaustion of natural resources. Recycled Coarse Aggregates (RCA) can supplement the natural coarse Aggregates (NCA) which plays a crucial part in concrete. Past examinations demonstrate that the properties of RCA concrete are substandard in quality contrasted with NCA concrete. This article endeavors to ponder the change of properties of RCA concrete with the expansion of mineral admixture named Alccofine. The exploratory examination was done to assess the change of the compressive quality of RCA concrete joining Alccofine. The Experimental investigation was carried out on six concrete mixes with a target characteristic strength of 30 MPa. Natural Coarse Aggregates were replaced by 25% and 50% of recycled. Coarse Aggregates and Cement by 10 % Alccofine. Compressive strength and Flexural Tensile Strength was found out. It was concluded that use of Alccofine was advantageous in concrete made with recycled concrete aggregates. Increase in compressive strength was observed by replacing cement with 10 % Alccofine.

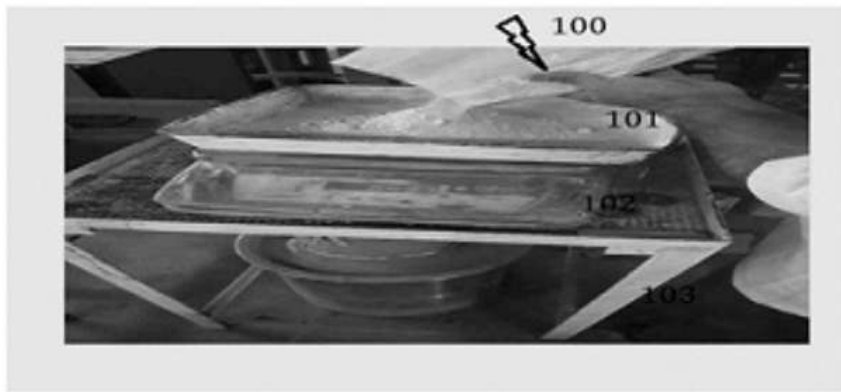


Fig.1: Alccofine 1203 by M/S Counto Microfine Products.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : RADIO-FREQUENCY IDENTIFICATION- WAVE-SHIELD

(51) International classification :G06K0017000000, A01N0037200000, G06K0019077000, G06K0019073000, A01N0037460000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Ms. Vina Madhavrao Lomte
 Address of Applicant :flat 1205, G wing, 38 Park Majestic, Wadachi Wadi road, Undri-PUNE -411060 -----

2)Mr. Shubham Shantaram Patil
3)Mr. Pratik Narsing Jadhav
4)Mrs. Sonal Sachin Fatangare
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Ms. Vina Madhavrao Lomte
 Address of Applicant :flat 1205, G wing, 38 Park Majestic, Wadachi Wadi road, Undri-PUNE -411060 -----

2)Mr. Shubham Shantaram Patil
 Address of Applicant :Saikrupa", Plot No 5A, Shri Gokul Housing Society, Near Mhatre Bridge, Navi Peth, Pune, 411030 -----

3)Mr. Pratik Narsing Jadhav
 Address of Applicant :A408, West Coast Park, Shivane, Pune - 411023 -----

4)Mrs. Sonal Sachin Fatangare
 Address of Applicant :B103, Ganesh Graceland, Near SBI, Mumbai bypass highway, Ambegaon Bk, Pune_411046. -----

(57) Abstract :

ABSTRACT Our Invention "Radio-Frequency Identification" a term which is as of now in broad use in monetary and tech situated associations. Visas, Office access cards, Fast Tags and so forth are a portion of the well-known utilizations of these RFID Authentication cards around the world. As we are moving gigantically towards tech freak society, the apprehension about losing our classification turns into a preeminent issue. It very well may be as our actual personality or monetary confirmation character. Likewise, an association ought to have an appropriate security component for inward access. In this day and age as advances are preparing and tracking down its ways of vanquishing the world the other dark side of these advances are additionally attempting to destroy the authenticity of these frameworks. From 2000 to introduce the taking of RFID information has been expanded which brought about millions and billions of dollars' misfortune to different associations and general people groups. To secure this sort of remote RFID frameworks numerous anticipations has been presented like utilizing an aluminum covered wallets, however the issue with it is that these models are not financially savvy as we realize that aluminum metal is bauxite which is refined later which alumina gets made and further by electrolysis and filtration aluminum is removed. This system is extremely tedious and furthermore costly in aftereffect of which the expense of these RFID cases expands We are proposing answer for this RFID Data burglary on access cards by making such a RFID card holding case which isn't yet been found and by utilizing assortments of productive carbon metal piece we have presented a gotten defense which can endure the security of RFID cards.

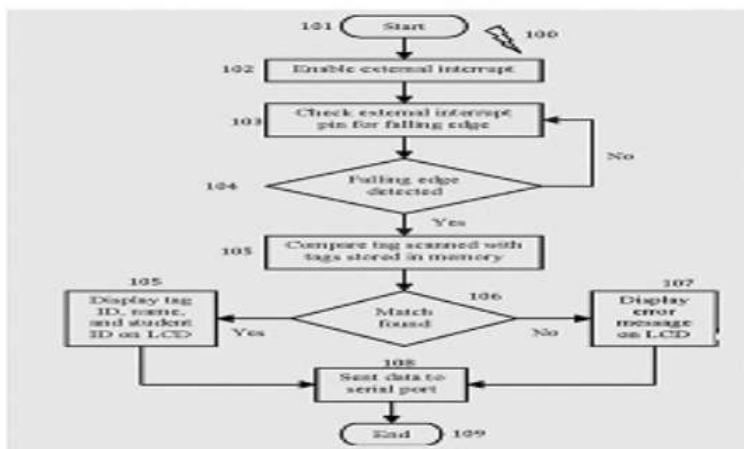


FIG. 1: Radio-Frequency Identification, Flow Chart.

No. of Pages : 16 No. of Claims : 7

(54) Title of the invention : PISTON FOR ENGINE

(51) International classification :F02F0003000000,
F02F0001200000,
F02F0003100000,
F16C0033100000,
F16J0001000000

(31) Priority Document No :2019-161771

(32) Priority Date :05/09/2019

(33) Name of priority country :-----

(86) International Application No :PCT/JP2020/033341
Filing Date :02/09/2020

(87) International Publication No :WO 2021/045129

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

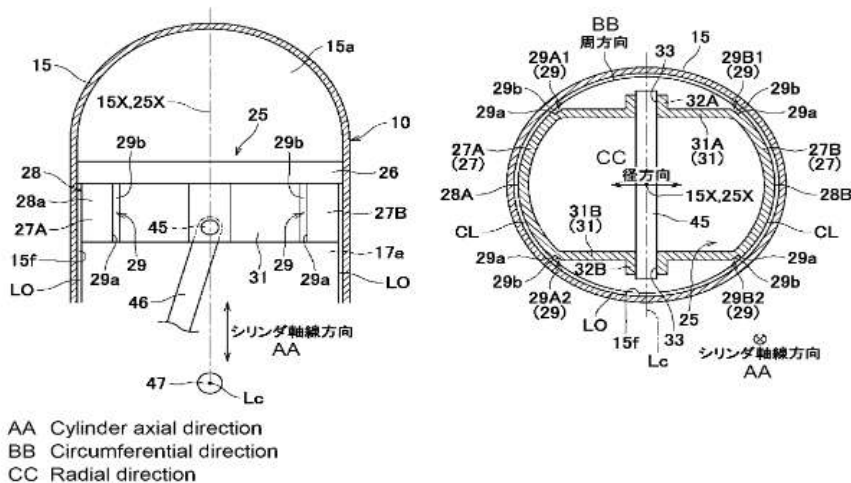
(71)Name of Applicant :
1)YAMAHA HATSUDOKI KABUSHIKI KAISHA
Address of Applicant :2500, Shingai, Iwata-shi, Shizuoka 4388501 -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)FUJITA, Hideyuki
Address of Applicant :c/o Yamaha Hatsudoki Kabushiki Kaisha, 2500, Shingai, Iwata-shi, Shizuoka 4388501 -----

(57) Abstract :

At least one of a pair of piston skirt parts (27) of a piston (25) for an engine has recesses (29) at both ends in the circumferential direction thereof, and the outer circumferential surface (28) of the piston skirt part (27) has a sliding surface (28a) as well as a stepped surface (29a) and a facing surface (29b) that form the recesses (29). The sliding surface (28a) forms an oil film between the sliding surface (28a) and the inner wall surface (15f) of a cylinder hole (17a). The stepped surface (29a) is connected to the sliding surface (28a) and constitutes a step formed at a depth at which the oil film between the sliding surface (28a) and the inner wall surface (15f) of the cylinder hole (17a) can be cut. The facing surface (29b) is connected to the stepped surface (29a) and faces the inner wall surface (15f) of the cylinder hole (17a). As a result thereof, it is possible to reduce sliding resistance when the pair of piston skirt parts (27) are deformed and increase the lengths in the circumferential direction of the outer circumferential surfaces (28) of the pair of piston skirt parts (27) and the flexibility of design of the oil film area to be secured.

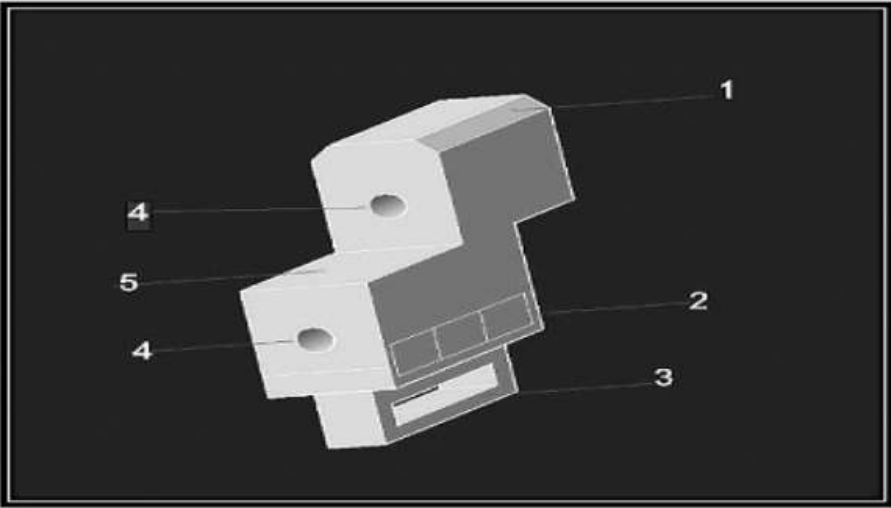


No. of Pages : 40 No. of Claims : 6

(54) Title of the invention : SMART ECO-FRIENDLY E-WASTE DIVIDER BLOCK (SEED)

<p>(51) International classification :C04B0018240000, H05K0003300000, G01N0001340000, B28C0007040000, F02B0001040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Ms. CHAITALI R. KULKARNI Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI, TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. ----- 2)Mr. RAJU NARWADE 3)Mr. KARTHIK NAGARAJAN 4)DR. G R PATIL Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Ms. CHAITALI R. KULKARNI Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI, TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. ----- 2)Mr. RAJU NARWADE Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI, TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. ----- 3)Mr. KARTHIK NAGARAJAN Address of Applicant : MAHATMA EDUCATION SOCIETY'S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI, TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA. ----- 4)DR. G R PATIL Address of Applicant :MAHATMA EDUCATION SOCIETY'S, PILLAI HOC COLLEGE OF ENGINEERING &TECHNOLOGY RASAYANI, TALUKA PANVEL, DIST, NAVI MUMBAI, MAHARASHTRA 410207, INDIA -----</p>
---	--

(57) Abstract :
ABSTRACT Our Invention "Brilliant Eco-Accommodating E-squander Divider Block (SEED)" Universally for advancement and improvement of any country, the foundation request is right now expanding at a fast rate. Concrete is the most fundamental and fundamental part of any foundation. The interest of substantial will be expanding quickly and subsequently to vanquish the interest of normal materials, for example, total and concrete, need to observe substitution of these materials is most extreme need. Then again, the age and the reproduction of electronic waste (E-squander) is an arising issue that is creating significant ecological issues. In this way, to secure our inclination, our examination depends on development of a shrewd item named as SEEDs where we will attempt to supplant some level of coarse total with an E-Waste like PCB (Printed Circuit Board). The utilization of squashed E-squander materials as customary concrete and different materials in building development assists with lessening the expense of substantial assembling. The goal of this examination is to make a SEED which won't just upgrade the expense of development yet in addition will be eco-accommodating, regular, manageable, and simple to assemble, transport, handle and build simultaneously. The planned SEED will be casted in a very much planned form which will assist with projecting the substantial better. The projecting mold will be produced by utilizing 3D printer. A double reason projection is mounted over the Block which will go about as a handle in order to give ease in moving each square yet in addition a similar projection will go about as a critical when turned around and embedded in ground which will assist with accomplishing a solid and firm steadiness.



No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : ASCENDING

(51) International classification :A61B0005049600, C07D0209120000, C07D0295088000, G09F0007000000, A61B0005000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)NAIR ROHAN UNNIKRISHNAN
 Address of Applicant :Dr K M Vasudevan PILLAI Campus, Sector 16, New Panvel, NAVI Mumbai -410206, MH, India. Add-2: 77/A BHOLEBABA NAGAR, MALEGAON ROAD, DHULE, MAHARASHTRA, INDIA (424001) -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)NAIR ROHAN UNNIKRISHNAN
 Address of Applicant :Dr K M Vasudevan PILLAI Campus, Sector 16, New Panvel, NAVI Mumbai -410206, MH, India. Add-2: 77/A BHOLEBABA NAGAR, MALEGAON ROAD, DHULE, MAHARASHTRA, INDIA (424001) -----

(57) Abstract :

ABSTRACT Our Invention “-ASCENDING” is a This task assists with decreasing the mishaps that are caused because of wellbeing related issues. the innovation will give as a confirmation that the vehicle which we have utilized for voyaging is protected. Wellbeing related issues, for example, coronary failure (myocardial dead tissue) pulse is for the most part raised in the majority of the instances of mi (myocardial localized necrosis)/other ailments that lead to street mishaps are seizures, strokes, weakened vision, Alzheimer’s, dementia, Parkinson’s. The band has a sensor that will completely screen the circulatory strain, pulse, and heartbeat and so forth things can trade as indicated by the condition. on the off chance that any three of the accompanying excide the models. it will give a sign. which will be gotten by the recipient. The beneficiary as the 'collector' gets the sign the motor dials back inside 15 secs so as to forestall mishaps. in the direst outcome imaginable, they will give a crisis ready and a message will be shipped off the clinic, police headquarters, and so forth EOG (electrooculography check) electrooculography (EOG) is a procedure for estimating the corneo-retinal standing likely that exists between the front and the rear of the natural eye. EOG and erg i.e electroretinogram both are done to see the degeneration of the retina including bars and cones. "hypnogram is utilized to see the rest wave cycles. we will utilize this to distinguish the rest wave to stay away from mishaps caused because of ill-advised rest and so on.

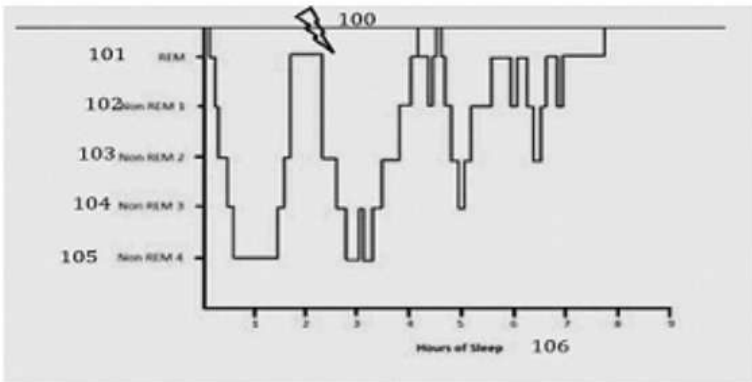


FIG.1: प्राबल्यम-ASCENDING

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : SELF-SUSTAINABLE WATERING SYSTEM AND METHOD FOR ROADSIDE AND MEDIAN PLANTATIONS

(51) International classification :A01G0027000000, E01F0015040000, A01G0027020000, A01G0013020000, C02F0103000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)PRIYANK TRIVEDI
 Address of Applicant :L - 309, TRANSPORTATION ENGINEERING LABORATORY, CIVIL ENGINEERING DEPARTMENT, INSTITUTE OF INFRASTRUCTURE TECHNOLOGY RESEARCH AND MANAGEMENT (IITRAM), KHOKHRA RD, NEAR KHOKHARA CIRCLE, MANINAGAR EAST, KHOKHRA, AHMEDABAD, GUJARAT 380026 -----

2)KHUSHBU BHATT
3)JITEN H. SHAH
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)PRIYANK TRIVEDI
 Address of Applicant :L - 309, TRANSPORTATION ENGINEERING LABORATORY, CIVIL ENGINEERING DEPARTMENT, INSTITUTE OF INFRASTRUCTURE TECHNOLOGY RESEARCH AND MANAGEMENT (IITRAM), KHOKHRA RD, NEAR KHOKHARA CIRCLE, MANINAGAR EAST, KHOKHRA, AHMEDABAD, GUJARAT 380026 -----

2)KHUSHBU BHATT
 Address of Applicant :L - 309, TRANSPORTATION ENGINEERING LABORATORY, CIVIL ENGINEERING DEPARTMENT, INSTITUTE OF INFRASTRUCTURE TECHNOLOGY RESEARCH AND MANAGEMENT (IITRAM), KHOKHRA RD, NEAR KHOKHARA CIRCLE, MANINAGAR EAST, KHOKHRA, AHMEDABAD, GUJARAT 380026 -----

3)JITEN H. SHAH
 Address of Applicant :L - 309, TRANSPORTATION ENGINEERING LABORATORY, CIVIL ENGINEERING DEPARTMENT, INSTITUTE OF INFRASTRUCTURE TECHNOLOGY RESEARCH AND MANAGEMENT (IITRAM), KHOKHRA RD, NEAR KHOKHARA CIRCLE, MANINAGAR EAST, KHOKHRA, AHMEDABAD, GUJARAT 380026 -----

(57) Abstract :
 SELF-SUSTAINABLE WATERING SYSTEM AND METHOD FOR ROADSIDE AND MEDIAN PLANTATIONS The present invention relates a watering system and method capable of supplying water at the ground level of the roadside/median plants without employing any water pump or complex pipeline/channel structure. The system comprises one water reservoir (3) undergrounded on one side of the road to collect ground/rain/runoff water (W) therein; one percolated pipe (1) arranged along the roadside/median to supply the water to the plants (9); one discharge pipe (5) partially embedded into ground and extended for discharging the water (W) from the water reservoir (3) into the percolated pipe (1); and a controller configured with a moisture meter (7) and a pressure control valve (4). Particularly, the water reservoir (3) is coupled with one pneumatic tube (2) extended from other side of the road. Further, the pneumatic tube is partially embedded in a transverse direction to a vehicle movement direction on the road so that the moving vehicles (10) get over to the pneumatic tube (2) thereby generating pneumatic pressure (P) to pump the water (W) from the water reservoir (3) into the discharge pipe (5). Fig. 1

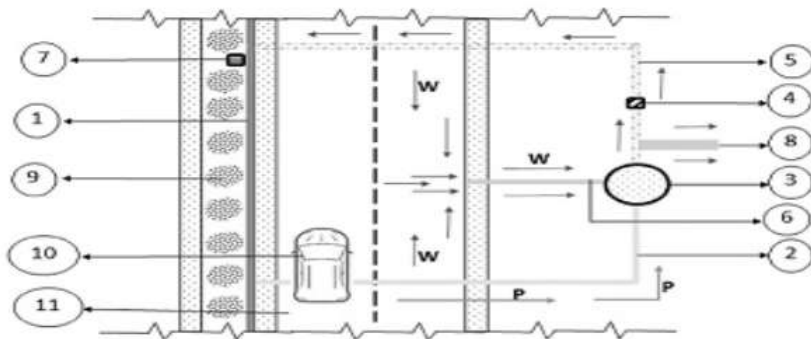


Fig. 1

(54) Title of the invention : REGULAR EQUAL WATER DISTRIBUTION SYSTEM

(51) International classification :H01M0008044920, F24H0009200000, G01F0023260000, G01F0023000000, G01F0007000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mr. Samkit Sanjay Chhajed
Address of Applicant :09, A6, Comfort Zone Society, Balewadi-Baner Road, Baner, Pune, Maharashtra, India - 411045 -----

2)Miss. Kalyani Shivaji Chavane
3)Miss. Pradnya Shankar Khatpe
4)Dr. Vidya Nitin Patil
5)Mrs. Bhakti A. Patil
6)Mrs. Smita A. Takalkar
7)Mr. Pankaj R. Modak
8)Ms. Rajashri Itkarkar
9)Dr. Abhijeet M Mane
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Samkit Sanjay Chhajed
Address of Applicant :09, A6, Comfort Zone Society, Balewadi-Baner Road, Baner, Pune, Maharashtra, India - 411045 -----

2)Miss. Kalyani Shivaji Chavane
Address of Applicant :At post Kharda, Shimpri Galli, Jamkhed, Dist. Ahmednagar, Maharashtra, India – 413204 -----

3)Miss. Pradnya Shankar Khatpe
Address of Applicant :Sr.no.23/9, Balaji Sadan, Balaji Nagar, Dhankwadi, Pune, Maharashtra, India – 411043 -----

4)Dr. Vidya Nitin Patil
Address of Applicant :All India Shri Shivaji Memorial Society’s College of Engineering, Pune, Maharashtra, India – 411001 -----

5)Mrs. Bhakti A. Patil
Address of Applicant :All India Shri Shivaji Memorial Society’s College of Engineering, Pune, Maharashtra, India – 411001 -----

6)Mrs. Smita A. Takalkar
Address of Applicant :All India Shri Shivaji Memorial Society’s College of Engineering, Pune, Maharashtra, India – 411001 -----

7)Mr. Pankaj R. Modak
Address of Applicant :All India Shri Shivaji Memorial Society’s College of Engineering, Pune, Maharashtra, India – 411001 -----

8)Ms. Rajashri Itkarkar
Address of Applicant :All India Shri Shivaji Memorial Society’s College of Engineering, Pune, Maharashtra, India – 411001 -----

9)Dr. Abhijeet M Mane
Address of Applicant :D Y Patil COE, Kalamba Ring Road, Salonkhenagar, Kolhapur, Maharashtra, India, 416001 -----

(57) Abstract :

Disclosed is a water distribution system (100) that includes an inlet pipe (101); a water tank (102); various solenoid valves (201, 202, 203, 204, 205); water level sensor (104); pH sensor (103); various flow meters (301, 302, 303, 304, 305, 306); and a microcontroller (113). The inlet pipe (101) supplies water into the water tank (102). The solenoid valves (201) are turned off upon detecting that the water tank (102) is filled to an upper threshold value. The water level sensor (104) detects a water level in the water tank (102) and transmits an alert to an administrator when the water level in the water tank (102) is reached to the upper threshold value or a lower threshold value of the water tank (102). The pH sensor (103) detects a pH value of the water supplied into the water tank (102) is in between a predefined range. The flow meters (301, 302, 303, 304, 305, 306) measure the quantity of water flow to various houses (110, 111, 112). The microcontroller (113) equally distributes the water to each of the houses (110, 111, 112). The most illustrative drawing: FIG. 1.

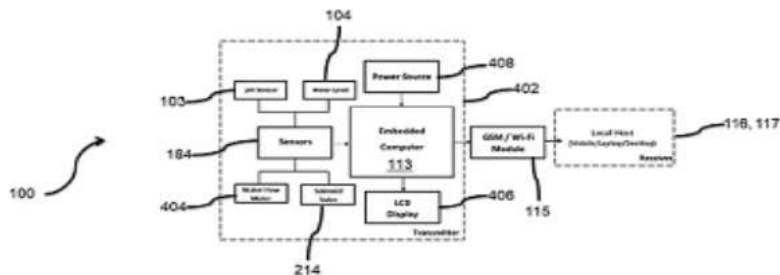


Figure No. – 1

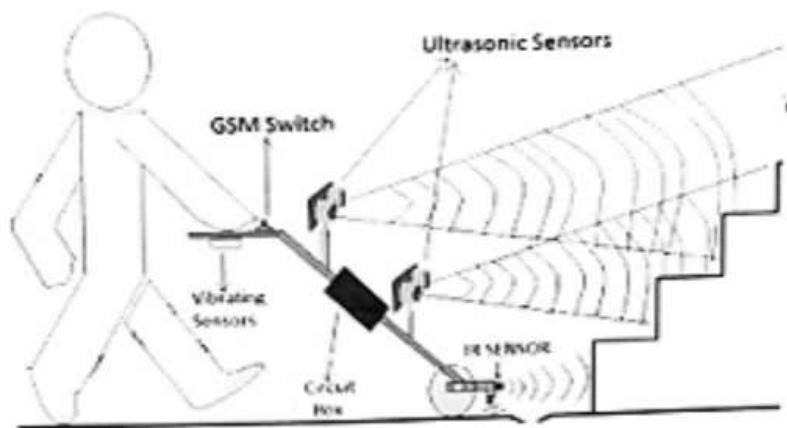
(54) Title of the invention : DESIGN & DEVELOPMENT OF ULTRASONIC BLIND STICK WITH GPS TRACKING

<p>(51) International classification :A61H0003060000, G06K0009000000, G09B0021000000, G01S0019140000, G01S0015930000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. D. Y. Patil Institute of Technology, Pimpri, Pune Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Kishor.B. Waghulde Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p> <p>2)Prof. Mohini Kolhe Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p> <p>3)Mr. Yash Nagare Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p> <p>4)Mr. Pranay Ghorse Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p> <p>5)Ms. Shivani Thombare Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p> <p>6)Ms. Puja Bhalekar Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p>
---	---

(57) Abstract :

This work describes Ultrasonic blind stick with GPS tracking system. Traditionally visually impaired people used a stick to find out if any obstacles are present in front of them. But this stick is inefficient in various aspects and the person using it has to face several problems. The objective of this project is to provide the visually impaired a better navigational tool. The ultrasonic blind walking stick is way more advanced than the traditional walking stick as the use of sensors makes object detection easier. GPS system provides the information regarding the current location. Thus, this system allows for obstacle detection by visually disabled person. Another feature of this stick is to detect water on the ground. This stick also indicates day or night condition for blind person. This presentation discusses about how this stick is built and how it will help blind people. There are various methods to do it and we are using helpful concepts.

Drawing 1 of 3: Working of the stick



No. of Pages : 13 No. of Claims : 3

(54) Title of the invention : TRANSPORTATION, MOBILITY AND SUPPLY CHAIN MANAGEMENT APPLICATIONS FOR HEALTHCARE SERVICES: INDUSTRY 4.0

(51) International classification :G06Q0010080000, G06Q0010060000, G06Q0050220000, C05C0001000000, H04L0012660000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

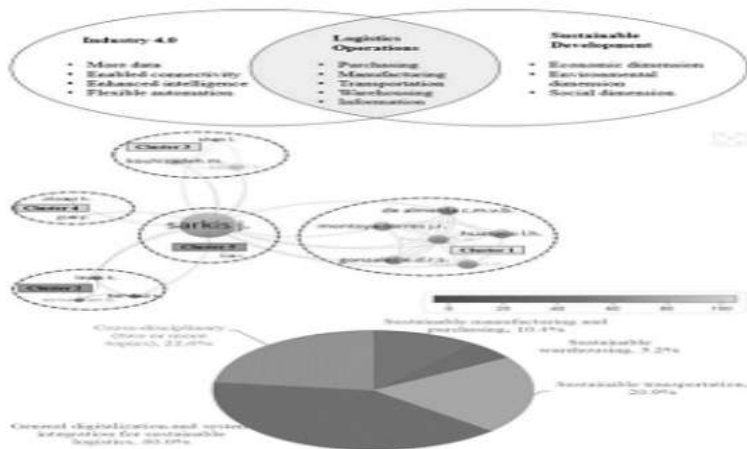
(71)Name of Applicant :
1)Dr. Sandeep Tare
 Address of Applicant :Director,Management, Education,Research and Professional Studies, SKC LNCT Groups, Sanwer Road Indore, (MP) -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Sandeep Tare
 Address of Applicant :Director,Management, Education,Research and Professional Studies, SKC LNCT Groups, Sanwer Road Indore, (MP) -----

(57) Abstract :

Transportation, Mobility and Supply Chain Management Applications for Healthcare Services: Industry 4.0 Abstract: Today's supply chain management is moving away from a linear model. Supply chains can now be reorganised using IoT, big data analytics, and autonomous robots. This strategy isn't limited to e-commerce. It can also help traditional brick-and-mortar stores run more efficiently. These technologies are reducing costs, increasing jobs, and saving consumers time. These technologies may hinder developing countries' participation in global value chains in numerous ways (GVCs). They may, for example, make it easier for high-income countries to return manufacturing jobs home, limiting participation by developing countries in GVCs.



No. of Pages : 9 No. of Claims : 6

(54) Title of the invention : MACHINE LEARNING APPROACH TO VALIDATE THE AUTHENTICITY OF NEWS USING NATURAL LANGUAGE PROCESSING

(51) International classification :G06N002000000, G06F004030000, G06F004021100, G06Q005000000,
 G06F0040295000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
 1)Dr. Shahanawaj Ahamad
 Address of Applicant :Assistant Professor, College of Computer Science and Engineering, University of Hail, Hail City, Saudi Arabia -----
 2)Anagha Mahajan
 3)J Rajesh
 4)Vijay
 5)Dr. Chandra ShekharYadav
 6)Kaushal Kishor Bhatt
 7)Omdev Dahiya
 8)Dr. Ritu
 9)Shila Jawale
 10)Prof. Makhhan Kumbhkar
 11)Mr. Binay Kumar Pandey
 12)Ankur Gupta
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
 1)Dr. Shahanawaj Ahamad
 Address of Applicant :Assistant Professor, College of Computer Science and Engineering, University of Hail, Hail City, Saudi Arabia -----
 2)Anagha Mahajan
 Address of Applicant :Assistant Professor, Dept. of Education, Dr. Vishwnath Karad MIT World Peace University, Pune, Maharashtra, India -----
 3)J Rajesh
 Address of Applicant :Assistant Professor, Dept. of Civil Engineering, Sri Sairam Engineering College, West Tambaram, Kanchipuram, Tamil Nadu, India -----
 4)Vijay
 Address of Applicant :Research Scholar, Dept. of Civil Engineering, Faculty of Engineering and Technology, MRIIRS, Faridabad, Haryana, India -----
 5)Dr. Chandra ShekharYadav
 Address of Applicant :Standardisation Testing and Quality Certification (STQC) Directorate, Ministry of Electronics and Information Technology, Government of India -----
 6)Kaushal Kishor Bhatt
 Address of Applicant :Assistant Professor, Dept. of Computer Science and Engineering, Birla Institute of Applied Science, Bhimtal, Nainital, Uttarakhand, India -----
 7)Omdev Dahiya
 Address of Applicant :Assistant Professor, School of Computer Science and Engineering, Lovely Professional University, Phagwara, Punjab, India -----
 8)Dr. Ritu
 Address of Applicant :Associate Professor, Dept. of Chemistry, Chhotu Ram Arya College, Sonapat, Haryana, India -----
 9)Shila Jawale
 Address of Applicant :Assistant Professor, Dept. of Information Technology, Datta Meghe College of Engineering, Airoli, Navi Mumbai, India -----
 10)Prof. Makhhan Kumbhkar
 Address of Applicant :Assistant Professor, Dept. of Computer Science, Christian Eminent College, Indore, Madhya Pradesh, India -----
 11)Mr. Binay Kumar Pandey
 Address of Applicant :Assistant Professor, Dept. of Information Technology, College of Technology, Govind Ballabh Pant University of Agriculture and Technology, Pantnagar, U S Nagar, Uttarakhand, India -----
 12)Ankur Gupta
 Address of Applicant :Assistant Professor, Dept. of Computer Science and Engineering, Vaish College of Engineering, Rohtak, Haryana, India -----

(57) Abstract :
 With the widespread adaptation of the Internet and social media platforms that allows everyone to share content, it is becoming very difficult to determine whether the content presents actual truth or is fabricated. The present invention is machine learning approach to validate the authenticity of news using natural language processing. The system may allow a user to request fake news detection services through a website, app, or browser plug-in whenever the user selects text content, the app may reflect with a floating window and provides the user with the percentage of the fake and real news of the selected text.

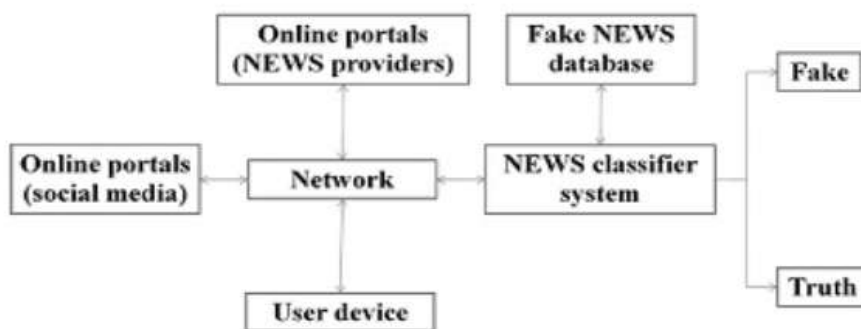


Figure 1. illustrates an exemplary networked environment in which a news classifier system operates according to an embodiment of the present invention.

No. of Pages : 18 No. of Claims : 2

(54) Title of the invention : A PARALLEL COOLING SYSTEM FOR AN ELECTRIC MOTOR

(51) International classification :H02K0009190000, H02K0005200000, H02K0001320000, H02K0009060000, H02K0009000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)MATTER MOTOR WORKS PRIVATE LIMITED
 Address of Applicant :301, Parishram Building, 5b Rashmi Soc., Nr. Mithakhali Six Roads, Navrangpura, Ahmedabad-380009,Gujarat, India -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Kumar Prasad Telikepalli
 Address of Applicant :301, Parishram Building, 5b Rashmi Soc., Nr. Mithakhali Six Roads, Navrangpura, Ahmedabad-380009,Gujarat, India -----

2)Shirish Vijaypal Singh
 Address of Applicant :301, Parishram Building, 5b Rashmi Soc., Nr. Mithakhali Six Roads, Navrangpura, Ahmedabad-380009,Gujarat, India -----

3)Yogesh Dhanraj Shardul
 Address of Applicant :301, Parishram Building, 5b Rashmi Soc., Nr. Mithakhali Six Roads, Navrangpura, Ahmedabad-380009,Gujarat, India -----

4)Vikas Pralhad Patil
 Address of Applicant :301, Parishram Building, 5b Rashmi Soc., Nr. Mithakhali Six Roads, Navrangpura, Ahmedabad-380009,Gujarat, India -----

(57) Abstract :

A parallel cooling system for an electric motor is provided. The system comprises a coolant supplying means (101), an inlet (102), a stator (103), a cooling jacket (104), a stator cooling duct (105), a rotor assembly (106), a helical rotor cooling pipe (107), an outflow junction (108) and an outlet (109). The system enables simultaneous cooling of multiple component of the electric motor namely, a stator and a rotor using single inlet and single outlet. This arrangement enables faster heat withdrawal from the electric motor, especially during the vehicle stoppage or halt.

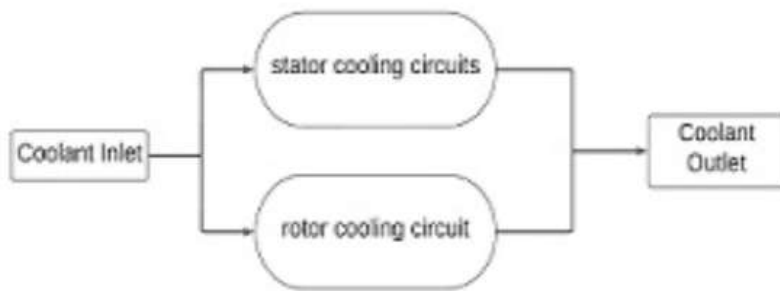


FIG. 1B

(54) Title of the invention : DESIGN AND DEVELOPMENT OF SEMI-AUTOMATIC TABLE TOP MINI LATHE

(51) International classification :B23Q0011080000, G06F0030367000, C12Q0001680600, B23Q0037000000, B23Q0001000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. D. Y. Patil Institute of Technology, Pimpri, Pune
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Prof. Ganesh N Bhalerao
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

2)Dr. Amit S. Chaudhari
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

3)Mr. Abhishek Bhosale
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

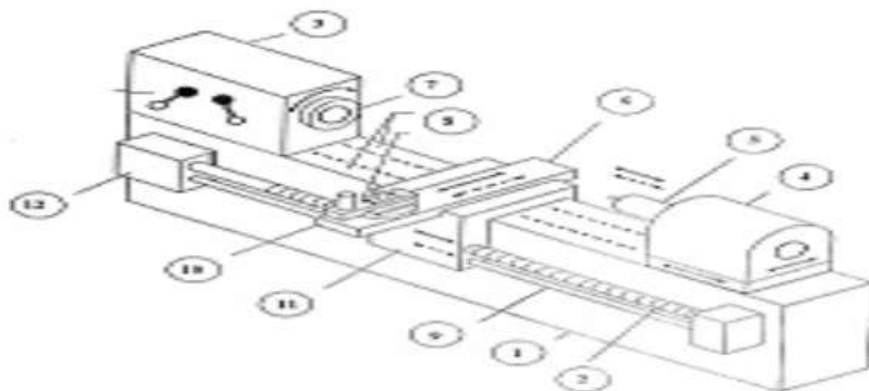
4)Ms.Aditi Deokar
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

5)Mr.Sairaj Rajeshirke
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

6)Mr. Abhijeet Budde
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

(57) Abstract :

Semi-Automatic table top mini lathe are usually preferred over lathes by some professional to deduct overall setup. Recently model techniques are finding an increasingly wider application in designing of small structures and model so factual machine that are made from appropriate. The main aim of mini atomization of this machine tools to size compatible to target products without compromising machining tolerance leads to greater saving of power, energy, space, materials, time and resources. It is specially designed to turn metals like steel, copper, aluminum, silver, gold for carrying operations of external turning, facing, and step turning. Design and development of table top mini lathe through 3D modeling and actual fabrication made by design calculations based on machine tool design procedure that utilize a variable speed electric motor for getting various cutting velocities. This model is analyzed by study behavior of actual behavior predicted from the knowledge of models. It is the first step to fabricate the mini lathe i.e.150 mm length for turning of small components with degree of accuracy.



1	Bed	7	Spindle Rotaries
2	Lead Screw	8	Ways & Tool post
3	Head Stock	9	Feed Rod
4	Tail Stock	10	Compound rest and slide
5	Spindle	11	Carriage assembly
6	Cross Slide	12	Gearbox

No. of Pages : 14 No. of Claims : 3

(54) Title of the invention : MANUFACTURING OF SOYKASU PRODUCTS FROM WASTE RESIDUE OF SOYMILK AND TOFU

(51) International classification :A23C0011100000, A23L0011000000, B08B0003020000, F01D0025000000, B08B0009093000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Mansi Yogesh Chaudhari
 Address of Applicant :505, Rudraksh Residency Bapod, Waghodia Road, Near Vrundavan Char Rasta Vadodara-390019 Gujarat, India -----
2)Neha Yogeshchandra Chaudhari
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Mansi Yogesh Chaudhari
 Address of Applicant :505, Rudraksh Residency Bapod, Waghodia Road, Near Vrundavan Char Rasta Vadodara-390019 Gujarat, India -----
2)Neha Yogeshchandra Chaudhari
 Address of Applicant :505, Rudraksh Residency Bapod, Waghodia Road, Near Vrundavan Char Rasta Vadodara-390019 Gujarat, India -----

(57) Abstract :

Abstract Manufacturing of Two New Soykasu Products from Waste Residue of Soymilk and Tofu Production Units starts by Inspection and Cleaning of the soy milk residue passes through Mechanical cleaners (1) for cleaning. The soymilk residue is given water wash cleaning, after that, it is sent to the strainer (2) for dewatering. Autoclave boiler (3) provide high-pressure steam and soymilk residue is heated at the temperature of about 121°C for about 3-5 minutes with high-pressure compressed air. The residue is divided into two equal parts and fermented separately using different microorganisms as one part of soy milk residue is fermented in Fermenter-1 (5) using Rhizopus oligosporos (13) (traditionally used for tempeh), Bacillus Sphaericus (14) and other part of soy milk residue is fermented in Fermenter-2 (5) using Lactobacillus helveticus (15) [R0052] OR Lactobacillus rhamnosus (16) [R0011]. The Soykasu flour (11) in the dryer (7) reduces its moisture content. And Dried product flour passes through Pulverizer (9) and flour grinder machine to form the dried Soykasu flour (11).

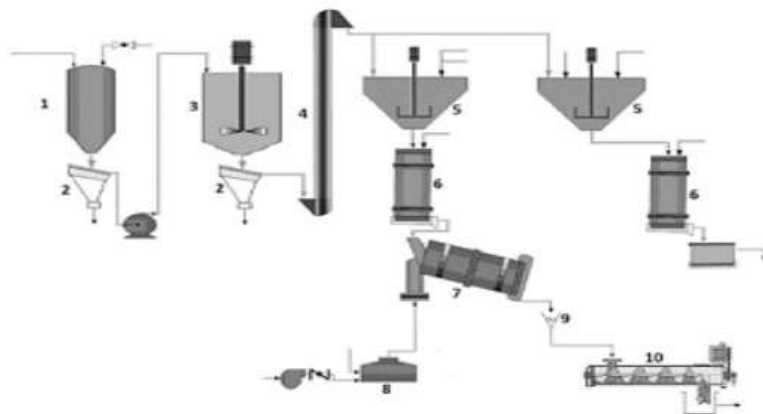


Figure 1: Manufacturing Process of Soykasu flour and Beverage

No. of Pages : 17 No. of Claims : 4

(54) Title of the invention : DESIGN AND FABRICATION OF AN INNOVATIVE SYSTEM FOR CONVERSION OF KINETIC ENERGY FROM VEHICLE SUSPENSION INTO ELECTRIC USING PIEZOELECTRIC EFFECT

(51) International classification :H02N0002180000, F03G0007080000, B60K0025100000, B60K0016000000, H02J0007320000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. D. Y. Patil Institute of Technology, Pimpri, Pune
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Vikram S Suvarnkar
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

2)Prof. Shruti Vedpathak
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

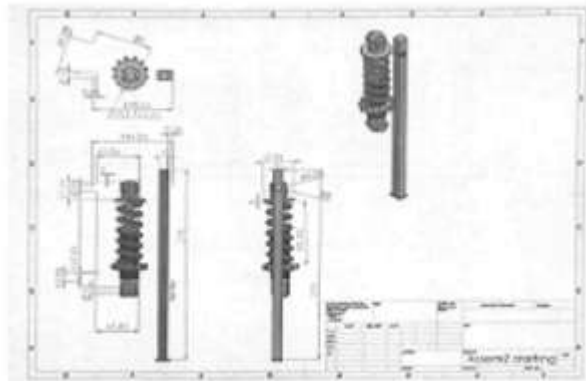
3)Ms. Prajakta Radhakisan Karanjule
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

4)Mr. Yash Suryakant Sawant
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

5)Mr. Rushikesh Ravindra Joshi
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

6)Mr. Aniket Krishna Dhawade
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

(57) Abstract :
 All vehicles have suspension system. Only 26 % of the available fuel energy is used to drive the vehicle, i.e., to overcome the resistance from road friction. One important loss is the dissipation of vibration energy by shock absorbers in the vehicle suspension under the excitation of road irregularity and vehicle acceleration or deceleration. The suspension system mainly consists of a mechanical spring. The main objective of the project is to design a model that will convert the vibration of suspension system into electricity. Vibration energy (mechanical energy) that is generated by vehicle movement on the road converted into electric energy by piezoelectric effect. The primary focus of this project is to present an analysis of the piezoelectric crystals and the extent they could support the main powering system by producing electricity that could help power the auxiliary system and reduce electrical loads on the engine in the vehicle. In order to understand the extent of usage of Piezoelectric crystals in the automotive sector in terms of electricity generation, a relation between force that acts on the crystal based on the location of the crystal and the electricity that the crystal produces are deduced. The study will encourage automobile manufacturers to develop and produce cars that are equipped with multiple energy harvesters to make the dissipated energy available for utilization. Such utilization of regenerated energy improves the fuel efficiency and the economy significantly.



No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : SMART PREPAID ENERGY SYSTEM AND METHOD THEREOF

(51) International classification :G01D0004000000, H02J0003000000, G01R0022060000, H04Q0009000000, G01D0004020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Harshil Jayeshkumar Rana
 Address of Applicant :Department of Electronics, Birla Vishvakarma Mahavidyalaya Engineering College, Post Box No. 20, Vallabh Vidyanagar, Anand, Gujarat - 388120, India -----
2)Tarun Kishorbhai Viradiya
3)Anita Narendra Bhatt
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Harshil Jayeshkumar Rana
 Address of Applicant :Department of Electronics, Birla Vishvakarma Mahavidyalaya Engineering College, Post Box No. 20, Vallabh Vidyanagar, Anand, Gujarat - 388120, India -----
2)Tarun Kishorbhai Viradiya
 Address of Applicant :Department of Electronics, Birla Vishvakarma Mahavidyalaya Engineering College, Post Box No. 20, Vallabh Vidyanagar, Anand, Gujarat - 388120, India -----
3)Anita Narendra Bhatt
 Address of Applicant :Department of Electronics, Birla Vishvakarma Mahavidyalaya Engineering College, Post Box No. 20, Vallabh Vidyanagar, Anand, Gujarat - 388120, India -----

(57) Abstract :

A smart prepaid energy system and method thereof which connects with an existing energy system without replacing old energy meter resulting in improved efficiency, accuracy and economic benefit. The smart prepaid energy system consisting of plurality of sensor unit (2) connected with a plurality of energy meter (100) and each sensor unit (2) having an optical sensor (21) for calculating a pulse rate of the energy meter (100) which placed inside the sensor unit (2), a node unit (3) placed near to the sensor unit (2) and physically connected with the sensor unit (2) and a master unit (4) wirelessly connected with the plurality of node unit (3). The master unit (4) wirelessly communicate with a server (5) and the server (5) further communicates with an online portal (6) in order to transmit energy consumption data. The online portal (6) provides details regarding the power consumption, meter balance and faults with consumers and service provider.

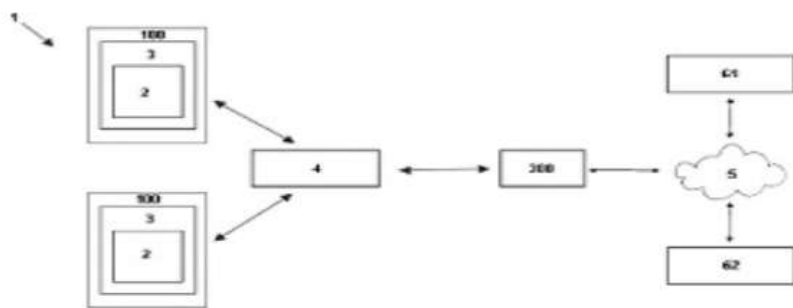


Fig 1

No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : GREEN SYNTHESIS APPROACH METHOD USER-FRIENDLY SENSOR FOR ENVIRONMENT AIR MONITOR

(51) International classification :G01N0027120000, C01G0041020000, G01N0033000000, B82Y0030000000, C07K0014005000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

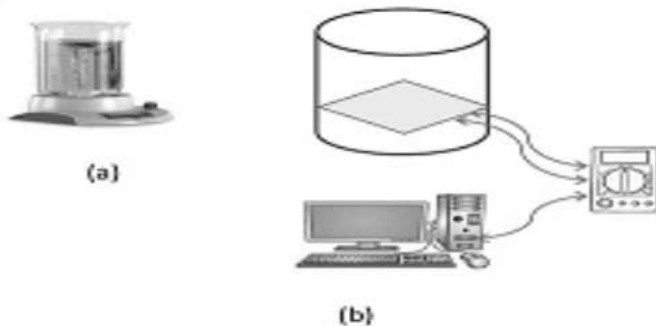
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Mr. Jige Sandipan Babasaheb
 Address of Applicant :Assistant professor and Head, Department of Botany, Sant Ramdas College Ghansawangi Dist- Jalna, Maharashtra, India, Pincode: 431209 -----
2)Dr. M.A. Badhul Haq
3)Dr. Anil Kumar
4)Ms. Kehkashan Alam
5)Mrs. B.V. Febiyola
6)Dr. Narayana Thota
7)Mr. Haragouri Mishra
8)Mrs. R. Rajalakshmi
9)Dr. Mukunthan KS
10)Dr. Tamal Mondal
11)Mr. M. Kalyana Chakravarthy
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Mr. Jige Sandipan Babasaheb
 Address of Applicant :Assistant professor and Head, Department of Botany, Sant Ramdas College Ghansawangi Dist- Jalna, Maharashtra, India, Pincode: 431209 -----
2)Dr. M.A. Badhul Haq
 Address of Applicant :Assistant Professor Senior Grade & Head, Department of Marine Biology, Deputed from Faculty of Marine Sciences, Annamalai University, Parangipettai, Cuddalore District, Tamil Nadu, India, Pincode: 608502 -----
3)Dr. Anil Kumar
 Address of Applicant :Ex Research Scholar, Department of Botany, DDU Gorakhpur University, Gorakhpur, Uttar Pradesh, India, Pincode: 273009 -----
4)Ms. Kehkashan Alam
 Address of Applicant :Research Scholar, Department of Chemistry, Aligarh Muslim University, Aligarh, Uttar Pradesh, India, Pincode: 202002 -----
5)Mrs. B.V. Febiyola
 Address of Applicant :Assistant Professor, Department of Biochemistry, St.Peter's institute of Higher education and Research, Avadi, Chennai- 54, Tamilnadu. India -----
6)Dr. Narayana Thota
 Address of Applicant :DST-INSPIRE Faculty, Department of Physics, School of Sciences, National Institute of Technology – Andhra Pradesh Tadepalligudem, West Godavari (Dt.) Andhra Pradesh, India, Pincode: 534101 -----
7)Mr. Haragouri Mishra
 Address of Applicant :Assistant Professor, Department School of Pharmacy, Centurion University of Technology and Management, Odisha, India, Pincode:751009 -----
8)Mrs. R. Rajalakshmi
 Address of Applicant :Research scholar, Department of Botany, V.O. Chidambaram college, Thoothukudi, Tamil nadu, India, Pincode: 628008 -----
9)Dr. Mukunthan KS
 Address of Applicant :Associate professor, Department of Biotechnology, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, Karnataka, Inida, Pincode: 576104 -----
10)Dr. Tamal Mondal
 Address of Applicant :Assistant Professor, Department of Botany, Hiralal Mazumdar Memorial College for Women, Dakshineswar, Kolkata, West Bengal, India, Pincode:700035 -----
11)Mr. M. Kalyana Chakravarthy
 Address of Applicant :Senior Assistant Professor, School of Electronics Engineering, VIT-AP University, Amaravathi, Guntur Andhra Pradesh, India Pincode: 522237 -----

(57) Abstract :
 Proposed invention Prepared using the green synthesis method, tungsten trioxide and metal oxide doped printed films were produced. The printed films' structural, surface, electrical, and gas sensing characteristics are investigated using X-ray diffraction, scanning electron microscopy, transmission electron microscopy, and the Keithley system, among other techniques. After that, these films will be used to fabricate gas sensors for use in air monitors.

Diagram:



1(a) shows magnetic stirrer with metal oxide liquid. Figure 1(b) shows printed thin film for analysis gases through system.

(54) Title of the invention : CONSTRUCTION SAFETY MANAGEMENT SYSTEM BASED ON ARTIFICIAL INTELLIGENCE MACHINE VISION TECHNOLOGY

<p>(51) International classification :G06N0005040000, G06F0008200000, A61K0031122000, G01N0033557000, C08L0005000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA Filing Date :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. RANJIT NANASAHEB PATIL Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF CIVIL ENGINEERING PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING HARPUR NAGAR, UMRED RD, NEAR BADA, TAJ BAGH, NAGPUR, MAHARASHTRA 440024. -----</p> <p>2)Dr. ASHTASHIL VRUSHKETU BHAMBULKAR</p> <p>3)Dr. RAJENDRA KAMLAKAR POHANE</p> <p>4)Mr. NITESH BALAJI THIKARE</p> <p>5)Mr. AMIT MADANRAO KHARWADE</p> <p>6)Mr. VAIBHAV RAMKRISHNA DHAWALE</p> <p>7)Mr. NITYANAND SHANKARRAO FUTANE</p> <p>8)Mr. YOGESH SHESHRAO KHANDEKAR</p> <p>9)Mr. PRASANNA PRABHAKARRAO TITARMARE</p> <p>10)Ms. NIRU NEHARU KHOBRAGADE</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. RANJIT NANASAHEB PATIL Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF CIVIL ENGINEERING PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING HARPUR NAGAR, UMRED RD, NEAR BADA, TAJ BAGH, NAGPUR, MAHARASHTRA 440024. -----</p> <p>2)Dr. ASHTASHIL VRUSHKETU BHAMBULKAR Address of Applicant :DIRECTOR DEPARTMENT OF CIVIL ENGINEERING MILIND KRUSHI VANSANSHODHAN SANSTHA AT WADEGAON , POST MANDHAL , TALUKA KUHI, DISTRICT NAGPUR MAHARASHTRA 441210 -----</p> <p>3)Dr. RAJENDRA KAMLAKAR POHANE Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING HARPUR NAGAR, UMRED RD, NEAR BADA, TAJ BAGH, NAGPUR, MAHARASHTRA 440024 -----</p> <p>4)Mr. NITESH BALAJI THIKARE Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF CIVIL ENGINEERING PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING HARPUR NAGAR, UMRED RD, NEAR BADA, TAJ BAGH, NAGPUR, MAHARASHTRA 440024 -----</p> <p>5)Mr. AMIT MADANRAO KHARWADE Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF CIVIL ENGINEERING NAGPUR INSTITUTE OF TECHNOLOGY KATOL ROAD, NEAR FETRI, MAHURZARI, NAGPUR, MAHARASHTRA 440024 -----</p> <p>6)Mr. VAIBHAV RAMKRISHNA DHAWALE Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF CIVIL ENGINEERING PROF RAM MEGHE COLLEGE OF ENGINEERING & MANAGEMENT, NEW EXPRESS HIGHWAY, RAM MEGHE SQUARE, BADNERA, AMRAVATI, MAHARASHTRA 444701 -----</p> <p>7)Mr. NITYANAND SHANKARRAO FUTANE Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF CIVIL ENGINEERING PROF RAM MEGHE COLLEGE OF ENGINEERING & MANAGEMENT, NEW EXPRESS HIGHWAY, RAM MEGHE SQUARE, BADNERA, AMRAVATI, MAHARASHTRA 444701 -----</p> <p>8)Mr. YOGESH SHESHRAO KHANDEKAR Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF CIVIL ENGINEERING SIPNA COLLEGE OF ENGINEERING AND TECHNOLOGY, NH 6, OPPOSITE NEMANI GODOWN, NIMBORA, BADNERA RD, AMRAVATI, MAHARASHTRA 444606 -----</p> <p>9)Mr. PRASANNA PRABHAKARRAO TITARMARE Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRICAL ENGINEERING 20, RENUKAMATA NAGAR, NAGPUR, MAHARASHTRA 440034 -----</p> <p>10)Ms. NIRU NEHARU KHOBRAGADE Address of Applicant :MEMBER PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING MILIND KRUSHI VANSANSHODHAN SANSTHA AT WADEGAON , POST MANDHAL , TALUKA KUHI, DISTRICT NAGPUR MAHARASHTRA 441210 -----</p>
---	--

(57) Abstract :

The improvement of the social economy and the advancement of science and innovation, the course of urbanization proceeds to extend and the advancement of the development business changes as time passes. Individuals are considering the well-being of structural design. Accidents often happened during the development interaction, which uncovered the absence of thoughtfulness regarding wellbeing issues during the development interaction, the absence of successful management of safe development, and the absence of security consciousness of development faculty, which affected the development of structural designing. In this article, an answer to the wellbeing of the executive's framework for development staff dependent on computerized reasoning machine vision innovation is proposed for the investigation of the security of the board of structural designing constructions. As a matter of first importance, through the exploration and examination of the issues in the security, the board of development laborers, the sorts of wellbeing accidents of development laborers are summed up furthermore the impact of machine comprehension of the development scene is acknowledged through target discovery and depiction of the spatial association between the two. A continuous recognition and early admonition stage is assembled, and early alerts are automatically conveyed when a predefined perilous scene happens, to accomplish the reason for forestalling construction accidents. The experimental results displayed that, utilization of artificial reasoning machine vision innovation to deal with the security of structural designing development, the wellbeing the board of laborers in the development is acknowledged, and the outcomes show that the level of development security the executives has expanded to 97.4%, guaranteeing the nature of structural designing development and safety.

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : DRONE FOR DETECTING AND ANALYZING ANTI-TERRORIST ACTIVITIES

(51) International classification :B64C0039020000, G06N0020000000, G08B0015000000, G05D0001000000, B64D0045000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

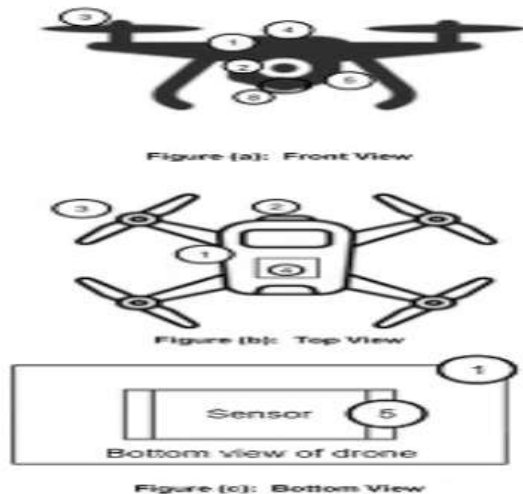
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Ms. Anuja Jadhav
 Address of Applicant :Pimpri Chinchwad College of Engineering, Near Akurdi Railway Station Road, Sector No. 26, Pradhikaran, Nigdi -----
2)Ruchika Bhamre
3)Tejal Gandhi
4)Dr Roshani Raut
5)Sanjana Gandhi
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr Roshani Raut
 Address of Applicant :Flat No C-407, Tirupati Campus, Phase VI, Tingre Nagar, Lane No. 2, Vihsrantwadi, Pune -----
2)Sanjana Gandhi
 Address of Applicant :Pimpri Chinchwad College of Engineering, Near Akurdi Railway Station Road, Sector No. 26, Pradhikaran, Nigdi, -----
3)Ruchika Bhamre
 Address of Applicant :Pimpri Chinchwad College of Engineering, Near Akurdi Railway Station Road, Sector No. 26, Pradhikaran, Nigdi, Pimpri, Maharashtra 411044 -----
4)Ms. Anuja Jadhav
 Address of Applicant :Pimpri Chinchwad College of Engineering, Near Akurdi Railway Station Road, Sector No. 26, Pradhikaran, Nigdi -----
5)Tejal Gandhi
 Address of Applicant :Pimpri Chinchwad College of Engineering, Near Akurdi Railway Station Road, Sector No. 26, Pradhikaran, Nigdi, -----

(57) Abstract :

Drone reliance and use is increasing in a variety of fields. This is due to the drones' ability to live-stream, capture real-time video and images, and fly and transport goods . As a result, thousands of drones will be operational in the next five years. As in every field, drones are used in detecting and analysing anti terrorist activities i.e to spy on the terrorists. Drones provide more advanced surveillance, and the usage of artificial intelligence makes the risk identification and decision making more effective and instantaneous. Drones are now used for advanced observations and covert operations because of their quick access as well as their precise targeting capability. Using a pre-trained machine learning model, the drone finds, tracks, and follows another drone within its sensor range and hunts it with a laser beam. Mounting the lasers on drones lets the authorities quickly move them close to the action and respond. High-tech devices have been developed to assist them in dealing with a variety of situations that may arise during their mission. The location of an army person can be determined with the help of a drone. Chips implanted in the bodies of soldiers will aid in the differentiation of army person from terrorists, and this information will be used to launch a laser attack on the terrorists



No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041031261 A

(19) INDIA

(22) Date of filing of Application :22/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : A SKIN-CARE SCRUB COMPOSITION AND A METHOD FOR PREPARING THE SKIN-CARE SCRUB COMPOSITION

(51) International classification :A61Q0019000000, A61K0008970000, G06F0011100000, A61K0036906600, G01R0001067000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MITA BIDAPPA
Address of Applicant :VICTORY ESTATE, ATHUR POST, VIA POLLIBETTA, COORG – 571215, KARNATAKA, INDIA

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MITA BIDAPPA
Address of Applicant :VICTORY ESTATE, ATHUR POST, VIA POLLIBETTA, COORG – 571215, KARNATAKA, INDIA -----

(57) Abstract :

A SKIN-CARE SCRUB COMPOSITION AND A METHOD FOR PREPARING THE SKIN-CARE SCRUB COMPOSITION A skin-care scrub composition and a method for preparing the skin-care scrub composition is provided. The skin-care scrub composition includes coffee at a concentration ranges from 25%-35%, himalayan pink salt at a concentration ranges from 5%-10% and green gram at a concentration range from 55%-65%. The method of preparing the skin-care scrub composition includes blending of 25%-35% of coffee powder, 5%-10% of himalayan pink salt and 55%-65% of green gram powder together to obtain the skin-care scrub composition. The skin-care scrub composition can be formulated into a paste using a liquid agent before applying on skin for scrubbing. The liquid agent may include water, coconut oil, Aloe vera gel, turmeric water, honey, lime and yogurt. FIG. 1.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041031793 A

(19) INDIA

(22) Date of filing of Application :24/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : A SYSTEM AND METHOD FOR ENABLING ACCURATE RADIOGRAPHS

(51) International classification :G06F0017500000, A61B0006140000, A61B0005145500, A61B0017860000, H04W0024080000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)EIKONAX INNOVATIVE SOLUTIONS PVT LTD

Address of Applicant :Manipal-GoK Bioincubator, Third floor, MAHE Advanced Research center, Maipal Udipi
Karnataka India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Shruthi Acharya

Address of Applicant :# 1-2-86A2 "siri", Kunjibettu,Udupi,
Karnataka India 576102 -----

2)Dr. Shruthi Singh

Address of Applicant :920-A South Civil Lines, Near NCC
Office, Near FCSD School, Muzaffarnaga Uttar Pradesh India
251001 -----

3)Manjunath Naik

Address of Applicant :Adapady house, Palli post Karkala taluk ,
Udupi district Karnataka India 574244 -----

(57) Abstract :

The present invention provides a system and method for enabling accurate radiographs. In some example embodiments, the system may comprise at least one memory to store instructions and at least one processor to execute the instructions to obtain accurate radiographs. The method for obtaining the accurate radiographs comprise placing at least one supplement-based holder 103 in a oral cavity, Further, enabling the supplement based on a first component and a second component and a third component. The method further comprises, configuring the first component to provide dynamic motion to the second component and configuring the second component based on axis based micro-movements. In some example embodiments, the method may further comprise obtaining error free radiographs based on the first component configuration and the second component configuration, associated with the angle-based configuration of the third component.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041044653 A

(19) INDIA

(22) Date of filing of Application :14/01/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PURIFICATION OF PHYTOCHEMICAL(S) FROM ARECA WASH LIQUID

(51) International classification :A61K0036889000, B01D0015360000, A23L0033105000, B01D0011020000, B01D0015380000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)FARM GULP PRIVATE LIMITED

Address of Applicant :3-643, Hittalakaragadde, Kannimane, Nandolli, Yellapur, Uttara Kannada, Karnataka – 581359, India. --

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)GANESH VENKATRAMAN BHAT

Address of Applicant :#643, Hittalakaragadde, Kannimane, Nandolli, Yellapur, Uttara Kannada, Karnataka – 581359, India. --

2)NAGENDRA PRAKASH

Address of Applicant :#18, Samrudhi Nilaya, C.S.R. Golden Gate, Medahalli, Bengaluru – 560049, Karnataka, India. -----

3)HARISH KUMAR

Address of Applicant :H.no 3-5-158/1, Gogalwadi vegetable market main road, Yadgir city, Yadgir – 585201, Karnataka, India. -----

(57) Abstract :

“PURIFICATION OF PHYTOCHEMICAL(S) FROM ARECA WASH LIQUID” ABSTRACT The instant disclosure is in the field of biochemical sciences, particularly towards bioseparation/purification of phytochemicals. The disclosure relates to method for purification of phytochemicals from areca wash liquid (AWL). More particularly, the present method provides purification of phytochemicals selected from polyphenols, alkaloids, triterpenes, and combinations thereof, from AWL. Figure 1

No. of Pages : 80 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041051052 A

(19) INDIA

(22) Date of filing of Application :24/11/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : SENSOR LAND MINE

(51) International classification :F42B0008280000, G07D0005000000, F41H0007040000, G01S0013880000, B32B0027360000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)M.VIGNESH RAJA

Address of Applicant :78/177, K.C. ROAD, SHENKOTTAI, TENKASI, TAMIL NADU, PIN - 627 809. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)M.VIGNESH RAJA

Address of Applicant :78/177, K.C. ROAD, SHENKOTTAI, TENKASI, TAMIL NADU, PIN - 627 809. -----

(57) Abstract :

I made this invention to be used in wars and other operation conducted by military forces. i The sensor land mine is used to sense the presence of a humanity and get blast and injure or kill the person passing through the radius of the sensor lanH mi no

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041051430 A

(19) INDIA

(22) Date of filing of Application :20/11/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : NOVEL CRYSTALLINE FORM OF TAFAMIDIS AND ITS PROCESS THEREOF

<p>(51) International classification :A61K0031423000, C07D0263570000, C07D0417140000, A61K0031427000, A61P0025280000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Natco Pharma Limited Address of Applicant :Natco House, Road No.2 Banjara Hills, Hyderabad. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)BUDIDETI SHANKAR REDDY Address of Applicant :Natco Pharma Limited Natco House, Road No.2 Banjara Hills, Hyderabad. -----</p> <p>2)ABAYEE KALIYAPERUMAL SRINIVASAN Address of Applicant :Natco Pharma Limited Natco House, Road No.2 Banjara Hills, Hyderabad. -----</p> <p>3)MADALAPU VEERABABU Address of Applicant :Natco Pharma Limited Natco House, Road No.2 Banjara Hills, Hyderabad. -----</p> <p>4)GATTU ANITHA Address of Applicant :Natco Pharma Limited Natco House, Road No.2 Banjara Hills, Hyderabad. -----</p> <p>5)YAJJUVARAPU RUSHYA RAO Address of Applicant :Natco Pharma Limited Natco House, Road No.2 Banjara Hills, Hyderabad. -----</p> <p>6)MUDDASANI PULLA REDDY Address of Applicant :Natco Pharma Limited Natco House, Road No.2 Banjara Hills, Hyderabad. -----</p> <p>7)NANNAPANENI VENKAIAH CHOWDARY Address of Applicant :Natco Pharma Limited Natco House, Road No.2 Banjara Hills, Hyderabad. -----</p>
---	--

(57) Abstract :

“NOVEL CRYSTALLINE FORM OF TAFAMIDIS AND ITS PROCESS THEREOF” Abstract The present invention relates to novel crystalline Forms of Tafamidis and process to prepare thereof. The present invention also relates to process of Tafamidis N-methyl-D-glucamine.

No. of Pages : 19 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041053253 A

(19) INDIA

(22) Date of filing of Application :07/12/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR PLUG-AND-PLAY DIFFERENTIAL PHASE ENCODED MEASUREMENT-DEVICE-INDEPENDENT QUANTUM KEY DISTRIBUTION

<p>(51) International classification :H04L0009080000, H04B0010700000, H04L0027233000, H04L0027200000, H04B0010516000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT Madras) Address of Applicant :The Dean, Industrial Consultancy & Sponsored Research [IC&SR], Indian Institute of Technology Madras, IIT PO, Chennai – 600036, Tamil Nadu, India. ----- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Shashank Kumar Ranu Address of Applicant :Ocean Lab, ESB, IIT Madras, Chennai – 600036, Tamil Nadu, India. ----- 2)Prabha Mandayam Address of Applicant :C1-1-3, IIT Madras, Chennai – 600036, Tamil Nadu, India. ----- 3)Dr. Anil Prabhakar Address of Applicant :C-9-1, 13th cross, IIT Campus, Guindy, Chennai – 600036, Tamil Nadu, India. -----</p>
---	--

(57) Abstract :
As attached

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202047046617 A

(19) INDIA

(22) Date of filing of Application :26/10/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : WORKING FACILITY

(51) International classification :F24F0007060000,
F24F0011740000,
F24F0110400000,
B01F0015000000,
F23G0005500000

(31) Priority Document No :2020-020902

(32) Priority Date :10/02/2020

(33) Name of priority country :-----

(86) International Application No :PCT/JP2020/026666
Filing Date :08/07/2020

(87) International Publication No :WO 2021/161555

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)TAIKISHA LTD.
Address of Applicant :17-1, Nishishinjuku 8-chome,
Shinjuku-ku, Tokyo 1606129 -----
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)KOIKE Toshihiko
Address of Applicant :c/o TAIKISHA LTD., 17-1, Nishishinjuku
8-chome, Shinjuku-ku, Tokyo 1606129 -----
2)YAMASHITA Tomoo
Address of Applicant :c/o TAIKISHA LTD., 17-1, Nishishinjuku
8-chome, Shinjuku-ku, Tokyo 1606129 -----

(57) Abstract :

Provided is a working facility capable of saving energy while enabling air volume regulation, with no working trouble caused. Each air volume regulation damper 7 is configured such that the opening of an air volume regulation damper 7 corresponding to the filter booth 4 with the smallest individual air volume as measured by an individual flow rate meter 8 is regulated to be fully opened, and the opening of other air volume regulation dampers 7 are regulated so that the individual air volumes measured by the respective individual flow rate meters 8 are equal to the smallest individual air volume measured. An exhaust fan 6 is configured such that the total air volume measured by a total flow rate meter 60 is regulated by a total air volume regulation mechanism 61 so as to be a predetermined target total air volume.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141000296 A

(19) INDIA

(22) Date of filing of Application :04/01/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : LOW COST AND SMART FLOOR SYSTEM FOR NAVIGATION ASSISTANCE FOR SENIOR CITIZENS AND PHYSICALLY CHALLENGED PEOPLE

(51) International classification :H02N0002180000, E04F0015020000, H01L0041113000, F21V0033000000, E04F0015100000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SONA COLLEGE OF TECHNOLOGY

Address of Applicant :Sona College of Technology, Thiagarajar Polytechnic College (TPT) Road, Salem 636005, Tamil Nadu, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)ANWARBASHA, Gulshan Taj Mohamed Nabi

Address of Applicant :D. No. 1241/5/519, 2nd Sannathi Street, Jagir Ammapalayam, Salem 636306, Tamil Nadu, India -----

2)RAMALINGAM, Malathy

Address of Applicant :4/89, Bhuvaneshwari Nagar, 4th cross, Steel plant Main Road, Thalavaipatti, Salem 636302, Tamil Nadu, India -----

3)RAJAGOPAL, Senthilkumar Sellamuthu Ramachandran

Address of Applicant :T4, Deen's Residency, No. 24, Ramakrishna Road, Salem 636007, Tamil Nadu, India -----

(57) Abstract :

ABSTRACT "LOW COST AND SMART FLOOR SYSTEM FOR NAVIGATION ASSISTANCE FOR SENIOR CITIZENS AND PHYSICALLY CHALLENGED PEOPLE" The present invention related to a system and method for generating electrical energy by using the mechanical force applied by the human or any other form of pressure application. In other words, the present invention related to a piezoelectric tiles flooring system which comprising three layers. In bottom layer, plastic mixed cement concrete layer of tile is placed. The second layer houses the circuit system wherein the sensors, battery, rectifier and transducers were placed. The upper layer is the arrangement of LED system that will glow whenever the mechanical force is applied thus converting mechanical energy into electrical energy.

No. of Pages : 20 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001973 A

(19) INDIA

(22) Date of filing of Application :15/01/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : METAL FOAM HEAT EXCHANGER

(51) International classification :B22D0025000000, A23G0003340000, B29C0043000000, C04B0035640000, B01J0035000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Indian Institute of Science (IISc)

Address of Applicant :Sir C V Raman Avenue Bangalore
Karnataka India 560012 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Satish Vasu Kailas

Address of Applicant :Department of Mechanical Engineering
Indian Institute of Science Bangalore Karnataka India 560012 ----

2)Prabha Samudre

Address of Applicant :Centre for Product Design and
Manufacturing Indian Institute of Science Bangalore Karnataka
India 560012 -----

(57) Abstract :

A method of making a metal foam article is described. The method comprises the steps of, preparing a plurality of particles of an inorganic compound, placing the plurality of particles in a die to obtain a loaded die, heating the loaded die to a first temperature to obtain a heated loaded die, pouring a molten metal into the heated loaded die, placing a predetermined weight over the molten metal in the heated loaded die, inducing a vibration in the heated loaded die by means of a vibration generator, cooling the heated loaded die to a second temperature, and dissolving the plurality of particles in a solvent to prepare a metal foam article. An article, comprising the metal foam is also described herein.

No. of Pages : 31 No. of Claims : 10

(54) Title of the invention : NOVEL DESIGN AND FABRICATION OF EXPANDABLE SPACE LAB AND GCS ON WHEELS

	<p>(71) Name of Applicant : Dr. KANAPATHY GOPALAKRISHNAN Address of Applicant :EMERITUS PROFESSOR & ACADEMIC COUNCIL MEMBER, SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BY-PASS, COIMBATORE, TAMIL NADU, INDIA - 641 062. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72) Name of Inventor : 1) JOSHUA TOM JACOB Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>2)DUSAN RADOSAVLJEVIC Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>3)Dr. SACHIN UNTAWALE Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>4)PROF.M. BENISHA XAVIER Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>5)PROF.SUGANYA MYLSAMY Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>6)VISHWA GOPAL Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>7)ASHWIN SHANKAR REDDY Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>8)NIKHIL RIYAZ Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>9)DENZEL ABRAHAM GEORGE Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>10)YARUN SAI REDDY Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>11)SAINATH VAMSHI Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>12)BHAVANA SAVANTHI Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>13)Dr. S. PRAKASH Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>14)Dr. A.R.RAVIKUMAR Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>15)Dr. K.E. KANNAMMAL Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>16)Dr. S. BHAVANI Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>17)Dr. G. SUNDAR Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>18)Dr. KALARASI ARUMUGAM Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p> <p>19)MADHUVANTHANI RAJENDRAN Address of Applicant :SRI SHAKTHI SOCIETY FOR TECHNOLOGY BUSINESS INCUBATOR, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, COMMITTEE FOR SPACE PROGRAM DEVELOPMENT(CSPD), SERBIA, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR JEPPIAAR INSTITUTE OF TECHNOLOGY, SRIPERUMBUDUR, HoD@ FACULTY MEMBERS/SATELLITE TEAM @ SIET SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BY-PASS, COIMBATORE,CHINNIYAMPALAYAM POST, TAMIL NADU, INDIA - 641 062. -----</p>
--	--

(57) Abstract :
This parent disclosure Novel Design and Fabrication of Expandable Space Lab and GCS as described above in Figures 1 to 5. "Space Lab and Ground Control Station (GCS) On Wheels" has been built on multi-axle chassis with an expandable auditorium to house the lab and GCS. It also houses various models of launch vehicles (such as SLV, ASLV, PSLV, GSLV etc), satellites (polar and geostationary), various mock-up models of Launch Vehicles/Lunar/Mars Mission Replica etc. Some of the visitors are expected to visit the bus and experience World space technology with great enthusiasm and eagerness in near future! Spacecraft Models: The Space Lab on Wheels, houses scaled-down models of various launch vehicles, and spacecraft so that students can easily grasp the principles behind them". The Ground Station (GS) mounted inside the below Mobile Lab on Wheels is capable of tracking Low earth Orbit (LEO) Satellites! Our GS has networked with TSC SatNAV: Amateur Radio and Weather Satellite Tracker and Passes Predictor for Android! Even with Mobile App, satellites can be tracked and communicated!

(54) Title of the invention : A PROCESS FOR PREPARING SIFCON AND PREDICTING ITS COMPRESSIVE STRENGTH USING MANUFACTURED SAND

<p>(51) International classification :C04B0028020000, G01N0001280000, B28B0023000000, C04B0014060000, G01N0001360000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Gottapu Santosh Kumar Address of Applicant :Department of Civil Engineering, Gayatri Vidya Parishad College of Engineering (A), Visakhapatnam-530048, India, -----</p> <p>2)Gottapu Prashanti 3)Koduri Sreelakshmi</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Gottapu Santosh Kumar Address of Applicant :Department of Civil Engineering, Gayatri Vidya Parishad College of Engineering (A), Visakhapatnam-530048, India, -----</p> <p>2)Gottapu Prashanti Address of Applicant :Andhra University College of Pharmaceutical Sciences, Visakhapatnam-530003 -----</p> <p>----</p> <p>3)Koduri Sreelakshmi Address of Applicant :Department of Electronics and Communication Engineering, Andhra University College of Engineering (A), Andhra University, Vishakhapatnam-530003, Andhra Pradesh, India -----</p>
---	---

(57) Abstract :

The present disclosure relates to a process for preparing SIFCON and predicting its compressive strength using manufactured sand. A process for preparing SIFCON and predicting its compressive strength using manufactured sand, said process comprises the following steps: replacing fibers randomly in horizontal layers in a cubic mold; blending cement and aggregates together in a dry condition; mixing water with superplasticizer and gradually adding to cement mixture to prepare a homogeneous mortar; preparing 32 samples containing three different steel fibre contents (8, 10 and 12% by volume);infiltrating prepared mortar slurry into fibers which is already preplaced in cubic molds; applying soft vibration to slurry infiltrated fibrous concrete (SIFCON) samples to make sure that matrix completely surrounds fibers; keeping specimens undisturbed for 24hrs until demolding is done; and placing specimens in water at 20°C in sections till 7th, 28th, and 56th day and thereafter drying specimens in air.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141029574 A

(19) INDIA

(22) Date of filing of Application :01/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : A SYSTEM AND A METHOD FOR EVALUATING COMPRESSION STRENGTH OF A MATERIAL

(51) International classification :B28B0011240000, C04B0040000000, G01N0033380000, C04B0018140000, G01N0003080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Gottapu Santosh Kumar

Address of Applicant :Department of Civil Engineering, Gayatri Vidya Parishad College of Engineering (A), Visakhapatnam-530048, India, -----

2)Gottapu Prashanti

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Gottapu Santosh Kumar

Address of Applicant :Department of Civil Engineering, Gayatri Vidya Parishad College of Engineering (A), Visakhapatnam-530048, India, -----

2)Gottapu Prashanti

Address of Applicant :Andhra University College of Pharmaceutical Sciences, Visakhapatnam-530003. -----

(57) Abstract :

The present disclosure relates to a system and a method for evaluating compression strength of a material. The addition of steel fibres in SIFCON significantly increased the compressive strength. The compressive strength obtained has gradually increased with the curing period i.e, from 7 to 91 days. On comparison of addition of 8%, 10% and 12% steel fibres in concrete, 12% fibre showed the optimum value in compressive strength for all the curing periods. There is a variation in the rate of increase of the compressive strength is large at the early stage of curing period and later the rate of increase of strength has decreased. This is because the hydration process gets slowed down as the curing age progresses from 28 days to 98 days. The application of Levenberg-Marquardt based neural network models and Polynomial Curve fitting for predicting the compressive strength of SIFCON has been demonstrated. The LM based neural network model and Polynomial Curve fitting is able to predict the compressive strength of SIFCON concrete satisfactorily for new problems with an accuracy of about 95% and 80% respectively.

No. of Pages : 26 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141031739 A

(19) INDIA

(22) Date of filing of Application :14/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : NOVEL QUINOLINE TRIAZOLES AS ANTI-TUBERCULAR AGENTS

(51) International classification :G01N0033500000, C07K0014720000, C07D0401040000, C07D0215227000, G16B0005000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. A. JERAD SURESH
Address of Applicant :ADDRESS: 1/2, CHELLAPA GARDEN, KOTTURPURAM, CHENNAI-600085. -----

2)G. PRIYADHARSHINI
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. A. JERAD SURESH
Address of Applicant :ADDRESS: 1/2, CHELLAPA GARDEN, KOTTURPURAM, CHENNAI-600085. -----
2)G. PRIYADHARSHINI
Address of Applicant :95, SUBASHREE NAGAR, MUGALIVAKKAM, CHENNAI -600116 -----

(57) Abstract :

NOVEL QUINOLINE TRIAZOLES AS ANTI-TUBERCULAR AGENTS ABSTRACT The invention relates to substituted heterocyclic compounds of pharmaceutical compositions containing such a compound and their therapeutic uses. Compounds of the present invention are especially useful for treating the Mycobacterial infection. By considering all the complications in the Anti-Tb treatment, it was decided to design and synthesize some potent quinoline triazoles against the novel TB target LdMt2 and glutamine synthetase 1. To avoid failures in the later stages of drug discovery and development the candidate drug molecules were assessed for their Toxicity and Drug likeness using In-silico online tools. Non-toxic molecules were synthesized by a suitable laboratory method. Purity of the synthesized molecules were assessed by various analytical and spectroscopic techniques. Anti-tubercular activity of the molecules was determined by Microplate Alamar Blue Assay (MABA) and their acute oral toxicity was evaluated by performing Acute Oral toxicity studies on Albino mice by following OECD guidelines 423.

No. of Pages : 27 No. of Claims : 3

(54) Title of the invention : NOVEL OXADIAZOLE DERIVATIVES AS ANTI-TUBERCULAR AGENTS

(51) International classification :C07D0413040000, C07D0271060000, C07D0271113000, C12Q0001180000, C07D0413140000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)L. ANITHA

Address of Applicant :221 A BAZAAR STREET, MADHAVARAM, CHENNAI-600 060. -----

2)Dr.A.JERAD SURESH

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.A.JERAD SURESH

Address of Applicant :1/2, CHELLAPPA GARDEN, KOTTURPURAM, CHENNAI – 60008 -----

2)L. ANITHA

Address of Applicant :221 A BAZAAR STREET, MADHAVARAM, CHENNAI-600 060. -----

(57) Abstract :

NOVEL OXADIAZOLE DERIVATIVES AS ANTI-TUBERCULAR AGENTS ABSTRACT: The present invention relates to substituted 5-(1-amino 2-phenylethyl)-1,3,4 oxadiazole-2-(3H) thione compounds of formula I as defined in the description and salts thereof, their preparation and therapeutic use in treating tuberculosis. One such target is L,D Transpeptidase 2 enzyme that is mainly responsible for cross linking of peptidoglycan in the cell wall. So molecules with oxadiazole scaffold was designed and sketched. By using computational tools the toxicity prediction and drug likeness were predicted to avoid the rejection of molecules at later stages of drug discovery. The molecules with good docking score and interactions were further taken for synthesis. The compounds were purified and subjected to characterization through various spectroscopic studies. Finally the molecules are tested for their antitubercular activity by MABA assay. The molecules with good minimum inhibitory concentration <6.25µg/mL were subjected to acute oral toxicity studies in albino mice as per the OECD guideline 423. Fig 1

No. of Pages : 30 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141038780 A

(19) INDIA

(22) Date of filing of Application :26/08/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SMART LowSal injection fluids for oilfield application to recover crude oil from the matured reservoir

(51) International classification :C09K0008584000, C09K0008588000, E21B0043200000, E21B0043160000, C09K0008580000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Indian Institute of Technology Madras

Address of Applicant :The Dean, Indian Institute of Technology Madras (IIT Madras), Industrial Consultancy & Sponsored Research (IC&SR) building, Sardar Patel Road, IIT P.O., CLRI opposite, Adyar, Chennai 600036 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Jitendra S. Sangwai

Address of Applicant :Department of Chemical Engineering, Indian Institute of Technology Madras (IIT Madras) - Chennai Tamil Nadu India 600036 -----

2)Uma Sankar Behera

Address of Applicant :Department of Ocean Engineering, Indian Institute of Technology Madras (IIT Madras) - Chennai Tamil Nadu India 600036 -----

(57) Abstract :

See attachment

No. of Pages : 42 No. of Claims : 14

(54) Title of the invention : SYSTEM AND METHOD TO MONITOR ELECTROCARDIOGRAPHY (ECG) SIGNAL OF A USER

(51) International classification :A61B0005000000, A61B0005040200, A61B0005040000, A61B0005045200, A61B0005045600

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

(71)**Name of Applicant :**
1)SENSE HEALTH TECHNOLOGIES PRIVATE LIMITED
 Address of Applicant :ITIC FOUNDATION, ACADEMIC BLOCK -C, ROOM NO - 616, IIT HYDERABAD, KANDI, SANGAREDDY, 502285, TELANGANA, INDIA -----

Name of Applicant : NA
Address of Applicant : NA
 (72)**Name of Inventor :**
1)AMIT ACHARYYA
 Address of Applicant :ROOMNO. 616, SENSE HEALTH TECHNOLOGIES PVT LTD, ITIC FOUNDATION, ACADEMIC BLOCK-C, KANDI, SANGAREDDY, 502285, TELANGANA, INDIA -----
2)GUNDLAPALLE VISHNUVARDHAN
 Address of Applicant :ROOMNO. 616, SENSE HEALTH TECHNOLOGIES PVT LTD, ITIC FOUNDATION, ACADEMIC BLOCK-C, KANDI, SANGAREDDY, 502285, TELANGANA, INDIA -----
3)VEMISHETTY NARESH
 Address of Applicant :ROOMNO. 616, SENSE HEALTH TECHNOLOGIES PVT LTD, ITIC FOUNDATION, ACADEMIC BLOCK-C, KANDI, SANGAREDDY, 502285, TELANGANA, INDIA -----

(57) Abstract :
 System and method to monitor Electrocardiography (ECG) signal of a user are provided. The system includes an input module configured to receive an input corresponding to ECG signal; a noise filtering module configured to eliminate at least one noise from the input retrieved; a DWT module configured to generate DWT coefficient; a boundary detection module configured to segment the continues ECG signal into individual heart beats; a fiducial points extraction module configured to extract fiducial points from the ECG signal,; a discrete wavelet transform module configured to generate DWT coefficient of a pre-defined level; an ECG analysis module configured to classify the input into categories upon analysing the ECG signal and to analyse the interval points using a PSR technique to generate an analysis report; a suggestion module configured to generate a suggestion representative of a drug, a remedy, based on the analysis report. FIG. 1

No. of Pages : 28 No. of Claims : 10

(54) Title of the invention : AN APPARATUS FOR MEASURING ELECTROCARDIOGRAPHY OF A USER

(51) International classification :A61B0005000000, A61N0001360000, A61B0005040800, G06F0003044000, A61N0001050000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

(71)**Name of Applicant :**
1)SENSE HEALTH TECHNOLOGIES PRIVATE LIMITED
 Address of Applicant :ITIC FOUNDATION, ACADEMIC BLOCK -C, ROOM NO - 616, IIT HYDERABAD, KANDI, SANGAREDDY, 502285, TELANGANA, INDIA -----

Name of Applicant : NA
Address of Applicant : NA
 (72)**Name of Inventor :**
1)AMIT ACHARYYA
 Address of Applicant :ROOMNO. 616, SENSE HEALTH TECHNOLOGIES PVT LTD, ITIC FOUNDATION, ACADEMIC BLOCK-C, KANDI, SANGAREDDY, 502285, TELANGANA, INDIA -----
2)GUNDLAPALLE VISHNUVARDHAN
 Address of Applicant :ROOMNO. 616, SENSE HEALTH TECHNOLOGIES PVT LTD, ITIC FOUNDATION, ACADEMIC BLOCK-C, KANDI, SANGAREDDY, 502285, TELANGANA, INDIA -----
3)VEMISHETTY NARESH
 Address of Applicant :ROOMNO. 616, SENSE HEALTH TECHNOLOGIES PVT LTD, ITIC FOUNDATION, ACADEMIC BLOCK-C, KANDI, SANGAREDDY, 502285, TELANGANA, INDIA -----

(57) Abstract :
 An apparatus for measuring Electrocardiography of a user is disclosed. The apparatus includes a lead management module configured to receive a lead configuration command from a user via a user interface, wherein the lead configuration command is representative of a total number of electrodes to be enabled from the plurality of electrodes to enable the apparatus for measuring Electrocardiography to function as a N-leads ECG apparatus; ADC configured to enable electrical operations between the plurality of electrodes based on the lead configuration command; at least one port configured to transmit or receive signal between each of the plurality of electrodes and the ADC; a data control module configured to set a time frame for recording ECG signal of the user; a user data access module configured to access user data associated to the ECG signal of the user. FIG. 1

No. of Pages : 21 No. of Claims : 6

(54) Title of the invention : A MACHINE LEARNING BASED PRIORITY TOKEN SYSTEM FOR REPORTERS FOR AN EFFECTIVE INTERVIEW IN CROWDING SITUATION

(51) International classification :G06Q0010100000, H04L0029080000, G10L0025480000, G06Q0090000000, G06K0009000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA
 Filing Date :NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Senthil Kumar Kathiresan
 Address of Applicant :Male, Professor, Department of Computer Science & Engineering, Bharath Niketan Engineering College, Thimmarasanaickanoor, Aundipatti, Theni District Tamilnadu -625536. E-Mail:senthilcoh@yahoo.com Ph:9840771316 -----

2)Balachandran Vadivel
3)Nawroz Ramadan Khalil
4)Vijendra Singh
5)Dr. Saumya Chaturvedi
6)Dr. Anuj Kumar
7)Ms. Sunita Tripathi
8)Ms. Supriya Pradeep Kurlekar
9)Mr. N. Nagarajan
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Senthil Kumar Kathiresan
 Address of Applicant :Male, Professor, Department of Computer Science & Engineering, Bharath Niketan Engineering College, Thimmarasanaickanoor, Aundipatti, Theni District Tamilnadu -625536. E-Mail:senthilcoh@yahoo.com Ph:9840771316 -----

2)Balachandran Vadivel
 Address of Applicant :Male, Assistant Professor, Department of English, Cihan University - Duhok, Kurdistan Region, Iraq. E-Mail: balachandran.vadivel@duhokcihan.edu.krd Ph: +9647507551856 -----

3)Nawroz Ramadan Khalil
 Address of Applicant :Female, Assistant Professor, Department of English, Cihan University - Duhok, Kurdistan Region, Iraq. Email: nawroz.khalil@duhokcihan.edu.krd Ph: +9647513893395 -----

4)Vijendra Singh
 Address of Applicant :Male, Professor, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India-248007. E-Mail: vijendra.singh@ddn.upes.ac.in Ph: 91-8800642397 -----

5)Dr. Saumya Chaturvedi
 Address of Applicant :Female, Associate Professor, Department of Computer Science & Engineering, School of Engineering and Technology (SET) Sharda University, Plot no .32, KP 3, Greater Noida, Uttar Pradesh 201308. Ph:8383889671 E-Mail: Saumyanmishra5@gmail.com -----

6)Dr. Anuj Kumar
 Address of Applicant :Male, Assistant Professor. Department of Computer Science and Engineering, School of Engineering and Technology (SET) Sharda University, Plot no .32, KP 3, Greater Noida, Uttar Pradesh 201308. Ph:9313346934 E-Mail: anuj.kumar15@sharda.ac.in -----

7)Ms. Sunita Tripathi
 Address of Applicant :Female, Lecturer, Center of Computer Education and Training, University of Allahabad, Science Faculty, University of Allahabad, Colonelganj, Prayagraj, Uttar Pradesh 201308. Ph:9810408341 E-Mail: meet.suni@gmail.com -----

8)Ms. Supriya Pradeep Kurlekar
 Address of Applicant :Female, Assistant Professor, Department of Electronics & Computer Engineering, Sharad Institute of Technology, College of Engineering, Yadrav, Ichalkaranji, Kollapur-416121, Maharashtra. Ph:9890815552 E-Mail: supriyakurlekar@gmail.com -----

9)Mr. N. Nagarajan
 Address of Applicant :Technical Director & Lead Patent Analyst, Department of Mechanical Engineering, NSKD Techno Research and Innovation Solution, Dharmapuri District. E-Mail: nskdtris@gmail.com Ph:9791986874,9080832356 -----

(57) Abstract :
 A MACHINE LEARNING BASED PRIORITY TOKEN SYSTEM FOR REPORTERS FOR AN EFFECTIVE INTERVIEW IN CROWDING SITUATION ABSTRACT OF THE INVENTION Journalism is one of the important pillars of democracy in any nation. It involves the news collection, content writing and communicating to the people. Journalists are the people who involving the above said process/s. The toughest task they regularly doing is nothing but the interviewing the VIPs and/or celebrities. Most of the time it is happened in the common and crowd locations where people belongs to the interviewees and the journalists are gathered. Asking questions by journalists and answering for those questions by the interviewees are found to be a tedious task here. Apart there might be the possibility of recording the comments due to noisy situation. To overcome the above said issues, the present invention focuses on developing the automatic token system based on the priority to the press people to ask questions. This invention comprises of the cloud database, Priority Information Display, Journalist's/reporter's Mobile Phone with dedicated booking application, Priority Selector Switch, Order Selector Switch. A detailed information about the media is stored and updated in the cloud database. It has a provision of entering the attendance of the journalists so as the priority is given to them to interviewees. Also, the module comprises of the database of all journals/magazines/newspapers. The priority can be set in advance based on the database and the display shows the media name to ask questions to the interviewee. This facilitates to avoid confusions and promote the conducive environment while an interview processes especially in the crowd situation.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141049918 A

(19) INDIA

(22) Date of filing of Application :31/10/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : RECOGNITION AND CLASSIFICATION OF INDIAN MEDICINAL LEAVES AND TULASI PLANTS USING CONVOLUTION NEURAL NETWORK FOR FEATURE LEARNING AND WEIGHTED KERNEL SPARSE REPRESENTATION AS CLASSIFIER

<p>(51) International classification :G06N0003040000, G06K0009620000, G06N0003080000, G06K0009000000, G06T0007000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Pankaja K Address of Applicant :#2797 18th B Main 5th Cross H A L 2nd Stage Indiranagar -----</p> <p>2)Pankaja K 3)Dr. Suma V 4)Dr. S. L. Deshpande 5)Dr. Manisha Tapale Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Pankaja K Address of Applicant :#2797 18th B Main 5th Cross H A L 2nd Stage Indiranagar -----</p> <p>2)Dr. Suma V Address of Applicant :Professor and Head of Computer Science and Design, Dayananda Sagar College of Engineering Bengaluru - -----</p> <p>3)Dr. S. L. Deshpande Address of Applicant :Professor and Chairperson, Department of Computer Science and Engineering, Visvesvaraya Technological University (VTU), Belagavi -----</p> <p>4)Dr. Manisha Tapale Address of Applicant :Associate Professor, Department of Computer Science and Engineering, KLE Dr. M. S. Sheshgiri College of Engineering and Technology, Belagavi Campus -----</p>
---	---

(57) Abstract :

Plants are the key factor for the survival of life on earth. Majority of medicinal plants are wild crafted and believed to have more medicinal properties. Plants can be regularly grouped based on different parts of plants. Leaf identification plays vital part in plant classification. In today's era, Deep learning has become an active research area and Convolutional Neural Network (CNN) is one of the popular Deep learning approach. This paper discusses, how leaf features are extracted automatically using CNN and Weighted Kernel Sparse Representation (WKSr) as a classifier. This Machine/Deep learning algorithms are applied on 30 species of Indian medicinal leaves as well as 12 species of Tulasi plants for identification and classification and has achieved high accuracy of 99.23% and 95% respectively.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141051339 A

(19) INDIA

(22) Date of filing of Application :09/11/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : : WEARABLE MEDICAL DEVICE TO RELIEVE THE SYMPTOMS OF HAEMORRHOIDS AND METHOD OF USING THE SAME

(51) International classification :A61F0007000000, A61N0001390000, A61B0005000000, A61N0001040000, H04N0021433000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Kishore Kiran

Address of Applicant :Door No.8/99, Kavitha, Thuravoor P.O., Cherthala, Alappuzha District, Kerala- , India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Kishore Kiran

Address of Applicant :Door No. 8/99, Kavitha, Thuravoor P.O.,Cherthala, Alappuzha District -688532 -----

(57) Abstract :

WEARABLE MEDICAL DEVICE TO RELIEVE THE SYMPTOMS OF HAEMORRHOIDS AND METHOD OF USING THE SAME Disclosed herein is a peculiarly designed dome shaped 101 medical device 100 made of suitable flexible material that can be inserted into the anal canal 105, snugly fitted in between the buttocks 103 and worn with or without a string 108 with attachment 109 to hold it from falling off as shown in FIG. 2. There are no medical devices or products that can give immediate or sustained relief to a patient suffering from piles. The present invention is used to relieve the patient of various symptoms of haemorrhoids like pain due to strangulation, burning sensation and also to prevent thrombosis instantly by pushing in the prolapsing haemorrhoid 106.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141051420 A

(19) INDIA

(22) Date of filing of Application :10/11/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : A SYSTEM FOR SYMMETRIC/ANTI-SYMMETRIC EXTENSION OF FINITE LENGTH SIGNALS AND METHOD THEREOF

(51) International classification :H03H0017020000, H03H0017000000, G06T0001600000, G06F0005060000, G01R0023020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)NATIONAL INSTITUTE OF TECHNOLOGY PUDUCHERRY

Address of Applicant :Thiruvettakudy, Karaikal - 609 609, Puducherry, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)ANIRUDDHA KANHE

Address of Applicant :Department of Electronics and Communication Engineering, National Institute of Technology Puducherry, Thiruvettakudy, Karaikal - 609 609, Puducherry, India -----

2)KASETTY PRAVEEN KUMAR

Address of Applicant :Department of Electronics and Communication Engineering, National Institute of Technology Puducherry, Thiruvettakudy, Karaikal - 609 609, Puducherry, India -----

(57) Abstract :

The present invention relates to the field of digital signal processing using digital VLSI system implemented on FPGA for pre-processing a signal in digital filtering applications. More particularly the present invention relates to a system for symmetric/anti-symmetric extension of finite length signals for handling border discontinuities. The system (100) for symmetric/anti-symmetric extension of finite length signals, comprises of a shift register (105), plurality of last in first out (LIFO) buffers (103, 104), two's complement circuit (101), plurality of multiplexers (102, 106) and an finite-state machine (FSM) controller (107). Further the present invention relates to a method of performing symmetric/anti-symmetric extension. Advantageously the present invention relates to a system that is isolated with the digital filter, so that its critical path remains unchanged. FIGURE 5.

No. of Pages : 37 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054356 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : “Cu-catalyzed practical domino synthesis of thioaurone and thioindirubin from commercially available starting materials using odorless xanthate as sulfur surrogate”

(51) International classification :A01N0043560000, A63F0009200000, G01N0001220000, C07D0213610000, H03K0019096000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT MADRAS)

Address of Applicant :The Dean Industrial Consultancy & Sponsored Research (IC&SR), Indian Institute of Technology Madras, Sardar Patel Road, IIT Post Chennai Tamil Nadu India 600036 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Palanisamy Soundarya

Address of Applicant :75, Thanneer panthal thottam, , B.P.Agraharam.post Erode (Tk), Erode (Dt) Tamilnadu India 638005 -----

2)Govindasamy Sekar

Address of Applicant :B26 -2D, Delhi Avenue, IIT Madras Chennai India 36 -----

(57) Abstract :

PLEASE SEE THE ATTACHMENTS.

No. of Pages : 35 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141055854 A

(19) INDIA

(22) Date of filing of Application :02/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : MODEL OF ICT BASED BLENDED EDUCATION SYSTEM: PRODUCTIVE IMPLEMENTATION FOR SECTOR SKILLS DEVELOPMENT

(51) International classification :G06F0008300000, G06Q0010060000, H05K0007200000, G06Q0050200000, G06F0008200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)

Address of Applicant : -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)

Address of Applicant : -----

(57) Abstract :

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141055975 A

(19) INDIA

(22) Date of filing of Application :02/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : "A process to synthesize (aryl)(heteroaryl)methanols"

(51) International classification :C07D0409140000, C07D0403060000, B01J0023800000, C07D0401060000, C07D0471100000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT MADRAS)

Address of Applicant :The Dean Industrial Consultancy & Sponsored Research (IC&SR), Indian Institute of Technology Madras, Sardar Patel Road, IIT Post Chennai Tamil Nadu India 600036 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Govindasamy Sekar

Address of Applicant :B26 -2D, Delhi Avenue, IIT Madras, Chennai-36, India -----

2)Somraj Guha

Address of Applicant :P-31, Udayan Park, Cahnditalla Br. Road, New Alipur, Kolkata 700053, India -----

3)Dhanarajan Arunprasath

Address of Applicant :10, Dharmalingam St, Rajajipuram, Tiruvallur, Tamil Nadu-602001 -----

(57) Abstract :

PLEASE SEE THE ATTACHMENTS.

No. of Pages : 37 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141056397 A

(19) INDIA

(22) Date of filing of Application :06/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SELF-SUSTAINED CONTROLLED OXIDATIVE FLASH DE-VOLATILIZATION SYSTEM FOR BIOCHAR SYNTHESIS

(51) International classification :C10B0053020000, C10J0003000000, C25B0015080000, C10B0047440000, C10L0005440000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT MADRAS)

Address of Applicant :The Dean, Industrial Consultancy & Sponsored Research [IC&SR], Indian Institute of Technology Madras, Sardar Patel Road, IITP.O, Chennai, Tamil Nadu, India, Pincode-600036 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)VARUNKUMAR S

Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY MADRAS, IIT P.O, CHENNAI – 600 036, INDIA -----

2)MUTHU KUMAR K

Address of Applicant :DEPARTMENT OF AEROSPACE ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY MADRAS, IIT P.O, CHENNAI – 600 036, INDIA -----

(57) Abstract :

A self-sustained controlled oxidative flash de-volatilization system (100) for biochar synthesis, is disclosed herein. The system (100) comprises feeding system (1), vertical kiln (2), biochar collecting unit (3), cleaning and cooling system (4), flow controlling unit (5) and burner (6). The feeding system (1) further comprises a hopper (1a) and a screw conveyor (1c). The system (100) is maintained at higher initial temperature conditions for fuel (biomass) and oxidizer (air), wherein, the heat required for raising the temperature of biomass and air (to 30-50oC below de-volatilization temperature) can be taken from the high temperature product gas (2i)/ through combustion of the product gas (2i) (producer gas) in the burner (6).

No. of Pages : 26 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141056498 A

(19) INDIA

(22) Date of filing of Application :06/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : MANNEQUIN BASED TRAINING SYSTEM AND SIMULATOR FOR OPHTHALMIC SUB-TENON ANAESTHESIA

(51) International classification :G09B0023280000, A61M0016010000, G09B0023340000, A61F0009000000, G09B0009000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT Madras)
Address of Applicant :Office of the Dean, ICSR, IIT PO, Chennai 600036 -----
2)MEDICAL RESEARCH FOUNDATION, SANKARA NETHRALAYA
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)KUMAR, Nimal J
Address of Applicant :Department Electrical Engineering IIT Madras, Chennai 600036 -----
2)GEORGE, Boby
Address of Applicant :Department Electrical Engineering IIT Madras, Chennai 600036 -----
3)SIVAPRAKASAM, Mohanasankar
Address of Applicant :Department Electrical Engineering IIT Madras, Chennai 600036 -----
4)Dr VEPARY VENKATAKRISHNAN, Jaichandran
Address of Applicant :Medical Research Foundation, Sankara Nethralaya, No. 41 Old No, 18, College Rd, Nungambakkam, Chennai, Tamil Nadu 600006 -----

(57) Abstract :
See attachment

No. of Pages : 36 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141056856 A

(19) INDIA

(22) Date of filing of Application :07/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : "GREEN SYNTHESIS OF SUBSTITUTED 2-PHENYLMIDAZO-[1,2-A]PYRIDINES"

(51) International classification :C07D0471040000, C01B0032192000, B82Y0040000000, C01B0032190000, C07C0311490000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT MADRAS)

Address of Applicant :The Dean Industrial Consultancy & Sponsored Research (IC&SR), Indian Institute of Technology Madras, Sardar Patel Road, IIT Post Chennai Tamil Nadu India 600036 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Govindasamy Sekar

Address of Applicant :B26 -2D, Delhi Avenue, IIT Madras Chennai India 36 -----

2)Imran Kazi

Address of Applicant :Vill -South DI, P.O-Chandi, P.S-Bishnupur, DIST- South 24 PGS West Bengal India 743503 -----

3)Nallappan Sundaravelu

Address of Applicant :2/293, chettaiyar street, devanancheri (P.O), kumbakonam (T.K), Thanjaur (D.T), Tamil Nadu India 613001 -----

4)Anuradha Nandy

Address of Applicant :N-554, Sector-25, Jalvayu Vihar, Noida India 201301 -----

(57) Abstract :

PLEASE SEE THE ATTACHMENTS.

No. of Pages : 31 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141056946 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : Electronic Variable Valve Actuation (EVA) System for advanced combustion engines

(51) International classification :F01L0013000000, F01L0001080000, F01L0009020000, F01L0009040000, F01L0001260000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Indian Institute of Technology Madras (IIT Madras)

Address of Applicant :Industrial Consultancy & Sponsored Research (IC&SR), Indian Institute of Technology Madras I.I.T P.O, Chennai 600 036, Tamil Nadu, India, -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)K Anand

Address of Applicant :201 IC Engines Laboratory, Indian Institute of Technology Madras, Chennai-600036 -----

2)J Pradeep Bhasker

Address of Applicant :201 IC Engines Laboratory, Indian Institute of Technology Madras, Chennai-600036 -----

(57) Abstract :

The present invention provides an Electronic based Variable valve Actuation (EVA) system which comprises of an electric motor (DC), cam coupler (2), electronic motor controller (15) and engine valves (7). The shaft end of the motor is connected to a cylindrical cam (3) wherein the cam profile is etched on the cylindrical cam (3) in the form of helical groove (4). The helical pattern resembles the valve lift such that the maximum lift is fixed. The groove is linked with a ball type roller-follower (8) which is connected to an engine valve (7) with the help of a metal valve connector. The overall arrangement is anchored to a stand to provide fixed linkages for a 3-link spatial valve motion. The rotational position of the engine crankshaft is fed to the motor controller (15) which actuates the flexible movement of valves (7) in synchronization with the crankshaft speed. (Figure to be published along with abstract: Figure 1).

No. of Pages : 17 No. of Claims : 14

(54) Title of the invention : A SYSTEM FOR TREATMENT OF DOMESTIC WASTEWATER USING EISENIA FETIDA EARTHWORMS

<p>(51) International classification :C02F0003040000, C02F0001280000, A01K0067033000, B32B0027300000, B01D0024200000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr. Shankar B.S Address of Applicant :Professor, Department of Civil Engineering, Cambridge Institute of Technology, Jai Bhuvaneshwari Layout Rd, SR Layout, Chikkabasavanapura, Krishnarajapura, Bengaluru, Karnataka 560036, India. ----- --</p> <p>-----</p> <p>2)Sreevidya Raman. S Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Shankar B.S Address of Applicant :Professor, Department of Civil Engineering, Cambridge Institute of Technology, Jai Bhuvaneshwari Layout Rd, SR Layout, Chikkabasavanapura, Krishnarajapura, Bengaluru, Karnataka 560036, India. ----- --</p> <p>-----</p> <p>2)Sreevidya Raman. S Address of Applicant :Assistant Professor, Department of Civil Engineering, Cambridge Institute of Technology, Jai Bhuvaneshwari Layout Rd, SR Layout, Chikkabasavanapura, Krishnarajapura, Bengaluru, Karnataka 560036, India. ----- --</p> <p>-----</p>
--	--

(57) Abstract :

The system comprises an upper chamber for storing a vermifilter bed, wherein the vermifilter bed comprises a topmost layer consist of bedding materials having a plurality of earthworms, a middle layer of a sand, a bottom layer consist of a fine gravel and a coarse gravel; a metal mesh coupled beneath the upper chamber supported by a plurality of pillars for allowing only water to trickle down; a PVC drum kept on an elevated platform connected for releasing wastewater, wherein the PVC drums comprises a tap at a bottom to which an irrigation system consisted of an irrigation pipe with holes for trickling water that allowed uniform distribution of wastewater on a soil surface of the upper surface; and a lower chamber for collecting filtered water from the wastewater percolated down through various layers in the vermifilter bed passing through the soil layer inhabited by earthworms.

No. of Pages : 25 No. of Claims : 10

(54) Title of the invention : A SYSTEM AND METHOD FOR CALCULATING AN INTENSIFYING DEGRADATION OF GROUNDWATER QUALITY OVER A PERIOD OF TIME

<p>(51) International classification :G01N0033180000, E21B0049080000, C02F0103060000, A61B0005020500, A61B0005024000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr. Shankar B.S Address of Applicant :Professor, Department of Civil Engineering, Cambridge Institute of Technology, Jai Bhuvaneshwari Layout Rd, SR Layout, Chikkabasavanapura, Krishnarajapura, Bengaluru, Karnataka 560036, India. ----- --</p> <p>-----</p> <p>2)Sreevidya Raman. S Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Shankar B.S Address of Applicant :Professor, Department of Civil Engineering, Cambridge Institute of Technology, Jai Bhuvaneshwari Layout Rd, SR Layout, Chikkabasavanapura, Krishnarajapura, Bengaluru, Karnataka 560036, India. ----- --</p> <p>-----</p> <p>2)Sreevidya Raman. S Address of Applicant :Assistant Professor, Department of Civil Engineering, Cambridge Institute of Technology, Jai Bhuvaneshwari Layout Rd, SR Layout, Chikkabasavanapura, Krishnarajapura, Bengaluru, Karnataka 560036, India. ----- --</p> <p>-----</p>
--	--

(57) Abstract :

The present invention generally relates to a system for calculating an intensifying degradation of groundwater quality over a period of time comprises a plurality of two-liter polyvinyl chloride (PVC) containers for collecting a plurality of groundwater samples from a bore well and an open well thereby sealing tightly; an analysis unit for analyzing a set of physico-chemical parameters of the plurality of groundwater samples and computing water quality indices to communicate information on the quality of water to the concerned citizens and the policy makers; and a control unit for generating a rating of the groundwater in one of a consumption quality selected from a excellent, good, poor, very poor and unfit for consumption.

No. of Pages : 22 No. of Claims : 10

(54) Title of the invention : EMPLOYMENT SEEKING SYSTEM OVER THE CLOUD USING MACHINE LEARNING APPROACH

<p>(51) International classification :G06Q0010100000, G06Q0030080000, G06Q0010060000, G10L0015180000, A61K0008970000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)KUMAR MOHAN Address of Applicant :LECTURER INFORMATION TECHNOLOGY , UNIVERSITY OF TECHNOLOGY AND APPLIED SCIENCES. UTAS - SHINAS. SULTANATE OF OMAN. P.O.BOX 77, POSTAL CODE 324. ----- 2)ANU KRISHNA 3)S J KARTHIK DEEP YADAV 4)AROCKIA ANTONY SAMY . I 5)D.RADHIKA Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)KUMAR MOHAN Address of Applicant :LECTURER INFORMATION TECHNOLOGY , UNIVERSITY OF TECHNOLOGY AND APPLIED SCIENCES. UTAS - SHINAS. SULTANATE OF OMAN. P.O.BOX 77, POSTAL CODE 324. ----- 2)ANU KRISHNA Address of Applicant :LECTURER INFORMATION TECHNOLOGY ,UNIVERSITY OF TECHNOLOGY AND APPLIED SCIENCES. UTAS SHINAS . SULTANATE OF OMAN. PO.BOX. 77, POSTAL CODE 324. ----- 3)S J KARTHIK DEEP YADAV Address of Applicant :ASSISTANT PROFESSOR, CSE DEPARTMENT, MALLA REDDY INSTITUTE OF TECHNOLOGY AND SCIENCE, HYDERABAD, 500100 ----- 4)AROCKIA ANTONY SAMY . I Address of Applicant :TECHNICAL OFFICER, SARAH TUCKER COLLEGE, TIRUNELVELI, 627007 ----- 5)D.RADHIKA Address of Applicant :AP/CSE VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN TIRUNCHENGODU 637205 ----- 6)DEEPA SONAL Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, PATNA WOMEN'S COLLEGE, PATNA, 800014 ----- 7)DR. ANNY LEEMA Address of Applicant :ASSOCIATE PROFESSOR, ANALYTICS DEPARTMENT, SCOPE, VELLORE INSTITUTE OF TECHNOLOGY, VELLORE-632014, ----- 8)S.VINOD Address of Applicant :ASSISTANT PROFESSOR/CSE, VEL TECH MULTI TECH DR RANGARAJAN DR SAKUNTHALA ENGINEERING COLLEGE,AVADI,600062 ----- 9)PROF. DR MRS. PREM MEHTA Address of Applicant :DIRECTOR PRINCIPAL / EDUCATION DEAPRTMENT VD INSTITUTE OF TECHNOLOGY DELHI 86 AFF. TO GGSIP UNIVERSITY DELHI. ----- 10)DR. SK ALTHAF HUSSAIN BASHA Address of Applicant :PROFESSOR AND HEAD / CSE, KRISHNA CHAITANYA INSTITUTE OF TECHNOLOGY AND SCIENCES, MARKAPUR-523320 ----- 11)KARTHIK B Address of Applicant :ASST.PROF & HEAD , COMPUTER APPLICATIONS , GOVT. ARTS AND SCIENCE COLLEGE, GUDALUR THE NILGIRIS . 6432121 ----- 12)DEVARAJSAMY S Address of Applicant :ASSISTANT PROFESSOR / IT, NANDHA COLLEGE OF TECHNOLOGY, ERODE - 638052 -----</p>
--	--

(57) Abstract :
Employment seeking system over the cloud using machine learning approach aims at designing and implementing a system over the cloud that acts as an one stop solution for people of any age or qualification and nature of job as well. The job seekers and job recruiters will have a single window system and the jobs will be classified with efficacy based on education; qualification, salary, nature of job, remuneration, location of job etc. The proposed invention will also give a new trend to employment exchange concept wherein all the jobs' openings are transparent without any brokerages and middle man to facilitate recruitment procedures which will be an overhead charge for freshers or job seekers.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057900 A

(19) INDIA

(22) Date of filing of Application :13/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AAO TEMPLATE-ASSISTED SYNTHESIS PROCESS COUPLED WITH ALKALI ETCHING TO DEVELOP ZINC OXIDE BRANCHED SUPERSTRUCTURES

<p>(51) International classification :C01G0009020000, B82Y0030000000, C30B0007000000, B01J0023060000, C30B0029160000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Indian Institute of Technology Madras (IIT Madras) Address of Applicant :The Dean, Industrial Consultancy & Sponsored Research [IC&SR] Indian Institute of Technology Madras, IIT POChennai Tamil Nadu India 600036 ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Parasuraman Swaminathan Address of Applicant :NAC #229, Metallurgical and Materials Engineering IIT Madras, Chennai, Tamil Nadu India 600036 ----- -----</p> <p>2)Lakshman Neelakantan Address of Applicant :NAC 145, Department of Metallurgical and Materials Engineering, IIT Madras,Chennai Tamil Nadu, India 600036 -----</p> <p>3)Manasa Hari Adavalli Address of Applicant :AS2, Villa Espana, Velachery Main Road, Chennai, Tamil Nadu, India ,600042 -----</p>
--	--

(57) Abstract :

ABSTRACT "AAO TEMPLATE-ASSISTED SYNTHESIS PROCESS COUPLED WITH ALKALI ETCHING TO DEVELOP ZINC OXIDE BRANCHED SUPERSTRUCTURES" The present disclosure provides fabrication of zinc oxide (ZnO) based superstructures by coupling anodic aluminum oxide (AAO) template-synthesis route with alkali etching. The process disclosed is a simple, cost-effective, and in-situ technique to grow superstructures during aluminum oxide (AAO) template removal. This synthesis process allows for easy control over the morphology and aspect ratio of the superstructures at low temperatures and requires no catalysts, modifiers, or seed layers in any form. FIGURE. 1

No. of Pages : 22 No. of Claims : 10

(54) Title of the invention : A METHOD AND SYSTEM FOR REAL TIME RENDERING OF A METAVERSE MASTER TRAINER OF AN EXPERT ON A USER DEVICE

<p>(51) International classification :G06N0003000000, G06K0009000000, G06F0021600000, A61B0005160000, H04W0004210000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Enlignce Technology Labs LLP Address of Applicant :C/o Manvi Gupta, 20/20/1, Padmavati Nagar, Venkateswara Colony, Vizianagaram, Andhra Pradesh - 535001, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DAYAL, Abhinav Address of Applicant :38, Vishnu Green Meadows, Bimavaram, Andhra Pradesh -534202, India -----</p> <p>2)SINHA, Ranbir Address of Applicant :Pardi 15, Lantsch, Graubuenden, Switzerland CH-7083 -----</p> <p>3)GUPTA, Sumit Address of Applicant :42, Vishnu Green Meadows, Bhimavaram, Andhra Pradesh, India 534202 -----</p> <p>4)GUPTA, Manvi Address of Applicant :42, Vishnu Green Meadows, Bhimavaram, Andhra Pradesh, India 534202 -----</p>
--	--

(57) Abstract :

The present invention relates to a method for real time rendering of a metaverse master trainer of an expert on a user device comprising one or more processors, and memory storing one or more programs for execution by the one or more processors. The method may include generating the metaverse master trainer for rendering using generative adversarial network. The method may include receiving at least one of metaverse information data sample of the expert. The method may include generating at least one facial expressions for speech and emotions from the received metaverse information data sample. Th method may include assigning a voice to the metaverse master trainer and adding to a metaverse master trainer library. The method may include engaging the user in an interactive metaverse session using generated metaverse master trainer. The method may include dynamically adapting at least one of voice, facial expression, emotion, and content of rendered metaverse master trainer based on the user activity in the interactive. The method may include evaluating the user activity in the interactive metaverse session using an AI technique. The method may include providing feedback for the user activity associated with at least one interactive metaverse session for at least one user based on evaluation. <>

No. of Pages : 33 No. of Claims : 20

(54) Title of the invention : SELF-SENSING REINFORCED CONCRETE AND STRUCTURAL HEALTH MONITORING USING THE SAME

<p>(51) International classification :C04B0028020000, G01M0005000000, C04B0014380000, C04B0028040000, G01N0029440000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. C.Arvind Kumar Address of Applicant :Assistant Professor Civil engineering Matrusri Engineering College, DBR Enclave, Sapota Bagh, New Malakpet, Hyderabad, Telangana 500059 -----</p> <p>2)Mulley Preethi 3)Dr. Prathik Kulkarni 4)Dr. J. Guru Jawahar 5)Dr. C. Sashidhar 6)Dr. B.V. Kavyatheja 7)Dr. Panga Narasimha Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. C.Arvind Kumar Address of Applicant :Assistant Professor Civil engineering Matrusri Engineering College, DBR Enclave, Sapota Bagh, New Malakpet, Hyderabad, Telangana 500059 -----</p> <p>2)Mulley Preethi Address of Applicant :6-3-185, Flat No. 401, Sai Damodara Residency, Jai Nagar colony, New Bhoiguda, Secunderabad-Telangana. 500080 -----</p> <p>3)Dr. Prathik Kulkarni Address of Applicant :Assistant professor Department of Civil Engineering Bajaj Institute of Technology, wardha, Maharashtra 442001 -----</p> <p>4)Dr. J. Guru Jawahar Address of Applicant :Department of Civil Engineering Annamacharya Institute of Technology & Sciences, Tirupati, Andhra Pradesh 516126 ----</p> <p>5)Dr. C. Sashidhar Address of Applicant :Department of Civil Engineering Jawaharlal Nehru Technological University Anantapur Anantapuram, Andhra Pradesh, India -----</p> <p>6)Dr. B.V. Kavyatheja Address of Applicant :Department of Civil Engineering Jawaharlal Nehru Technological University Anantapur Anantapuram, Andhra Pradesh 515002, India -----</p> <p>7)Dr. Panga Narasimha Address of Applicant :Department of Civil Engineering Sri Venkateswara College of Engineering Technology (Autonomous), R V S Nagar, Chittoor, Andhra Pradesh 517127, India -----</p>
--	--

(57) Abstract :

Title: SELF-SENSING REINFORCED CONCRETE AND STRUCTURAL HEALTH MONITORING USING THE SAME ABSTRACT A self-sensing reinforced concrete (100), the concrete (100) comprising: micro-carbon fibers (102) with 95 % carbon content, wherein the micro carbon fibers (102) have properties such as electrical resistivity of 1.54×10^{-3} w.cm, a tensile strength of 4810 MPa, a tensile modulus of 225 GPa; cement (104) of OPC-43 grade, wherein the cement (104) has a specific gravity of 3.12 kg/litre; fine aggregate (106) with a specific gravity of 2.63 kg/m³ and bulk density of 1699 kg/m³; coarse aggregate (108) with a specific gravity of 2.82 kg/m³ and bulk density of 1532 kg/m³; surfactant (110), wherein the surfactant (110) is Sodium Dodecyl Benzene Sulfonic salt (SDBS); super plasticizer (112), wherein the super plasticizer (112) is Polycarboxylic ether (PCE); and wherein the micro-carbon fibers (102), cement (104), the fine aggregates (106), the coarse aggregates (108), the surfactant (110), and the superplasticizer (112) may be mixed in water (114) conforming to IS456-2005 standards. Figure 3 is selected.

No. of Pages : 29 No. of Claims : 10

(54) Title of the invention : IoT Based Indoor Air Quality and Smart Energy Management System

(51) International classification :F24F0011300000, G05B0015020000, G05D0023190000, F24F0011620000, H04L0029080000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)S.Dhanalakshmi

Address of Applicant :Department of Electronics and Communication Engineering, Coimbatore Institute of Technology, Coimbatore-641014. -----

2)Dr.M.Poongothai

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.M.Poongothai

Address of Applicant :Department of Electronics and Communication Engineering, Coimbatore Institute of Technology, Coimbatore-641014. -----

2)S.Dhanalakshmi

Address of Applicant :Department of Electronics and Communication Engineering, Coimbatore Institute of Technology, Coimbatore-641014. -----

(57) Abstract :

Heating ventilation and Air Conditioning (HVAC) systems consume a significant amount of energy within corporate buildings that is mainly due to lack of severe monitoring which results in the flexibility of either energy efficiency or user comfort. Due to the growth of industrialization and population explosion, the demand of power is increasing in recent years. To resolve this issue, government is taking steps to deploy new power station and lot of scientists are inventing new techniques to generate electricity, as there are not much efficient power generating stations also most of them are using fossil fuels. In daily life, most of the electricity got wasted by not turning 'OFF' the appliances when not in use. In addition, major lung illness are due to inhaling poor quality of air while in indoors. To resolve these multiple issues, a simple HVAC control system is proposed which considers indoor air quality, energy management policies and user preferences to automate the HVAC operation in real time. Our system is based on Internet of Things concepts, where sensor outputs & its thermal parameters along with the user feedback information are collected in real-time distributed cloud environment to automate the appliances in the laboratory. The sensor outputs reveal the real time temperature and CO2 values. The CO2 value is the deciding parameter to trigger ventilation system and the temperature value along with periodic user feedback which is obtained using a Blynk Application Programming Interface is used to trigger the Air conditioning system. Thus, based on the energy management policies, user feedback and sensor values, the Blynk API dynamically adjust the temperature settings to enhance user comfort and to reduce the energy consumption.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059789 A

(19) INDIA

(22) Date of filing of Application :21/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : A METHOD FOR SYNTHESIZING A COMPOSITION FOR A LIGHT-EMITTING DIODE LIGHT

(51) International classification :B01F0013080000, C12N0011140000, C12Q0001684800, B01L0007000000, C08G0061120000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)NAVYASHREE GANGARAJU RUKHMINI
Address of Applicant :6318 GOVINDAPPA LAYOUT,
SUBHASH NAGARA, NELAMANGALA, 562123,
KARNATAKA, INDIA -----
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)NAVYASHREE GANGARAJU RUKHMINI
Address of Applicant :6318 GOVINDAPPA LAYOUT,
SUBHASH NAGARA, NELAMANGALA, 562123,
KARNATAKA, INDIA -----

(57) Abstract :

A method for synthesizing a composition for a light-emitting diode light is disclosed. The method includes providing a predefined ratio of one or more reagents. The one or more reagents include Ammonium Metavanadate and Europium (III) Nitrate Hexahydrate. The method also includes providing a first predefined amount of a fuel. The fuel is synthesized using a Bougainvillea flower extract. Further, the method also includes mixing the one or more reagents and the fuel using a magnetic stirrer upon pouring the one or more reagents and the fuel into a container for obtaining a redox mixture. Furthermore, the method also includes heating the redox mixture at a first predefined temperature for a first predefined time interval for synthesizing the composition for the light-emitting diode light.
FIG. 1

No. of Pages : 31 No. of Claims : 10

(54) Title of the invention : A NOVEL METHOD FOR DEEP LEARNING ARCHITECTURE FOR COGNITIVE EXAMINATION SUBSCORE TRAJECTORY PREDICTION IN ALZHEIMER'S DISEASE

<p>(51) International classification :G01N0033680000, A61B0005160000, A61P0025280000, G16H0050200000, C12Q0001480000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)S ARUN Address of Applicant :SUBRAMANIYA BHARATHI ST ,BALAJI NAGAR NAGAR , ANAKAPUTHUR ,CHENNAI ----- 2)Dr Benuprasad Sitaula, Nepal Dayanand Vedic Mission Global Academy 3)Mr.Sanjeet Pandey, Dr.Rammanohar Lohia Avadh University 4)Ms.Medha Khenwar, G L Bajaj Group of Institutions 5)Rachana Jaiswal, HNB Garhwal (A Central) University 6)Dr .W.Vinu, Annamalai University 7)Awadhesh Kumar Maurya,nstitute of Engineering and Technology Dr Rammanohar Lohia Avadh University 8)Dr.Dheva Rajan S, University of Technology and Applied Sciences Almusannah 9)Aurobinda Das ,Research Scholar ,,Centurion University 10)Manoj Kumar Karnena, 11)Dr Sumit Kumar Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr Benuprasad Sitaula, Nepal Dayanand Vedic Mission Global Academy Address of Applicant :Principal Nepal Dayanand Vedic Mission Global Academy Sunsari Nepal ----- 2)Mr.Sanjeet Pandey, Dr.Rammanohar Lohia Avadh University Address of Applicant :Assistant Professor Bachelor of Computer Science Dr.Rammanohar Lohia Avadh University ,Ayodhya Ayodhya, Uttar Pradesh India 224001 ----- 3)Ms.Medha Khenwar, G L Bajaj Group of Institutions Address of Applicant :Assistant professor G L Bajaj Group of Institutions Mathura Uttar Pradesh India 281406 ----- 4)Rachana Jaiswal, HNB Garhwal (A Central) University Address of Applicant :Assistant Professor, Department of Business Management, School of Management HNB Garhwal (A Central) University Srinagar, Uttarakhand India 246174 ----- 5)Dr .W.Vinu, Annamalai University Address of Applicant :Assistant Professor Department of Physical Education Annamalai University Annamalai Nagar, Chidambaram,Tamilnadu India 608002 ----- 6)Awadhesh Kumar Maurya,nstitute of Engineering and Technology Dr Rammanohar Lohia Avadh University Address of Applicant :Assistant Professor, Information Technology Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University Ayodhya Uttar Pradesh India 224001 ----- 7)Dr.Dheva Rajan S, University of Technology and Applied Sciences Almusannah Address of Applicant :University of Technology and Applied Sciences Almusannah Faculty , Mathematics Section Department of IT Sultanate of Oman ----- 8)Aurobinda Das ,Research Scholar ,,Centurion University Address of Applicant :Research Scholar Department of Zoology Centurion University Odisha India 761211 ----- 9)Manoj Kumar Karnena, Address of Applicant :Teaching Assistant and Researcher Department of Environmental Science GITAM Institute of Science ,GITAM Andhrapradesh,Visakhapatnam India ----- 10)Dr Sumit Kumar Address of Applicant :Associate consultant Tata Consultancy Services Pune Maharashtra India 411057 -----</p>
--	---

(57) Abstract :
Abstract To diagnose Alzheimer's disease in a patient is to have abnormal levels of kinase phosphorylation of the indicator protein in the cells when compared to the basic levels of kinase phosphorylation in the patient's cells. Includes deciding whether to rise to. Indicator protein example Erk1 / 2 and the active compound are, for example, bradykinin. Methods for cognitive examination predicting the progression of a subject's cognitive state are disclosed, taking a neuroimage of the subject, taking a data sample from the neuroimage, kinase phosphorylation selecting the time to predict the progression of the cognitive state, and calculating against the data. And the cognitive state of the subject is determined from the selected time point and the predicted cognitive metric.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060958 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : Rectangular Patch Antenna with Tree Fractal Structure

<p>(51) International classification :H01Q0009040000, H01Q0001380000, H04L0012540000, H04L0012640000, H04B0007185000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)S ARUN Address of Applicant :SUBRAMANIYA BHARATHI ST ,BALAJI NAGAR NAGAR , ANAKAPUTHUR ,CHENNAI -----</p> <p>2)Dr. Ratansing N. Patel, Government Polytechnic, Palanpur 3)Pravin J. Dalvadi, Government Polytechnic, Gandhinaga 4)Dr. Vipul A. Shah, DD University 5)Dr. Jagdishkumar M. Rathod, BVM Engineering College 6)Dr. Amrutbhai N. Patel, UV Patel College of Engineering</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Ratansing N. Patel, Government Polytechnic, Palanpur Address of Applicant :Electronics and Communication Engineering Department, Government Polytechnic, Palanpur Palanpur, Banaskantha Palanpur Gujarat India 385001 -----</p> <p>2)Pravin J. Dalvadi, Government Polytechnic, Gandhinaga Address of Applicant :Electronics and Communication Engineering Department, Government Polytechnic, Gandhinagar Gandhinagar Gandhinagar Gujarat India 382010 -----</p> <p>3)Dr. Vipul A. Shah, DD University Address of Applicant :Instrumentation and Control Engineering Department, Faculty of Technology, DD University, Nadiad Nadiad Nadiad Gujarat India 387001 -----</p> <p>4)Dr. Jagdishkumar M. Rathod, BVM Engineering College Address of Applicant :Electronics Engineering Department, BVM Engineering College, VV Nagar VV Nagar Gujarat Gujarat India 388120 -----</p> <p>5)Dr. Amrutbhai N. Patel, UV Patel College of Engineering Address of Applicant :Electronics and Communication Engineering Department, UV Patel College of Engineering, Ganpat University, Kherva Kherva, Mehsana Gujarat Gujarat India 382711 -----</p> <p>--</p> <p>6)Dr.R.Krishnamoorthy, Prathyusha Engineering College Address of Applicant :Prathyusha Engineering College Thiruvallur – Poonamalle road Chennai Tamilnadu India 602025 -----</p>
--	--

(57) Abstract :
ABSTRACT Emerging advantages of Microstrip patch antennas make them solid aspirant for the field of Satellite communication application. The present concept of tree fractal in rectangular microstrip patch antenna. Fractal iteration supports multiband characteristics for wide band application for 6 GHz - 15 GHz, including WiMAX, WiBRO, RLAN and LMS satellite communication applications. This antenna simulation performed by using Ansoft HFSS and fabricated rectangular tree fractal antenna measured by Vector network analyzer (VNA). A RTFA novel structure with L=30 mm and W=23 mm along the patch square yielded a triple notch band characteristics at resonant frequency of 7.4 GHz, 10.7 GHz and 13 GHz, as well as an improved resonant return loss (-28.85 dB) and VSWR (1.07) and also bandwidth is enhance upto 19.23%.

No. of Pages : 9 No. of Claims : 6

(54) Title of the invention : WOBBLING FREE MAGNETIC COUPLED BODY-FLUID PUMPING APPARATUS

(51) International classification :A61M0001100000, A61M0001120000, F04D0029048000, F04D0029041000, F04D0029420000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chaitanya Bharathi Institute of Technology

Address of Applicant :Gandipet, Hyderabad, Telangana-500075, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)P. Ravinder Reddy

Address of Applicant :Professor, Dept. of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana-500075, India -----

2)T. Rugveda

Address of Applicant :Research Associate, Dept. of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana-500075, India -----

(57) Abstract :

The present invention provides a body fluid pumping apparatus with a passive magnetically stabilized impeller, wherein the impeller is rested on a mono pivot bearing that is suitable for pumping blood and other sensitive body fluids. When the body fluid pumping apparatus is a rotary pump, the passive magnetic axial bearing includes at least two magnets oriented to repel each other, wherein one magnet is positioned in the spindle of the pump housing while the other is disposed within the rotor assembly proximate to the spindle. The two magnets create a repulsive axial force among them that at least partially maintains the relative axial position of the rotor assembly. The overall position of the rotor assembly is maintained during operation with minimal or no physical contact with the pump housing during operation, resulting in no wobbling of the apparatus, and handles the body-fluid in a gentle manner.

No. of Pages : 19 No. of Claims : 10

(54) Title of the invention : CULTIVATION DRONE FOR CONTOUR FARMING AND FARMLAND

(51) International classification :B64C0039020000, G06Q0050020000, G05D0001000000, A01G0025160000, G08C0017020000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. A. SURESHBABU
 Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE-641032. -----

2)Ms. P. SNEHA
3)Ms. V. JEYADHARANI
4)Ms. S. SUBHIKSHA
5)Ms. YAMUNA A
6)Mr. BOOBALAN.T
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. A. SURESHBABU
 Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE-641032. -----

2)Ms. P. SNEHA
 Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE-641032. -----

3)Ms. V. JEYADHARANI
 Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE-641032. -----

4)Ms. S. SUBHIKSHA
 Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE-641032. -----

5)Ms. YAMUNA A
 Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE-641032. -----

(57) Abstract :
 Drones are extremely significant in smart agriculture. Drone sensors can provide information about agricultural areas from an aerial view. Our idea is an automated drone-based smart agricultural system. An agricultural drone is an unmanned aerial vehicle (UAV) used primarily for smart and efficient farming. It is also used to monitor and boost crop production. This Drone-based Smart Agriculture Monitoring System uses wireless sensor networks to collect data from various sensors mounted at various nodes and transmit it through wireless protocol. Arduino is used to power this smart farm IoT system. Temperature sensor, moisture sensor, humidity sensor. DC motor, and GPRS module are all included in this drone. When the IoT-based farm monitoring system is turned on, it examines the water level, humidity, and moisture content. It notifies you of the levels by SMS on your phone. These drones utilise Google Maps to pinpoint the exact place where the seed should be planted and then use autonomous humidity and moisture monitoring to steer-themselves. Even in difficult-to-plant mountainous areas, our approach allows for automated monitoring of agricultural plants. Our main approach is automatic sensing of humidity in air and moisture content in the soil. Our biggest advantage of this technology is that we have included special conditions for our drone to function even" in Terrain regions. Contour farming in hilly areas is highly possible with this idea. As the world moves toward new technologies and applications, it is critical that agriculture follows. Implementation of this idea can help farmers in smart agriculture.

No. of Pages : 5 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061695 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : CROSS-LOC INFILTRATION PROTECTION SURVEILLANCE DRONE TO SUPPORT ANTI DRONE SYSTEM

(51) International classification :B64C0039020000, G08B0013196000, H04N0007180000, G08G0005000000, B64D0047080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. P. K. POONGUZHALI

Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE-641032. -----

2)Ms. RIFHATH RIZAN M

3)Mr. ROHUL SIBI. M

4)Ms. SHRUTHI K

5)Mr. BOOBALAN. T

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. P. K. POONGUZHALI

Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE-641032. -----

2)Ms. RIFHATH RIZAN M

Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE-641032. -----

3)Mr. ROHUL SIBI. M

Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE-641032. -----

4)Ms. SHRUTHI K

Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE-641032. -----

(57) Abstract :

The approach to this idea involves the perfect solution to the issues and constraints that other surveillance technologies have. We included different features of search and rescue operations like mapping, surveying and other military applications such as Cross-LoC infiltration and protection. Due to the increasing number of infiltration and terror attacks, high-security surveillance is needed in cross borders. This night patrolling surveillance drone includes night-vision cameras and thermal sensors, allowing the drone to enter tight and constrained locations with minimal noise. They also don't take up a lot of room for their operators. These drones use Google Maps to locate the specific location and guide itself to the restricted areas with limited noise. Additional uses like supply of military equipment to constrain spaces, locating human bombs and detecting gases during war fields. Our drone can cover huge landmass and difficult-to-reach areas fast, lowering staffing and expenditures. The biggest advantage of this project is the dual capability-of Automatic patrolling without any supervision and operation of the drone remotely through cloud via 4G/LTE/5G network. This drone can also be used for surveillance, security patrols, perimeter guarding and aerial monitoring.

No. of Pages : 5 No. of Claims : 5

(54) Title of the invention : AN IOT BASED CATTLE HEALTH MONITORING SYSTEM

<p>(51) International classification :H04L0029080000, H04N0021436300, G06F0003048100, H04W0004380000, H04L0029060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1) P. ELAVENI Address of Applicant :NO:3, PLOT NO:231, 24TH STREET, JB ESTATE, AVADI, CHENNAI, TAMIL NADU, INDIA, 600054 -----</p> <p>2)R. MADHUMITHA 3)Dr. S. VINAYAGAPRIYA 4)K. VENKATESAN</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1) P. ELAVENI Address of Applicant :NO:3, PLOT NO:231, 24TH STREET, JB ESTATE, AVADI, CHENNAI, TAMIL NADU, INDIA, 600054 - -----</p> <p>2)R. MADHUMITHA Address of Applicant :MEERA HOMES, PALLIKARANAI, 5TH STREET, MANOGAR NAGAR, PALLIKARANAI, CHENNAI, TAMIL NADU, INDIA, 600100 -----</p> <p>3)Dr. S. VINAYAGAPRIYA Address of Applicant :BLOCK B3/1, ORCHID HOMES, MUNUSAMY STREET, CHROMPET, CHENNAI, TAMIL NADU, INDIA, 600044 -----</p> <p>4)K. VENKATESAN Address of Applicant :13/6, VIVEK NAGAR, KOLATHUR, CHENNAI, TAMIL NADU, INDIA, 600099 -----</p>
---	---

(57) Abstract :

The present invention provides a system utilizing electronic device for monitoring of cattle activity and health in agricultural lands. Said system (1) consists of a user (2), an interface device (3), and a cattle (5). Said cattle (5) is provided with plurality of electronic devices (21, 41) and said plurality electronic devices (21, 41) is connected to an interface device (3) through server (11). Said server (3) and plurality of electronic devices (21, 41) are connected to each other preferably through a wireless long range area network. Said plurality of devices (21, 41) are interconnected preferably by blue-tooth connectivity.

No. of Pages : 18 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141062007 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : A NANOPARTICLE CONTRAST COMPRISING EU3+:TAOX AND PROCESS OF PREPARATION THEREOF

<p>(51) International classification :G11C0013000000, C09K0011770000, H01L0045000000, H01L0027100000, A61K0049000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT MADRAS) Address of Applicant :The Dean Industrial Consultancy & Sponsored Research (IC&SR), Indian Institute of Technology Madras, Sardar Patel Road, IIT Post Chennai Tamil Nadu India 600036 ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ganapathy Krishnamurthi Address of Applicant :Chennai Tamil Nadu India 600036 ----- ----- 2)Ashwin Kumar N Address of Applicant :Kattankulathur Tamil Nadu India 603203 -- ----- 3)Swathi Lakshmi B Address of Applicant :Chennai Tamil Nadu India 600036 ----- -----</p>
--	---

(57) Abstract :
PLEASE SEE THE ATTACHED SPECIFICATION

No. of Pages : 20 No. of Claims : 15

(54) Title of the invention : INTELLIGENT EMOTIONAL QUOTIENT PROCESSING USING BRAIN SIGNALS AND ZYNQ SOC

		<p>(71)Name of Applicant :</p> <p>1) Dr. K. THAIYALNAYAKI Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMILNADU, INDIA - 600089. -----</p> <p>2)Dr. CHRISTEENA JOSEPH</p> <p>3)Dr. R. LATHAMANJU</p> <p>4)Dr. V. KAMATCHI SUNDARI</p> <p>5)Dr. M. SHUNMUGATHAMMAL</p> <p>6)Mrs. M. RAJESVARI</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1) Dr. K. THAIYALNAYAKI Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMILNADU, INDIA - 600089. -----</p> <p>2)Dr. CHRISTEENA JOSEPH Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMILNADU, INDIA - 600089. -----</p> <p>3)Dr. R. LATHAMANJU Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMILNADU, INDIA - 600089. -----</p> <p>4)Dr. V. KAMATCHI SUNDARI Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMILNADU, INDIA - 600089. -----</p> <p>5)Dr. M. SHUNMUGATHAMMAL Address of Applicant :ASSOCIATE PROFESSOR(Sr.g), DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMILNADU, INDIA - 600089. -----</p> <p>6)Mrs. M. RAJESVARI Address of Applicant :ASSISTANT PROFESSOR(O.G), ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMILNADU, INDIA - 600089. -----</p>
(51) International classification	:G06K0009000000, A61B0005000000, A61B0005160000, A61B0005040000, A61B0005055000	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In this invention the modeling and control of Functional real-time MRJ has become a promising technique in the brain-computer interface. Zynq SoC has the functionality to undertake RAM multiplication, accumulation and locking for high density data processing. Therefore, monitoring of EEG and rtfMRI sensors for emotional quotient processing using zynq SoC is indispensable for automatic intelligent processing. The captured multidimensional data is transmitted to the data server for cloud storage, data warehousing, compression and encryption. The characteristics of the EEG are extracted after low pass filtering at 40 Hz and transformation in the wavelet domain. The amygdala, visual cortex, and hippocampal regions of the brain are identified by rtfMRI by setting up experiences on words such as anger, envy, fear, happiness, lust, pride, sadness, and shame. These expressions are provided as input for the fMRI and the fVIRI resting status is also acquired. Time series of independent components are identified as features and combined with EEG features to achieve a fusion of temporal and spatial resolution. The classification of acquired features is based on a classifier of k means on a 2D feature projection space, with group normalization for better precision. Analysis of different emotional classes is done by recognizing signs of high EQ and ways to increase EQ. Zynq SoC acts as a smart emotional quotient recognition product to support future smart BCI systems.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141062149 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PISTON ASSEMBLY WITH HELICAL FLOW CHANNEL IMPROVES THE PRESSURE DROP AND MIXING OF MAGNETORHEOLOGICAL DAMPER

(51) International classification :F16F0009530000, B01F0005060000, F02F0003220000, F16F0009340000, F16F0009320000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT Madras)

Address of Applicant :The Dean, Industrial Consultancy & Sponsored Research [ICSR] Indian Institute of Technology Madras IIT P.O, Chennai – 600 036, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Manjeet Keshav

Address of Applicant :Department of Mechanical Engineering, IIT Madras Chennai-600036 -----

2)Dr. C. Sujatha

Address of Applicant :Department of Mechanical Engineering, IIT Madras Chennai-600036 -----

(57) Abstract :

The present invention relates to a piston assembly with helical flow channels to improve the pressure drop and mixing of MR fluids in a monotube magnetorheological damper. The piston assembly is attached with a piston rod. The helical-shaped channels are engraved in a piston-sized cylindrical block enclosed in an outer housing. When the piston moves to-and-fro motion, the MR fluid passes through the flow channel inside the piston valve where it experiences a rheological change due to the presence of the magnetic field. This leads to a huge pressure drop across the flow channel of the piston valve. This pressure drop leads to large damping force being generated at the damper ends which is utilized for various damping application. Figure 2

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141062235 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : Intelligent fire-fighting robot and method thereof

(51) International classification :A62C0027000000, B25J0009160000, B25J0011000000, A62C0037000000, A62C0031000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Indian Institute Of Technology Madras (IIT Madras)

Address of Applicant :The Dean, Industrial Consultancy & Sponsored Research (IC&SR), Indian Institute of Technology Madras, Sardar Patel Road, IIT Post, Chennai -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Amina Ashraf

Address of Applicant :Department of Engineering Design, IIT Madras, Sardar Patel Road, IIT Post, Chennai-600036 -----

2)Bolla Kavya

Address of Applicant :Department of Engineering Design, IIT Madras, Sardar Patel Road, IIT Post, Chennai-600036 -----

3)Sakshi Rathore

Address of Applicant :Department of Engineering Design, IIT Madras, Sardar Patel Road, IIT Post, Chennai-600036 -----

4)Sai Sakunthala

Address of Applicant :Department of Engineering Design, IIT Madras, Sardar Patel Road, IIT Post, Chennai-600036 -----

5)Jayaganthan Rengaswamy

Address of Applicant :Department of Engineering Design, IIT Madras, Sardar Patel Road, IIT Post, Chennai-600036 -----

6)Roshan Raj

Address of Applicant :Department of Engineering Design, IIT Madras, Sardar Patel Road, IIT Post, Chennai-600036 -----

7)Avinash Kori

Address of Applicant :Department of Engineering Design, IIT Madras, Sardar Patel Road, IIT Post, Chennai-600036 -----

(57) Abstract :

The present invention discloses an intelligent and autonomous fire-fighting robot (100) and method (400) for moving in a hazardous field, detecting fires, and thereby extinguishing the fires. The fire-fighting robot (100) comprises a motion unit (102) to move around in the hazardous field, a camera unit (104) with multiple cameras to capture multiple frame images, a fire sensing unit (106) to detect the presence and depth of fires, and a control unit (116) with artificial intelligence that activates at least one robotic arm (108) and fire extinguishing unit (110) based on inputs received from the camera unit (104) and the fire sensing unit (106). The robotic arm (108) is activated for obstacle clearance and the fire extinguishing unit (110) selects desired fire extinguishing material to effectively extinguish the fires. Thus, the designed fire-fighting robot (100) provides a quick, safe and efficient response during fire accidents to prevent hazards and damages.

No. of Pages : 28 No. of Claims : 30

(54) Title of the invention : A METHOD FOR DETERMINING AN INITIAL CLEARANCE OF A TURBOMACHINERY SEAL

(51) International classification :F01D0011240000, F16J0015440000, F01D0011180000, F01D0021000000, F03B0011000000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)INDIAN INSTITUTE OF TECHNOLOGY MADRAS

Address of Applicant :The Dean, Industrial Consultancy & Sponsored Research (IC&SR), Indian Institute of Technology Madras, Sardar Patel Road, IIT Post, Chennai, Tamil Nadu, India, 600 036 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)AnandaRao Seshadri Sekhar

Address of Applicant :Department of Mechanical Engineering, IIT Madras, Chennai- Tamil Nadu, India 600036 -----

2)Sivakumar Subramanian

Address of Applicant :Sivan Illam, 67, K.M. Raman Street, Sivakasi – 626123, Tamil Nadu, India -----

3)Bhamidi Venkata Satya Surya Subrahmanya Prasad

Address of Applicant :Department of Mechanical Engineering, IIT Madras, Chennai- Tamil Nadu, India 600036 -----

(57) Abstract :

The present disclosure relates to a method for determining an initial clearance of turbomachinery seals. Initially, seal configurations, operating conditions and seal material are determined. Based on operating conditions, centrifugal growth and thermal growth of the seal are determined. Further, operating clearance (OPC) of the turbomachinery seal is determined based on an initial clearance (IC) value, centrifugal and thermal growth. Later, the initial clearance value is increased such that OPC is in order of 0.1 mm. An effective damping coefficient (EDC) of the turbomachinery seal is determined based on direct damping co-efficient (C), cross-coupled stiffness (K) and angular velocity (W) of a rotor. Subsequently, the initial clearance value is further increased until the EDC is greater than zero. Lastly, the initial clearance value is decreased until a determined leakage and stability metrics match with a desired leakage and stability metrics to find an optimal initial clearance of the turbomachinery seal.

No. of Pages : 28 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202144039563 A

(19) INDIA

(22) Date of filing of Application :01/09/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : INCLUSION OF NATURAL AVAILABLE SEEDS AS A PARTIAL REPLACEMENT OF FINE AND COARSE AGGREGATE FOR SUSTAINABLE CONSTRUCTION

(51) International classification	:A01N0065000000, A01G0017000000, G06Q0030020000, A01N0065260000, A01G0009029000	(71)Name of Applicant : 1)Anusha Manjunath Address of Applicant :No. 5, Vinayaka Nilaya, Kattigenahalli, Yelahanka ----- 2)Dr Surendra H J 3)Karthik J
(31) Priority Document No	:9108900186	Name of Applicant : NA
(32) Priority Date	:01/09/2021	Address of Applicant : NA
(33) Name of priority country	:-----	(72)Name of Inventor :
(86) International Application No	:PCT//	1)Anusha Manjunath
Filing Date	:01/01/1900	Address of Applicant :No. 5, Vinayaka Nilaya, Kattigenahalli, Yelahanka -----
(87) International Publication No	: NA	2)Dr Surendra H J
(61) Patent of Addition to Application	:NA	Address of Applicant :No 35, 9th cross Chikkalasandra -----
Number	:NA	-----
Filing Date	:NA	3)Karthik J
(62) Divisional to Application Number	:NA	Address of Applicant :No 155, Nagashettihalli -----
Filing Date	:NA	-----

(57) Abstract :

The major contribution to Climate change is due to Carbon di-oxide emission to the Environment. Temperature on the Earth raising day-by-day causing humidity disorder to both human and animal life. To overcome these effects, we are mitigating inevitable carbon emission through planting trees. Fallen seeds from this tree such as Malabar neem wood tree seeds, Ashoka tree seeds, Neegro pepper, Persian silk tree seed powder and Oleander plant fruit fiber are utilized as alternative building materials in the new technology in construction industry. This leads to reduction in pruning of trees and encourage the construction industry to utilize these materials as alternative building materials for sustainable construction.

No. of Pages : 5 No. of Claims : 6

(54) Title of the invention : AUTOMATED POLISHING SYSTEM

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:B24B0053017000, B24B0027000000, B24B0037005000, B24B0037200000, B24B0021000000</p> <p>:2020-023593</p> <p>:14/02/2020</p> <p>:-----</p> <p>:PCT/JP2020/037810 :06/10/2020</p> <p>:WO 2021/161581</p> <p>:NA :NA</p> <p>:NA :NA</p>	<p>(71)Name of Applicant : 1)TAIKISHA LTD. Address of Applicant :17-1, Nishishinjuku 8-chome, Shinjuku-ku, Tokyo 1606129 ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)NAKAYAMA Genji Address of Applicant :c/o TAIKISHA LTD., 17-1, Nishishinjuku 8-chome, Shinjuku-ku, Tokyo 1606129 ----- 2)HIGASHI Yoshio Address of Applicant :c/o TAIKISHA LTD., 17-1, Nishishinjuku 8-chome, Shinjuku-ku, Tokyo 1606129 ----- 3)HAYASHI Yoshikazu Address of Applicant :c/o TAIKISHA LTD., 17-1, Nishishinjuku 8-chome, Shinjuku-ku, Tokyo 1606129 ----- 4)SUZUKI Hiroyuki Address of Applicant :c/o TAIKISHA LTD., 17-1, Nishishinjuku 8-chome, Shinjuku-ku, Tokyo 1606129 ----- 5)YAMASHITA Tomoo Address of Applicant :c/o TAIKISHA LTD., 17-1, Nishishinjuku 8-chome, Shinjuku-ku, Tokyo 1606129 -----</p>
--	--	--

(57) Abstract :

Provided is an automated polishing system capable of achieving a constant polished film thickness throughout a polishing process. An automated polishing system comprising: a polishing tool which includes a polishing member for polishing a region to be polished, and an electric motor for driving the polishing member; a polishing robot which moves the polishing tool with respect to the region to be polished; and a polishing controller which controls the polishing tool and the polishing robot. The automated polishing system comprises: a current measurement device which measures a consumed current value of the electric motor; and a pushing force adjustment mechanism which adjusts a force for pushing the polishing member against the region to be polished. The polishing controller is configured to adjust the pushing force of the polishing member via the pushing force adjustment mechanism on the basis of the consumed current value measured by the current measurement device such that the consumed current value is substantially constant during the polishing process.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000039 A

(19) INDIA

(22) Date of filing of Application :01/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : PROCESS OF PREPARATION OF POLYHERBAL EXTRACT FORMULATION PREVENTING PROLIFERATION OF CANCEROUS CELLS AND PRODUCT THEREOF

(51) International classification :B01D0011020000, A61K0047100000, A61P0031120000, A61K0047200000, G01N0001400000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)HINDUSTAN COLLEGE OF ARTS & SCIENCE

Address of Applicant :HINDUSTAN COLLEGE OF ARTS & SCIENCE, PADUR, OMR CHENNAI TAMIL NADU INDIA 603 103 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)GANESH KUMAR ANBAZHAGAN

Address of Applicant :CENTER FOR RESEARCH AND DEVELOPMENT, DEPARTMENT OF MICROBIOLOGY, HINDUSTAN COLLEGE OF ARTS & SCIENCE, PADUR, OMR CHENNAI TAMIL NADU INDIA 603 103 -----

(57) Abstract :

TITLE: PROCESS OF PREPARATION OF POLYHERBAL EXTRACT FORMULATION PREVENTING PROLIFERATION OF CANCEROUS CELLS AND PRODUCT THEREOF APPLICANT: HINDUSTAN COLLEGE OF ARTS & SCIENCE ABSTRACT
The present invention discloses a formulation comprising stock solution of extracts of Boerhaviadiffusa (102), Ecliptaalba (104), Phyllanthusamarus (106), and Andographispaniculata (108). The effect of the formulation on the human hepatocellular cancer cell line HepG2, human hormone-dependent breast cancer cell line MCF7, and mouse embryo fibroblast 3T3 proliferation was studied to determine the ideal concentration range and dosage. An extraction method comprises placing plant material separately in a thimble filter and 70% methanol (150 ml) poured into an extraction flask. Extract obtained using Soxhlet apparatus after 6 h of extraction, was subjected to reduced pressure to separate the solvent by rotary evaporator at a temperature not exceeding 50°C. The solvent was completely removed by freeze dryer for about 24 h. The dry residue of methanol extract (1.90 g) was dissolved in dimethyl sulfoxide (DMSO) to obtain the stock solution. Figure 2

No. of Pages : 30 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000051 A

(19) INDIA

(22) Date of filing of Application :01/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYSTEM FOR HIGH-TEMPERATURE OXIDATION BEHAVIOUR INVESTIGATION OF METAL/ALLOYS FOR STRATEGIC APPLICATION

<p>(51) International classification :C04B0035640000, C21D0011000000, G01N0025000000, F27D0011020000, H05B0003620000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. K. GOBI SARAVANAN Address of Applicant :Scientist – C, Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology, Chennai, TamilNadu, India ----- 2)Mr. KATHIRAVAN S 3)Dr. KAMALAN KIRUBAHARAN Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. K. GOBI SARAVANAN Address of Applicant :Scientist – C, Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology, Chennai, TamilNadu, India ----- 2)Mr. KATHIRAVAN S Address of Applicant :Researcher, Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology, Chennai, TamilNadu, India ----- 3)Dr. KAMALAN KIRUBAHARAN Address of Applicant :Scientist - C, Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology, Chennai, TamilNadu, India -----</p>
--	--

(57) Abstract :

SYSTEM FOR HIGH TEMPERATURE OXIDATION BEHAVIOUR INVESTIGATION OF METAL/ALLOYS FOR STRATEGIC APPLICATION” Accordingly, embodiments herein disclose system (100) for high temperature (HT) oxidation behaviour investigation of metal/alloys for strategic application, comprising of a re-crystallized alumina tube having two ends where the alumina tube is made from top of heating chamber (7) to inside the furnace (2) in such a way that test samples can deploy into the furnace (2) through the alumina tube with a platinum wire connection; an in-built compressor (4) connected to one end of alumina tube; a vacuum pump (6) connected to the other end of alumina tube. Further, the invention includes an air compressor configured to purge the controlled air in the HT furnace (2) such that the controlled air gets heated up through a separate heater. The oxidation behavior of metal/alloys is evaluated by frequency response analyzer (FRA) using the platinum wire connection.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000060 A

(19) INDIA

(22) Date of filing of Application :01/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : Demand Response Management with Micro Grid for Smart households applications

(51) International classification :G06Q0050060000, H02J0003000000, H02J0003140000, G06F0119060000, H04W0004700000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr.B.Dineshkumar
Address of Applicant :UNIVERSITY COLLEGE OF ENGINEERING ARNI, THACHUR, ARNI-6322214 -----

2)Dr. Krishan Gopal Sharma
3)Dr.PAPPULA SAMPATH KUMAR
4)Mr.Priya Ranjan Satpathy
5)Dr.Ajay D Vimal Raj P
6)Mr.Babu Ashok
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr.B.Dineshkumar
Address of Applicant :UNIVERSITY COLLEGE OF ENGINEERING ARNI, THACHUR, ARNI-6322214 -----

2)Dr. Krishan Gopal Sharma
Address of Applicant :A-117, Vaishali Nagar, Jaipur, Rajasthan-302021. -----
3)Dr.PAPPULA SAMPATH KUMAR
Address of Applicant :Assistant Professor, EEE Department, Bapatla Engineering College, Bapatla-522101, Guntur District, Andhra Pradesh, India. -----
4)Mr.Priya Ranjan Satpathy
Address of Applicant :D.No-85, Subhadra Villa, Pradhansahi, Sundarpada, Bhubaneswar, Odisha-751002 -----
5)Dr.Ajay D Vimal Raj P
Address of Applicant :Assistant Professor, EEE Department, Puducherry Technological University, Puducherry-14. -----

6)Mr.Babu Ashok
Address of Applicant :Principal, Government polytechnic for women, Karaikal-609 605 -----

(57) Abstract :

There is a direct link between energy supply and the economy, national security, and healthcare provision. As a smart grid (SG), it has been given the green light to integrate communication technology and sensors into the electric vehicle (EV) power systems with household electrical points to transform the way electricity is generated, distributed, monitored, and controlled. For the Smart Grid to work properly, many difficulties must be solved. The safety of the smart grid is one of the most challenging and crucial components of its functioning. A machine learning-based demand-side management system is recommended for the Internet of Things approved phase. The suggested demand-side management (DSM) device protects their energy efficiency by their selections. A particular flexibility sample may be used to control infiltration into the smart grid. ML classifiers use elastic agents to foretell con artists' next move. Analyzing power data may help companies in the power management and intermediate control industry save money.

No. of Pages : 22 No. of Claims : 4

(54) Title of the invention : MELANOMA SKIN DISEASE DETECTION PROVIDED STRUCTURED META DATA USING MACHINE LEARNING

<p>(51) International classification :G06T0007000000, G06N0020000000, A61B0005000000, G16H0030400000, G06K0009620000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. BASHEER MOHAMED Address of Applicant :PROFESSOR/CSE, ASHOKA WOMEN"S ENGINEERING COLLEGE, NO-44, DUPADU, KURNOOL, A.P, INDIA. ----- 2)Ms. MANISHI SHAKYA 3)Dr. B. SRI REVATHI 4)Mr. VISHAV KAPOOR 5)Mr. SENTHILKUMAR. A 6)Mr. SACHIN JADHAV 7)Dr. RAKESH KUMAR MAHENDRAN Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. RAJI PANDURANGAN Address of Applicant :ASSOCIATE PROFESSOR, SAVEETHA ENGINEERING COLLEGE, THANDALAM ----- 2)Ms. MANISHI SHAKYA Address of Applicant :DEPARTMENTOF COMPUTER APPLICATION, RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL(M.P.) ----- 3)Dr. B. SRI REVATHI Address of Applicant :ASSOCIATE PROFESSOR, SCHOOL OF ELECTRICAL ENGINEERING, VELLORE INSTITUTE OF TECHNOLOGY, CHENNAI. ----- 4)Mr. VISHAV KAPOOR Address of Applicant :ASSOCIATE PROFESSOR, (ECE)/MANAGER, (INDUSTRY INTERFACE), DAVIET, KABIR NAGAR, JALANDHAR-144008 ----- 5)Mr. SENTHILKUMAR. A Address of Applicant :ASSOCIATE PROFESSOR, ELECTRONICS AND COMMUNICATION ENGINEERING, CHENNAI INSTITUTE OF TECHNOLOGY, CHENNAI ----- 6)Mr. SACHIN JADHAV Address of Applicant :ASSISTANT PROFESSOR, PIMPRI CHINCHWAD COLLEGE OF ENGINEERING, NIGDI, PUNE DEPARTMENT OF INFORMATION TECHNOLOGY ----- --- 7)Dr. RAKESH KUMAR MAHENDRAN Address of Applicant :DEPARTMENT OF ECE, VEL TECH MULTITECH Dr. RANGARAJAN Dr. SAKUTHALA ENGINEERING COLLEGE, CHENNAI-600062, TAMIL NADU -----</p>
---	---

(57) Abstract :
The machine learning model is used to diagnose melanoma depending on the patient's metadata and dermoscopic images on lower-resource devices. Humanity faces a serious threat from skin cancer. The importance of initial skin cancer detection has improved as a result of rapid growth rate, higher treatment expenses, and high mortality. Cancer cells are being carefully found, and in certain cases, treatment needs time. Utilizing image processing with machine learning, a skin cancer diagnosis system is developed. After segmenting the dermoscopic images utilizing the feature extraction approach, the characteristics of the damaged skin cells have been retrieved and classified as a melanoma disorder. This system model assists doctors and patients in detecting and identifying skin cancer classifications, if benign/malignant. This model is a standard regarding skin cancer identification by supporting healthcare practitioners. Any doctor may discover accurate findings by obtaining a few random images; however, the usual approach takes far too long to recognize cases accurately.

No. of Pages : 11 No. of Claims : 3

(54) Title of the invention : SECURITY THREAT DETECTION MODEL FOR AGRICULTURAL IOT

<p>(51) International classification :H04L0029060000, H04L0029080000, G06Q0050020000, H04W0004700000, G06F0021570000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1) Dr. SURAYA MUBEEN Address of Applicant : ASSOCIATE PROFESSOR, ECE DEPARTMENT, CMR TECHNICAL CAMPUS, MEDCHAL KANDALKOYA VILLAGE HYDERABAD ----- 2)Dr. MOHD ASHRAF 3)Ms. ARNIKA 4)Dr. S R M. KRISHNA 5)Dr. B. SRI REVATHI 6)Ms. RESHMA VARTAK, 7)Dr. BOS MATHEW JOS. 8)Dr. BAJARANG PRASAD MISHRA Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1) Dr. SURAYA MUBEEN Address of Applicant : ASSOCIATE PROFESSOR, ECE DEPARTMENT, CMR TECHNICAL CAMPUS, MEDCHAL KANDALKOYA VILLAGE HYDERABAD ----- 2)Dr. MOHD ASHRAF Address of Applicant :ASSOCIATE PROFESSOR, COMPUTER SCIENCE & ENGINEERING, SCHOOL OF TECHNOLOGY, MAULANA AZAD NATIONAL URDU UNIVERSITY, HYDERABAD(TS) ----- 3)Ms. ARNIKA Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, FACULTY OF ENGINEERING & TECHNOLOFY, NCR CAMPUS, MODINAGAR, GHAZIABAD, UTTAR PRADESH, INDIA-201204 - ----- 4)Dr. S R M. KRISHNA Address of Applicant :ASSOCIATE PROFESSOR, CVR COLLEGE OF ENGINEERING, VASTUNAGAR, IBRAHIMPATNAM, HYDERABAD ----- ----- 5)Dr. B. SRI REVATHI Address of Applicant :ASSOCIATE PROFESSOR, SCHOOL OF ELECTRICAL ENGINEERING, VELLORE INSTITUTE OF TECHNOLOGY, CHENNAI ----- ----- 6)Ms. RESHMA VARTAK, Address of Applicant :ASSISTANT PROFESSOR, TERNA ENGINEERING COLLEGE, NAVI MUMBAI ----- ----- 7)Dr. BOS MATHEW JOS. Address of Applicant : PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, MAR ATHANASIVUS COLLEGE OF ENGINEERING, KOTHAMANGALAM, KERALA, INDIA 686666 ----- ----- 8)Dr. BAJARANG PRASAD MISHRA Address of Applicant :Ex IAF, PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, JSS ACADEMY OF TECHNICAL EDUCATION, SECTOR-62, NOIDA. -----</p>
---	---

(57) Abstract :
To connect massive number of objects to efficiently perform a structured task is achieved through Internet of Things (IoT) over the last decade. With its promising potential IoT has stepped in all the areas including the agricultural sector progressing the precision agriculture labelled to be the smart farming. Though smart farming has numerous advantages, it's still being a thread to farmers as well as humans due to the numerous vulnerabilities caused by the heterogenous interconnected devices. By employing the most suitable and highly securable mechanism for deployment of the IoT devices in agriculture. Thus, in this proposed model we have focused on the protection of agricultural data from the hackers by engaging a security threat detection model for agricultural IoT by making use of suitable encryption models at each computing layers of Internet of Things to protect attacks against the availability, privacy, authentication, integrity, and confidentiality.

No. of Pages : 14 No. of Claims : 0

(54) Title of the invention : SPEECH DATA PROTECTION METHOD FOR VOICE BASED SOCIAL MEDIA PLATFORMS USING MACHINE LEARNING

<p>(51) International classification :H04L0009080000, G06F0021620000, G06N0020000000, G06Q0050000000, H04L0009060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1) Mr. R. VENKATESWARA GANDHI Address of Applicant : ASSISTANT PROFESSOR, CSE, KESHAV MEMORIAL INSTITUTE OF TECHNOLOGY, NARAYANGUDA, HYDERABAD, TELANGANA - 500029. -----</p> <p>2)Mr. BOTTU GURUNADHA RAO</p> <p>3)Mr. ADITYA TANDON</p> <p>4)Dr. V. KALPANA</p> <p>5)Mr. S. MANJUNATHA</p> <p>6)Mr. S. SIVAKUMAR</p> <p>7)Dr SHREESHA KALKOOR M</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr. R. VENKATESWARA GANDHI Address of Applicant :ASSISTANT PROFESSOR, CSE, KESHAV MEMORIAL INSTITUTE OF TECHNOLOGY, NARAYANGUDA, HYDERABAD, TELANGANA - 500029. -----</p> <p>2)Mr. BOTTU GURUNADHA RAO Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, GAYATRI VIDYA PARISHAD COLLEGE FOR DEGREE AND PG COURSES(A), MVP COLONY, VISAKHAPATNAM-17, ANDHRA PRADESH -----</p> <p>3)Mr. ADITYA TANDON Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE &ENGINEERING, KRISHNA ENGINEERING COLLEGE, GHAZIABAD, U.P.,INDIA -----</p> <p>4)Dr. V. KALPANA Address of Applicant :ASSOCIATE PROFESSOR, COMPUTER SCIENCE AND ENGINEERING, VEL TECH RANGARAJAN Dr SAGUNTHALA R & D INSTITUTE OF SCIENCE AND TECHNOLOGY, AVADI, CHENNAI-600062, TAMILNADU -----</p> <p>5)Mr. S. MANJUNATHA Address of Applicant :ASSISTANT PROFESSOR, COMPUTER SCIENCE AND ENGINEERING, S J C INSTITUTE OF TECHNOLOGY, P.B #40, BB ROAD, CHICKBALLAPUR KARNATAKA-562101 -----</p> <p>6)Mr. S. SIVAKUMAR Address of Applicant :ASSISTANT PROFESSOR, DEPT OF ECE, BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH, CHENNAI-600073 -----</p> <p>7)Dr SHREESHA KALKOOR M Address of Applicant :ASSOCIATE PROFESSOR, ECE DEPARTMENT, SAMBHRAM INSTITUTE OF TECHNOLOGY, BANGALORE, VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI, KARNATAKA, INDIA -----</p>
---	---

(57) Abstract :

In today's world, many of the smart devices and service are invented which supports voice-driven interactions. One of the most private forms of personal communication is speech, as a sample speech holds information's such as message content, accent, gender, emotional state, and ethnicity. Unapproved surveillance causes major security threads in protecting the speech data. Thus, preservation of speech data for voice based social media platforms is highly essential and its being achieved with the various techniques of cryptography using machine learning. Out of several privacy protection techniques cryptography is a trust winning technique to protect the data in machine learning. Encryption and decryption process of quantum cryptography in machine learning provides high level of security along with faster recovery of the signal while maintaining the excellent audio quality. In this proposed model we have utilized sophisticated cryptographic algorithm along with encrypting standard using machine learning to ensure protected speech data transmission over the network.

No. of Pages : 10 No. of Claims : 5

(54) Title of the invention : SNAKE DETECTOR AND ALERTING GADGET FOR RURAL INDIA USING YOLO

<p>(51) International classification :H04N0021234300, H04N0019895000, H04N0019820000, H04N0021434000, G06F0111040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)VIT-AP UNIVERSITY Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH - INDIA 522 237. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr S KARTHIKEYAN Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH - INDIA 522 237. -----</p> <p>2)K CHARVI Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH - INDIA 522 237. -----</p> <p>3)NIVAS MANDUVA Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH - INDIA 522 237. -----</p> <p>4)ADITYA MITRA Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH - INDIA 522 237. -----</p> <p>5)ANIL KUMAR Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH - INDIA 522 237. -----</p>
---	---

(57) Abstract :

This invention is related to the approximate 4:3 counters based on K-Map reduction techniques. Two various approximate 4:3 counter namely, Design 1 approximate 4:3 counter & Design 2 approximate 4:3 counter are proposed. The original exact 4:3 counter has been taken as the reference, from which both of the designs are built from the scratch by using K-Map reduction and Boolean expression reduction techniques. Design 1 is derived from the exact 4:3 counter where the output 01 is only approximated to 01', however, the outputs 02 & 00 are left untouched. Design 2 is derived from the Design 1, and from the Design 1, the approximated output 01! has been taken, furthermore, the outputs 02 and 00 are also approximated to 02' and 00' with an emphasize on EX-OR gate elimination for the transistor count reduction and Error Distance reduction. Design 1 attained 75% pass rate, 30% reduction in area with the. Error Distance ranging from -2 to +2. Design 2 attained 56.25% of pass rate, 50% reduction in area with the Error Distance ranging from -1 to +1. Also it is noteworthy that the critical path delay of the Design 2 is lesser than that of the Design 1.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000132 A

(19) INDIA

(22) Date of filing of Application :03/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : IOT BASED MODERN COMPACT MOUSE WITH DUAL CONNECTIVITY FEATURE

(51) International classification :G06F0003035400, H04M0001050000, C11D0003330000, E04H0004000000, A47B0021040000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)VIT-AP UNIVERSITY

Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH-INDIA - 522237. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr S KARTHIKEYAN

Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH-INDIA - 522237. -----

2)MERVIN JOSEPH

Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH-INDIA - 522237. -----

3)AJAY VISHAL J L

Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH-INDIA - 522237. -----

(57) Abstract :

The modern-day computer has become a momentous device in every household nowadays. The use of computers and related devices has become a necessity rather than a luxury. The computer runs with the help of multiple devices like a keyboard, CPU, mouse, and many more. Mouse plays an important role in the usage of computers. Right from the day of the invention of the mouse, it has gone through multiple changes in shape, size, design, etc. Today's high-tech angular designs of the mouse make it seem inadequate by comparison. Today's mice are too large for low desks and can't keep up with little places and small hands. This newly innovative compact design simplifies the old design and can fit between 2 fingers which provides a better look and is easy to handle. It is less space-consuming and best suitable for routine computer users who work on office applications, internet surfing, and other daily activities. The common mice come up with wireless technology that includes Bluetooth, USB, etc in terms of connectivity. But this modern compact mouse comes up with both wireless and wired technology, which could help the user as a backup plan. The latest mouse includes a rechargeable battery which gets charged automatically when the user turns it to a wired connection.

No. of Pages : 11 No. of Claims : 3

(54) Title of the invention : WIRELESS AUTOMATIC WATER LEVEL CONTROLLER

<p>(51) International classification :G01F0023000000, H04Q0003660000, G05D0009120000, E02D0023020000, C04B0041450000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)VIT-AP UNIVERSITY Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH - INDIA 522 237. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1) Dr S KARTHIKEYAN Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH - INDIA 522 237. -----</p> <p>2)KAMALESH KUMAR K Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH - INDIA 522 237. -----</p> <p>3)VARANASI DATTA SAI JAIDEEP Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH - INDIA 522 237. -----</p> <p>4)AJAY VISHAL J L Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH - INDIA 522 237. -----</p>
---	---

(57) Abstract :

Water is the foundation of our lives, but we aren't treating water in that sense. Water is wasted in many different ways one of the main contributors in that list is while filling the tank. Almost every buildings and houses consist of an overhead tank which is filled daily or weekly according to consumption. But there are cases that require more than one-time filling, In such cases, it will be very difficult to monitor the filling and status of the pump. Sometimes a lot of water will overflow or the pump may damage due to prolonged dry run, we won't notice the dry run sometimes as it occurs in the middle of pumping the water, several types of Automatic and semi-automatic water level controllers are used in the market. But they aren't designed to work flexibly in all sorts of practical scenarios. By rectifying all sorts of problems, we are proposing WIRELESS AUTOMATIC WATERLEVEL CONTROLLER, It is one of the very advanced product ever proposed in the domain of wireless water level controller.

No. of Pages : 12 No. of Claims : 3

(54) Title of the invention : APPROXIMATE 4:3 COUNTERS BASED ON K-MAP REDUCTION FOR ERROR RESILIENT APPLICATIONS

<p>(51) International classification :H04N0021234300, H04N0019895000, H04N0019820000, H04N0021434000, G06F0111040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)THE PRINCIPAL, MEPCO SCHLENK ENGINEERING COLLEGE Address of Applicant :MEPCO SCHLENK ENGINEERING COLLEGE, MEPCO SCHLENK ENGINEERING COLLEGE(PO), SIVAKASI - 626005, TAMIL NADU, INDIA. - -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. G. KIRUBAKARAN Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, MEPCO SCHLENK ENGINEERING COLLEGE, MEPCO SCHLENK ENGINEERING COLLEGE(PO), SIVAKASI - 626005, TAMIL NADU, INDIA. -----</p> <p>2)Dr. R. SHANTHA SELVAKUMARI Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, MEPCO SCHLENK ENGINEERING COLLEGE, MEPCO SCHLENK ENGINEERING COLLEGE(PO), SIVAKASI - 626005, TAMIL NADU, INDIA. -----</p>
---	---

(57) Abstract :

This invention is related to the approximate 4:3 counters based on K-Map reduction techniques. Two various approximate 4:3 counter namely, Design 1 approximate 4:3 counter & Design 2 approximate 4:3 counter are proposed. The original exact 4:3 counter has been taken as the reference, from which both of the designs are built from the scratch by using K-Map reduction and Boolean expression reduction techniques. Design 1 is derived from the exact 4:3 counter where the output 01 is only approximated to 01', however, the outputs 02 & 00 are left untouched. Design 2 is derived from the Design 1, and from the Design 1, the approximated output 01! has been taken, furthermore, the outputs 02 and 00 are also approximated to 02' and 00' with an emphasize on EX-OR gate elimination for the transistor count reduction and Error Distance reduction. Design 1 attained 75% pass rate, 30% reduction in area with the Error Distance ranging from -2 to +2. Design 2 attained 56.25% of pass rate, 50% reduction in area with the Error Distance ranging from -1 to +1. Also it is noteworthy that the critical path delay of the Design 2 is lesser than that of the Design 1.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000276 A

(19) INDIA

(22) Date of filing of Application :03/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : MULTIDIMENSIONAL DATA BASED ON INTERACTIVE VISUAL ANALYSIS SYSTEM AND METHOD EMPLOYED THEREOF

(51) International classification :G06K0009620000, G06K0009460000, G06F0016280000, G06T0007900000, G06F0016170000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)CMR Technical Campus

Address of Applicant :CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. M. Ahmed Ali Baig

Address of Applicant :Professor, Dept. of Mechanical Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----

2)Dr. K. Srinivas

Address of Applicant :Professor, Dept. of CSE (DS), CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----

3)Dr Shankarnayak Bhukya

Address of Applicant :Assoc. Professor, Dept. of CSE (DS), CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India -----

4)G. Menaka

Address of Applicant :Asst. Professor, Dept. of IT, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India -----

5)A. Uday Kiran

Address of Applicant :Asst. Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----

(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a multidimensional data based on interactive visual analysis system and method employed thereof. The method includes determining a data to be analyzed are obtained need the attribute dimensions visible, according to determination the attribute dimensions cluster analysis is carried out to the data to be analyzed, and clustering the result of cluster analysis for each and assign different colors, the difference between cluster is got over Small, color distinction is smaller corresponding to cluster, and the difference between cluster is bigger, and color distinction is also bigger corresponding to cluster. The method further includes analyzing the attribute dimensions of determination and the color that each cluster assigns, displaying the integrated map of data and the parallel coordinates figure associated with the integrated map and interactivating the first operation based on parallel coordinates figure triggering is received, according to first interactive operation update the parallel coordinate's figure of displaying and the integrated map. FIG. 1

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000293 A

(19) INDIA

(22) Date of filing of Application :04/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ROBOTIC ARM TO ASSIST PARALYSED AND DISABLED PERSONS

(51) International classification :A61F0002580000, G06N0020000000, B33Y0010000000, G06N0003020000, A61F0002700000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)KONERU LAKSHMAIAH EDUCATION FOUNDATION

Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, GREEN FIELDS, VADDESWAREM, GUNTUR DISTRICT, ANDHRA PRADESH, 522502. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)RANGANATH LOLLA

Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF MECHANICAL ENGINEERING, KONERU LAKSHMAIAH EDUCATION FOUNDATION, GREEN FIELDS, VADDESWAREM, GUNTUR DISTRICT, ANDHRA PRADESH, 522502. -----

2)DR.A. SRINATH

Address of Applicant :PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, KON ERU LAKSHMAIAH EDUCATION FOUNDATION, GREEN FIELDS, VADDESWARAN, ANDHR PRADESH, INDIA, 522502 -----

(57) Abstract :

Medical Industry is changing its discipline into multidisciplinary areas by involving technologies like additive manufacturing, IOT, Robotics, Artificial intelligence, and machine learning. From 2000-2017 there are nearly 4.9 lakh people are affected with paralysis and these figures are increasing day to day. The affected people are in deep depression because they need to completely rely on some in all aspects of their life for small things also. This is the motivation to the design in the project. This artificial hand will be attached as third hand based on the signals generated from muscle it will reflect in the fingers. This sort of feature will definitely reduce the depression levels and the affected people can use it in much better to lift a weight of 2-3 kg . The design involved with less weight and easy to handle. The motors are placed inside the hand and the fishing wire line given inside the parts.

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : MECHANICALLY OPERATED SLIDER FOR FLIPPING THE ELECTRICAL SWITCH

<p>(51) International classification :H01H0003160000, H01H0011000000, H01H0071080000, H01H0023160000, B60R0016000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)RAMCO INSTITUTE OF TECHNOLOGY Address of Applicant :KRISHNAPURAM PANCHAYAT, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA - 626117. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. S. RAJAKARUNAKARAN Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INIDA, 626117 -----</p> <p>2)Mr. R. PRABHAKARAN Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INIDA, 626117 -----</p> <p>3)Mr. J. JEROLD JOHN BRITTO Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INIDA, 626117 -----</p> <p>4)Mr. R. VENKATESH Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INIDA, 626117 -----</p> <p>5)Mr. S.R. JEGEESH KUMAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INIDA, 626117 -----</p> <p>6)Mr. R. RANJITH KUMAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INIDA, 626117 -----</p> <p>7)Mr. S. NISHANTH Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INIDA, 626117 -----</p>
---	--

(57) Abstract :

The Mechanically Operated Slider (1) for Flipping the Switch (5) an extension device for the switch which is placed over the fascia plate (4) of the switch (5). It comprises a slider (1) with two slider supporter (8) and thread extension (9) which may not touch the floor. The slider (1) and slider supporter (8) can adopt itself to any types of switch (5) at an industrial place or a house. The upper inside tip of the slider (1) will rest at the tip of the switch (5) either ON or OFF. The Lower inside tip of the slider (1) will have the thread extension (9) and also can rest at the tip of the switch (5) if there is another switch, down to it vertically. The whole part is rigidly hold by a double-sided tape (6) over the fascia plate (4) of the switch. Whole structure is assembled without a single bolt or nut and it is insulated to protect from electricity leakage depending on the switch (5) the force applied at the tip will changed. The materials used here are eco-friendly as well as it does not need any skilful person to install at the place we want. The major purpose of this device is to lengthen the switch (5) to make it easily accessible for physically challenged and shorter people. The slider (1) moves horizontally and the positioner (2) and flipper (3) moves horizontally in between the slider (1). It can work on different types of switches like trippers. Further addition of extra gadgets can also be attached. -

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : SEMI AUTOMATED HAND REHABILITATION DEVICE

<p>(51) International classification :A61H0001020000, A63B0023160000, F01B0009020000, A63B0071000000, A61H0099000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)RAMCO INSTITUTE OF TECHNOLOGY Address of Applicant :KRISHNAPURAM PANCHAYAT, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA - 626117. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. T. RAM KUMAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA - 626117. -----</p> <p>2)Mr. S. SANTHOSH Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA - 626117. -----</p> <p>3)Mr. M. THOJESH NANDHA Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA - 626117. -----</p> <p>4)Dr. S. RAJAKARUNAKARAN Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA - 626117. -----</p> <p>5)Dr. S. GODWIN BARNABAS Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA - 626117. -----</p> <p>6)Dr. V. SIVAKUMAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA - 626117. -----</p> <p>7)Mr. T. SELVA SUNDAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA - 626117. -----</p> <p>8)Mr. S. VALAI GANESH Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA - 626117. -----</p>
---	--

(57) Abstract :

The semi-auto mated hand rehabilitation device is applicable to those who are in the old age, persons who has ortho injuries and stroke in their hand, wrist and fingers. This hand rehabilitation device using the simple slider crank mechanism with the support of individual functionalities of the components such as hand belt (1), motor (2), transmission gear (3)*, rotating disc (4), bevel gear (5), finger ring (6), support frame (7), tension ropes (8), and rope holding unit (9). Simple slider mechanism principle is used in this device such as the rotary motion of the crank is converted into reciprocating motion in this device. The rotary motion in the rotating disc (4) is converted into reciprocating motion they are connected to the rope holding unit (9). These rope holding unit (9) transmits the reciprocating motion to the individual fingers through the tension ropes (8). By this simple mechanism patients can able to perform the physio exercises to their injured/stroke affected fingers, hand and wrist in a most economical manner.

No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : MACHINE VISION BASED IOT ENABLED PEST IDENTIFICATION DRONE WITH CLOUD COMPUTING DATA ANALYTICS

(51) International classification :A01M0007000000, G06K0009620000, G06T0007000000, B64C0039020000, A01N0065080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. S. SELVAKANMANI
 Address of Applicant :ASSOCIATE PROFESSOR & HOD, DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE, VELAMMAL INSTITUTE OF TECHNOLOGY, VELAMMAL GARDENS, PANCHETTI, CHENNAI - 601204. -----

2)Dr. S. PRABAKERAN
3)Mr. VIJAY M
4)Mr. MOHANKUMAR C E
5)Ms. PRIYADHARSHINI G
6)Mr. G. BALRAM
7)Ms. J V S ARUNDATHI
8)Ms. MADURI MADHAVI
9)Mr. R. PARTHEEPAN
10)Mr. KISHORE ABISHEK
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1) Dr. S. SELVAKANMANI
 Address of Applicant :ASSOCIATE PROFESSOR & HOD, DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE, VELAMMAL INSTITUTE OF TECHNOLOGY, VELAMMAL GARDENS, PANCHETTI, CHENNAI - 601204. -----

2)Dr. S. PRABAKERAN
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF NETWORKING AND COMMUNICATIONS, SRM INSTITUTE OF SCIENCE & TECHNOLOGY (SRMIST) KATTANKULATHUR, CHENGALPATTU DISTRICT-603 203, TAMIL NADU, INDIA -----

3)Mr. VIJAY M
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ECE, VELAMMAL INSTITUTE OF TECHNOLOGY, VELAMMAL KNOWLEDGE PARK, CHENNAI-KOLKATA HIGH WAY, PANCHETTI, THIRUVALUR DISTRICT, PINCODE-601 204 --

4)Mr. MOHANKUMAR C E
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ECE, GRT INSTITUTE OF ENGINEERING AND TECHNOLOGY, GRT MAHALAKSHMI NAGAR, CHENNAI-TIRUPATHI HIGHWAY TIRUTTANI-631209 -----

5)Ms. PRIYADHARSHINI G
 Address of Applicant :LECTURER, DEPARTMENT OF COMPUTER ENGINEERING, SRI RANGANATHAR INSTITUTE OF POLYTECHNIC COLLEGE, ATHIPALAYAM, COIMBATORE-641110. -----

6)Mr. G. BALRAM
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, ANURAG UNIVERSITY, VENKATAPUR, GHATKESAR MEDCHAL DISTRICT, HYDERABAD, TELANGANA, INDIA-500088 ----

7)Ms. J V S ARUNDATHI
 Address of Applicant :LECTURER, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SR &BGNR GOVT. ARTS AND SCIENCE DEGREE AND PG COLLEGE(AUTONOMOUS)KHAMMAM 507002 -----

8)Ms. MADURI MADHAVI
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ARTIFICIAL INTELLIGENCE, ANURAG UNIVERSITY, VENKATAPUR, GHATKESAR MEDCHAL DISTRICT, HYDERABAD, TELANGANA, INDIA, 500088 -----

9)Mr. R. PARTHEEPAN
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, J.N.N INSTITUTE OF ENGINEERING, NO:90, USHA GARDEN, CHENNAI-PERiyAPALAYAM HIGHWAY, KANNIGAIPAIR, TAMIL NADU-601102 -----

10)Mr. KISHORE ABISHEK
 Address of Applicant :CHIEF TECHNICAL ASSOCIATE, KNOWLEDGE X CHANGE COMMUNITY NO:131/2, EMERALD FLATS, THIRUMANGALAM, ANNA NAGAR WEST, CHENNAI-600040, TAMIL NADU, INDIA -----

(57) Abstract :
 This invention is an image processing product with hardware and software components for identification of pests on crops and sending an alert message to the farmer. Pests and insects are one of the most common problems in agriculture. As a generic solution, pesticides and insecticides are sprayed over the plants which affect the food grains. There is always a certain level of residue insecticide or pesticide on the food grains which has a certain level of toxicity. In this invention, an image processing based drone system is made to scan or comb through the field identifying the insects or pests. An early identification system can give enable a solution where these insects or pests are eliminated without chemical spraying. The on-board electronic computing unit on the drone sends the image or the processed information to the server. The server sends the notification to the farmer's mobile application on identification of the pest or insect. Conventional tested image processing algorithms like CNN and SVM are employed integrated with standard machine vision data analysing techniques.

(54) Title of the invention : Multi-Purpose Humanoid Robo for child guidance

(51) International classification :A61L0002080000, A61L0002280000, B25J0009000000, A61L0011000000, C12N0009120000

(86) International Application No Filing Date :PCT// / :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

(71)Name of Applicant :**1)N.Vaishnavi**Address of Applicant :LIG 326 Housing board colony Ongole
Andhra Pradesh INDIA -----**2)Kondapi Lahari****3)Thota Manohar****4)Manari Janakiram****5)M.S. Manohar****6)Dr. M. Sreenivasan****Name of Applicant : NA****Address of Applicant : NA****(72)Name of Inventor :****1)Kondapi Lahari**Address of Applicant :8-293-12 Mangamur Donka, Ongole
Andhra Pradesh, INDIA -----**2)Thota Manohar**Address of Applicant :J-12 Ongole police quarters, Ongole
Andhra Pradesh, INDIA -----**3)M.S. Manohar**Address of Applicant :54-1-20 Rail peta 3rd lane Ongole, Andhra
Pradesh, INDIA -----**4)Manari Janakiram**Address of Applicant :3-2 Agraharam pakala, Andhra Pradesh,
INDIA -----**5)N.Vaishnavi**Address of Applicant :LIG 326 Housing board colony Ongole
Andhra Pradesh INDIA -----**(57) Abstract :**

In recent days of the COVID-19 virus, human lives and livelihoods change extensively and the only way to minimize the spread of the virus is to maintain social distancing and follow guidelines proposed by our respective governments. Not to mention sanitation and sterilization have become an indistinguishable part of our daily life. On the other hand, there is a problem with sanitation and sterilization, the humans can't be directly involved in the sterilization process, because there is a higher possibility of getting the deadly virus from the contaminated space, to address this problem, this invention's idea is about Multi-Purpose Humanoid ROBOT, that can sterilize a place very easily without exposing ourselves. Robots are in use for several applications where humans can be at risk of exposure with fewer obstacles. So, for this problem will be building a gamma sanitation robot, so it can have chosen to design that will be able to kill the germs in the hospital and apartment building, and for that, we are going to be using an Arduino, some GAMMA RAY LEDs, and ultrasonic sensors. The wide range usage of ROBO is being seen everywhere, in this extension, the ROBO designed by us can be used in schools, Kids play areas for learning, teaching & entertainment purposes which can teach poems, words, numbers with a fixed material source, The fixed material source can be set by the user using their mobile with the help of PRP Memory programming mode.

No. of Pages : 11 No. of Claims : 5

(54) Title of the invention : A METHOD OF DATA SET GENERATION FOR BREACH DETECTION IN INTERNET-OF-THINGS AND INDUSTRIAL-INTERNET-OF-THINGS SYSTEMS

(51) International classification :H04L0029080000, H04L0029060000, G06N0020000000, G06N0003080000, G06N0007000000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :
1)Dr. N NAGADEEPA
 Address of Applicant :D/o. S NALLASELVAM, PRINCIPAL & ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, SRI SARADA NIKETAN COLLEGE FOR WOMEN, KARUR - 639005, TAMIL NADU, INDIA. -----

2)Dr. N KAVITHA
3)Prof. J SUKANYA
4)Dr. B. INDRANI
5)Dr. N DHANALAKSHMI
6)Dr. G RAMKUMAR
7)Dr. J SARAVANESH
8)Prof. P.PADMANABHAN
9)Prof. A VIGNESWARI
10)Prof. R RAMALAKSHMI
11)Dr. M SUGANYA
12)Dr. J THASLEEN FATHIMA
13)Prof. S SOPHIA RANI
14)M SATHISH KUMAR
15)Prof. B CHITRADEVI
16)Prof. V NAGARAJ

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. N NAGADEEPA
 Address of Applicant :D/o. S NALLASELVAM, PRINCIPAL & ASSOCIATE PROFESSOR, SRI SARADA NIKETAN COLLEGE FOR WOMEN, SRI SAI ILLAM, RK RESIDENCY, VELUR, NAMAKKAL - 638182, TAMIL NADU, INDIA. -----

2)Dr. N KAVITHA
 Address of Applicant :D/o. A NAGARAJAN, ASSISTANT PROFESSOR, UNIVERSITY COLLEGE OF ENGINEERING, 15, SNM MOHANRAM NAGAR, THOLKAPPIER SQUARE, THANJAVUR - 613001, TAMIL NADU, INDIA. -----

3)Prof. J SUKANYA
 Address of Applicant :D/o. D JEGANATHAN, ASSISTANT PROFESSOR, M V MUTHIAH GOVERNMENT ARTS COLLEGE FOR WOMEN, 5/451 GANGAI STREET ANGEL NAGAR ATHIKULAM, MADURAI - 625007, TAMIL NADU, INDIA. -----

4)Dr. B INDRANI
 Address of Applicant :D/o. BALASUNDARAM, ASSISTANT PROFESSOR & HEAD, MADURAI KAMARAJ UNIVERSITY, L5 STAFF QUARTERS, MADURAI - 625021, TAMIL NADU, INDIA. -----

5)Dr. N DHANALAKSHMI
 Address of Applicant :D/o. S NATARAJAN, PROFESSOR, PSNA COLLEGE OF ENGINEERING & TECHNOLOGY, VL1/100, KARUR MAIN ROAD, ERIODU, DINDIGUL - 624702, TAMIL NADU, INDIA. -----

6)Dr. G RAMKUMAR
 Address of Applicant :S/o. R GANESAN, ASSISTANT PROFESSOR, ARUL ANANDAR COLLEGE, L52, THIRUVALLUVAR NAGAR, RAJAPALAYAM, VIRUDHUNAGAR - 626117, TAMIL NADU, INDIA. -----

7)Dr. J SARAVANESH
 Address of Applicant :S/o. S V JEGANATHAN, ASSISTANT PROFESSOR, MADURAI KAMARAJ UNIVERSITY, 38 PAPPAN KINATRU LANE, SOUTH MASI STREET, MADURAI - 625001, TAMIL NADU, INDIA. -----

8)Prof. P PADMANABHAN
 Address of Applicant :S/o. V PURUSHOTHAMAN, ASSISTANT PROFESSOR, GALGOTIAS UNIVERSITY, G462, ALPHA - II, GREATER NOIDA, GAUTHAM BUDDH NAGAR - 203201, UTTAR PRADESH, INDIA. -----

9)Prof. A VIGNESWARI
 Address of Applicant :D/o. S ANNA DURAI, HOD & ASSISTANT PROFESSOR, SRI SARADA NIKETAN COLLEGE FOR WOMEN, 123, PON NAGAR, ARAVAKURUCHI, KARUR - 639201, TAMIL NADU, INDIA. -----

10)Prof. R RAMALAKSHMI
 Address of Applicant :D/o. M L RAJENDRAN, ASSISTANT PROFESSOR, RAJAPALAYAM RAJUS COLLEGE, 176/151, KONDU RAJA STREET, SAKKA RAJA KOTTAI, RAJAPALAYAM - 626117, TAMIL NADU, INDIA. -----

11)Dr. M SUGANYA
 Address of Applicant :D/o. V MALAICHAMY, ASSISTANT PROFESSOR, LATHA MATHAVAN ENGINEERING COLLEGE, 2/1d. GANDHINAGAR 1ST NAGAR, MELUR, MADURAI - 625106, TAMIL NADU, INDIA. -----

12)Dr. J THASLEEN FATHIMA
 Address of Applicant :W/o. M. JAMAL MOHIDEEN, HOD & ASSOCIATE PROFESSOR, HAJEE KARUTHA ROWTHER HOWDIA COLLEGE, NO.28, KULAKARAN STREET, CUMBUM, UTHAMAPALAYAM, THENI - 625516, TAMIL NADU, INDIA. -----

13)Prof. S SOPHIA RANI
 Address of Applicant :W/o. M RAGAVAN, ASSISTANT PROFESSOR, HAJEE KARUTHA ROWTHER HOWDIA COLLEGE, 4-4-93D, , WATER TANK STREET, MANI NAGAR, UTHAMAPALAYAM, THENI - 625533, TAMIL NADU, INDIA. -----

14)M SATHISH KUMAR
 Address of Applicant :S/o. S MUTHU KARUPPAN, DOCTORAL RESEARCH SCHOLAR, MADURAI KAMARAJ UNIVERSITY, H.NO.142, PERIYAR NAGAR, MADAKULAM, MADURAI - 625003, TAMIL NADU, INDIA. -----

15)Prof. B CHITRADEVI
 Address of Applicant :D/o. BHUVARAHAMURTHY G, ASSISTANT PROFESSOR, THANTHAI HANS ROEVER COLLEGE, NO.6-4/N, MELA PERUMAL KOIL STREET, PENNADAM, TITTAKUDI, CUDDALORE - 606105, TAMIL NADU, INDIA. -----

16)Prof. V NAGARAJ
 Address of Applicant :S/o. G VARATHARAJ, ASSISTANT PROFESSOR, KNOWLEDGE INSTITUTE OF TECHNOLOGY, NH47, KAKAPALAYAM, SALEM- 637504, TAMIL NADU, INDIA. -----

(57) Abstract :
 [0050] The present invention relates data privacy and more particularly it relates to a method within a system of Internet-of-Things and Industrial-Internet-of Things for data set generation towards detection of breaches in a secured network. It describes a dataset of the Telemetry data of IoT/IIoT services and their characteristics. The system has various advantages that are currently lacking in the state-of-the-art datasets: i) it has various normal and attack events for different IoT/IIoT services, and ii) it includes heterogeneous data sources. We evaluated the performance of several popular Machine Learning (ML) methods and a Deep Learning model in both binary and multi-class classification problems for intrusion detection purposes using the telemetry dataset.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000478 A

(19) INDIA

(22) Date of filing of Application :05/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : Blockchain for IoT security and privacy of Violation Records

(51) International classification :H04L0029080000, H04L0009060000, G06F0021620000, H04L0029060000, H04L0009320000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Prasanna Kumar Lakineni

Address of Applicant :65-6-232 housing colony mulagada

VISAKHAPATNAM -----

Name of Applicant : NA

Address of Applicant : NA

(72)

(57) Abstract :

Blockchain for IoT security and privacy of Violation Records

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000486 A

(19) INDIA

(22) Date of filing of Application :05/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : IOT BASED FINANCIAL MODELING BIG DATA ANALYTICS SYSTEM FOR USE IN FINANCIAL MANAGEMENT SECTOR

(51) International classification :H04L0029080000, G06Q0040000000, G06Q0040060000, G01R0027260000, G06K0019077000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. KUSUMA M

Address of Applicant :#181, 4TH MAIN, 4TH CROSS, NRUPATHUNGA NAGAR, J P NAGAR 8TH PHASE, BANGALORE - 560076 -----

2)Dr. VATSALA GA

3)Dr. MANJULA GURURAJ RAO

4)RAKESH S RAJ

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. KUSUMA M

Address of Applicant :#181, 4TH MAIN, 4TH CROSS, NRUPATHUNGA NAGAR, J P NAGAR 8TH PHASE, BANGALORE - 560076 -----

2)Dr. VATSALA GA

Address of Applicant :FF1, BALAJI RESIDENCY, GANIGARAPALYA, THALAGATTAPURA POST, BENGALURU 560062. -----

3)Dr. MANJULA GURURAJ RAO

Address of Applicant :GURUKRIPA, YAKSHAGANA KALA KENDRA ROAD, GUNDMI SALIGRAM, KARNATAKA 576226 -----

4)RAKESH S RAJ

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ISE, AIT, CHIKMAGALUR -----

(57) Abstract :

“IOT BASED FINANCIAL MODELING BIG DATA ANALYTICS SYSTEM FOR USE IN FINANCIAL MANAGEMENT SECTOR” Accordingly, embodiments herein disclose IoT based financial modeling big data analytics system for use in financial management sector comprising of an expanse switching sensor (ESS) (1) sensing expanses of financial data; and an earning switching sensor (ERSS) (2) sensing earning data. The expanse switching sensor (ESS) (1) and the earning switching sensor (ERSS) (2) are activated and acting as a closed switch when a financial officer touch, pressure or force, and when the pressure or contact is removed, the ESS (1) and ERSS (2) are acting as an open switch. Further, the invention includes a capacitance measuring circuit continuously measuring capacitance (C0) of the ESS (1) and ERSS (2); and a Node MCU (3) including output pins (D2, D3) connected with the ESS (1) and ERSS (2), respectively. The information of digital output value is transmitted via the Node MCU (3) to think to speak channel.

No. of Pages : 13 No. of Claims : 9

(54) Title of the invention : ARTIFICIAL INTELLIGENCE-BASED CANCER DIAGNOSIS AND TREATMENT BY USING NANO PARTICLES

(51) International classification :G01N0033574000, C12Q0001688600, B82Y0005000000, A61K0031474500, A61K0049000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MRS. DEVI P
 Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF COMPUTER SCIENCE, HINDUSTAN INSTITUTE OF TECHNOLOGY & SCIENCE, CHENNAI - 603 103 -----
2)DR.R.SUBRAMANIYAN @ RAJA
3)DR.K. BALASUBRAMANIAN
4)N. PRABU SNAKAR
5)SHAIKH ABDUL WAHEED
6)DR. M.MALATHI
7)R.SRIVEL
8)DR. M.SARAVANAN
9)Dr. AROKIARAJ DAVID
10)DR Y. SEETHA MAHALAKSHMI
11)MR. KAMJULA LAKSHMI KANTH REDDY
12)DR. A. ARUN KUMAR
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)MRS. DEVI P
 Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF COMPUTER SCIENCE, HINDUSTAN INSTITUTE OF TECHNOLOGY & SCIENCE, CHENNAI - 603 103 -----
2)DR.R.SUBRAMANIYAN @ RAJA
 Address of Applicant :ASSISTANT PROFESSOR (SR.G), DEPARTMENT OF PHYSICS, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, COIMBATORE-641 407 -----
3)DR.K. BALASUBRAMANIAN
 Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHYSICS, THE M.D.T HINDU COLLEGE, TIRUNELVELI-627 010 -----
4)N. PRABU SNAKAR
 Address of Applicant :ASSISTANT PROFESSOR / CSE, BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH, CHENNAI - 600126 -----
5)SHAIKH ABDUL WAHEED
 Address of Applicant :SHAIKH ABDUL WAHEED, SENIOR RESEARCH SCHOLAR, B.S. ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE & TECHNOLOGY, VANDALUR, CHENNAI-600048. -----
6)DR. M.MALATHI
 Address of Applicant :PROFESSOR / ECE, ADHIPARASAKTHI ENGINEERING COLLEGE, MELMARUVATHUR - 603319 -----
7)R.SRIVEL
 Address of Applicant :ASSISTANT PROFESSOR / EEE, ADHIPARASAKTHI ENGINEERING COLLEGE – MELMARUVATHUR-603319, TAMILNADU,INDIA -----
8)DR. M.SARAVANAN
 Address of Applicant :PROFESSOR / EEE, HOLY MARY INSTITUTE OF TECHNOLOGY AND SCIENCE, HYDERABAD - 501301 -----
9)Dr. AROKIARAJ DAVID
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MANAGEMENT STUDIES, JAIN (DEEMED-TO-BE UNIVERSITY) BENGALURU - 560 069 -----
10)DR Y. SEETHA MAHALAKSHMI
 Address of Applicant :DEPARTMENT OF PHYSICS AND ELECTRONICS, ST.ANN'S COLLEGE FOR WOMEN, MEHDIPATNAM, HYDERABAD - 500075 -----
11)MR. KAMJULA LAKSHMI KANTH REDDY
 Address of Applicant :ASSISTANT PROFESSOR / CSE, KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES - [KITS], GUNTUR - 522017 -----
12)DR. A. ARUN KUMAR
 Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHYSICS (H&SC), METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY, HYDERABAD - 500001 -----

(57) Abstract :
 Artificial intelligence-based cancer diagnosis and treatment by sing nano particles is the proposed invention that selectively targets cancerous cells, which results in more accurate diagnosis and early detection. The invention enables the visualization of cancer biomarkers that helps to identify the specific stages of cancer cells and thereby deciding upon treatments which targets to the death of cancer cells. The implementation of nano particles will help detect and diagnose cancer at molecular level by developing biomarkers.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000505 A

(19) INDIA

(22) Date of filing of Application :05/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : AN ANTENNA BASED SYSTEM TO TRACK THE VEHICLES IN CASE OF THEFT

(51) International classification :B60R0025102000, B60R0025330000, G08B0025000000, B60R0025300000, G08B0013140000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DR. MD JAVEED AHAMMED

Address of Applicant :POST DOCTORAL FELLOW,
SRINIVAS UNIVERSITY - 574146. -----

2)DR. P S AITHAL

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. MD JAVEED AHAMMED

Address of Applicant :POST DOCTORAL FELLOW, SRINIVAS
UNIVERSITY - 574146. -----

2)DR. P S AITHAL

Address of Applicant :VICE CHANCELLOR, SRINIVAS
UNIVERSITY - 574146. -----

(57) Abstract :

An antenna based system to track the vehicles in case of theft is the proposed invention that helps to locate the vehicles that are stolen. the invention implements a framework where transmitters and receiver signals of antenna is used to notify the owner of the vehicle as well as the nearest police station based on GPS location. as soon as the vehicle is stolen, the user will activate the antenna transmitter that sends signals to the centralized signal receiver. the centralized unit in turn will notify the nearest police station and thus the vehicle can be tracked down immediately.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000522 A

(19) INDIA

(22) Date of filing of Application :05/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATED APPAREL FOLDING AND PRESSING MACHINE

(51) International classification :G06Q0010060000, G06Q0030020000, A41D0027080000, B42C0007000000, A47B0043000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1) PSG COLLEGE OF TECHNOLOGY

Address of Applicant :THE PRINCIPAL, PSG COLLEGE OF TECHNOLOGY, AVINASHI ROAD, PEELAMEDU,COIMBATORE-641 004, TAMILNADU. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. VIGNESWARAN CHIDAMBARAM

Address of Applicant :1, MANNUDIAR LANE, NANJUNDAPURAM, COIMBATORE-641036. -----

2)Mr. MOHANRAJ RAMASAMY

Address of Applicant : 9/5, MURUGAN NAGAR, 5TH CROSS, KAVUNDAMPALAYAM, COIMBATORE-641030, TAMIL NADU -----

3)Mr. HARI CHEALVAN SELVARAJAN

Address of Applicant :4/565-E, ANDAVAR NAGAR, TRICHY ROAD, NAMAKKAL-637001. -----

4)Mr. SIVA ROOPAN RAMAMOORTHY

Address of Applicant :NO:2/201, PARAMARATHU THOTHAM, NEAR GOVT HIGH SCHOOL, IDHUVAMPALAYAM, TIRUPUR-641687 -----

5)Mr. ABILASH GANESHAN

Address of Applicant :147/84C, RAMNAGAR, SAMALAPURAM, SOMANUR, TIRUPPUR-641668 -----

6)Mr. NIRANJAN CHANDRAGRAHAM

Address of Applicant :36 A, VELAYUTHAM ROAD, SIVAKASI, VIRUDHUNAGAR DISTRICT-626123 -----

7)Mr. NITIN RANGANATHAN ETHIRAJ

Address of Applicant :4/148-2, GREEN FIELDS, KALLIPALAYAM, PETCHANAICKENPALAYAM, COIMBATORE-641104 -----

(57) Abstract :

The apparel folding process is crucial process that influences the time and packaging method in apparel manufacturing industries and showrooms. Crisply folded apparel creates a good impression on customers therefore it increases the sales. Apparel manufacturing industries has to handle a lot of apparel and they have to be folded uniformly which is a tedious task. When apparel is folded using traditional technique by using hands, there will be less consistency in the operation and to overcome this, apparatus capable of uniform folding is required. The different modes in proposed machine can be dynamically changed to suit the apparel of the interest to fold. The conventional folding process is currently done manually which involves manpower to a greater extent, consumes more time based on- the skill of the labor and it also requires a separate process for pressing. Since both processes are carried out separately it leads to wastage of time and human involvement. Both folding and pressing processes can be carried out simultaneously thereby significantly decreasing labor power and time required. Whereas by using this machine the rate at which the clothes can be folded and pressed can be increased drastically up to thirty clothes per hour approximately. The conventional process requires trained employees to do the job effectively, but in this innovation, an unskilled person could even operate it effectively.

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : AN IOT BASED SMART MOBILE PHONE CHARGER EMBEDDED WITH TIME SENSORS

<p>(51) International classification :H02J0007000000, G06F0003048800, H04N0021414000, H02J0007020000, G06F0003048400</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)KALIYAPPAN R Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF COMPUTER SCIENCE, DR. N. MAHALINGAM CENTRE FOR RESEARCH AND DEVELOPMENT, NALLAMUTHU GOUNDER MAHALINGAM COLLEGE, POLLACHI, COIMBATORE, 642 001. -----</p> <p>2)DR. VIJAYA KUMAR GUDIVADA 3)RELANGI ANIL KUMAR 4)ARULKUMAR P 5)DR. S. M. SUBASH 6)VIDHYA M Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)KALIYAPPAN R Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF COMPUTER SCIENCE, DR. N. MAHALINGAM CENTRE FOR RESEARCH AND DEVELOPMENT, NALLAMUTHU GOUNDER MAHALINGAM COLLEGE, POLLACHI, COIMBATORE, 642 001. -----</p> <p>2)DR. VIJAYA KUMAR GUDIVADA Address of Applicant :ASSOCIATE PROFESSOR, INFORMATION TECHNOLOGY, NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, HYDERABAD, 500024HYDERABAD -----</p> <p>3)RELANGI ANIL KUMAR Address of Applicant :ASSISTANT PROFESSOR/ECE, ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY, SURAMPALEM, PIN CODE:533437. -----</p> <p>4)ARULKUMAR P Address of Applicant :ASSOCIATE PROFESSOR/ EEE, V.S.B. ENGINEERING COLLEGE, KARUR, TAMILNADU -----</p> <p>5)DR. S. M. SUBASH Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CIVIL ENGINEERING, GURU NANAK INSTITUTE OF TECHNOLOGY, HYDERABAD-501506 -----</p> <p>6)VIDHYA M Address of Applicant :ASSISTANT PROFESSOR /CSE, PANIMALAR INSTITUTE OF TECHNOLOGY, CHENNAI-6000123 -----</p> <p>7)DR.N.JAGADEESAN Address of Applicant :PROFESSOR/ECE, MALLA REDDY ENGINEERING COLLEGE FOR WOMEN, SECUNDARABAD, 500100 -----</p> <p>8)DR. SHRINIVAS A SIRDESHPANDE Address of Applicant :PROFESSOR, CSE DEPARTMENT, VBIT, HALIYAL - 581329, UTTAR KARNATAKA -----</p> <p>9)RAMPRABU J Address of Applicant :ASSISTANT PROFESSORS, DEPARTMENT OF EEE, KUMARAGURU COLLEGE OF TECHNOLOGY COIMBATORE -----</p> <p>10)DR(MRS) PREM MEHTA Address of Applicant :DIRECTOR EDUCATION DEPARTMENT VD INSTITUTE OF TECHNOLOGY DELHI 86 AFF.TO GGSIP UNIVERSITY DELHI -----</p> <p>11)DR NAZIM SHA S Address of Applicant :ASSISTANT PROFESSOR/ MBA, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI, TAMILNADU 600119 -----</p> <p>12)SAWANT ANURAG RAMKRISHNA Address of Applicant :STUDENT OF ELECTRONIC & TELECOMMUNICATION SAPKAL COLLEGE OF ENGINEERING NASHIK 422213 -----</p>
--	---

(57) Abstract :
 An IOT based smart mobile phone charger is the proposed invention that is embedded with time sensor. The invention aims at designing and implementing a framework where the mobile charger includes a touchscreen display unit. The touch screen display unit displays the time left for charging, charging percentage, remaining charge, next possible charging time etc. The GSM unit of charger will alert the user that his/her phone has to be charged with a notification or voice announcement.

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : IMPLEMENTATION OF A SMART CITY WITH SECURITY AWARE MOBILE COMPUTING TECHNIQUES

<p>(51) International classification :H04W0004800000, H04L0029080000, F21S0008080000, H04L0029060000, F21W0131103000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DR. M. YUVARAJA Address of Applicant :ASSOCIATE PROFESSOR / ECE, P. A. COLLEGE OF ENGINEERING AND TECHNOLOGY, POLLACHI, COIMBATORE(DT). 642 002 ----- 2)DR.G.SARAVANAN 3)KUMAR D 4)SURESHKUMAR S 5)TAMIL SELVAN S 6)BALASUBRAMANYAN A 7)R. PRIYA 8)SENTHIL KUMAR M 9)GOWRISANKAR U 10)VIJAYAKUMAR N Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)DR. M. YUVARAJA Address of Applicant :ASSOCIATE PROFESSOR / ECE, P. A. COLLEGE OF ENGINEERING AND TECHNOLOGY, POLLACHI, COIMBATORE(DT). 642 002 ----- 2)DR.G.SARAVANAN Address of Applicant :ASSISTANT PROFESSOR / CSE, ERODE SENGUNTHAR ENGINEERING COLLEGE, ERODE - 638 057 ----- 3)KUMAR D Address of Applicant :ASSOCIATE PROFESSOR / ECE ,P A COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE - 642 002 ----- 4)SURESHKUMAR S Address of Applicant :ASSISTANT PROFESSOR, CSE, P. A. COLLEGE OF ENGINEERING AND TECHNOLOGY, POLLACHI, 642 002 ----- 5)TAMIL SELVAN S Address of Applicant :AP/CSE, ERODE SENGUNTHAR ENGINEERING COLLEGE,THUDUPATHI, PERUNDURAI, ERODE -638 057 ----- 6)BALASUBRAMANYAN A Address of Applicant :ASSISTANT PROFESSOR / CSE, P .A. COLLEGE OF ENGINEERING AND TECHNOLOGY, POLLACHI - 642 002 ----- 7)R. PRIYA Address of Applicant :ASSISTANT PROFESSOR /CSE , POLLACHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, POLLACHI - 642 205 - ----- 8)SENTHIL KUMAR M Address of Applicant :ASSISTANT PROFESSOR / CSE, ERODE SENGUNTHAR ENGINEERING COLLEGE,THUDUPATHI, PERUNDURAI, ERODE -638 057 ----- 9)GOWRISANKAR U Address of Applicant :ASSISTANT PROFESSOR /CSE, ERODE SENGUNTHAR ENGINEERING COLLEGE,THUDUPATHI, PERUNDURAI, ERODE -638 057 ----- 10)VIJAYAKUMAR N Address of Applicant :ASSISTANT PROFESSOR / CSE, POLLACHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, POLLACHI -642 205 - -----</p>
--	--

(57) Abstract : Implementation of a smart city with security aware mobile computing techniques is the proposed invention which aims designing a framework that supports for smoother functioning of smart cities. The proposed invention focuses on monitoring the security issues that are associated with applications that are used along with smart devices which will work together to drive at the objectives of smart city, plurality of concepts is discussed under smart city that varies form smarter street light systems to smarter parking system for this instance.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000562 A

(19) INDIA

(22) Date of filing of Application :05/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHOD AND SYSTEM FOR AUTOMATICALLY CLUSTERING A PLURALITY OF USERS WITH SIMILAR PERSONALITIES

(51) International classification :G06Q0010100000, H04W0004080000, G06F0016280000, G06Q0050000000, G16H0040200000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Woxsen University

Address of Applicant :Kamkole Village, Sadasivpet, Sangareddy District, Hyderabad, Telangana, India - 502345 -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)Sankalp Chenna

Address of Applicant :School of Business, Woxsen University, Kamkole Village, Sadasivpet, Sangareddy District, Hyderabad, Telangana, India - 502345 -----

2)Dr. Hemachandran K

Address of Applicant :School of Business, Woxsen University, Kamkole Village, Sadasivpet, Sangareddy District, Hyderabad, Telangana, India - 502345 -----

(57) Abstract :

The present invention relates to a method and system for automatically clustering a plurality of users with similar personalities. To start with, data corresponding to a plurality of users associated with the organization are collected utilizing data collection module 208. The data includes one or more interests, likes, dislikes, personality and favorites of the plurality of users. Subsequently, the data corresponding to the plurality of users are associated with corresponding friends of the plurality of users utilizing data association module 210. Further, the plurality of users with similar personality types are grouped utilizing model selection module 212 integrated with a learning algorithm. Later, one or more clusters with group of similar personality types are created using cluster creation module 212 integrated with a plurality of learning algorithms to generate an efficient output from the collaborated group. Figure 2.

No. of Pages : 20 No. of Claims : 7

(54) Title of the invention : SMART SOLAR RAYS TRACKING SYSTEM FOR RENEWABLE ENERGY EXTRACTION USING IOT BASED STRATEGY

<p>(51) International classification :H02S0020320000, F24S0030000000, G01S0003786000, F24S0050200000, F24S0030425000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. JAYAPRAKASH VENUGOPAL Address of Applicant :ASSISTANT PROFESSOR, SCHOOL OF MECHANICAL ENGINEERING, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, OLD MAHABALIPURAM ROAD, SEMMANCHERI, CHENNAI, TAMIL NADU 600119 ----- 2)Dr. D. RAGURAMAN 3)Dr. SURAJ KUMAR SAW 4)Dr. NIRDESH KUMAR SINGH 5)Mr. CH. VENKATRAO 6)Dr. BHARATI CHANDRAYAN Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mr. JAYAPRAKASH VENUGOPAL Address of Applicant :ASSISTANT PROFESSOR, SCHOOL OF MECHANICAL ENGINEERING, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, OLD MAHABALIPURAM ROAD, SEMMANCHERI, CHENNAI, TAMIL NADU 600119 ----- 2)Dr. D. RAGURAMAN Address of Applicant :HOD, DEPARTMENT OF AUTOMOBILE ENGINEERING, BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH, SELAIYUR, CHENNAI – 60073 ----- 3)Dr. SURAJ KUMAR SAW Address of Applicant :ASSISTANT PROFESSOR SCTR’S PUNE INSTITUTE OF COMPUTER TECHNOLOGY, BHARATI VIDYAPEETH CAMPUS, DHANKAWADI, PUNE, MAHARASHTRA 411043 ----- 4)Dr. NIRDESH KUMAR SINGH Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF PHYSICS, KERALA VERMA SUBHARTI COLLEGE OF SCIENCE SWAMI VIVEKANAND SUBHARTI UNIVERSITY NH-58, DELHI-HARIDWAR BYPASS, MEERUT, UTTAR PRADESH 250005 ----- 5)Mr. CH. VENKATRAO Address of Applicant :ASSISTANT PROFESSOR(AD-HOC) DEPARTMENT OF CHEMISTRY KRISHNA UNIVERSITY RUDRAVARAM, MACHILIPATNAM-521001 KRISHNA DISTRICT, ANDHRA PRADESH, INDIA ----- 6)Dr. BHARATI CHANDRAYAN Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ENGLISH (LITERATURE) SRM INSTITUTE OF SCIENCE &TECHNOLOGY, SRMIST, DELHI-NCR CAMPUS,MODINAGAR, GHAZIABAD, UTTAR PRADESH 201204 -----</p>
--	---

(57) Abstract :

The primary objective of this investigation is to plan a very exact sun based tracker and offer the data through IoT. In this work, detecting of the sun position did in two stages essential and auxiliary. Essential stage or aberrant detecting performed by means of sun-earth relationship as a coarse change and second stage or direct detecting performed by means of set of LDR sensors as result tuning to manage the azimuth and elevation points. On the off chance that the climate is overcast or dusty, the following framework utilizes essential stage or sun-earth mathematical connections just to distinguish the area of the sun; so the framework tracks the place of the sun notwithstanding the climate condition. The energy separated from photovoltaic (PV) or any sunlight based authority relies upon sun powered irradiance. For greatest extraction of energy from the sun, the sun oriented gatherer board ought to forever be ordinary to the occurrence radiation Solar trackers moves the sun based authority to follow the sun way and keeps the direction of the sunlight based gatherer at an ideal slant point. Solar based global positioning framework improves generously the energy effectiveness of photovoltaic (PV) board. The task is separated into two sections; equipment and programming. Equipment part commonly made out of sunlight powered charger, two-DC engines, LDR sensor module, temperature sensor, dampness sensor and electronic circuit. Programming part addresses the thinking conduct about the framework, that is the ticket the framework acting under a few climate conditions. In this invention, a programmed sun based global positioning framework is planned and created utilizing Light Dependent Resistor (LDR) and DC engines on a mechanical construction with gear plan. It is executed through Arduino UNO regulator dependent on Sun Earth Geometry. The outcomes showed that the programmed sun based global positioning framework is more solid and proficient than fixed one.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000648 A

(19) INDIA

(22) Date of filing of Application :05/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : System And Method For Determining A Variation In Shape Of A Freeform Flexible Surface Thereof

<p>(51) International classification :G06T0007000000, B41J0002210000, G06T0017000000, B32B0007020000, G06F0030170000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Indian Space Research Organisation Address of Applicant :Department of Space, Antariksh Bhavan, New BEL Road, Bangalore 560094, India ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)RAO, C Koteswar Address of Applicant :U R Rao Satellite Centre (URSC) Government of India, Department of Space, Old Airport Road, Bangalore – 560017, India ----- 2)GOVINDA, K V Address of Applicant :U R Rao Satellite Centre (URSC) Government of India, Department of Space, Old Airport Road, Bangalore – 560017, India ----- 3)PANDIYAN, R Address of Applicant :U R Rao Satellite Centre (URSC) Government of India, Department of Space, Old Airport Road, Bangalore – 560017, India ----- 4)NAGARAJ, B P Address of Applicant :U R Rao Satellite Centre (URSC) Government of India, Department of Space, Old Airport Road, Bangalore – 560017, India ----- 5)GURUMOORTHY, B Address of Applicant :Department of Mechanical Engineering, Indian Institute of Science, Bangalore–560012, India ----- -----</p>
--	--

(57) Abstract :

A method for determining a variation in shape of a freeform flexible surface may include obtaining a data for a point cloud in a first configuration and in a second configuration. The method further includes calculating a curvature direction for each point of the point cloud and projecting the curvature direction of the point cloud on at least two parallel planes and identifying two sets of intersected points on the at least two parallel planes. The method includes generating a Euclidean matrix for each of the two sets of intersected points and deriving a Euclidean Distance Ratio Matrix (REDM) corresponding to the two sets of intersected points. The method further includes determining the variation in shape of the freeform flexible surface by comparing the REDM of the first configuration with the REDM of the second configuration.

No. of Pages : 37 No. of Claims : 16

(54) Title of the invention : SYSTEM AND METHOD FOR LOGIC ANALYSIS OF DATA

<p>(51) International classification :G06F0016250000, G06F0016248000, H01M0008043020, H01M0008048580, G06F0016245800</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CMR Technical Campus Address of Applicant :CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. M. Ahmed Ali Baig Address of Applicant :Professor, Dept. of Mechanical Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- 2)Dr. V. Kesava Reddy Address of Applicant :Professor, Dept. of Mathematics, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- 3)V. Harsha Vardhan Address of Applicant :Assoc. Professor, Dept. of Physics, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India ----- 4)Dr.D Kishore Kumar Address of Applicant :Assoc. Professor, Dept. of MBA, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India ----- 5)K. Ranjith Reddy Address of Applicant :Asst. Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p>
--	---

(57) Abstract :

Exemplary embodiments of the present disclosure directed towards a device and a system for logic analysis of data, the method comprises: collecting and processing information, analyzing the processing information to obtain the logical description information of each operation step, extracting processing data attributes of each operation step, processing condition processing result information, generating logical description information of each operation step, combining the logical description information of each operation step, analyzing the relationship between each operation step, combining the logical description information of each operation step into the logical description information of the entire data processing process according to the association relationship. FIG.1

No. of Pages : 13 No. of Claims : 2

(54) Title of the invention : EXTRACTION OF ENERGY THROUGH MAGNETIC BEARINGS

(51) International classification :H02K0053000000, B09C0001000000, G07F0019000000, F03G0003080000, F02B0001040000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Mr. RAMESH KURBET
Address of Applicant :Mr. RAMESH KURBET Assistant Professor Department of Mechanical Engineering PES College of Engineering Mandya - 571401. rameshkurbet031@gmail.com 8123829195 -----

2)Mr. SIDDESH KUMAR N M
3)Dr. GHANARAJA S
4)Dr. RUDRESHI ADDAMANI
5)Dr. SRINIVAS VALMIKI
6)Dr. MALLIKARJUN BHOVI
7)Mr. RANJITH K
8)Mr. HARSHITH KUMAR T S
9)Mr. YATHISH M K
10)Dr. B S SHIVAKUMARA
11)Smt. PRAPULLA N
12)Mr. SANJAY R
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Mr. RAMESH KURBET
Address of Applicant :Mr. RAMESH KURBET Assistant Professor Department of Mechanical Engineering PES College of Engineering Mandya - 571401. rameshkurbet031@gmail.com 8123829195 -----
2)Mr. SIDDESH KUMAR N M
Address of Applicant :Mr. SIDDESH KUMAR N M Assistant Professor Department of Mechanical Engineering PES College of Engineering Mandya - 571401 siddusiddeshnm@gmail.com 8892261462 -----

3)Dr. GHANARAJA S
Address of Applicant :Dr. GHANARAJA S Professor and Head Department of Mechanical Engineering PES college of Engineering Mandya - 571401 ghanaraja08@gmail.com 9449149167 -----
4)Dr. RUDRESHI ADDAMANI
Address of Applicant :Dr. RUDRESHI ADDAMANI Associate Professor Department of Mechanical Engineering PES College of Engineering Mandya - 571401 rudreshaddamani@gmail.com 9739102611 -----

5)Dr. SRINIVAS VALMIKI
Address of Applicant :Dr. SRINIVAS VALMIKI Associate Professor Department of Mechanical Engineering, PDA, college of Engineering Aiwani-E-Shahi Road KALABURAGI (Gulbarga) - 585102. valmikisrinivas100@gmail.com 9964459138 -----
6)Dr. MALLIKARJUN BHOVI
Address of Applicant :Dr. MALLIKARJUN BHOVI Associate Professor Department of Mechanical Engineering PDA, College of Engineering Aiwani -E-Shahi Road KALABURAGI (Gulbarga) - 585102 1234mallik@gmail.com, 9483148994 -----
7)Mr. RANJITH K
Address of Applicant :Mr. RANJITH K Assistant Professor Department of Mechanical Engineering Vidyavardhakha college of Engineering P B no 206,3rd stage gokulum Mysore - 570002 ranjithk1191@gmail.com 8073290872 -----
8)Mr. HARSHITH KUMAR T S
Address of Applicant :Mr. HARSHITH KUMAR T S Assistant Professor Department of Mechanical Engineering PES College of Engineering Mandya - 571401 harshithkumarbs02@gmail.com 9916824680 -----

9)Mr. YATHISH M K
Address of Applicant :Mr. YATHISH M K Assistant Professor Department of Industrial Production and Engineering PES College of Engineering Mandya - 571401 yathishyashraj@gmail.com 8123939759 -----

10)Dr. B S SHIVAKUMARA
Address of Applicant :Dr. B S SHIVAKUMARA Professor Department of Industrial Production and Engineering PES College of Engineering Mandya - 571401 bshivakumara@pesce.ac.in 9448514205 -----

11)Smt. PRAPULLA N
Address of Applicant :Smt. PRAPULLA N Lecture Govt tool room & training center, opp Canara Bank, BM Road, Somanahalli, Maddur- 571429 nrapulla24@gmail.com 9964989649 -----
12)Mr. SANJAY R
Address of Applicant :Mr. SANJAY R Student Department of Electronics and Communication Engineering PES College of Engineering Mandya- 571401 sanjushaiva1212@gmail.com 8088501015 -----

(57) Abstract :
This geared wheels electricity generating (GWEG) stores mechanical potential by rotating a material with any fast velocity. This twin vehicle has used either intake or produces electricity. This spinning operates inside a pressure container that retains its great performance. The armature is used by activated magnetically brakes (ATMB) that can sustain the rotor's rotational shafts any conventional resistance. This additionally improves its rotor's dynamics controllability. Another GWEG prototype using ATMs was created.Considering this impeller combination, one dynamics framework was developed then studied. Its management approach is chosen based upon its flywheel's dynamics features. Variable identifying is used to get ATMB's characteristics. The effects of this same permanent magnet power on this same skills but rather motorcade of its drivetrain impeller, as well as its regulator on this same transient state's consistency, are been investigated.An investigation had been carried out. This spinning had slowly passed beyond maximum adjustable essential velocity but also is now spinning around 20000 RPM. The highest tipping velocity was 500 kilometers per second. The maximal intensity of the electric explosion was 50 watts. The emission lasts 120 hours.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000665 A

(19) INDIA

(22) Date of filing of Application :05/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : Fenugreek Chip - A Novel Herbal LDD For Periodontitis with Diabetes Mellitus

(51) International classification :A61K0036480000, A61K0009000000, A61K0009060000, H01L0029660000, A61K0008970000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr.M.G.R Educational and Research Institute

Address of Applicant :Maduravoyal, Chennai 600095, Tamil Nadu -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. S. Gopalakrishnan

Address of Applicant :DR. M.G.R. Educational & Research Institute, Maduravoyal, Chennai 95, Tamilnadu, India ----- --

2)Dr.Gomathy G.D

Address of Applicant :DR. M.G.R. Educational & Research Institute, Maduravoyal, Chennai 95, Tamilnadu, India ----- --

(57) Abstract :

ABSTRACT Fenugreek Chip - A Novel Herbal LDD For Periodontitis with Diabetes Mellitus This invention is related to the field of medicine. Various Local Drug Delivery systems that are available for periodontitis management has many drawbacks. LDD system that is less expensive and more effective is a long term search. Fenugreek chip could be of one such solution for the existing problem. The amount of local availability could be better than powder or gel form. Being herbal, it will have lesser side effect than the other LDD's.

No. of Pages : 8 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000685 A

(19) INDIA

(22) Date of filing of Application :06/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : Non-contact nanostructure and method of manufacturing the same for fouling free solar desalination

(51) International classification :H01L0023373000, B64G0001240000, F01D0025000000, B29K0055020000, H01L0021040000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

(71)Name of Applicant :

1)VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Address of Applicant :Vignana Jyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad, Telangana, India -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Shaik Afzal Mohiuddin

Address of Applicant :Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology (VNRVJIET), Hyderabad -----

2)Dr. Ajay Kumar Kaviti

Address of Applicant :VNRVJIET, Hyderabad -----

3)Dr. T. Srinivasa Rao

Address of Applicant :VNRVJIET, Hyderabad -----

4)Mr. Akkala Siva Ram

Address of Applicant :VNRVJIET, Hyderabad -----

(57) Abstract :

A non-contact nanostructure (1) and method of manufacturing the same for fouling free solar desalination comprising perforated SS202 sheet (4) with high absorptive nanocoating on the top side (2) and high emissive coating on the bottom side (3). The high absorptive thermolax nanocoating is being done on the top side of SS202 perforated sheet. The paint is being used to produce a high emissive surface on the bottom side. The method of manufacturing non-contact nanostructure (1) for fouling free solar desalination comprising the steps of: a) highly absorptive top-level/layer nanocoating is being done; b) highly emissive bottom level/layer is being done. The invention provides a solution to the fouling problem which included regular cleaning and washing, recycling of material.

No. of Pages : 43 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000705 A

(19) INDIA

(22) Date of filing of Application :06/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : LUNG CANCER TREATMENT USING ASTRAGALUS, CISPLATIN AND VINORELBINE

(51) International classification :A61K0036481000, A61K0033240000, A61K0031475000, G01N0033574000, A61K0036899800

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

(71)Name of Applicant :

1)Dr P Karthigeyan

Address of Applicant :NO 3 2ND CROSS SHASTRI NAGAR

2)Dr. Biswa Bandita Kar

3)Rituparna Kar

4)Dr. Sanjaya Kumar Panda

5)Debidatta Das

6)Tapan Kumar Panda

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr P Karthigeyan

Address of Applicant :NO 3 2ND CROSS SHASTRI NAGAR ---

2)Dr. Biswa Bandita Kar

Address of Applicant :Qtr. No. 404, Dean, School of Yoga and Naturopathy, KIIT UNIVERSITY, Patia, Bhubaneswar, Odisha, India -751024 -----

3)Rituparna Kar

Address of Applicant :A/302,Kokila garden phase 2, Pokhari Put Bhubaneswar - 751020 -----

4)Dr. Sanjaya Kumar Panda

Address of Applicant :Bargarh ,Bhubaneswar- 768036 -----

5)Debidatta Das

Address of Applicant :VIM -90, Sailashree vihar, Chandrashekhar pur Bhubaneswar - 751021 -----

6)Tapan Kumar Panda

Address of Applicant :MIG-237, KalingaVihar, Patrapada, Khorda, Bhubaneswar-751019 -----

(57) Abstract :

LUNG CANCER TREATMENT USING ASTRAGALUS, CISPLATIN AND VINORELBINE Traditional Chinese Medicine (TCM) is employed in China as a part of the treatment for non-small-cell carcinoma (NSCLC) and sometimes includes prescription of phytotherapy supported syndrome differentiation. Studies of varied Astragalus-based Chinese medicines combined with platinum-based chemotherapy within the treatment of carcinoma are popular in East Asia. Systemic treatments for advanced non – small- cell melanoma have low efficacy and high toxin. Many Chinese cancer patients begin taking astragalus, a standard medicinal herb in China, before they receive chemotherapy with the hopes of improving survival and lessening side effects. Approximately 133 Chinese herbs are historically utilized in the treatment of carcinoma. Cisplatin and vinorelbine are chemotherapy medicines designed to kill lung cancer cells and help the lung cancer cells from dividing into new cells. Cisplatin plus vinorelbine chemotherapy is given to shrink excrescences and ameliorate symptoms of lung cancer

No. of Pages : 7 No. of Claims : 7

(54) Title of the invention : MACHINE LEARNING BASED SOLAR POWER TRACKING SYSTEM FOR ELECTRIC VEHICLES

(51) International classification :H02S0020320000, F24S0050200000, F24S0030000000, H02S0020300000, H02S0030200000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA
 Filing Date :NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1) Dr. MOPIDEVI SUBBARAO
 Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY AND RESEARCH VADLAMUDI, GUNTUR, ANDHRAPRADESH, INDIA-522213. -----

2)Dr. POLAMRAJU V S SOBHAN
3)Mr. RAJANAND PATNAIK NARASIPURAM
4)Dr S SATYANARAYANA
5)Dr. S. ADINARAYANA
6)Dr. D. SRINIVASA RAO
7)Mr. OM PRAKASH SAMANTRAY
8)PRAMADHA RANI VIJJAPU
9)SHAIK DARYABI
10)PALACHERLA SRINIVAS
11)DAKI ANUSHA
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. MOPIDEVI SUBBARAO
 Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY AND RESEARCH VADLAMUDI, GUNTUR, ANDHRAPRADESH, INDIA-522213. -----

2)Dr. POLAMRAJU V S SOBHAN
 Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY AND RESEARCH VADLAMUDI, GUNTUR, ANDHRAPRADESH, INDIA-522213. -----

3)Mr. RAJANAND PATNAIK NARASIPURAM
 Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY AND RESEARCH VADLAMUDI, GUNTUR, ANDHRAPRADESH, INDIA-522213. -----

4)Dr S SATYANARAYANA
 Address of Applicant :PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, RAGHU INSTITUTE OF TECHNOLOGY -----

5)Dr. S. ADINARAYANA
 Address of Applicant :PROFESSOR & HEAD DEPT OF CSE, RAGHU INSTITUTE OF TECHNOLOGY, VISAKHAPATNAM, ANDHRA PRADESH, INDIA, 531162 -----

6)Dr. D. SRINIVASA RAO
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER APPLICATIONS, MEDI-CAPS UNIVERSITY, A.B. ROAD, PIGDAMBER, INDORE, MADHYA PRADESH, INDIA, 453331 -----

7)Mr. OM PRAKASH SAMANTRAY
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF CSE RAGHU INSTITUTE OF TECHNOLOGY, VISAKHAPATNAM, ANDHRA PRADESH, INDIA, 531162 -----

8)PRAMADHA RANI VIJJAPU
 Address of Applicant :ASSISTANT PROFESSOR, RAGHU ENGINEERING COLLEGE(A), DAKAMARRI, VISAKHAPATNAM, ANDHRA PRADESH, INDIA, 531162 -----

9)SHAIK DARYABI
 Address of Applicant :ASSOCIATE PROFESSOR, RAGHU ENGINEERING COLLEGE(A), DAKAMARRI, VISAKHAPATNAM, ANDHRA PRADESH, INDIA, 531162 -----

10)PALACHERLA SRINIVAS
 Address of Applicant :ASSOCIATE PROFESSOR, RAGHU ENGINEERING COLLEGE(A), DAKAMARRI, VISAKHAPATNAM, ANDHRA PRADESH, INDIA, 531162 -----

11)DAKI ANUSHA
 Address of Applicant :ASSISTANT PROFESSOR, RAGHU ENGINEERING COLLEGE(A), DAKAMARRI, VISAKHAPATNAM, ANDHRA PRADESH, INDIA, 531162 -----

(57) Abstract :
 This invention focuses on Machine Learning based solar tracking system to replace the utility power by renewable solar power to meet the increasing demand of energy to drive electric vehicles. Optimal solar power can be generated only when the solar panels are exposed to direct sunlight. But any change in weather condition results in cloudiness in real time, in such case angle of the solar panel has to be turned towards the sunlight. This invention proposes a novel smart powering technique where the solar energy is tracked in an autonomous way for increasing the production of solar energy. The solar tracker fixed biaxially is equipped with two small solar modules additionally. First module is horizontally installed and the second module is installed biaxially in the solar tracker. Position of the solar panel is controlled by the Machine learning algorithm which takes input from prior data on sun trajectory through the year and also on output current generated from the solar panels. When sun light reduces due to clouds, then the current from small solar horizontal module will be more than that of module oriented to the sun. This system is able to generate 18% solar energy more than conventional system in the presence of clouds such that able to provide optimal power for the electric vehicle.

(54) Title of the invention : PREDICTION OF DISEASES IN VEGETABLES USING MACHINE LEARNING ALGORITHM

(51) International classification :G06K0009620000, A01N0043560000, G06F0016350000, A47J0043250000, G01N0001300000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. T. VENKATARAMANA
 Address of Applicant :SPOORTHY ENGINEERING COLLEGE, SAGAR ROAD, NADARGUL VILLAGE, SAROORNAGAR MANDAL, NADERGUL RD, NEAR VANASTHALIPURAM, HYDERABAD, TELANGANA - 501510. -----
2)Dr. F. MARY HARIN FERNANDEZ
3)Dr KAJA MASTHAN
4)Dr SRIKANTH LAKUMARAPU
5)Dr MAHAMMAD SHABANA
6)Dr. L KIRAN KUMAR REDDY
7)Dr VENKATA RAMANA KANETI
8)Dr CHANDRA REDDY KOTHAKAPU
9)Mr. VANAM GOPINATH
10)Mr. K SIVA RAMA KRISHNA
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1) Dr. T. VENKATARAMANA
 Address of Applicant :SPOORTHY ENGINEERING COLLEGE, SAGAR ROAD, NADARGUL VILLAGE, SAROORNAGAR MANDAL, NADERGUL RD, NEAR VANASTHALIPURAM, HYDERABAD, TELANGANA - 501510. -----
2)Dr. F. MARY HARIN FERNANDEZ
 Address of Applicant :SPOORTHY ENGINEERING COLLEGE, SAGAR ROAD, NADARGUL VILLAGE, SAROORNAGAR MANDAL, NADERGUL RD, NEAR VANASTHALIPURAM, HYDERABAD, TELANGANA - 501510. -----
3)Dr KAJA MASTHAN
 Address of Applicant :SPOORTHY ENGINEERING COLLEGE, SAGAR ROAD, NADARGUL VILLAGE, SAROORNAGAR MANDAL, NADERGUL RD, NEAR VANASTHALIPURAM, HYDERABAD, TELANGANA - 501510. -----
4)Dr SRIKANTH LAKUMARAPU
 Address of Applicant :SPOORTHY ENGINEERING COLLEGE, SAGAR ROAD, NADARGUL VILLAGE, SAROORNAGAR MANDAL, NADERGUL RD, NEAR VANASTHALIPURAM, HYDERABAD, TELANGANA - 501510. -----
5)Dr MAHAMMAD SHABANA
 Address of Applicant :PACE INSTITUTE OF TECHNOLOGY & SCIENCES, NH-5, NEAR VALLURAMMA TEMPLE, ONGOLE, ANDHRA PRADESH, INDIA, 523272 -----
6)Dr. L KIRAN KUMAR REDDY
 Address of Applicant :VISVESVARAYA COLLEGE OF ENGINEERING & TECHNOLOGY, 6HFQ+H98, PATEL GUDA, MANGALPALLE TELANGANA, INDIA, 501510 -----
7)Dr VENKATA RAMANA KANETI
 Address of Applicant :VNR VIGNANAJYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, VIGNANA JYOTHI NAGAR, PRAGATHI NAGAR, NIZAMPET, HYDERABAD, TELANGANA, INDIA, 500090 -----
8)Dr CHANDRA REDDY KOTHAKAPU
 Address of Applicant :VALUE LABS, PLOT NO.41, PHASE II, HITEC CITY, HYDERABAD, TELANGANA, INDIA, 500081 -----
9)Mr. VANAM GOPINATH
 Address of Applicant :SCIENT INSTITUTE OF TECHNOLOGY, 3-2-848/9-11, OPP HOTEL MAHAVEER, KACHIGUDA STATION RD, KACHIGUDA, HYDERABAD, TELANGANA, INDIA, 500027 -----
10)Mr. K SIVA RAMA KRISHNA
 Address of Applicant :VIGNAN INSTITUTE OF TECHNOLOGY AND SCIENCE, NEAR RAMOJI FILM CITY, DESHMUKI VILLAGE, YADADRI, BHUVANAGIRI, TELANGANA, INDIA, 508284 -----

(57) Abstract :
 The vegetable ought to be unappetizing stage and it requires appropriate upkeep. Enough consideration should have been taken that the diseased vegetable ought to be perceived in before stages rather than identifying them later in the last stage to stay away from the contaminations spreading to other vegetable that are situated close by in the chilly stockpiling. To predict diseased one in different kind of vegetables. Numerous food enterprises and individuals track down a troublesome undertaking to distinguish diseased vegetables among the different sorts of vegetables. By executing this thought Industry or individuals can process or make the food items with the sound vegetables by seclude the diseased vegetable. A few normal diseases of vegetable are Diseases brought about by growths , microorganisms like Powdery mold .Bacterial leaf dark spot/canker,Damping off, fine buildup and wool buildup and infection diseases (Mosaic and leaf twist) can be predicted by manifestations from picture information. As a piece of AI model , Image Segmentation is finished utilizing K-Means Clustering Technique. Highlight extraction utilizing Global shading Histogram and shading Coherence Vector. Then, at that point, AI model carried out utilizing Random Forests Classifier Algorithm. It is adaptable in nature and can be utilized for both classification and relapse strategies. Contrasted with other AI procedures like SVM, Gaussian Naive bayes, calculated relapse, direct discriminant examination. Random forests gave more exactness with less number of picture informational index.

No. of Pages : 7 No. of Claims : 3

(54) Title of the invention : A Robotic Device for Killing Bed Sheet Bacteria

<p>(51) International classification :A61L0002100000, H04M0003493000, B25J0009080000, A61L0002240000, C02F0001320000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. A. J. DEEPA Address of Applicant :Professor, Department Of Computer Science and Engineering, Ponjesly College Of Engineering, Nagercoil, Kanya Kumari District. Pin : 629003 -----</p> <p>2)M.L.SWORNA KOKILA</p> <p>3)Dr. BIBIN CHRISTOPHER V</p> <p>4)Dr.A.Sherly Alphonse</p> <p>5)P.T.PRIYANGA</p> <p>6)Dr. M. SUPRIYA</p> <p>7)BANERJI. C</p> <p>8)Dr. R. WINSON</p> <p>9)Dr. S. BRILLY SANGEETHA</p> <p>10)Dr. WILFRED BLESSING N. R</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. A. J. DEEPA Address of Applicant :Professor, Department Of Computer Science and Engineering, Ponjesly College Of Engineering, Nagercoil, Kanya Kumari District. Pin : 629003 -----</p> <p>2)M.L.SWORNA KOKILA Address of Applicant :Associate Professor, Department Of Computer Science and Engineering, Ponjesly College Of Engineering, Nagercoil, Kanya Kumari District. Pin : 629003 -----</p> <p>3)Dr. BIBIN CHRISTOPHER V Address of Applicant :Assistant Professor, Department Of Computer Science & Engineering, 5 – 230, Kotavilai, Peruvilai Post, Nagercoil, Kanya Kumari District Pin – 629 003 -----</p> <p>4)Dr.A.Sherly Alphonse Address of Applicant :Associate Professor, Department Of Computer Science And Engineering, Ponjesly College Of Engineering Nagercoil -----</p> <p>5)P.T.PRIYANGA Address of Applicant :Assistant Professor, Department Of Computer Science And Engineering, Ponjesly College Of Engineering, Nagercoil. -----</p> <p>6)Dr. M. SUPRIYA Address of Applicant :Lecturer, Department Of Computer Science And Engineering, 4-173-5, Anbu Nager, Gurukulam Salai, Thamathukonam, Nagercoil, Kanyakumari District-629004. -----</p> <p>7)BANERJI. C Address of Applicant :Associate Professor, Department Of Mechanical Engineering, Ponjesly College Of Engineering, Nagercoil, Kanya Kumari District. Pin : 629003 -----</p> <p>8)Dr. R. WINSON Address of Applicant :Lecturer, Mathematics Section/Information Technology Department, University Of Technology And Applied Sciences, Muscut, P O Box - 74, Al-Khuwair Postal Code -133, Sultanate Of Oman. -----</p> <p>9)Dr. S. BRILLY SANGEETHA Address of Applicant :Professor, Computer Science & Engineering, Ies College Of Engineering, Chittillapilly, Thrissur, Kerala 680551 -----</p> <p>10)Dr. WILFRED BLESSING N. R Address of Applicant :Lecturer, It, University Of Technology And Applied Sciences, Oman. -----</p>
--	---

(57) Abstract :
 Additionally, a robotic platform with a disinfection unit set to disinfect a technical area is given. The current disclosure is not necessarily previous art. Large technological facilities, like operating theatres, need numerous fluid applications for various disinfection and maintenance activities, which may be problematic. Automatic disinfection systems must be developed and built precisely for the purpose for which they are to be used.

No. of Pages : 19 No. of Claims : 5

(54) Title of the invention : Unique Plug-In Hybrid Electric Vehicles

<p>(51) International classification :G06Q0099000000, G06Q0010080000, C08K0003400000, B60L0008000000, B60K0006442000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Kumaraguru College of Technology Address of Applicant :Kumaraguru College of Technology, Saravanampatti, Coimbatore, Tamilnadu 641049, India. ----- ----- 2)Anush Prabhakaran 3)Dr. Rajeev Kumar Shakya 4)Dr. Pushpa Mamoria 5)Geh Research LLP 6)Dr. Biplab Kumar Sarkar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Anush Prabhakaran Address of Applicant :Department of Mechatronics Engineering, Kumaraguru college of Technology, Saravanampatti Coimbatore, Tamilnadu 641049, India. ----- 2)Dr. Rajeev Kumar Shakya (Assistant Professor) Address of Applicant :Department of Electronics and Communications, Adama Science and Technology University, Adama, Ethiopia ----- 3)Dr. Pushpa Mamoria Address of Applicant :Department of Computer Application UIET, CSJM University Kanpur, U.P, India. ----- 4)Dr. Biplab Kumar Sarkar Address of Applicant :GEH Research LLP, Fl no 104, WING-A, Bhugaon, Pune-410021, MH, India -----</p>
--	---

(57) Abstract :

ABSTRACT Our Invention “Unique Plug-In Hybrid Electric Vehicles” is a Proceeded with government innovative work (R&D) support for PHEV batteries is basic to assist with guaranteeing the accessibility of PHEV batteries that meet the necessary degrees of solidness, quality, and wellbeing at a reasonable cost. Power hardware, electrical machine, and energy-productive powertrain innovations are likewise key elements in cutthroat, elite execution electric drive vehicles. Moreover, offices at all levels should keep on supporting R&D of PHEV item plan, new materials, and inventive assembling cycles to assist with upgrading improvement of uncommon APHEVs. Assuming concentrated gatherings of purchasers that own APHEVs plan to utilize 220V charging frameworks during top interest periods, neighborhood power conveyance frameworks may not be ready to help the additional heaps. DOE, working with the electric utility industry, should uphold proceeded with improvement of advancements identified with power conveyance, checking, charging frameworks, and valuing to teach PHEV proprietors to abstain from charging vehicles during top periods. Pushing the drives, including savvy network, will make the likely advantages to PHEV proprietors a reality. Those are the executives of dispersed assets and burdens, feeder checking, season of-day evaluating, separate rate designs and elective charging choices, in addition to benefits for power suppliers like ideal dispatching plans. From an expense angle, a PHEV would be viewed as industrially reasonable assuming the vehicle's marked down working costs coordinate or offset its price tag premium contrasted and an ICE or HEV. The figure on the accompanying page sums up the all out possession cost of 150,000 miles driven for every vehicle type in their individual geographic areas. In the two locales, PHEV-30s are more financially savvy over the vehicle lifetime by a few a great many dollars contrasted with ICEs, which means a 8%-10% decrease in generally speaking net possession cost north of 10 years. In view of California's high power expenses and state deals charge, PHEV-30s are somewhat more costly to claim than HEVs around here; notwithstanding, they positively have all the earmarks of being cost cutthroat. In the ECAR locale, lower power expenses and state deals charges bring about the PHEV-30s being the most practical of all vehicles researched.

No. of Pages : 16 No. of Claims : 7

(54) Title of the invention : Artificial Intelligence and IoT based Safe route detection and Evacuation through Ant-colony Optimization

<p>(51) International classification :G08B0017100000, A62B0001200000, G08B0007060000, G08B0017060000, G08B0025080000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)S ARUN Address of Applicant :SUBRAMANIYA BHARATHI ST ,BALAJI NAGAR NAGAR , ANAKAPUTHUR ,CHENNAI -----</p> <p>2)Dr.Rama Kant,G L Bajaj Group of Institutions</p> <p>3)Swati,Sanskriti University</p> <p>4)Ankur Sisodia,G L Bajaj Group of Institutions</p> <p>5)Anuj Kumar Raghav,Sanskriti University</p> <p>6)Sanjiv Agarwal,G L Bajaj Group of Institutions</p> <p>7)Sachin Upadhyay,G L Bajaj Group of Institutions</p> <p>8)Sanjiv Kumar Singh,G L Bajaj Group of Institutions</p> <p>9)Brijesh Kumar Gupta,G L Bajaj Group of Institutions</p> <p>10)Jayati Krishna Goswami,G L Bajaj Group of Institutions</p> <p>11)Santosh Kumar Swarnkar,G L Bajaj Group of Institutions</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.Rama Kant,G L Bajaj Group of Institutions Address of Applicant :G L Bajaj Group of Institutions Mathura National Highway # 2, Akbarpur, Delhi Road Mathura Uttar Pradesh India 281406 -----</p> <p>2)Swati,Sanskriti University Address of Applicant :Sanskriti University Mathura 28, K. M. Stone Mathura, Chennai - Delhi Hwy Chhata Rural Uttar Pradesh India 281401 -----</p> <p>3)Ankur Sisodia,G L Bajaj Group of Institutions Address of Applicant :G L Bajaj Group of Institutions Mathura National Highway # 2, Akbarpur, Delhi Road Mathura Uttar Pradesh India 281406 -----</p> <p>4)Anuj Kumar Raghav,Sanskriti University Address of Applicant :Sanskriti University Mathura 28, K. M. Stone Mathura, Chennai - Delhi Hwy Chhata Rural Uttar Pradesh India 281401 -----</p> <p>5)Sanjiv Agarwal,G L Bajaj Group of Institutions Address of Applicant :G L Bajaj Group of Institutions Mathura National Highway # 2, Akbarpur, Delhi Road Mathura Uttar Pradesh India 281406 -----</p> <p>6)Sachin Upadhyay,G L Bajaj Group of Institutions Address of Applicant :G L Bajaj Group of Institutions Mathura National Highway # 2, Akbarpur, Delhi Road Mathura Uttar Pradesh India 281406 -----</p> <p>7)Sanjiv Kumar Singh,G L Bajaj Group of Institutions Address of Applicant :G L Bajaj Group of Institutions Mathura National Highway # 2, Akbarpur, Delhi Road Mathura Uttar Pradesh India 281406 -----</p> <p>8)Brijesh Kumar Gupta,G L Bajaj Group of Institutions Address of Applicant :G L Bajaj Group of Institutions Mathura National Highway # 2, Akbarpur, Delhi Road Mathura Uttar Pradesh India 281406 -----</p> <p>9)Jayati Krishna Goswami,G L Bajaj Group of Institutions Address of Applicant :G L Bajaj Group of Institutions Mathura National Highway # 2, Akbarpur, Delhi Road Mathura Uttar Pradesh India 281406 -----</p> <p>10)Santosh Kumar Swarnkar,G L Bajaj Group of Institutions Address of Applicant :G L Bajaj Group of Institutions Mathura National Highway # 2, Akbarpur, Delhi Road Mathura Uttar Pradesh India 281406 -----</p>
--	---

(57) Abstract :

The modern buildings are of high and complex in structure to execute business and transactions and for living. Such buildings are of highly valuable. The natural and man-made hazards may damage the building partly or wholly. Such hazard includes the fire accident due to many instances. Such instances can be identified through the expert guided sensors and modules. The sensors installed at various places would monitor and sensitize the information through the dedicated network. In this invention of architecture designing buildings with a complex structure is a growing modern culture. Unfortunately it also made risk in handling the fire situation. To safeguard people and their property is more important. In the modern world the solution for some of the risk situation are become easier with the help of smart devices. The smart devices plays major role in the current environment. It makes our life much easier. At the time of fire in public building makes people for searching the safe and quick exit. The mental stress during fire leads to take time to find the safe exit. For this risk situation the smart devices used to guide people and alert them in real time. The system uses the current location to sense the environment. It works on the basis of the factor that is in surroundings. It guides people properly at the time of fire in consideration with the fire products such as smoke, heat, level of fire spread for the safe exit in the fire evacuation process. It also provides one click call to inform nearby rescue about the fire with the exact location. The voice broadcast guide people to avoid confusion in path for the exit process. The information of building plan and internal structure help the fire evacuation process with an exact solution. This technology will be useful in reducing the loss of life and property of people.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000873 A

(19) INDIA

(22) Date of filing of Application :06/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ADJUNCT POWER ARM IN PREFABRICATED CANINE BRACKETS

(51) International classification :A61C0007120000, B23K0035360000, A61B0017340000, A63B0021040000, H01H0001580000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr.M.G.R Educational and Research Institute

Address of Applicant :Maduravoyal, Chennai 600095, Tamil Nadu -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr RAJAKUMAR P

Address of Applicant :DR. M.G.R. Educational & Research Institute, Maduravoyal, Chennai 95, Tamilnadu, India -----

2)Dr VINOTH KUMAR R

Address of Applicant :DR. M.G.R. Educational & Research Institute, Maduravoyal, Chennai 95, Tamilnadu, India -----

3)Dr AISHWARYA A

Address of Applicant :DR. M.G.R. Educational & Research Institute, Maduravoyal, Chennai 95, Tamilnadu, India -----

(57) Abstract :

ABSTRACT ADJUNCT POWER ARM IN PREFABRICATED CANINE BRACKETS This invention is related to the field of medical devices. The procedure for the construction of customized power arm is simple and cost saving. Power arm was constructed using a brass wire of length 6mm and it was soldered to the canine bracket with existing power arm of 3mm before soldering, the canine brackets were stabilized inside the plaster of Paris in such a way that only the head of the existing power arm is visible outside. Petroleum jelly was applied to the base of the canine brackets before stabilizing in order to avoid the entrapment of investing material in the mesh work of the canine bracket. Flux is applied to the head of the power arm and brass wire tip and silver solder was placed in brass wire tip and was heated with torch to solder the brass wire (6mm) to the canine bracket power arm (3mm). Then the free end is bent to form curve to avoid auxiliaries from sliding out and gingival impingement.

No. of Pages : 12 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000876 A

(19) INDIA

(22) Date of filing of Application :06/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : Design System of IoT Based Smart Public Food Distribution Management System to Control and Monitor

(51) International classification :H04L0029080000, G06Q0010080000, G06Q0050280000, G05D0027020000, G05B0019042000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr.Praveena Akki, SRM Institute of Science and Technology, Chennai

Address of Applicant :Assistant Professor, Department of Networking and Communication, School of Computing, SRM Institute of Science and Technology, Chennai, India. -----

2)Dr.S.Balaji, Vellore Institute of Technology, Chennai

3)Dr.P.G.Om Prakash, SRM Institute of Science and Technology, Chennai

4)Mr.V.Shanmuganathan, SRM Institute of Science and Technology, Chennai

5)Dr.P.Gnanasekaran, B S Abdur Rahman Crescent Institute of Science and Technology

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.Praveena Akki, SRM Institute of Science and Technology, Chennai

Address of Applicant :Assistant Professor, Department of Networking and Communication, School of Computing, SRM Institute of Science and Technology, Chennai, India. -----

2)Dr.S.Balaji, Vellore Institute of Technology, Chennai

Address of Applicant :Assistant Professor, Mathematics division, School of advanced sciences, Vellore Institute of Technology, Chennai Campus, Tamilnadu. -----

3)Dr.P.G.Om Prakash, SRM Institute of Science and Technology, Chennai

Address of Applicant :Assistant Professor, Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Chennai, India -----

4)Mr.V.Shanmuganathan, SRM Institute of Science and Technology, Chennai

Address of Applicant :Research Scholar, Department of Networking and Communication, School of Computing, SRM Institute of Science and Technology, Chennai, India. -----

5)Dr.P.Gnanasekaran, B S Abdur Rahman Crescent Institute of Science and Technology

Address of Applicant :Assistant Professor, Department of Information Technology, B S Abdur Rahman Crescent Institute of Science and Technology, India. -----

(57) Abstract :

Perishable food quality monitoring and control, as well as food supply chain management, are ongoing concerns. Every day, due to poor management and insufficient monitoring systems, a large number of perishable food products is wasted in the storage process. In closed storage environments, environmental factors such as temperature, humidity, light, air quality, and microorganisms can cause food to spoil quickly. To better monitor all of these factors, an IoT-based smart monitoring system can be implemented. Monitoring environmental variations in a closed food storage area using an IoT-based automated smart system. Combining four Arduino microcontroller compatible sensors is the method used. The sensors will monitor the environment and activate a variety of environmental control devices. A mobile application can monitor the entire system. The system is expected to help maintain the quality of perishable foods stored in a closed storage area while also extending their shelf life. As a result, a user can quickly access a variety of important statistics from a single application. Furthermore, with a higher CNN, the system is designed to obtain the direction of food regions.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000886 A

(19) INDIA

(22) Date of filing of Application :07/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE BASED TECHNIQUES TO ANALYZE THE STAGES OF BREAST CANCER

(51) International classification :H04W0048100000, A61B0005045600, G09B0023300000, A61B0005045200, G06T0017000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. MANGALAPALLI VAMSIKRISHNA

Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF CSE, ADITYA ENGINEERING COLLEGE (A), SURAMPALEM, ANDHRA PRADESH 533437 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. MANGALAPALLI VAMSIKRISHNA

Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF CSE, ADITYA ENGINEERING COLLEGE (A), SURAMPALEM, ANDHRA PRADESH 533437 -----

(57) Abstract :

An artificial intelligence-based techniques to analyze the stages of breast cancer is the proposed invention which aims to implementing techniques for identifying the exact location and size of tumors. Once the size of cancerous cells and the location of lump nodes are tracked down. It will be much easier to decide or predict about the stage of breast cancer. The appropriate information regarding the tumors and nodes will help the wealth practitioners to move for therapeutic treatment.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : CONCRETE COMPOSITION WITH MARBLE POWDER AND EVALUATION OF THE SAME

(51) International classification :B08B0005020000, C04B0018140000, B28D0007020000, C04B0028060000, C04B0014040000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

(71)Name of Applicant :

1)Dr. C. Venkata Siva Rama Prasad

Address of Applicant :Assistant Professor, Department of Civil Engineering, St. Peter's Engineering College (Autonomous), Opposite TS Forest Academy Dullapally, Maisammaguda, Medchal, Hyderabad-500043, Telangana -----

2)Chiranjeevi Rahul Rollakanti**3)Yelamanjula Venkat Arun****4)Chemikala Datta Abhilash Reddy****5)Dr. M. Nithya****6)Vishal Akula****7)Dr. Yashwanth.M.K****8)Mr. Pavan Kumar Jogi**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. C. Venkata Siva Rama Prasad

Address of Applicant :Assistant Professor, Department of Civil Engineering, St. Peter's Engineering College (Autonomous), Opposite TS Forest Academy Dullapally, Maisammaguda, Medchal, Hyderabad-500043, Telangana -----

2)Chiranjeevi Rahul Rollakanti

Address of Applicant :Senior Lecturer, Department of Civil Engineering, Middle East College, Knowledge Oasis Muscat, P.O. Box 79, PC 124, Al Rusayl, Sultanate of Oman -----

3)Yelamanjula Venkat Arun

Address of Applicant :Lecturer, Haramaya Institute of Technology, Haramaya University, Ethiopia. -----

4)Chemikala Datta Abhilash Reddy

Address of Applicant :Assistant Professor, Department of Civil Engineering Y.S.R Engineering College of Yogi Vemana University, Proddatur, Y.S.R Kadapa (Dist), Andhra Pradesh, India-516360 -----

5)Dr. M. Nithya

Address of Applicant :Professor & Vice Principal, Kakinada Institute of Technological Sciences, Ramachandrapuram. Kakinada – 533255, Andhra Pradesh, India -----

6)Vishal Akula

Address of Applicant :Assistant Professor, Civil Engineering Department, Nalla Malla Reddy Engineering College, 7-01, Divya Nagar, Kachivani Singaram, Ghatkesar, Hyderabad-500088, Telangana -----

7)Dr. Yashwanth.M.K

Address of Applicant :Associate Professor, Department of Civil Engineering, Maharaja Institute of Technology Mysore, Belawadi, Srirangapatna Taluk, Mandya-571477, Karnataka -----

8)Mr. Pavan Kumar Jogi

Address of Applicant :Asst. Professor, Department of Civil Engineering, Sri Vasavi Engineering college (Autonomous), Pedatadepalli, Tadepalligudem, West Godavari(Dist), Andhra Pradesh, India- 534101 --

(57) Abstract :

CONCRETE COMPOSITION WITH MARBLE POWDER AND EVALUATION OF THE SAME The present invention relates to a composition comprising concrete and marble dust. 5 to 25 % of the concrete is replaced with marble dust. 10 % marble dust in the concrete composition is ideal for construction. The composition of the present invention reduces the environmental impact of the marble dust by proper utilization of the marble dust. Figure of abstract: FIG. 1

No. of Pages : 19 No. of Claims : 8

(54) Title of the invention : THERMO ELECTRIC AIR COOLING AND HEATING SYSTEM FOR FARM TRACTOR CABIN

(51) International classification :B60H0001000000, F24F0005000000, F25B0021020000, F24F0011300000, F25B0021040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)RAMCO INSTITUTE OF TECHNOLOGY**

Address of Applicant :Krishnapuram Panchayat, North Venganallur village, Rajapalayam, Tamil Nadu, India 626117. ----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)Mr.N.L. Sujin**

Address of Applicant :Department of Mechanical Engineering, North Venganallur village, Rajapalayam, Tamil Nadu, India 626117. -----

2)Mr. N. Thiruvissagan

Address of Applicant :Department of Mechanical Engineering, North Venganallur village, Rajapalayam, Tamil Nadu, India 626117. -----

3)Mr. N. Sankara Chelliah

Address of Applicant :Department of Mechanical Engineering, North Venganallur village, Rajapalayam, Tamil Nadu, India 626117. -----

4)Dr.S.Rajakarunakaran

Address of Applicant :Department of Mechanical Engineering, North Venganallur village, Rajapalayam, Tamil Nadu, India 626117. -----

5)Dr. J. Jabinth

Address of Applicant :Department of Mechanical Engineering, North Venganallur village, Rajapalayam, Tamil Nadu, India 626117. -----

(57) Abstract :

Thermo Electric Air Cooling and Heating System for Farm Tractor Cabin is used to cool and heat the farm tractor cabin using thermoelectric unit (2) using Peltier module (14). 'Human comfort zone', it is an environment that provides comfort to the human being, which can be done by the air conditioning system of the cabin. However, this AC powers itself using the engine, which increases the engine's work load and causes it to consume more fuel and also leads to the emission of CFCs, HCFCs, CO₂, etc. The cost spent on this cooling system is too high. To counter this, cooling by peltier effect is employed. The system uses a thermoelectric unit (2) as core and works under the principle of the peltier effect. This method of cooling is very convenient and inexpensive and it requires less maintenance than traditional air conditioning systems because there are no moving parts.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : LEMON BASED DISINFECTANT FLOOR CLEANER

(51) International classification :A47L0011400000, C11D0003340000, A61K0036752000, A01N0065360000, C11D0003200000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to :NA
 Application Number :NA
 Filing Date :NA

(62) Divisional to Application :NA
 Number :NA
 Filing Date :NA

(71)Name of Applicant :
1) Dr. V. KUMARAVEL
 Address of Applicant :DIRECTOR-ACADEMIC, VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN(AUTONOMOUS) ELAYAMPALAYAM, TIRUCHENGODE, NAMAKKAL, TAMILNADU, INDIA, 637205 -----

2)Dr. B.T. SURESHKUMAR
3)Dr. S. SAMBATHKUMAR
4)Dr. V. JEEVANANTHAM
5)Mrs. N. VALARMATHI
6)Dr. K. LOGANATHAN
7)Dr. R. JAGATHEESAN
8)Dr. R. JAYALAKHSMI
9)Dr. R. ANBURAJ
10)Dr. P. DURAIRAJ
11)Dr. V. SELVAM
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. V. KUMARAVEL
 Address of Applicant :DIRECTOR-ACADEMIC, VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN(AUTONOMOUS) ELAYAMPALAYAM, TIRUCHENGODE, NAMAKKAL, TAMILNADU, INDIA, 637205 -----

2)Dr. B.T. SURESHKUMAR
 Address of Applicant :PRINCIPAL, VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN(AUTONOMOUS) ELAYAMPALAYAM, TIRUCHENGODE, NAMAKKAL, TAMILNADU, INDIA, 637205 -----

3)Dr. S. SAMBATHKUMAR
 Address of Applicant :ASSISTANT PROFESSOR, PG RESEARCH DEPARTMENT OF CHEMISTRY, VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN(AUTONOMOUS) ELAYAMPALAYAM, TIRUCHENGODE, NAMAKKAL, TAMILNADU, INDIA, 637205 -----

4)Dr. V. JEEVANANTHAM
 Address of Applicant :ASSISTANT PROFESSOR, PG RESEARCH DEPARTMENT OF CHEMISTRY, VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN(AUTONOMOUS) ELAYAMPALAYAM, TIRUCHENGODE, NAMAKKAL, TAMILNADU, INDIA, 637205 -----

5)Mrs. N. VALARMATHI
 Address of Applicant :HEAD OF THE DEPARTMENT, PG RESEARCH DEPARTMENT OF CHEMISTRY, VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN(AUTONOMOUS) ELAYAMPALAYAM, TIRUCHENGODE, NAMAKKAL, TAMILNADU, INDIA, 637205 -----

6)Dr. K. LOGANATHAN
 Address of Applicant :ASSISTANT PROFESSOR, PG RESEARCH DEPARTMENT OF CHEMISTRY, VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN(AUTONOMOUS) ELAYAMPALAYAM, TIRUCHENGODE, NAMAKKAL, TAMILNADU, INDIA, 637205 -----

7)Dr. R. JAGATHEESAN
 Address of Applicant :ASSISTANT PROFESSOR, PG RESEARCH DEPARTMENT OF CHEMISTRY, VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN(AUTONOMOUS) ELAYAMPALAYAM, TIRUCHENGODE, NAMAKKAL, TAMILNADU, INDIA, 637205 -----

8)Dr. R. JAYALAKHSMI
 Address of Applicant :ASSISTANT PROFESSOR, PG RESEARCH DEPARTMENT OF CHEMISTRY, VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN(AUTONOMOUS) ELAYAMPALAYAM, TIRUCHENGODE, NAMAKKAL, TAMILNADU, INDIA, 637205 -----

9)Dr. R. ANBURAJ
 Address of Applicant :ASSISTANT PROFESSOR, PG RESEARCH DEPARTMENT OF MICROBIOLOGY, VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN(AUTONOMOUS) ELAYAMPALAYAM, TIRUCHENGODE, NAMAKKAL, TAMILNADU, INDIA, 637205 -----

10)Dr. P. DURAIRAJ
 Address of Applicant :ASSISTANT PROFESSOR, PG RESEARCH DEPARTMENT OF CHEMISTRY, VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN(AUTONOMOUS) ELAYAMPALAYAM, TIRUCHENGODE, NAMAKKAL, TAMILNADU, INDIA, 637205 -----

11)Dr. V. SELVAM
 Address of Applicant :ASSISTANT PROFESSOR, PG RESEARCH DEPARTMENT OF COMMERCE, VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN(AUTONOMOUS) ELAYAMPALAYAM, TIRUCHENGODE, NAMAKKAL, TAMILNADU, INDIA, 637205 -----

(57) Abstract :
 Herein, we prepared an excellent lemon based natural disinfectant floor cleaner by using SLES, Hydrogen Peroxide and extracts of lemon which possesses an excellent antimicrobial activity. It is well known that the lemon "extract has vitamin C and antioxidant properties. Especially lemon peel consists of fiber and vitamin C and small proportions of Ca, Mg and K. The citrus peels will play an important role in brightening and reduces the oily surfaces. Thus, the added natural ingredients made the disinfectant much effectively and improve cleaning performances on the floor/surfaces.

No. of Pages : 5 No. of Claims : 5

(54) Title of the invention : NATURAL LEMON BASED DISHWASH GEL

<p>(51) International classification :A61K0008970000, A61K0008670000, A61K0008979400, A61K0008978900, A61K0036752000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. V. Kumaravel Address of Applicant :Director- Academic, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----</p> <p>2)Dr. B. T. Sureshkumar 3)Dr. S. Sambathkumar 4)Dr. P. Durairaj 5)Dr. R. Anburaj 6)Mrs. N. Valarmathi 7)Dr. K. Loganathan 8)Dr. P. Ramesh 9)Dr. V. Jeevanantham 10)Dr. S. Balachandar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. V. Kumaravel Address of Applicant :Director- Academic, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----</p> <p>2)Dr. B. T. Sureshkumar Address of Applicant :Principal, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----</p> <p>3)Dr. S. Sambathkumar Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----</p> <p>4)Dr. P. Durairaj Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----</p> <p>5)Dr. R. Anburaj Address of Applicant :Assistant Professor, PG Research Department of Microbiology, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----</p> <p>6)Mrs. N. Valarmathi Address of Applicant :Head of the Department, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----</p> <p>7)Dr. K. Loganathan Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----</p> <p>8)Dr. P. Ramesh Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----</p> <p>9)Dr. V. Jeevanantham Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----</p> <p>10)Dr. S. Balachandar Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----</p>
---	---

(57) Abstract :
Herein, we prepared an excellent lemon based natural dish wash gel by using SLES, base, acid slurry and extracts of lemon which possesses an excellent antimicrobial activity. It is well known that the lemon extract has vitamin C and antioxidant properties. Especially lemon peel consists of fiber and vitamin C, and small proportions of Ca, Mg and K. Both the citrus peels will play an important role in brightening the surface of the household articles. Thus, the added natural ingredients made the gel much effectively and improve cleaning performances on the household cookware materials, steel and ever silver based materials.

No. of Pages : 5 No. of Claims : 5

(54) Title of the invention : NEEM AND ALOE VERA EXTRACT INCORPORATED HAND SANITIZER

(51) International classification :A61K0036580000, A01N0065260000, A61Q0017000000, A01N0065000000, A61K0036886000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. V. Kumaravel
 Address of Applicant :Director- Academic, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295.

2)Dr. B. T. Sureshkumar
3)Dr. S. Sambathkumar
4)Dr. R. Jagatheesan
5)Dr. R. Anburaj
6)Mrs. N. Valarmathi
7)Dr. K. Loganathan
8)Dr. P. Ramesh
9)Dr. V. Jeevanantham
10)Dr. S. Balachandar
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. V. Kumaravel
 Address of Applicant :Director- Academic, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295.

2)Dr. B. T. Sureshkumar
 Address of Applicant :Principal, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

3)Dr. S. Sambathkumar
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

4)Dr. R. Jagatheesan
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

5)Dr. R. Anburaj
 Address of Applicant :Assistant Professor, PG Research Department of Microbiology, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

6)Mrs. N. Valarmathi
 Address of Applicant :Head of the Department, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

7)Dr. K. Loganathan
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

8)Dr. P. Ramesh
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

9)Dr. V. Jeevanantham
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

10)Dr. S. Balachandar
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

(57) Abstract :
 Herein, we prepared an efficient green hand sanitizer by using ethanol, isopropyl alcohol and glycerine with added extracts of neem leaf (Azadirachta indica L.), which possesses an excellent antimicrobial activity. Neem leaf extract exhibits the anti-inflammatory, antioxidant, antifungal, antibacterial, anti-viral, anti-ulcer and ant carcinogenic properties. Thus, the added natural ingredients made the sanitizer much effectively and improve the germ protection. Alternatively, Aloe vera extract suits as an expert which destroys the germs effectively.

No. of Pages : 5 No. of Claims : 4

(54) Title of the invention : ORANGE PEEL EXTRACT INCORPORATED LIQUID HANDWASH

(51) International classification :A61K0008670000, C11D0003480000, A61K0008978900, C11D0003200000, A61K0031375000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. V. Kumaravel
 Address of Applicant :Director- Academic, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295.

2)Dr. B. T. Sureshkumar
3)Dr. S. Sambathkumar
4)Mrs. N. Valarmathi
5)Dr. K. Loganathan
6)Dr. P. Ramesh
7)Dr. R. Jagatheesan
8)Dr. P. Durairaj
9)Dr. R. Jayalakhsmi
10)Dr. R. Anburaj

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. V. Kumaravel
 Address of Applicant :Director- Academic, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295.

2)Dr. B. T. Sureshkumar
 Address of Applicant :Principal, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

3)Dr. S. Sambathkumar
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

4)Mrs. N. Valarmathi
 Address of Applicant :Head of the Department, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

5)Dr. K. Loganathan
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

6)Dr. P. Ramesh
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

7)Dr. R. Jagatheesan
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

8)Dr. P. Durairaj
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

9)Dr. R. Jayalakhsmi
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

10)Dr. R. Anburaj
 Address of Applicant :Assistant Professor, PG Research Department of Microbiology, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

(57) Abstract :
 Herein, we prepared an efficient liquid hand wash by using soap based non harmful SLES and glycerine with added extracts of orange peel which possesses an excellent antimicrobial activity. It is well known that the orange peel extract has vitamin C and antioxidant properties. Additionally, this peel contains much proportion of citrus acids, terpenoids, flavonoids, esters, carbonyl components, which made them pleasant odour like fragrance and also supports foam forming, which enables the cleaning action of the soap.

No. of Pages : 5 No. of Claims : 5

(54) Title of the invention : DISINFECTANT TOILET CLEANER ENRICHED WITH LEMON PEEL EXTRACT

(51) International classification :C11D0003040000, C11D0003480000, C11D0003382000, E03D0009030000, C11D0007440000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. V. Kumaravel
 Address of Applicant :Director- Academic, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295.

2)Dr. S. Sambathkumar
3)Dr. B. T. Sureshkumar
4)Mrs. N. Valarmathi
5)Dr. K. Loganathan
6)Dr. V. Jeevanantham
7)Dr. R. Jagatheesan
8)Dr. P. Ramesh
9)Dr. R. Anburaj
10)Dr. V. Selvam

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. V. Kumaravel
 Address of Applicant :Director- Academic, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295.

2)Dr. S. Sambathkumar
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

3)Dr. B. T. Sureshkumar
 Address of Applicant :Principal, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

4)Mrs. N. Valarmathi
 Address of Applicant :Head of the Department, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

5)Dr. K. Loganathan
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

6)Dr. V. Jeevanantham
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

7)Dr. R. Jagatheesan
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

8)Dr. P. Ramesh
 Address of Applicant :Assistant Professor, PG Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

9)Dr. R. Anburaj
 Address of Applicant :Assistant Professor, PG Research Department of Microbiology, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

10)Dr. V. Selvam
 Address of Applicant :Assistant Professor, PG Research Department of Commeme, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal, Tamilnadu, India 637295. -----

(57) Abstract :
 Herein, we prepared a lemon based efficient disinfectant toilet cleaner by using acid, thickner and extracts of lemon, which possesses an excellent antimicrobial activity and take parts toward the acid components (which brighten the surface and enhance the cleansing action). The citrus peel has plays an important role in brightening and kills germs on the toilet surfaces. Thus, the added natural ingredients make the disinfectant much effective and improve cleaning performances on the surfaces.

No. of Pages : 5 No. of Claims : 5

(54) Title of the invention : Secure Authenticated Key Agreement Protocol for Cloud-based Internet of Things

<p>(51) International classification :H04L0009080000, H04L0009320000, H04L0029060000, H04L0009300000, G06F0021640000</p> <p>(86) International Application No Filing Date :PCT// / :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr. V. Muthukumaran, REVA University Address of Applicant :Assistant Professor Department of Mathematics School of Applied Sciences REVA University, Bangalore- 560064. ----- 2)Dr.V.Vinoth Kumar, JAIN (Deemed-to-be University) Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)M.MEENAAKUMARI, Dr M.G.R EDUCATION AND RESEARCH INSTITUTE Address of Applicant :ASSISTANT PROFESSOR Dr M.G.R EDUCATION AND RESEARCH INSTITUTE Vishwas Nagar, Maduravoyal, Chennai, Tamil Nadu 600095 ----- 2)Dr. M. Kumaresan, JAIN (Deemed-to-be University) Address of Applicant :Associate Professor Faculty of Engineering and Technology JAIN (Deemed-to-be University) Bangalore-560061 ----- 3)Dr. B. Swapna, Dr M.G.R EDUCATION AND RESEARCH INSTITUTE Address of Applicant :ASSISTANT PROFESSOR Dr M.G.R EDUCATION AND RESEARCH INSTITUTE Vishwas Nagar, Maduravoyal, Chennai, Tamil Nadu 600095 ----- 4)Mr.D.RANJITH, THANTHAI PERIYAR GOVERNMENT INSTITUTE OF TECHNOLOGY Address of Applicant :ASSISTANT PROFESSOR THANTHAI PERIYAR GOVERNMENT INSTITUTE OF TECHNOLOGY PARI STREET,EZHIL NAGAR,THORAPADI POST, Vellore-632002 ----- 5)Ms.Gayathri. S, KARPAGAM COLLEGE OF ENGINEERING Address of Applicant :ASSISTANT PROFESSOR KARPAGAM COLLEGE OF ENGINEERING PALLIPALAYAM,NAMAKKAL-638006 ----- 6)Ms.H. Hemasundari, Dr M.G.R EDUCATION AND RESEARCH INSTITUTE Address of Applicant :ASSISTANT PROFESSOR Dr M.G.R EDUCATION AND RESEARCH INSTITUTE Vishwas Nagar, Maduravoyal, Chennai, Tamil Nadu 600095 ----- 7)Ms.AATHILAKSHMI T, Dr M.G.R EDUCATION AND RESEARCH INSTITUTE Address of Applicant :ASSISTANT PROFESSOR Dr M.G.R EDUCATION AND RESEARCH INSTITUTE Vishwas Nagar, Maduravoyal, Chennai, Tamil Nadu 600095 ----- 8)Ms.A. MAHESWARI, Dr M.G.R EDUCATION AND RESEARCH INSTITUTE Address of Applicant :ASSISTANT PROFESSOR Dr M.G.R EDUCATION AND RESEARCH INSTITUTE Vishwas Nagar, Maduravoyal, Chennai, Tamil Nadu 600095 ----- 9)Ms.CHINCHU NAIR, Dr M.G.R EDUCATION AND RESEARCH INSTITUTE Address of Applicant :ASSISTANT PROFESSOR Dr M.G.R EDUCATION AND RESEARCH INSTITUTE Vishwas Nagar, Maduravoyal, Chennai, Tamil Nadu 600095 -----</p>
--	---

(57) Abstract :

The key agreement with an authenticated key Protocol is a cryptographic primitive that, in theory, combines the operations of digital signature and public key encryption in one step, resulting in a reduced computational cost than the usual signature-then-encryption technique. Authentication is another method for achieving simultaneity of secrecy and validation throughout the Internet of Things (IoT). Prior to the introduction of Authentication, the message had to be scrambled first and then signed, which added to the computational cost and communication overhead. We describe a new authenticated key agreement protocol approach based on the intractability of a group-based polynomial decomposition problem, which may be employed in CIoT-based systems for secure data transfer. It works in tandem with the Internet of Things to improve data security and privacy. In an experiment, the improved encryption approach outperformed the other existing algorithms.

No. of Pages : 6 No. of Claims : 5

(54) Title of the invention : MOVABLE GARBAGE WASTE DISPOSAL VEHICLE

(51) International classification :F23G0005440000, C02F0009000000, C10B0053000000, C02F0103060000, B09B0003000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

**1)Aarupadai Veedu Institute of Technology (AVIT),
Vinayaka Missions Research Foundation.**

Address of Applicant :Old Mahabalipuram Road, Vinayaka Nagar, Paiyanoor, Chennai, Tamil Nadu 603104. -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)Dr.L.Chitra**

Address of Applicant :Aarupadai Veedu Institute of Technology (AVIT), Old Mahabalipuram Road, Vinayaka Nagar, Paiyanoor, Chennai, Tamil Nadu 603104. -----

2)Mr.S.Prakash

Address of Applicant :Aarupadai Veedu Institute of Technology (AVIT), Old Mahabalipuram Road, Vinayaka Nagar, Paiyanoor, Chennai, Tamil Nadu 603104. -----

3)Sharook Khan

Address of Applicant :Aarupadai Veedu Institute of Technology (AVIT), Old Mahabalipuram Road, Vinayaka Nagar, Paiyanoor, Chennai, Tamil Nadu 603104. -----

4)Jistin Jojan Varghese

Address of Applicant :Aarupadai Veedu Institute of Technology (AVIT), Old Mahabalipuram Road, Vinayaka Nagar, Paiyanoor, Chennai, Tamil Nadu 603104. -----

5)Jobin John

Address of Applicant :Aarupadai Veedu Institute of Technology (AVIT), Old Mahabalipuram Road, Vinayaka Nagar, Paiyanoor, Chennai, Tamil Nadu 603104. -----

(57) Abstract :

The present invention discloses a movable garbage waste disposal vehicle for processing unsorted garbage in a fast, efficient and economical manner. It relates to a vehicle for process of multiple types of garbage to land filling products. The vehicle consists of a Collection Chamber (1), Top lid (2), Conveyor (3), Crusher (4), Compressor (5), Ball Mechanism (6), Supporting Frame (7), Wheels (8), Solid Waste Chamber (9) and Liquid Waste Chamber (10). The vehicle uses nil water than conventional machines and is energy efficient because it does not use any energy for heating and drying of the garbage. Vehicle is 'zero emission' and no harmful gases are discharged into the atmosphere nor did any leachates produce, thus avoiding water resource contamination.

No. of Pages : 15 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000943 A

(19) INDIA

(22) Date of filing of Application :07/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED BRAILLE EMBOSSE AND A METHOD TO CONVERT VOICE INTO BRAILLE TEXT

(51) International classification :G09B0021000000, G10L0015260000, G09B0021020000, A61B0005000000, G10L0013040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. K. Shantichitra

Address of Applicant :10, Lake Front View Radiance, KCG College Road, Karapakkam, OMR, Chennai, Tamil Nadu, India 500097. -----

2)Dr. B. Jaiganesh

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. K. Shantichitra

Address of Applicant :10, Lake Front View Radiance, KCG College Road, Karapakkam, OMR, Chennai, Tamil Nadu, India 500097. -----

2)Dr. B. Jaiganesh

Address of Applicant :S1. Plot No 21, Dsr/Aambal. Mig Block No C5, Kattankulathur Village, Maraimalainagar Municipality, Chengalpattu, Tamilnadu, India 603203. -----

(57) Abstract :

The present invention provides an artificial intelligence-based braille embosser capable of converting voice data into respective braille text for visually impaired people. The artificial intelligence-based braille embosser (21) consists of a switch ON&OFF button (22), a record button (23), a printer head (25), an encoder (26), a plurality of step motor (27a, 27b), a plurality of optical sensor (28a, 28b), a transceiver (29), a memory unit (30) connected to an artificial processing unit (31). The method of converting voice to braille text consists of recording the user's voice, pre-processing, extracting features, converting to braille language, and printing the braille text.
FIG-1

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000950 A

(19) INDIA

(22) Date of filing of Application :07/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ELECTRICAL ENERGY CONTROLLING SYSTEM AND METHOD FOR EDUCATIONAL INSTITUTIONS

(51) International classification :H04N0005330000, G16H0040630000, G09F0009000000, G09F0009350000, G01J0001180000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

(71)Name of Applicant :

1)Kalasalingam Academy of Research & Education

Address of Applicant :Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur, Virudhunagar District, Tamil Nadu Email ID: ipr@klu.ac.in Mb: 8807110703 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)J. Jeyaranjani

Address of Applicant :Department of Computer Science and Engineering, Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil, Virudhunagar District, India – 626126 -----

2)Praveen S V

Address of Applicant :Department of Computer Science and Engineering, Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil, Virudhunagar District, India – 626126 -----

(57) Abstract :

An electrical energy controlling system (100), comprising: a monitoring unit (102), comprises: a motion sensor (110) senses an amount of infrared light; a thermo-hygrometer (112) senses an intensity of light, a temperature, and a humidity; an edge computing platform (104), comprises: a processing unit (114) receives the sensed amount of infrared light from the motion sensor (110); compares the sensed amount of infrared light with a pre-defined amount of infrared light; activates the thermo-hygrometer (112) when the sensed amount of infrared light is not equal to the pre-defined amount of infrared light; compare the sensed intensity of light with a pre-set intensity of light; turn on lights when the sensed intensity of light is less than the pre-set intensity of light; compare the sensed temperature/the humidity with a pre-defined temperature/humidity; and turn on fans when the sensed temperature/humidity exceeds the pre-defined temperature/humidity.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000951 A

(19) INDIA

(22) Date of filing of Application :07/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : SMART STREET LIGHT SYSTEM

(51) International classification :F21S0008080000, H05B0047105000, H05B0047110000, F21W0131103000, G01S0017580000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Kalasalingam Academy of Research & Education
Address of Applicant :Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur, Virudhunagar District, Tamil Nadu Email ID: ipr@klu.ac.in Mb: 8807110703 -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr.V.Baby Shalini
Address of Applicant :Department of Information Technology,Kalasalingam Academy of Research and Education, Krishnankoil -----

(57) Abstract :

A smart street light system (100) comprising: a processor (102); a storage medium (104) comprising computer programmable instructions to be executed by the processor (102); a sensor network (106) adapted to be in communication with the processor (102), wherein the sensor network (106) comprising: a motion sensor (108) positioned proximate to a street to detect passing of a passerby on the street; and a light sensor (110) to detect a presence and/or an absence of a daylight; wherein the processor (102) transmits a signal to turn ON a street light (114) on detecting the passing of the passerby and the absence of the daylight, and wherein the processor (102) transmits a signal to turn off the street light (114) on detecting a presence of the daylight.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000952 A

(19) INDIA

(22) Date of filing of Application :07/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHOD FOR RIPENING FRUITS

(51) International classification :A23B0007152000, B65B0003040000, B65B0025040000, A23B0007148000, B65B0043540000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Kalasalingam Academy of Research & Education

Address of Applicant :Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur, Virudhunagar District, Tamil Nadu Email ID: ipr@klu.ac.in Mb: 8807110703 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Sankarganesh Arunachalam

Address of Applicant :Department of Biotechnology, School of Bio and Chemical Engineering, Kalasalingam Academy of Research and Education, Krishnankoil, Tamilnadu, India PIN 626126 -----

2)Uma Priya Mohan

Address of Applicant :Department of Biotechnology, School of Bio and Chemical Engineering, Kalasalingam Academy of Research and Education, Krishnankoil, Tamilnadu, India PIN 626126 -----

(57) Abstract :

A method for ripening fruits (114), wherein the method comprising steps of: placing unripen fruits (114) on a first plate (106) provided in a container (102); filling a second plate (110) placed inside the container (102) with panchagavya (112); and incubating the container (102) having the unripen fruits (114) and the panchagavya (112) in a warm condition at a pre-defined temperature for a pre-defined period of time.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000986 A

(19) INDIA

(22) Date of filing of Application :07/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : VIDEO CODING AND DECODING (CODEC) METHOD

<p>(51) International classification :H04N0019610000, H04N0019130000, H04N0019690000, H04N0019890000, H04N0019680000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CMR Technical Campus Address of Applicant :CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. M. Ahmed Ali Baig Address of Applicant :Professor, Dept. of Mechanical Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p> <p>2)Dr. K. Srujan Raju Address of Applicant :Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p> <p>3)Dr P Venkateshwara Rao Address of Applicant :Assoc. Professor, Dept. of MBA, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India -----</p> <p>4)S. Venkatesh Address of Applicant :Asst. Professor, Dept. of ECE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India -----</p> <p>5)M. Naresh Kumar Address of Applicant :Asst. Professor, Dept. of Physics, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p>
--	---

(57) Abstract :

Exemplary embodiments of the present disclosure directed towards a video coding-decoding (CODEC) method in an error resilient mode, includes: a computer readable medium containing a video CODEC method program, and a video CODEC device. The video CODEC method provides greater recovery capability to errors, so that communication is less affected by errors. Among them, each macroblock of the video data in the error recovery mode is divided into the header data bit area, the motion vector data bit area and the discrete cosine transform data bit area, and then the divided bit area is variable-length encoded, and the priority is used for recovery. The bit region selected from the variable-length coding region is reversibly variable-length-coded, and a mark is inserted in the variable-length coding or the reversible variable-length coding bit region.

No. of Pages : 14 No. of Claims : 2

(54) Title of the invention : A WEARABLE FACE SHIELD

(51) International classification :A61B0005000000, A61B0005010000, A61B0010000000, G09F0027000000, A61F0009060000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SRM UNIVERSITY
Address of Applicant :Amaravati, Mangalagiri-522502, Andhra Pradesh, India -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)CHEBROLU, Tanishq Taraka Sai
Address of Applicant :SRM University, Amaravati, Mangalagiri-522502, Andhra Pradesh, India -----

2)VELLAMPALLI, Aditya Medha Venkata Subrahmanya
Address of Applicant :SRM University, Amaravati, Mangalagiri-522502, Andhra Pradesh, India -----

3)GHOSH, Anirban
Address of Applicant :SRM University, Amaravati, Mangalagiri-522502, Andhra Pradesh, India -----

(57) Abstract :
ABSTRACT A WEARABLE FACE SHIELD The present disclosure generally relates to medical protective devices and discloses a wearable face shield (100). The face shield (100) comprises a frame (102) for securing the shield (100) to the head of a wearer, a transparent sheet (104) extending from the frame (102), a detection circuit (106) mounted on the frame (102), a switch (116), and a battery module (118). The detection circuit (106) comprises a control unit (112) that processes first and second sensed data received from proximity and temperature sensors (108, 110) to generate output signals and an alerting unit (114) which receives the output signals and provides an indication of– (i)the presence of a detected external object within a pre-determined distance of the wearer; and/or (ii) the sensed body temperature of the wearer. The shield (100) ensures adequate separation between persons and facilitates temperature monitoring and early detection of disease.

No. of Pages : 28 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001004 A

(19) INDIA

(22) Date of filing of Application :07/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : "A METHOD AND SYSTEM FOR GENERATING A DIGITAL MODEL OF A COMPLEX SHAPED STRUCTURE"

(51) International classification :A61F0002280000, G06F0016930000, A61F0002300000, B33Y0070000000, B29L0031000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT MADRAS)

Address of Applicant :The Dean Industrial Consultancy & Sponsored Research (IC&SR), Indian Institute of Technology Madras, Sardar Patel Road, IIT Post Chennai Tamil Nadu India 600036 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Sindhu Viswakumar

Address of Applicant :27-10, 32nd Jeevanandham street GKM Colony, Jawahar Nagar Chennai Tamil Nadu India 600082 -----

(57) Abstract :

PLEASE SEE THE ATTACHMENTS.

No. of Pages : 37 No. of Claims : 12

(54) Title of the invention : Artificial Intelligence and Machine Learning based early detection strategy for Chronic Kidney Disease

<p>(51) International classification :G16H0050300000, G16H0050700000, G06N0003040000, G06N0003080000, G06N0020000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr.F. Sangeetha Francelin Vinnarasi Address of Applicant :Associate Professor St.Joseph's College of Engineering OMR, Chennai-600119 ----- 2)Gayatri Vaidya 3)Dr Mandeep Kaur Sandhu 4)Mohammed Hasan Ali Alabyadh 5)Dr. Manoj Tripathi 6)Dr R Hemalatha 7)Ashima kalra 8)Dr. Abhishek Das 9)Dr. Manish Sharma 10)Dr. Brijesh Sathian Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.F. Sangeetha Francelin Vinnarasi Address of Applicant :Associate Professor St.Joseph's College of Engineering OMR, Chennai-600119 ----- 2)Gayatri Vaidya Address of Applicant :Assistant Professor: Department of studies in Food Technology, Davangere University, Davangere. Karnataka , 577007 India ----- 3)Dr Mandeep Kaur Sandhu Address of Applicant :Associate Professor Rayat Bahra University VPO Sahauran Distt Mohali Punjab India. ----- 4)Mohammed Hasan Ali Alabyadh Address of Applicant :Associate Professor of Mental Health - College of Education in Wadi Addawasir, Prince Sattam bin Abdulaziz University, Alkharj, Saudi Arabia. and College of Education- Thamar University, Thamar, Yemen. ---- 5)Dr. Manoj Tripathi Address of Applicant :Associate Professor, Department of Anesthesia & Critical Care, Dr. Ram Manohar Lohia Institute of Medical Sciences (Dr.RMLIMS), Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh 226010,India ----- 6)Dr R Hemalatha Address of Applicant :Associate professor Department of CSE St. Joseph's college of Engineering OMR, chennai- 119 ----- 7)Ashima kalra Address of Applicant :Assistant Professor, Department of Electronics and Communication, chandigarh engineering college, landran, mohali, Punjab, India -- 8)Dr. Abhishek Das Address of Applicant :Associate Professor Aliah University (A State Govt. University), 33 RMDG Lane, Kolkata,WB, 700010, India ----- 9)Dr. Manish Sharma Address of Applicant :Assistant Professor Department of Mechanical Engineering, SOE-RIMT UNIVERSITY, Punjab, India ----- 10)Dr. Brijesh Sathian Address of Applicant :Scientist, Geriatrics and Long term care Department, Rumailah Hospital, Hamad Medical Corporation, Doha, Qatar, P. O BOX 3050, Doha, Qatar -----</p>
--	---

(57) Abstract :
Artificial Intelligence and Machine Learning based early detection strategy for Chronic Kidney Disease Abstract: Artificial intelligence, a cutting-edge science technology, is increasingly being used in the medical field (AI). It can be used for a variety of purposes, including early disease detection, diagnosis, and treatment. Kidney disease affects a large number of people worldwide, making it a major public health issue. It is still unclear how to deal with it as of now. Because AI can consider each person's situation and make the best decisions, it has the potential to revolutionize how kidney disease is managed. This paper outlines AI studies in kidney disease as well as a list of references. Researchers haven't paid much attention to artificial intelligence applications in kidney disease. Despite this, clinicians are aware that AI has the potential to significantly improve clinical work in the future.

No. of Pages : 9 No. of Claims : 7

(54) Title of the invention : A SYSTEM FOR MONITORING SOLAR PHOTOVOLTAIC BASED ON IOT TECHNOLOGY

<p>(51) International classification :H02J0007350000, H04L0029080000, G05B0015020000, H02S0050000000, H02S0040380000</p> <p>(86) International Application No :PCT// / Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Sumit Pokhriyal, Vivekananda Global University, Jaipur. Address of Applicant :Assistant Professor Department of Physics, Vivekananda Global University, Jaipur-303012, Rajasthan -----</p> <p>2)Mr. Anupam Agrawal, Bhilai Institute of Technology, Chhattisgarh</p> <p>3)Mr. Khushwant Singh, IIT Gandhinagar,</p> <p>4)Dr.J.Nithyashri, Karpaga Vinayaga college of Engineering & Technology, Chinnakolambakkam</p> <p>5)Ms. Archana.,M, Sri Venkateshwara college of Engineering, Bangalore</p> <p>6)Dr. Narendra Khatri, Manipal Institute of Technology, Manipal,</p> <p>7)Dr. Chandra Prakash Lora, Vivekananda Global University, Jaipur.</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Sumit Pokhriyal, Vivekananda Global University, Jaipur. Address of Applicant :Assistant Professor Department of Physics, Vivekananda Global University, Jaipur-303012, Rajasthan -----</p> <p>2)Mr. Anupam Agrawal, Bhilai Institute of Technology, Chhattisgarh Address of Applicant :Assistant Professor Department of Electrical and Electronics Engineering, Bhilai Institute of Technology, Durg-491001, Chhattisgarh -----</p> <p>3)Mr. Khushwant Singh, IIT Gandhinagar, Address of Applicant :Department of Physics, IIT Gandhinagar, Gandhinagar-382424, Gujarat -----</p> <p>4)Dr.J.Nithyashri, Karpaga Vinayaga college of Engineering & Technology, Chinnakolambakkam Address of Applicant :Professor & Head, Department of Computer Science and Engineering, Karpaga Vinayaga college of Engineering & Technology, Chinnakolambakkam, Chengalpet-603308. -----</p> <p>5)Ms. Archana.,M, Sri Venkateshwara college of Engineering, Bangalore Address of Applicant :Assistant professor, department of CSE, Sri Venkateshwara college of Engineering, Bangalore -----</p> <p>6)Dr. Narendra Khatri, Manipal Institute of Technology, Manipal, Address of Applicant :Assistant Professor Department of Mechatronics Manipal Institute of Technology, Manipal Academy of Higher Education Manipal, Karnataka, India -576104 -----</p> <p>7)Dr. Chandra Prakash Lora, Vivekananda Global University, Jaipur. Address of Applicant :Assistant Professor, Faculty of Basic and & Applied Sciences, Vivekananda Global University, Jaipur -----</p>
--	--

(57) Abstract :

Solar energy has emerge as one in all predominant smooth power sources round the arena in the latest years. Solar photovoltaic (PV) system has become the greatest attraction in the clean, renewable electricity generation. However, the performance is varying due to various parameters and environmental conditions. Internet of things (IoT) is playing a prime and essential position in the each day existence of human beings with the aid of using allowing the connectivity of many and maximum of the bodily gadgets via net to exchange the information for tracking and controlling the gadgets from a remote location, in which are the gadgets turns into intelligent. In this work, we proposed IoT based solar photovoltaic energy monitoring system. This is very useful to collect and analyzes the solar energy parameters to predict the performance for ensuring stable power generation.

No. of Pages : 5 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001067 A

(19) INDIA

(22) Date of filing of Application :07/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : AN EXTERNAL DISPLAY MODULE FOR DELIVERY PERSONNEL TO TACKLE CLIMATIC BARRIERS WITH BIKE CRASH DETECTION SYSTEM.

<p>(51) International classification :G06Q0050220000, G06Q0050300000, H04W0004900000, A42B0003300000, F41A0035020000</p> <p>(86) International Application No Filing Date :PCT// / :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Akash Shankar Address of Applicant :UG Scholar "Department of Mechanical Engg, St Joseph's College of engineering Omr chennai 600119 ----- -- 2)Roshan Pradeep 3)Dr. S. Rajeshkannan 4)T. Gavaskar 5)VADDI SRI RAMA GAYATHRI Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)AKASH SHANKAR Address of Applicant :UG Scholar Department of Mechanical Engg, St Joseph's College of Engineering, OMR, Semmencherry, Chennai-600119 ----- -- 2)T. Gavaskar Address of Applicant :Associate Professor, Department of Mechanical Engg, St. Joseph's College Of Engineering,OMR Chennai ----- -- 3)VADDI SRI RAMA GAYATHRI Address of Applicant :UG Scholar Department of ECE, St Joseph's College of Engineering, OMR, Semmencherry, Chennai-600119 ----- -- 4)Dr. S. Rajeshkannan Address of Applicant :Associate Professor, Department of ECE, St Joseph's College of Engineering, OMR, Semmencherry, Chennai ----- -- 5)Roshan Pradeep Address of Applicant :UG Scholar Department of Mechanical Engg, St Joseph's College of Engineering, OMR, Semmencherry, Chennai ----- -----</p>
--	---

(57) Abstract :

Today the whole world is on wheels and hotels and other traders scoop up a whole sum of profit in the doorstep delivery claim that they make. The delivery personnel are to be equipped with a transportation medium and a device that supports navigation. This external device is usually a smartphone which is insulated by a plastic cover to protect it against adverse climatic conditions. But this has few caveats. Firstly, it affects the touch sensitivity and the delivery personnel has to give heavy tactile pressure in adverse climatic and traffic condition. Secondly, improper exposure of the device would cost them the whole smartphone. Therefore, an external display module will enable them to secure their smartphone and also the proposed external display is watertight IP 68 water and dust proof which is again supported by an acrylic durable case which further enhances the durability and scratch resistance of the display. Thus, this ideology even at the most hypothetical adverse condition would just affect the display and would render the smartphone safe. Also, this module can directly be connected to any vehicle with proper battery utility and thus is a universal module. The computational aspects are taken care by Raspberry SC15184 Pi 4 Model B 2019 Quad Core 64 Bit Wi-Fi Bluetooth (2GB) with headers and with an Ethernet or Wi-Fi connection module and coupled with a 5–7-inch 800x480 pixels display. This is accompanied by an acrylic display holder which ensures further more protection and also making it sure that the display lasts for a longer span of period. Size and resolution can be varied as per the delivery personnel's requirement which would affect the cost aspects. The size of display would also vary the size of the display holder. The goal is to send a SOS signal to the Centralized Command Center (CCC) on the detection of any bike crashes. Rather than sending a normal SOS signal, we try to provide a qualitative, quantitative and informative signal on detection of the accident. The information we furnish to the Centralized Command Center contains the details such as the location of the accident which is obtained from GPS along with a short 15 seconds video to know the impact of the accident. Also, this video is also saved in local storage so that in case of any network problem the cause of the accident can be viewed later. This will also help the government in filing the accident cases and the culprit can be punished. The solution also aims to be scalable, feasible with real time data and environment and the ultimate aim of providing the compact device. Hence, we make use of our own customized PCBs to make the device more compact and modularity is also concentrated so that failure of any part won't affect the working of other parts and procedures

No. of Pages : 26 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001086 A

(19) INDIA

(22) Date of filing of Application :08/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : A METHOD AND DEVICE OF ONLINE SHOPPING LIVE STREAMING UPDATE IN INCOME TAX SYSTEM

<p>(51) International classification :G06Q0040000000, G06Q0030020000, G06Q0040020000, G06K0015020000, G06Q0050260000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Francis Xavier Engineering College Tirunelveli Address of Applicant :The Principal, Francis Xavier Engineering College, Tirunelveli – 627003 Tamil Nadu ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. N. Muthukumaran Professor Department of Electronics and Communication Engineering Francis Xavier Engineering College Tirunelveli Address of Applicant :1. Dr. N. Muthukumaran, Professor, Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli -627003, Tamil Nadu, India. -----</p> <p>2)Dr. Pream Ananth Associate Professor Department of Electronics and Communication Engineering Francis Xavier Engineering College Tirunelveli Address of Applicant :Dr. Pream Ananth, Associate Professor, Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli -627003, Tamil Nadu, India. -----</p> <p>3)Dr. L.R. Priya Professor Department of Electronics and Communication Engineering Francis Xavier Engineering College Tirunelveli Address of Applicant :Dr. L.R. Priya, Professor, Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli -627003, Tamil Nadu, India. ---- -----</p>
--	--

(57) Abstract :

Corporation tax compliance costs refer to the value of resources expended by corporate taxpayers in complying with the tax regulation Tax compliance requirements for corporations include completing tax returns, maintaining proper records, and obtaining sufficient knowledge to enable these obligations to be accurately executed. The tax compliance costs burden has been reported in detail for most countries in the advanced economies. However, the literature available from empirical studies conducted in those countries might not provide answers to some of the compliance costs issues in other economies. This paper discusses the development of the econometric equations for the SBBM. Particular focus is given to methods used to preserve the distributional characteristics of the reported population when estimating the predicted burden in the population of the resulting econometric model.

No. of Pages : 25 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001100 A

(19) INDIA

(22) Date of filing of Application :08/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ENHANCED SECURITY FOR THE INFORMATION SHARED OVER CLOUD COMPUTING USING ADVANCED ENCRYPTION TECHNIQUES

(51) International classification :H04L0029060000, H04L0009060000, G06F0021620000, H04L0009320000, G06F0021850000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)AROCKIA ANTONY SAMY. I

Address of Applicant :RESEARCH SCHOLAR (R.NO.17221282161005), MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI,627012 -----

2)DR. M. SAFISH MARY

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)AROCKIA ANTONY SAMY. I

Address of Applicant :RESEARCH SCHOLAR (R.NO.17221282161005), MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI,627012 -----

2)DR. M. SAFISH MARY

Address of Applicant :ASSISTANT PROFESSOR, COMPUTER SCIENCE, ST. XAVIER'S COLLEGE(AUTONOMOUS), PALAYAMKOTTAI,627002 -----

(57) Abstract :

Enhanced security for the information shared over cloud computing using advanced encryption techniques is the proposed invention that focuses on transferring personal and important information over cloud. Though variety of firewall systems exist, there are still threats or attacks for the data or information which is transmitted over cloud. The invention focuses on addressing the flaws that are inherent in the network security using advanced encryption techniques to encrypt data over cloud. The multi-layer security and encryption will help improve the security level of data at the level of mobile computing since smart devices have modified the lifestyle of humans.

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : A MACHINE LEARNING BASED APPROACH TO ANALYZE THE NETWORK SECURITY OF MEDICAL DATA USING BLOCKCHAIN

(51) International classification :H04L0029060000, H04L0009320000, G16H0010600000, G06F0021600000, G06N0020000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DR. RAJASEKAR P
 Address of Applicant :ASSISTANT PROFESSOR, DATA SCIENCE AND BUSINESS SYSTEMS, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENGALPATTU, 603203 -----
2)DR.T.PARAMESWARAN
3)DR SHYLAJA S L
4)VEENA RANI
5)DR. SHRINIVAS SIRDESHPANDE
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)DR. RAJASEKAR P
 Address of Applicant :ASSISTANT PROFESSOR, DATA SCIENCE AND BUSINESS SYSTEMS, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENGALPATTU, 603203 -----
2)DR.T.PARAMESWARAN
 Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CSE, SCHOOL OF ENGINEERING AND TECHNOLOGY, CMR UNIVERSITY MAIN CAMPUS, BAGALUR MAIN RD, CHAGALAHATTLI, KARNATAKA 562149 -----
3)DR SHYLAJA S L
 Address of Applicant :PRINCIPAL, EAST WEST POLYTECHNIC,BANGALORE560091 ---

4)VEENA RANI
 Address of Applicant :ASSISTANT PROFESSOR /AI&ML/MALLA REDDY UNIVERSITY /HYDERABAD -----
5)DR. SHRINIVAS SIRDESHPANDE
 Address of Applicant :PROFESSOR, CSE DEPARTMENT, VBIT, HALIYAL - 581329, UTTAR KARNATAKA -----
6)MR. ANJANEYULU KUNCHALA
 Address of Applicant :ASSISTANT PROFESSOR/INFORMATION TECHNOLOGY, VESTR DEEMED TO BE UNIVERSITY, GUNTUR,522213 -----
7)DR.VENKATESWARULU NAIK.B
 Address of Applicant :ELLENKI COLLEGE OF ENGINEERING AND TECHNOLOGY, ASSOC PROF,PATELGUDA, HYDERABAD. -----
8)PROF. DHARAMVIR
 Address of Applicant :ASSOCIATE PROFESSOR, DEPT. OF MCA , THE OXFORD COLLEGE OF ENGINEERING, BOMMAHALLI,BANGALORE-560068 -----
9)DR. R. KESAVAMOORTHY
 Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, CMR INSTITUTE OF TECHNOLOGY, BENGALURU --

10)SANJAY DHANKA
 Address of Applicant :RESEARCH SCHOLAR, SLIET, ELECTRICAL AND INSTRUMENTATION, SANGRUR, 148106 -----
11)DR.S.SIVAGANESAN
 Address of Applicant :PROFESSOR & HEAD,DEPT. OF ELECTRICAL AND ELECTRONICS ENGINEERING,HOLYMARY INSTITUTE OF TECHNOLOGY & SCIENCE, BOGARAM(V), KEESARA(M), R.R DIST., HYDERABAD, TELANGANA-501301 -----
12)V.ARIVUMANI
 Address of Applicant :ASSISTANT PROFESSOR / EEE, GOVERNMENT COLLEGE OF ENGINEERING, BARGUR - 635104. -----

(57) Abstract :
 A machine learning based approach to analyse the network security of medical data using blockchain is the proposed invention that combined the advantageous traits of both machine learning and blockchain. The invention aims at monitoring the security issues associated with health care data that is transferred over the network. The proposed invention implements secure, transparent and intelligent machine learning based models along with blockchain technology to enhance the security level and in turn to improve diagnostic, prevention and treatment of the patient. By keeping the supervised data set on the chain with private encryption techniques the proposed objectives can be fulfilled.

No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : Impact of Organized Retailing on Traditional Retail Business

(51) International classification :G06Q0030020000, G06Q0010060000, G07F0017120000, G06Q0090000000, A47F0007000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. P. Karthikeyan
 Address of Applicant :Associate Professor, Department of Management Studies, Periyar University PG Extension Centre, Dharmapuri- 636701, Tamil Nadu -----
2)Dr Manisha Jaiswal
3)Mrs. S. Kirubadevi
4)Dr. C. Ramesh kumar
5)Dr. P. Radha
6)Dr. Mohammad Rauf
7)Dr. A. Vini Infanta
8)Mr. Kuldeep Kumar
9)Dr. Arpana. D
10)Dr. S. Rajyalakshmi
11)Dr. E. Sankar
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Dr. P. Karthikeyan
 Address of Applicant :Associate Professor, Department of Management Studies, Periyar University PG Extension Centre, Dharmapuri- 636701, Tamil Nadu -----
2)Dr Manisha Jaiswal
 Address of Applicant :Assistant Professor, Department of Commerce, Daulat Ram College, 4 Patel Marg,Maurice Nagar, University of Delhi, Delhi -110007. -----
3)Mrs. S. Kirubadevi
 Address of Applicant :Research Scholar, PG and Research Department of Commerce, LRG Govt. Arts and Science College, Tirupur – 641604, Tamil Nadu -----
4)Dr. C. Ramesh kumar
 Address of Applicant :Assistant Professor Department of Business Administration, Faculty of Arts, Annamalai University, Annamalai Nagar- 608002, Tamil Nadu -----
5)Dr. P. Radha
 Address of Applicant :Associate Professor, Department of PG Studies (Management), The Oxford College of Business Management, 4th sector HSR Layout, Bangalore – 560102, Karnataka -----
6)Dr. Mohammad Rauf
 Address of Applicant :Assistant Professor, Department of Law Aligarh Muslim University, Murshidabadcentre, West Bengal - 742223. -----
7)Dr. A. Vini Infanta
 Address of Applicant :Assistant Professor, Department of B. com PA Sri Ramakrishna College of Arts and Science, Coimbatore- 641006, Tamil Nadu -----
8)Mr. Kuldeep Kumar
 Address of Applicant :PhD Scholar, GD Goenka University, Department of SOM, Gate No 3: G D Goenka educational city, Sohna - Gurgaon Rd, Sohna- 122013, Haryana -----
 --
9)Dr. Arpana. D
 Address of Applicant :Associate Professor, Department of PG studies (Management), The Oxford college of Business Management, Affiliated to Bangalore University, Bangalore-560102, Karnataka -----
10)Dr. S. Rajyalakshmi
 Address of Applicant :Assistant Professor – HOD, Department of Physics, University College of Science and Technology, Adikavi Nannaya University, Rajamahendravaram- 533296, Andhra Pradesh -----
11)Dr. E. Sankar
 Address of Applicant :Assistant Professor, Department of Commerce and Commerce (CA), Government Arts and Science College, Valparai, Coimbatore District- 642127, Tamil Nadu ---

(57) Abstract :
 The main purpose of the current research work is to carry out a detailed study of the impact of organized retailers on traditional retailers, with a special focus on the food and grocery industry. To accomplish this important purpose, the following specific objectives are set. 1. To assess the impact of food and grocery regulated retailers on the sales performance of traditional retailers. 2. Examining the impact of organized food and groceries organized retailers on the customers and staff of traditional retailers. 3. Analyze the survival strategies adopted by traditional retailers to meet the challenges and competition created by food and grocery organized retailers. 4. Observe the facilities and services provided by organized and traditional retailers. 5. Evaluating the market tendencies of traditional retailers, dealing with competition and children doing their business. 7. To examine demographic and behavioral factors affecting customer preferences towards organized and traditional retail stores. 8. Read customer-wise product preferences towards organized and traditional retail store.

No. of Pages : 29 No. of Claims : 5

(54) Title of the invention : A FUZZY LOGIC BASED INFORMATION PROCESSING SYSTEM AND METHOD THEREOF

(51) International classification :G11C0029080000, H04N0013398000, G10L0019260000, H04N0019860000, H04L0009080000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. J. Ebenesar Anna Bagyam
 Address of Applicant :Assistant Professor, Department of Mathematics (SF), Avinashilingam Institute for Home Science and Higher Education for Women (Campus II), Coimbatore, Tamil Nadu, India Pincode: 641043 -----
2)Dr. Manoj Kumar Chande
3)Dr.B.Nageswara Rao
4)Dr. Prashant P. Malavadkar
5)Dr. K. Sampath Kumar
6)Dr. R Vijayalakshmi
7)Dr. C. Siva Sankar
8)Dr. Ashim Bora
9)Dr. Dubisetty Vidyanadha Babu
10)Dr. M.Mary Jansirani
11)Mr. Nellore Manoj Kumar
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Dr. J. Ebenesar Anna Bagyam
 Address of Applicant :Assistant Professor, Department of Mathematics (SF), Avinashilingam Institute for Home Science and Higher Education for Women (Campus II), Coimbatore, Tamil Nadu, India Pincode: 641043 -----
2)Dr. Manoj Kumar Chande
 Address of Applicant :Professor and Head, Department of Applied Mathematics, Shri Shankaracharya Institute of Professional Management, and Technology, Raipur, Chhattisgarh, India, Pincode: 492015 -----
3)Dr.B.Nageswara Rao
 Address of Applicant :Associate professor, Department of Mathematics, Lendi Institute of Engineering and Technology, Jonnada, Vizianagaram, Andhra Pradesh, India, Pincode: 535005 -----
4)Dr. Prashant P. Malavadkar
 Address of Applicant :Associate Professor and Head, School of Mathematics and Statistics, Dr. Vishwanath Karad MIT World Peace University, Pune, Maharashtra, India, Pincode-411038 -----
5)Dr. K. Sampath Kumar
 Address of Applicant :Associate Professor, Department of Mathematics, Roever Engineering College, Perambalur, Tamil Nadu, India, Pincode: 621 220 -----
6)Dr. R Vijayalakshmi
 Address of Applicant :Assistant Professor of Mathematics, Department of Humanities and Basic Sciences, Annamacharya Institute of Technology and Sciences, Tirupati, Andhra Pradesh, India, Pincode: 517520 -----
7)Dr. C. Siva Sankar
 Address of Applicant :Associate Professor, Department of Education, Rajiv Gandhi University, Rono hills, Doimukh, Arunachal Pradesh, India, Pincode: 791112 -----
8)Dr. Ashim Bora
 Address of Applicant :Head and Associate Professor, Department of Mathematics, Diphu Government College, Diphu, Assam, India, Pincode: 782462 -----
9)Dr. Dubisetty Vidyanadha Babu
 Address of Applicant :Associate Professor, Department of BS & H, QIS College of Engineering and Technology, Ongole, Andhra Pradesh, India, Pincode: 523001 -----
10)Dr. M.Mary Jansirani
 Address of Applicant :Assistant Professor, PG & Research Department of Mathematics, Holy Cross College (Autonomous), Trichy-02, Tamilnadu, India, Pincode: 620002 -----
11)Mr. Nellore Manoj Kumar
 Address of Applicant :15-356, Gollapalem, Venkatagiri, SPSR Nellore District, Andhra Pradesh, India, Pincode -524132 -----

(57) Abstract :
 The present invention discloses a fuzzy logic-based information processing system and method thereof. The system includes, but not limited to, an address decoder unit for receiving a first input signal and decoding the first input signal to provide a decoded signal; a memory having unit a plurality of memory locations the memory being coupled to the address decoder unit for receiving the decoded signal, the memory providing a first fuzzy input value in unary form from a first one of the first plurality of memory locations indicated by the decoded signal; and a logic means for selectively performing a logic function using the first fuzzy input value, the first logic means being coupled to the memory for receiving the first fuzzy input value and the first logic means providing a first minimum value. Accompanied Drawing [FIG. 1]

(54) Title of the invention : Greenhouse Agriculture in an IoT and ML-Driven Controlled Environment

(51) International classification :A01G0009140000, H04L0029080000, A01G0031020000, A01K0063040000, A01G0009240000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Dr. Piyush Kumar Pareek
 Address of Applicant :Dr. Piyush Kumar Pareek Professor (CSE)& Head (IPR CELL), Nitte Meenakshi Institute of Technology, Yelahanka, Bengaluru piyush.kumar@nmit.ac.in 8095372283 -----
2)Dr.Geetishree Mishra
3)Chethana C
4)Dr. Achyutha Prasad .N
5)NAGARAJU T A
6)Sapna kadakadiyavar
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Dr. Piyush Kumar Pareek
 Address of Applicant :Dr. Piyush Kumar Pareek Professor (CSE)& Head (IPR CELL), Nitte Meenakshi Institute of Technology, Yelahanka, Bengaluru piyush.kumar@nmit.ac.in 8095372283 -----
2)Dr.Geetishree Mishra
 Address of Applicant :Assistant Professor Dept of Electronics & Communication Engineering B.M.S College of Engineering , Bengaluru -----
3)Chethana C
 Address of Applicant :Assistant Professor Computer Science and Engineering Institution Address: BMS Institute of Technology and Management, Bengaluru, Karnataka 560064 -----
 --
4)Dr. Achyutha Prasad .N
 Address of Applicant :Professor & Head Computer Science and Engineering East West Institute Of Technology, Vishwaneedam Post, Anjana Nagar, Bengaluru, Karnataka 560091 -----

5)NAGARAJU T A
 Address of Applicant :Assistant Professor (E&C) Government Engineering College, Ramanagara 562159 , Karnataka -----

6)Sapna kadakadiyavar
 Address of Applicant :Associate professor Electronics and communication engineering Sambhram institute of technology,M.S.Palya, Bangalore-560097 -----

(57) Abstract :
 Title of Invention: Greenhouse Agriculture in an IoT and ML-Driven Controlled Environment ABSTRACT We've created a system for offering climate-controlled environment agriculture (CEA) in greenhouses using cutting-edge technologies like artificial intelligence, the Internet of Things, and vertical farming. For example, it can monitor and control hydroponics, aquaponics, permaculture and stone wool substrate, allowing crops to be grown vertically for a better yield than typical fields. A plant's growth is monitored by IoT sensors, which collect photos and data. Adjustments are then made to the controller's settings to match the demands of the various systems.

No. of Pages : 11 No. of Claims : 1

(54) Title of the invention : Soil Classification for Planting and Monitoring Using FCNN-based IoT Smart Agriculture System

(51) International classification :G06Q0050020000, G06N0003040000, A01M0007000000, A01B0079000000, A01G0013020000

(86) International Application No Filing Date :PCT// / :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

(71)**Name of Applicant :**
1)Dr.R.Kanagavalli, The Oxford College of Engineering
 Address of Applicant :Professor and HoD, Department of Information Science and Engineering, The Oxford College of Engineering, Bangalore-560 068 -----
2)Dr.Vanajaroselin E.Chirchi, The Oxford College of Engineering
3)Prof.Emmanuel Raj M Chirchi, Don Bosco Institute and Technology
4)Dr. R.V.Dhanalakshmi, New Horizon College of Engineering
5)Ms.Kokila, The Oxford College of Engineering
Name of Applicant : NA
Address of Applicant : NA
 (72)**Name of Inventor :**
1)Dr.R.Kanagavalli, The Oxford College of Engineering
 Address of Applicant :Professor and HoD, Department of Information Science and Engineering, The Oxford College of Engineering, Bangalore-560 068 -----
2)Dr.Vanajaroselin E.Chirchi, The Oxford College of Engineering
 Address of Applicant :Professor, Department of Information Science and Engineering, The Oxford College of Engineering, Bangalore - 560 068, Karnataka -----
3)Prof.Emmanuel Raj M Chirchi, Don Bosco Institute and Technology
 Address of Applicant :Associate Professor, Department of Information Science and Engineering, Don Bosco Institute and Technology, Bangalore – 560074 Karnataka -----
4)Dr. R.V.Dhanalakshmi, New Horizon College of Engineering
 Address of Applicant :Associate Professor, Department of Management studies, New Horizon College of Engineering, Bangalore, Karnataka 560103 -----
5)Ms.Kokila, The Oxford College of Engineering
 Address of Applicant :Assistant Professor, Department of Information Science and Engineering, The Oxford College of Engineering, Bangalore - 560 068, Karnataka -----

(57) Abstract :
 Fully Convolution Neural Network (FCNN) and Internet of Things (IoT) framework to assist farmers in monitoring crop growth and increasing yield using the three main objectives listed. The first goal is to assist farmers in choosing a crop by analyzing the soil on a given piece of land and using an algorithm that displays the properties of that soil and lists different crops for that soil type. The second goal is to detect and prevent plant disease from spreading and spoiling the harvest. The algorithm displays whether the plant is healthy or unhealthy, and if it is unhealthy, what type of disease it is so that farmers can take preventive measures such as spraying pesticides on time. By monitoring soil temperature and moisture, the third goal assists the farmer in predicting irrigation needs. Sensors for soil preparation, crop status, irrigation, insect and pest detection, and other agriculture applications are listed. It is explained how this technology assists growers throughout the crop stages, from sowing to harvesting, packing, and transportation. This article also considers the use of unmanned aerial vehicles for crop surveillance and other beneficial applications such as crop yield optimization. Wherever possible, cutting-edge IoT-based architectures and platforms used in agriculture are highlighted. Finally, we identify current and future IoT trends in agriculture.

No. of Pages : 6 No. of Claims : 2

(54) Title of the invention : AUTONOMOUS NURSING ROBOT FOR HOSPITALS BASED ON WIRELESS BEACON NETWORK

<p>(51) International classification :G06Q0050220000, A61K0038080000, G16H0040200000, A61F0013020000, G16H0080000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)The Principal Francis Xavier Engineering College Tirunelveli Address of Applicant :The Principal, Francis Xavier Engineering College, Tirunelveli – 627003 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. K.Lakshmi Narayanan Associate Professor Department of Electronics and Communication Engineering Francis Xavier Engineering College Tirunelveli Address of Applicant :Dr. K.LAKSHMI NARAYANAN Associate Professor, Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli -627003, Tamil Nadu, India. -----</p> <p>2)Dr.P.Kannan Assistant Professor Department of Electronics and Communication Engineering Francis Xavier Engineering College Tirunelveli Address of Applicant :Dr.P.Kannan Assistant Professor, Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli -627003, Tamil Nadu, India. -----</p> <p>3)Mr.Pradeep.T.Rajan Assistant Professor Department of Electronics and Communication Engineering Francis Xavier Engineering College Tirunelveli Address of Applicant :Mr.Pradeep.T.Rajan Assistant Professor, Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli -627003, Tamil Nadu, India. -----</p> <p>4)Mrs.M.Radha Assistant Professor Department of Electronics and Communication Engineering Francis Xavier Engineering College Tirunelveli Address of Applicant :Mrs.M.Radha Assistant Professor, Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli -627003, Tamil Nadu, India. -----</p>
--	--

(57) Abstract :

Healthcare is a profession which focuses on individual care in hospitals so that they continue or pull through optimal health and quality of life, so nursing plays a curious role in the healthcare profession. But nowadays the healthcare professionals are facing more problems in recent days. During the time of pandemic disease spread doctors and nurses are facing workplace hazards such as exposure to harmful viruses like COVID19, flu germs, blood borne pathogens, and washing related infections due to lack of cleanliness and support staffs.

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001166 A

(19) INDIA

(22) Date of filing of Application :09/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : Smart Manufacturing Enterprise System for Perspective of Internet of Things

<p>(51) International classification :G06Q0010060000, H04L0029080000, G06Q0010100000, H04L0012240000, G06F0008200000</p> <p>(86) International Application No :PCT// / Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Rajalakshmi V,REVA University Address of Applicant :Assistant Professor School of Commerce REVA University Bangalore- 560064 ----- --- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Rajalakshmi V,REVA University Address of Applicant :Assistant Professor School of Commerce REVA University Bangalore- 560064 -----</p>
--	---

(57) Abstract :

The workflow between the business and production systems is changing, which is causing a delay in examining the context of new ideas and solutions. Through a runtime environment, smart manufacturing systems are rapidly combining the operational capabilities of networking functionality and communication services with cloud-based corporate architectures. Using Internet of Things (IoT)-based Service Oriented Architecture (SOA) solutions in a variety of enterprise systems, fine tuning seeks to process intelligent management, flexible monitoring, dynamic network services, and timely perception. SOA is a design pattern for developing software business systems that are based on loosely connected enterprise infrastructure services and components. Smart manufacturing systems use IoT technologies to connect services and manage resources while enhancing structure and efficiency. The IoT-based SOA enterprise systems integrate data elicitation, agile approaches, and orchestrate underlying black-box services while supporting growth in the workflow of manufacturer enterprises. The integration of a standard workflow model between business system and manufacturing production level with an IoT-enabled SOA architecture based on groups is proposed in this proposal.

No. of Pages : 6 No. of Claims : 5

(54) Title of the invention : ARTIFICIAL INTELLIGENCE-BASED TECHNIQUES TO DECIDE AND GUIDE PILOT FOR LANDING OF AIRCRAFTS

<p>(51) International classification :G10L0017240000, G01J0003460000, G06F0040169000, G01N0033680000, H04L0012751000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)BASUTHKAR MAHESH Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CSE, DR.K.V.SUBBA REDDY INSTITUTE OF TECHNOLOGY, KURNOOL, 518218 ----- 2)K PAVAN KUMAR 3)MRUTYUNJAYA S YALAWAR 4)DR. CHINMAYA KUMAR NAYAK 5)AKASHDEEP HOWLADAR 6)DENNY THOMAS CHEMPAZHA Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)BASUTHKAR MAHESH Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CSE, DR.K.V.SUBBA REDDY INSTITUTE OF TECHNOLOGY, KURNOOL, 518218 ----- 2)K PAVAN KUMAR Address of Applicant :ASSOC PROFESSOR,DEPARTMENT OF CSE,DR.K.V.SUBBA REDDY INSTITUTE OF TECHNOLOGY,KURNOOL-518218 ----- 3)MRUTYUNJAYA S YALAWAR Address of Applicant :ASSISTANT PROFESSOR, DEPT OF CSE, CMR ENGINEERING COLLEGE,HYDERABAD,501401 ----- 4)DR. CHINMAYA KUMAR NAYAK Address of Applicant :FACULTY OF EMERGING TECHNOLOGIES,SRI SRI UNIVERSITY. SRI SRI VIHAR, WARD NO – 3, GODI SAHI, CUTTACK – 754006 ODISHA, INDIA ----- 5)AKASHDEEP HOWLADAR Address of Applicant :SELF, THANE 400607 ----- 6)DENNY THOMAS CHEMPAZHA Address of Applicant :FOUNDER, SANTA MONICA INNOVANCE ----- 7)CHINNADURAI M Address of Applicant :E.G.S. PILLAY ENGINEERING COLLEGE NAGAPATTINAM TAMILNADU ----- 8)RELANGI ANIL KUMAR Address of Applicant :ASSISTANT PROFESSOR, ELECTRONIC AND COMMUNICATION ENGINEERING, ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY, SURAMPALEM, PIN CODE:533437. -- ----- 9)MOHAMED IBRAHIM A Address of Applicant :ASSISTANT PROFESSOR (SR.G), DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, AVINASHI ROAD, ARASUR, COIMBATORE - 641407 ----- 10)SHANTALA YALAWAR Address of Applicant :SENIOR ENGINEER, ROBERT BOSCH ENGINEERING AND BUSINESS SOLUTIONS,BANGALORE,560100 ----- 11)DR. M S SHASHIDHARA Address of Applicant :PROFESSOR & HOD , DEPT OF MCA , THE OXFORD COLLEGE OF ENGINEERING, BOMMANHALLI, BANGLORE-560068 ----- 12)PROF. DHARAMVIR Address of Applicant :ASSOCIATE PROFESSOR, DEPT. OF MCA , THE OXFORD COLLEGE OF ENGINEERING, BOMMAHALLI,BANGALORE-560068 -----</p>
--	---

(57) Abstract : Artificial intelligence-based techniques to decide and guide pilots during landing is the proposed invention. The invention is implemented using the artificial intelligence unit that will be trained to sense the obstades that may be present in the path. The routes are carefully analyzed with a high-resolution camera and the same is used for guiding the pilots especially in the dangerous router. The proposed invention will help reduce aircraft crashes to a greater extent.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001187 A

(19) INDIA

(22) Date of filing of Application :10/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : HUE D RETRACTOR

(51) International classification :A61B0017020000, A61C0005900000, A61C0017060000, A61B0001320000, A61C0001080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1) SAVEETHA DENTAL COLLEGE, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES, SAVEETHA UNIVERSITY
Address of Applicant :SAVEETHA DENTAL COLLEGE, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES, SAVEETHA UNIVERSITY, NO. 162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMILNADU, INDIA 600 077. -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)PREM VISHVA. N
Address of Applicant :SAVEETHA DENTAL COLLEGE, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES, SAVEETHA UNIVERSITY, NO. 162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMILNADU, INDIA 600 077. -----
2)ARVIND SIVAKUMAR
Address of Applicant :SAVEETHA DENTAL COLLEGE, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES, SAVEETHA UNIVERSITY, NO. 162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMILNADU, INDIA 600 077. -----
3)DEEPAK NALLASWAMY VEERAIYAN
Address of Applicant :SAVEETHA DENTAL COLLEGE, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES, SAVEETHA UNIVERSITY, NO. 162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMILNADU, INDIA 600 077. -----

(57) Abstract :

Cheek retractors are commonly used in dentistry for isolation and tissue retraction. They are also used during clinical photography. Certain dental procedures however require adequate illumination wherein the dental chair light is not sufficient. This invention was aimed at incorporating the utility of the cheek retractor along with multicolour LED lights in order to achieve an isolated working field along with abundant illumination. It also provides options for raulti colour light illuminance as well as can be used during dental photography.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001189 A

(19) INDIA

(22) Date of filing of Application :10/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ELECTRIC SOLDERING PEN

(51) International classification :H05K0003340000, B23K0035020000, G06F0003038000, A61C0005620000, B23K0003000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SAVEETHA DENTAL COLLEGE, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES, SAVEETHA UNIVERSITY

Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITALS, 162, POONAMALLEE HIGH ROAD, VELAPPANCAVADI, CHENNAI, TAMIL NADU, INDIA-600077 -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)RAMA RAJI SANKARANARAYANAN
Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITALS, 162, POONAMALLEE HIGH ROAD, VELAPPANCAVADI, CHENNAI, TAMIL NADU, INDIA-600077 -----

2)HARISH BABU
Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITALS, 162, POONAMALLEE HIGH ROAD, VELAPPANCAVADI, CHENNAI, TAMIL NADU, INDIA-600077 -----

3)ARVIND SIVAKUMAR
Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITALS, 162, POONAMALLEE HIGH ROAD, VELAPPANCAVADI, CHENNAI, TAMIL NADU, INDIA-600077 -----

4)DEEPAK NALLASWAMY VEERAIYAN
Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITALS, 162, POONAMALLEE HIGH ROAD, VELAPPANCAVADI, CHENNAI, TAMIL NADU, INDIA-600077 -----

(57) Abstract :

The self-soldering torch is a hand-held device which will be used for soldering two biocompatible metals in dentistry. The current invention avoids the hassle of holding the solder, wire component and soldering torch all at once. This invention will help in safe, accurate and clutter free soldering.

No. of Pages : 6 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001190 A

(19) INDIA

(22) Date of filing of Application :10/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : SIMPLIFIED LASER BRACKET POSITIONING GAUGE

(51) International classification :A61C7/00
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SAVEETHA DENTAL COLLEGE, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES, SAVEETHA UNIVERSITY

Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITALS NO 162 PH ROAD, VELAPPANCHAVADI, CHENNAI, TAMIL NADU, INDIA-600077. -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)PREETHI R
Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITALS NO 162 PH ROAD, VELAPPANCHAVADI, CHENNAI, TAMIL NADU, INDIA-600077. -----

2)NAVANEETHAN RAMASAMY
Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITALS NO 162 PH ROAD, VELAPPANCHAVADI, CHENNAI, TAMIL NADU, INDIA-600077. -----

3)DEEPAK NALLASWAMY VEERAIYAN
Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITALS NO 162 PH ROAD, VELAPPANCHAVADI, CHENNAI, TAMIL NADU, INDIA-600077. -----

(57) Abstract :

Abstract: Bracket positioning is the heart of preadjusted edgewise appliance. Accuracy of bracket positioning directly affects the treatment outcome. A number of hand-held instruments are available for bracket positioning accuracy including Boon's gauge, MBT gauges, and various other modifications. However, the most commonly used MBT gauges come in a set of two or four jigs with gauges on each end of the instrument making it difficult to carry in the instrument tray for the orthodontists. Our new bracket positioning instrument surpasses • the need for multiple hand held gauges and also the need for sterilisation of gauges. This simplified laser gauge comes with a laser light source with a wavelength less (<400 nm) enough to not to cure the placed brackets on the tooth. The laser light source emits light that shows up as parallel light beams on the labial surface of the tooth, this allows precise bracket positioning and does not allow slippage of the bracket while instrument withdrawal as it is a no-contact device.

No. of Pages : 8 No. of Claims : 9

(54) Title of the invention : NEEM FLOWER MEDIATED CURCUMIN SELENIUM NANOCOMPOSITE DENTAL VARNISH

(51) International classification :A61K47/00
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)Saveetha Dental College and Hospital, Saveetha Institute of Medical and Technical Sciences, Saveetha University
 Address of Applicant :SAVEETHA DENTAL COLLEGE
 NO:162, P.H ROAD, CHENNAI, TAMIL NADU, INDIA-600077. -----
Name of Applicant : NA
Address of Applicant : NA
 (72)**Name of Inventor :**
1)Dr. Abirami Arthanari
 Address of Applicant :SAVEETHA DENTAL COLLEGE
 NO:162, P.H ROAD, CHENNAI, TAMIL NADU, INDIA-600077. -----
2)Dr. Rajeshkumar Shanmugam
 Address of Applicant :SAVEETHA DENTAL COLLEGE
 NO:162, P.H ROAD, CHENNAI, TAMIL NADU, INDIA-600077. -----
3)Dr. Deepak Nallaswamy V
 Address of Applicant :SAVEETHA DENTAL COLLEGE
 NO:162, P.H ROAD, CHENNAI, TAMIL NADU, INDIA-600077. -----

(57) Abstract :

Nanoparticles are in a variety of shapes, sizes, and structures. It can be spherical, cylindrical, tubular, conical, hollow core, spiral, flat, or irregular in shape, with sizes ranging from 1 nm to 100 nm. Surface differences can make the surface uniform or uneven. Some nanoparticles are crystalline or amorphous, with single or multi crystal solids that might be loose or clumped together. Selenium nanoparticles (SeNPs) have a lot of potential for usage in antimicrobial coatings, nutritional supplements, nanotherapeutics, diagnostics, and medical devices because of their remarkable catalytic, photoreactive, biocidal, anticancer, and antioxidant capabilities. Nanocomposite is a multiphase solid material with one, two, or three dimensions of less than 100 nano-meters, or architectures with nanoscale repeat intervals between the distinct phases of the material. Intercalated Nanocomposites and Exfoliated Nanocomposites are two types of Lamellar Nanocomposites. They are both biocompatible and capable of effectively delivering combinations of payloads to specified cells after being functionalized with active targeting ligands. After 1 hour, the produced SeNPs show a surface plasmon resonance at 430nm. The characterisation results revealed that SeNPs are crystalline in form and are entirely represented by spheres ranging in size from 2 to 55 nm. Antimicrobial activity and cytotoxicity of neem flower selenium curcumin nanocomposite (Varnish) against bacteria pathogens were demonstrated.

No. of Pages : 5 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001195 A

(19) INDIA

(22) Date of filing of Application :10/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : MINI-IMPLANT CONNECTOR PLATE

(51) International classification :A61C0008000000, A61K0009000000, A61C0007120000, C07K0014705000, A47B0087000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SAVEETHA DENTAL COLLEGE, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES, SAVEETHA UNIVERSITY

Address of Applicant :Saveetha Dental College and Hospitals, 162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SOWMITHRA DEVI .S

Address of Applicant :Saveetha Dental College and Hospitals, 162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

2)ARAVIND KUMAR .S

Address of Applicant :Saveetha Dental College and Hospitals, 162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

3)DEEPAK NALLASWAMY VEERAIYAN

Address of Applicant :Saveetha Dental College and Hospitals, 162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

(57) Abstract :

The mini-implant connector plate is a modification of conventional mini-plates used for various orthodontic tooth movements. This appliance involves a single unit of titanium two hole mini-plate to hold mini-implants that is to be placed inter-radically thus connecting them together and a hook for attachment of elastics. Migration of implant occurs despite taking advantage of skeletal anchorage. Migration of implant prolongs the treatment duration and does not help in achieving desired orthodontic results. Thus, reinforcing a single mini-implant with two connected mini-implants provide better stability when compared to single mini-implant and avoids any invasive flap elevation procedure for placement as like mini-plates. This invention involves connecting two micro-implants with a connector plate, however the connector plate can be used to connect two or more implants as and when required according to the need of anchorage.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001196 A

(19) INDIA

(22) Date of filing of Application :10/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : SONIC-WAY SYRINGE

(51) International classification :A61C0017200000, A61G0015120000, A61C0001000000, A61C0003030000, G06F0008410000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)SAVEETHA DENTAL COLLEGE, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES, SAVEETHA UNIVERSITY
Address of Applicant :Saveetha Dental College and Hospitals, 162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)KAVITHA RAMSUNDAR
Address of Applicant :Saveetha Dental College and Hospitals, 162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

2)SARAVANA DINESH S P
Address of Applicant :Saveetha Dental College and Hospitals, 162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

3)B.NIVETHIGAA
Address of Applicant :Saveetha Dental College and Hospitals, 162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

4)DEEPAK NALLASWAMY VEERAIYAN
Address of Applicant :Saveetha Dental College and Hospitals, 162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

(57) Abstract :

Multipurpose ultrasonic scaler is a modified ultrasonic scaler with pressure, water and vibrating motion which will be mounted in the control box of the dental chair. This invention will help to optimize the space, ease of use for the dentist (very convenient), optimizing time and cost savings

No. of Pages : 6 No. of Claims : 5

(54) Title of the invention : SMART PEG FOR ORTHODONTIC MINI IMPLANTS

(51) International classification :A61C0008000000, A61C0007000000, C12Q0001688600, A61B0005000000, A61C0019040000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)SAVEETHA DENTAL COLLEGE, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES, SAVEETHA UNIVERSITY
 Address of Applicant :Saveetha Dental College and Hospitals, 162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)HARSHA.L
 Address of Applicant :Saveetha Dental College and Hospitals, 162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

2)SARAVANA DINESH S P
 Address of Applicant :Saveetha Dental College and Hospitals, 162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

3)SRI RENGALAKSHMI
 Address of Applicant :Saveetha Dental College and Hospitals, 162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

4)DEEPAK NALLASWAMY VEERAIYAN
 Address of Applicant :Saveetha Dental College and Hospitals, 162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

(57) Abstract :
 Orthodontic mini-implants have been used widely as anchorage devices and successful treatment is highly dependent on the stability of the implant. Various clinical methods have been used to assess the stability of the mini-implant but Resonance frequency analysis is the gold standard. But this holds easy for regular dental implants as smart pegs are not available for orthodontic mini-implants. The current invention aims to develop a standard smart peg that can be used for assessing the all orthodontic mini-implants.

No. of Pages : 8 No. of Claims : 6

(54) Title of the invention : PREFILLED BUFFERED LOCAL ANESTHESIA SYRINGES

(51) International classification :A61K0009000000, A61K0031167000, A61K0031245000, A61K0031165000, A61K0047100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Saveetha Dental College and Hospitals, Saveetha Institute of Medical and Technical Science, Saveetha University
 Address of Applicant :162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Krishnakanth Jaju
 Address of Applicant :162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

2)Dr. Iffat Nasim
 Address of Applicant :162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

3)Dr. Deepak Nallaswamy
 Address of Applicant :162, Poonamallee High Road, Velappanchavadi, Chennai, Tamil Nadu, India 600077. -----

(57) Abstract :

Local anesthesia is commonly used for most of the dental procedures. Problems encountered during administration of local anesthetic agents it can be painful and there might be delay in onset. Many factors influence the pain on injection, including the introduction of the needle, the pressure from the fluid distention of the tissue and the pH of the local anesthetic solution. Local anesthetic agent is unstable at its pH of 7.9 therefore, it is acidic formulations to increase its stability and shelf life. The resultant pH is typically 4.7. This, is below physiological pH, and the acidity can cause tissue irritation that may be perceived by patients as a burning pain. Buffering of local anesthetic solutions to raise the p.H of these acidic solutions results in clinical benefits such as decreased injection pain, reduced onset time and the need for less overall volume of local anesthesia. The potential benefits of buffering local anesthetic solutions prior to injection, such as decreased injection pain, faster onset, and greater depth of anesthesia, is advantageous for anesthetizing infected areas. In this patent we propose prefilled buffered local anesthetic syringes that can be readily used for buffering of local anesthetic agents.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001199 A

(19) INDIA

(22) Date of filing of Application :10/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : SOLAR OPERATED PROFICIENT SYSTEM FOR PRECISION AGRICULTURE USING IOT

<p>(51) International classification :A01G25/00</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)R.M.K College of Engineering and Technology Address of Applicant :RSM Nagar, Gummidi Poondi Taluk, Puduvoyal, Thiruvallur, Tamilnadu, India 601206. -----</p> <p>-----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.N.G.Praveena Address of Applicant :R.M.K College of Engineering and Technology, RSM Nagar, Gummidi Poondi Taluk, Puduvoyal, Thiruvallur, Tamilnadu, India 601206. -----</p> <p>2)Dr.K.Kannan Address of Applicant :R.M.K College of Engineering and Technology, RSM Nagar, Gummidi Poondi Taluk, Puduvoyal, Thiruvallur, Tamilnadu, India 601206. -----</p> <p>3)Mr.P.Sathyaraj Address of Applicant :R.M.K College of Engineering and Technology, RSM Nagar, Gummidi Poondi Taluk, Puduvoyal, Thiruvallur, Tamilnadu, India 601206. -----</p> <p>4)Ms.Samuda Prathima Address of Applicant :R.M.K College of Engineering and Technology, RSM Nagar, Gummidi Poondi Taluk, Puduvoyal, Thiruvallur, Tamilnadu, India 601206. -----</p> <p>5)Ms.C.Nithya Address of Applicant :R.M.K College of Engineering and Technology, RSM Nagar, Gummidi Poondi Taluk, Puduvoyal, Thiruvallur, Tamilnadu, India 601206. -----</p> <p>6)Ms.B.J.Komathi Address of Applicant :R.M.K College of Engineering and Technology, RSM Nagar, Gummidi Poondi Taluk, Puduvoyal, Thiruvallur, Tamilnadu, India 601206. -----</p> <p>7)Ms.S.Swetha reddy Address of Applicant :R.M.K College of Engineering and Technology, RSM Nagar, Gummidi Poondi Taluk, Puduvoyal, Thiruvallur, Tamilnadu, India 601206. -----</p>
---	---

(57) Abstract :

Abstract The purpose of this Invention is to develop an effective irrigation system for different farm fields by using IoT Controller and Renewable energy. 80% of power produced from non-renewable sources and it will create environment pollution such as noise pollution, air pollution etc. Solar operated IoT Controller based irrigation system decreases the usage of supply from the EB and it does not pollute the environment. A 24V DC supply is required to run the Motor. Flow detector is used to detect the water flow in the valve. Relay and contactor is energized by 24V and 230V respectively from IoT Controller and relay. Motor is turned ON using relay and contactor. By adopting this method the consumption of non-renewable energy resources can be minimized and renewable energy sources can be utilized which will create an eco-friendly environment it also avoids the uneven distribution of water to the lands and reduces the manual operation. The proposed system can automatically control the valve and motor at the specified time intervals as required by the farmer or based on the moisture content of the soil.

No. of Pages : 6 No. of Claims : 5

(54) Title of the invention : SEMI-AUTOMATED TIMER BASED SUPERVISION SYSTEM

(57) Abstract :

A switch is an electronic device is used to interrupt the flow of electricity or electric current. There are lot. of fire accident taken place due to the human mistakes such as turn on the electronic devices and they forgot to turn off. Major problems are overcharging of electronic gadgets, water heater, micro oven etc., usually the mobile phone is charged during night only and we will turn off morning only. It charges a battery beyond its capacity, making the battery unstable, and it could degrade overall battery life. Sometimes creates too much internal heat and cause the battery to burst or catch fire. Similarly, the water heater is on due to some work we forgot to turn off heater. It leads to some fire accident also. In order to prevent this situation proper turn OFF is required in electrical switches. That's why I designed an invented 'TIMER CIRCUIT' it will rectify the above problems. In this model, four timing switches are contained that is four time sets such as 30min, 60min, 90min and 120min. We can choose as our wise, it will automatically turn OFF the electrical switch. It is suitable for all electronic devices and also save the wastages of electrical power.

No. of Pages : 9 No. of Claims : 4

(54) Title of the invention : LINEAR PROGRAMMING IN HEURISTIC MODEL FOR OPTIMAL PLANNING OF TRAJECTORIES

<p>(51) International classification :G06Q0010040000, G06Q0010060000, G06F0011340000, G01C0021340000, G05D0001020000</p> <p>(86) International Application No Filing Date :NA :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1) Dr. A. SEETHALAKSHMY Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MATHEMATICS, SAVEETHA SCHOOL OF ENGINEERING, SIMATS, SAVEETHA NAGAR, THANDALAM, CHENNAI -602105, TAMILNADU. -----</p> <p>2)Dr. D. IRANIAN</p> <p>3)Mr. R. RAGHAVENDRAN</p> <p>4)Dr. M. ESWARA RAO</p> <p>5)Dr. M. GUNASEELAN</p> <p>6)Dr. N. SRINIVASAN</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1) Dr. A. SEETHALAKSHMY Address of Applicant : ASSOCIATE PROFESSOR, DEPARTMENT OF MATHEMATICS, SAVEETHA SCHOOL OF ENGINEERING, SIMATS, SAVEETHA NAGAR, THANDALAM, CHENNAI -602105, TAMILNADU. -----</p> <p>2)Dr. D. IRANIAN Address of Applicant :PROFESSOR & HEAD, DEPARTMENT OF MATHEMATICS, SAVEETHA SCHOOL OF ENGINEERING, SIMATS, SAVEETHA NAGAR, THANDALAM, CHENNAI -602105, TAMILNADU. -----</p> <p>3)Mr. R. RAGHAVENDRAN Address of Applicant :ASSISTANT PROFESSOR(SG), DEPARTMENT OF MATHEMATICS, SAVEETHA SCHOOL OF ENGINEERING, SIMATS, SAVEETHA NAGAR, THANDALAM, CHENNAI -602105, TAMILNADU. -----</p> <p>4)Dr. M. ESWARA RAO Address of Applicant :ASSISTANT PROFESSOR(SG), DEPARTMENT OF MATHEMATICS, SAVEETHA SCHOOL OF ENGINEERING, SIMATS, SAVEETHA NAGAR, THANDALAM, CHENNAI -602105, TAMILNADU. -----</p> <p>5)Dr. M. GUNASEELAN Address of Applicant :ASSISTANT PROFESSOR(SG), DEPARTMENT OF MATHEMATICS, SAVEETHA SCHOOL OF ENGINEERING, SIMATS, SAVEETHA NAGAR, THANDALAM, CHENNAI -602105, TAMILNADU. -----</p> <p>6)Dr. N. SRINIVASAN Address of Applicant :PROFESSOR & HEAD, DEPARTMENT OF MATHEMATICS, ST.PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH, AVADI, CHENNAI-600054, TAMIL NADU. -----</p>
---	---

(57) Abstract :

The project aims at developing a heuristic modelling using Linear Programming that aims to optimise the trajectories for optimal path planning. The study plans for an automated planning that sets the routes for specific application like robotics. The study ensures collision free space using various factors like turns, Length and execution rate. The operations are conducted in such a way that it ensures better routes, efficient memory utilisation and optimal path planning with reduced operational cost. The project increases the efficiency of computations with shorter paths in minimal number of time and lesser memory requirements.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001393 A

(19) INDIA

(22) Date of filing of Application :11/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : SMART HEATING CHAMBER BASED TDS CONTROLLER FOR RO PURIFIER

(51) International classification :H05B0006700000, F02D0035020000, C02F0001440000, H01S0003225000, H05B0006720000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)VIT-AP UNIVERSITY

Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH - INDIA 522 237. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. PURNACHAND NALLURI

Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH - INDIA 522 237. -----

2)MANEPALLI VENKATA NAGESWARA RAO

Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT, NEAR VIJAYAWADA, ANDHRA PRADESH - INDIA 522 237. -----

(57) Abstract :

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001397 A

(19) INDIA

(22) Date of filing of Application :11/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : A NOVEL INVESTIGATION AND EXTRACTION OF TRIMETHYLXATHINE FROM CAMELLIA SINENSIS WASTE

(51) International classification :A61K0036820000, A61B0017220000, A61K0031522000, C07C0227180000, A23L0002380000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. G. SRINIVASAN

Address of Applicant :PROFESSOR & HEAD, DEPARTMENT OF CHEMICAL ENGINEERING, PAAVAI ENGINEERING COLLEGE, NH-44, PAAVAI NAGAR, PACHAL, NAMAKKAL-637018, TAMILNADU, INDIA. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1) Dr. G. SRINIVASAN

Address of Applicant :PROFESSOR & HEAD, DEPARTMENT OF CHEMICAL ENGINEERING, PAAVAI ENGINEERING COLLEGE, NH-44, PAAVAI NAGAR, PACHAL, NAMAKKAL-637018, TAMILNADU, INDIA. -----

--

2)Mr. B.S. JAHAN RAJA

Address of Applicant :S/o B. SIVAKUMAR, PLOT NO.60, ELUMALAYAN NAGAR, NEAR COLLECTOR OFFICE, DINDIGUL-3, TAMIL NADU -----

3)Ms. M. DIVYA

Address of Applicant :S/o G. MURUGAVEL, 3/83, SCHOOL STRRET, T.THAKKA, THIRUPAIR(Po), ULUNDURPET(Tk), KALLAKURUCHI(Dt)-606 305 -----

(57) Abstract :

The present invention is directed to a process for preparation of Trimethylxanthine using a simple extraction process to obtain higher caffeine quantity. The process of the present invention involves a preparation of trimethylxanthine from Camellia Sinensis waste using maceration.

No. of Pages : 8 No. of Claims : 5

(54) Title of the invention : MEMORY DISPLAYING USB ADAPTOR

<p>(51) International classification :H01R0031060000, H04N0005760000, G06F0012020000, G11B0027110000, G11B0027340000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)VIT-AP UNIVERSITY Address of Applicant :VIT-AP-UNIVERSITY BESIDE AP SECRETARIAT NEAR VIJAYAWADA ANDHRA PRADESH-INDIA 522 237 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1) Mr. R. ASHWIN Address of Applicant :VIT-AP-UNIVERSITY BESIDE AP SECRETARIAT NEAR VIJAYAWADA ANDHRA PRADESH-INDIA 522 237 -----</p> <p>2)Dr. Y.V. PAVAN KUMAR Address of Applicant :VIT-AP-UNIVERSITY BESIDE AP SECRETARIAT NEAR VIJAYAWADA ANDHRA PRADESH-INDIA 522 237 -----</p> <p>3)Dr. NALLURI PURNACHAND Address of Applicant :VIT-AP-UNIVERSITY BESIDE AP SECRETARIAT NEAR VIJAYAWADA ANDHRA PRADESH-INDIA 522 237 -----</p> <p>4)Dr. D. JOHN PRADEEP Address of Applicant :VIT-AP-UNIVERSITY BESIDE AP SECRETARIAT NEAR VIJAYAWADA ANDHRA PRADESH-INDIA 522 237 -----</p>
---	--

(57) Abstract :

Storage devices are memory storing elements which read and write data in it. In this project the idea is to display the storage capacity (occupied and free space) of any storage devices (pen drive, memory card reader, etc.). Most storage devices don't have an inbuilt display showing available free space of the device. This invention focuses mainly on displaying the available free memory capacity of a storage device when it is connected to the female port of the adaptor. This adaptor is handy like a keychain. This adaptor has a USB TYPE A male port and a female port. Thus we can also use this as an extender. A cell is also present inside the adapter which gets recharged when male port is connected to the laptop, pc, etc. So, there won't be any need for power supply. Thus, reduces time and makes the effort easy of finding the available free space in the pendrive or any storage devices.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001400 A

(19) INDIA

(22) Date of filing of Application :11/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : DIGITAL LACTO COMPARATOR

<p>(51) International classification :G01N0033040000, G01N0009360000, A01J0005040000, G01N0009100000, G01N0009120000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1) VIT-AP UNIVERSITY Address of Applicant :VIT-AP UNIVERSITY BESIDE AP SECRETARIAT NEAR VIJAYAWADA ANDHRA PRADESH-INDIA 522 237 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1) Mr. V. BHARATH KUMAR Address of Applicant :VIT-AP UNIVERSITY BESIDE AP SECRETARIAT NEAR VIJAYAWADA ANDHRA PRADESH-INDIA 522 237 -----</p> <p>2)Dr. PURNACHAND NALLURI Address of Applicant :VIT-AP UNIVERSITY BESIDE AP SECRETARIAT NEAR VIJAYAWADA ANDHRA PRADESH-INDIA 522 237 -----</p> <p>3)Dr. Y.V. PAVAN KUMAR Address of Applicant :VIT-AP UNIVERSITY BESIDE AP SECRETARIAT NEAR VIJAYAWADA ANDHRA PRADESH-INDIA 522 237 -----</p>
---	---

(57) Abstract :

Lactometer is a device which is used for checking the purity of milk. It works on the principle of specific gravity. Lactometer will have some alcohol quantity in which its density is almost equal to density of pure milk. When a lactometer is immersed in the milk, the meter will float based on the difference of densities between milk and alcohol. The tip part of the lactometer will have some readings marked in order to measure the purity of milk. If the milk is pure, the reading will show minimum level and if impure, the reading level will be high. But for a layman it is difficult to understand those levels and make the judgement on purity of milk. To address this issue, this invention proposes the Digital Lacto Comparator (DLC) device. The proposed DLC device will overcome the issue by digitalizing the measurements and make the readings user friendly. The proposed system will have LCD display and LED's to visualize the purity of milk in a simple and user understandable way. Further, this DLC will have an additional feature of comparing the purity of different milk samples. This proposed DLC device helps the user to find impure (milk and provides an opportunity to buy pure milk among various other milk quantities available with the vendor.

No. of Pages : 9 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001410 A

(19) INDIA

(22) Date of filing of Application :11/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : DESIGN OF PENTA-BAND BANDPASS FILTER WITH ENHANCED SELECTIVITY EMPLOYING SQUARE COMPLEMENTARY SPLIT RING RESONATOR

(51) International classification :H01P0001203000, H01Q0001480000, H01P0007080000, C07K0016320000, H03H0007010000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)R. PARTHASARATHY

Address of Applicant :19, PERIYAR 5TH CROSS STREET, WEST GANDHI NAGAR, AVADI, CHENNAI - 600054. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)R. PARTHASARATHY

Address of Applicant :19, PERIYAR 5TH CROSS STREET, WEST GANDHI NAGAR, AVADI, CHENNAI - 600054. -----

2)Dr. P.G.V. RAMESH

Address of Applicant :8, G1, AISHWARYAM FLAT, PTC COLONY 5TH STREET, RAJAKILPAKKAM, CHENNAI, TAMIL NADU, INDIA, 600073 -----

(57) Abstract :

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : MACHINE LEARNING AND OPEN CV BASED ROBOT TO CREATE A COVID AWARENESS TO WEAR MASKS AND ALERTING SYTEM AMONG PEOPLE IN PUBLIC PLACES, PARKS, STREETS

(51) International classification :G08B0021020000, A62B0023020000, A41D0013110000, B25J0011000000, G08B0021240000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Mr. NANDAKUMAR S D
 Address of Applicant :NO:A306, SEEKARAJAPURAM, RANIPET, TAMIL NADU, INDIA, 632 515 -----
2)Dr. RAM KUMAR R P
3)Dr. RAJKUMAR P
4)Mr. SURESHKUMAR R
5)Mr. SATHISH M
6)Mr. VIVEKANANDAN V
7)Ms. ARUNA T N
8)Ms SHANTHINI M
9)Ms. JAYASHREE R
10)Ms. LATHIKA B A
11)Ms. M AMBIKA
12)Mr.R SATHISH
13)Mr.SAGAR R
14)Mr. DARRSHANSESHATHRRI K S
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Mr. NANDAKUMAR S D
 Address of Applicant :NO:A306, SEEKARAJAPURAM, RANIPET, TAMIL NADU, INDIA, 632 515 -----
2)Dr. RAM KUMAR R P
 Address of Applicant :NO:30 K A RESIDENCY, E B COLONY, COIMBATORE, TAMIL NADU, INDIA, 641 035 -----
3)Dr. RAJKUMAR P
 Address of Applicant :NO:49, 1ST STREET, SRINAGAR, SARAVANMPATTI, COIMBATORE, TAMIL NADU, INDIA, 641035 -----
4)Mr. SURESHKUMAR R
 Address of Applicant :NO:2/2G, VARADHARAJULU NAGAR, COIMBATORE, TAMIL NADU, INDIA, 641 006 -----
5)Mr. SATHISH M
 Address of Applicant :EAST STREET, VALASAKKADU, SRIMUSHNAM, CUDDALORE, TAMIL NADU, INDIA, 608 701 -----
6)Mr. VIVEKANANDAN V
 Address of Applicant :NO.5, PURUSOTHAMAN NAGAR, KARAMADAI, COIMBATORE, TAMIL NADU, INDIA, 641 104 -----
7)Ms. ARUNA T N
 Address of Applicant :NO.12/1, CHINTHAMANI NAGAR COIMBATORE, TAMIL NADU, INDIA, 641 038 -----
8)Ms SHANTHINI M
 Address of Applicant :NO:3/29, PERIYAKALLIPATTI, ERODE, TAMIL NADU, INDIA, 641 302 -----
9)Ms. JAYASHREE R
 Address of Applicant :NO:5, KARPURA NAGAR, COIMBATORE, TAMIL NADU, INDIA, 641 047 -----
10)Ms. LATHIKA B A
 Address of Applicant :NO:112/9, WEST STREET, PAPPUNAICKENPATTI, MADURAI, TAMIL NADU, INDIA, 625 708 -----
11)Ms. M AMBIKA
 Address of Applicant :NO:7/4, RAJIV GANDHI NAGAR, HOUSING UNIT ROAD, CIVIL AERODROME POST, COIMBATORE, TAMIL NADU, INDIA, 641 014 -----
12)Mr.R SATHISH
 Address of Applicant :NO:7/4, RAJIV GANDHI NAGAR, HOUSING UNIT ROAD, CIVIL AERODROME POST, COIMBATORE, TAMIL NADU, INDIA, 641 014 -----
13)Mr.SAGAR R
 Address of Applicant :312/2, METTUPALAYAM ROAD, KUMARAPURAM, COIMBATORE, TAMIL NADU, INDIA, 641 031 -----
14)Mr. DARRSHANSESHATHRRI K S
 Address of Applicant :59, UZHAVAR MARKET OPPOSITE, THIMMAIYAN PUDHUR, SATHYAMANGALAM, ERODE DISTRICT, TAMIL NADU, INDIA, 638 402 -----

(57) Abstract :
 The COVID 19 virus is extremely deadly, and we must use extreme caution while dealing with him. First and foremost, we must take simple measures such as using sanitizer and wearing masks.Our research's major purpose is to increase awareness and assist people in taking care of the people and protecting themselves against COVID 19.During this period of global quarantine, it is essential that you wear your mask and keep your distance from other individuals on the street. So, in this project we created a robot which gives awareness among the people to wear the mask and use the sanitizer properly.This robot combines a camera module with Open CV machine learning algorithm to determine who is wearing masks and who is not. The robot generates an automated voice to alert the people to wear the face masks. On the normal situation, the robot creates a voice about the general awareness among the people about the covid situation. This system can be useful to awareness workers to automate the awareness among the people.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001441 A

(19) INDIA

(22) Date of filing of Application :11/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : MACHINE LEARNING BASED PARALYTIC PATIENT HEALTH MONITORING TECHNOLOGY

(51) International classification	:A61B5/00
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1) Dr. SUJITH S
 Address of Applicant :SUDEEPAM(11/668), NEAR
 HERNAMBIKA TEMPLS, KALLEKULANGARA,
 PALAKKAD, KERALA, INDIA, 678 009 -----
2)VIKAS SRIVASTAVA
3)Dr V SASIREKHA
4)Dr. R. MURUGAVEL
Name of Applicant : NA
Address of Applicant : NA
 (72)**Name of Inventor :**
1) Dr. SUJITH S
 Address of Applicant :SUDEEPAM(11/668), NEAR
 HERNAMBIKA TEMPLS, KALLEKULANGARA,
 PALAKKAD, KERALA, INDIA, 678 009 -----
2)VIKAS SRIVASTAVA
 Address of Applicant :GALGOTIAS UNIVERSITY, PLOT
 NO.2, YAMUNA EXPY, SECTOR 17A, GREATER NOIDA,
 UTTAR PRADESH, INDIA, 203 201 -----
3)Dr V SASIREKHA
 Address of Applicant :D406, CASA GRAND ARISTO, NOBLE
 1ST STREET, ALANDUR, CHENNAI, TAMIL NADU, INDIA,
 600 016 -----
4)Dr. R. MURUGAVEL
 Address of Applicant :PROFESSOR, DEPARTMENT OF
 TECHNOLOGY MANAGEMENT, SCHOOL OF
 MECHANICAL ENGINEERING, VELLORE INSTITUTE OF
 TECHNOLOGY, VELLORE CAMPUS, TIRUVALAMROAD,
 KATPADI, VELLORE, TAMIL NADU, INDIA, 632 014 -----

(57) Abstract :

Health care is one of the most significant sectors for health surveillance in the world today. And, as we all know, the admitted patients must be appropriately cared for and treated. Patients who are elderly or unable to travel on their own are frequently given special consideration. The manual monitoring system is still complex, but contemporary technologies can assist to overcome this disadvantage. We employ several sensor types for a variety of applications. IoT technology currently reduces the number of personnel while increasing the precision of the detection, inspection, and tracking systems. Internet-connected gadgets and sensors are available. We can track and gather data remotely. This technology is used in medical applications such as IOT and sensor. An IoT-based bend sensor will be created to ensure attentive surveillance / care for highly critical and admitted ICU patients. When the patient moves, it sends a warning signal/sound to the doctors/patients in the ICU, ensuring that the patient receives prompt treatment. The new breakthrough's primary objective is to ensure that ICU patients receive proper care and supervision. This sensor will detect your patient's posture and movements while still notifying the monitoring team to provide proper treatment.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : AN INNOVATIVE IOT TECHNIQUE TO AUTOMATE THE GLUCOSE LEVEL MONITORING AND INSULIN INJECTION BY USING

(51) International classification	:A61B5/00
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)Dr. K. SASHI REKHA
 Address of Applicant :PROFESSOR, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES, SAVEETHA SCHOOL OF ENGINEERING, SIMATS SAVEETHA NAGAR, SRIPERAMBADUR TALUK, KANCHIPURAM-CHENNAI ROAD, CHENNAI -602 105 TAMIL NADU -----

2)Dr. M. RAJKUMAR
3)Dr. A.GAYATHRI
4)P.V. PRAMILA
5)E.K. SUBRAMANIAN
6)Ms. T. POOVIZHI
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :

1)Dr. K. SASHI REKHA
 Address of Applicant :PROFESSOR, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES, SAVEETHA SCHOOL OF ENGINEERING, SIMATS SAVEETHA NAGAR, SRIPERAMBADUR TALUK, KANCHIPURAM-CHENNAI ROAD, CHENNAI -602 105 TAMIL NADU -----

2)Dr. M. RAJKUMAR
 Address of Applicant :PROFESSOR, SAVEETHA SCHOOL OF ENGINEERING SIMATS, SAVEETHA NAGAR, SRIPERUMBADUR TALUK, KANCHIPURAM-CHENNAI ROAD, CHENNAI, TAMIL NADU, INDIA, 602 105 -----

3)Dr. A.GAYATHRI
 Address of Applicant :PROFESSOR, DEPARTMENT OF PROGRAMMING, INSTITUTE OF CSE, SAVEETHA SCHOOL OF ENGINEERING, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES SIMATS, SAVEETHA NAGAR, KUTHAMBAKKAM, CHENNAI, TAMIL NADU, INDIA, 602 105 -----

4)P.V. PRAMILA
 Address of Applicant : PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, SAVEETHA SCHOOL OF ENGINEERING, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES SAVEETHA NAGAR, KUTHAMBAKKAM, CHENNAI, TAMIL NADU, INDIA, 602 105 -----

5)E.K. SUBRAMANIAN
 Address of Applicant :ASSISTANT PROFESSOR(SG), DEPARTMENT OF PROGRAMMING, INSTITUTE OF COMPUTER SCIENCE AND ENGINEERING, SAVEETHA SCHOOL OF ENGINEERING SIMATS, SRIPERUMBADUR TALUK, KANCHIPURAM-CHENNAI ROAD, TAMIL NADU, INDIA, 602 105. -----

6)Ms. T. POOVIZHI
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PROGRAMMING, INSTITUTE OF COMPUTER SCIENCE AND ENGINEERING, SAVEETHA SCHOOL OF ENGINEERING SIMATS, SRIPERUMBADUR TALUK, KANCHIPURAM-CHENNAI ROAD, TAMIL NADU, INDIA, 602 105. -----

(57) Abstract :

The existing blood glucose monitoring (BGM) systems are intrusive since blood samples are collected through finger prick, which is an unpleasant process with the risk of infection. In recent years, researchers have focused more on making BGM non-invasive through the use of near infrared (NIR) photons. In order to compensate for these shortcomings, this study proposes BGM by laser light. The patient's glucose level is delivered through the cloud platform through a Wi-Fi module, and the data is transferred to the Doctor's or care taker mobile application for telemonitoring of the patient's glucose level. After receiving a series of glucose data, the patient's glucose level may be calculated using the average of the set of glucose values. When a high level of glucose is detected, the insulin injector is injected from the servo motor side. We can lively monitored through Raspberry pi camera module. Here we used machine learning algorithms and training models to predict the amount of insulin to be injected according to the patient's glucose level. So, the system will easily predict about the condition.

No. of Pages : 18 No. of Claims : 5

(54) Title of the invention : MACHINE LEARNING BASED APPROACH TO SEGMENT THE IMAGES CAPTURED USING VARIOUS MODALITIES

(51) International classification :G06K0009620000, G06T0007110000, G06N0020000000, G06T0007000000, G06T0007420000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

(71)Name of Applicant :
1)NALINAKSHI M
 Address of Applicant :ASSISTANT PROFESSOR, CSE, HOLY MARY INSTITUTE OF TECHNOLOGY AND SCIENCE, HYDERABAD. -----

2)DR. P. RAMYA
3)DR. NAVEEN CHANDRA
4)DR. S G BALAKRISHNAN
5)PUSHPA B
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)NALINAKSHI M
 Address of Applicant :ASSISTANT PROFESSOR, CSE, HOLY MARY INSTITUTE OF TECHNOLOGY AND SCIENCE, HYDERABAD. -----

2)DR. P. RAMYA
 Address of Applicant :ASSOCIATE PROFESSOR / CSE, MAHENDRA ENGINEERING COLLEGE, NAMAKKAL - 637503 -----
3)DR. NAVEEN CHANDRA
 Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF COMPUTER APPLICATION, KERAL VERMA SUBHARTI COLLEGE OF SCIENCE, SWAMI VIVEKANAND SUBHARTI UNIVERSITY, MEERUT - 250 005 -----

4)DR. S G BALAKRISHNAN
 Address of Applicant :ASSOCIATE PROFESSOR / CSE, MAHENDRA ENGINEERING COLLEGE, NAMAKKAL - 637 503 -----
5)PUSHPA B
 Address of Applicant :ASSISTANT PROFESSOR, ECE, KINGS ENGINEERING COLLEGE, CHENNAI - 602 117 -----
6)DR.S.GOPINATH
 Address of Applicant :PROFESSOR / ECE, KARPAGAM INSTITUTE OF TECHNOLOGY, COIMBATORE -----
7)SATHYA D
 Address of Applicant :ASSISTANT PROFESSOR /CSE, ERODE SENGUNTHAR ENGINEERING COLLEGE, THUDUPATHI - 638 057 -----

8)DR C SENTHILKUMAR
 Address of Applicant :ASSISTANT PROFESSOR - ECE,DR.N.G.P.INSTITUTE OF TECHNOLOGY,COIMBATORE-641048 -----
9)ANGEL ANNA PRATHIBA.E
 Address of Applicant :ASSISTANT PROFESSOR / CSE, ERODE SENGUNTHAR ENGINEERING COLLEGE, THUDUPATHI, PERUNDURAI - 638 057 -----
10)PUNITHA GOWRI R
 Address of Applicant :ASSISTANT PROFESSOR / CSE, ERODE SENGUNTHAR ENGINEERING COLLEGE, THUDUPATHI, PERUNDURAI- 638057 -----
11)PROF. DHARAMVIR
 Address of Applicant :ASSOCIATE PROFESSOR, DEPT. OF MCA , THE OXFORD COLLEGE OF ENGINEERING, BOMMANHALLI, BANGALORE- 560 068 -----
12)DR(MRS) PREM MEHTA
 Address of Applicant :DIRECTOR, EDUCATION DEPARTMENT, VD INSTITUTE OF TECHNOLOGY DELHI 86 AFF TO GGSIP UNIVERSITY, DELHI -----

(57) Abstract :
 Machine learning based approach to segment the images captured using various modalities is the proposed invention which aims at designing a framework the introduces algorithms f image segmentation. The proposed invention will segment the images that are captured using different screening modalities such as SPECT, PET, US, X-RAY, MRI and CT. The images are fed to machine learning unit and the clustered data sets is used to segment the important sections of the images using image segmentation algorithms. The resultant will be represented in the form of graphs and bar charts or any pictorial format for better analysis.

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : INTELLIGENT AUTOMATIC HEADLIGHT SWITCHING SYSTEM FOR ALL TYPE OF VEHICLES

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:B60Q0001140000, B60Q0001000000, H03K0017940000, H02J0009060000, G08G0001096200</p> <p>:202111007280 A</p> <p>:22/02/2021</p> <p>:-----</p> <p>:PCT//</p> <p>:01/01/1900</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. Address of Applicant :KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----</p> <p>-----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr. R. GOWRISHANKAR Address of Applicant :Department of ECE, KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----</p> <p>2)Mr. XAVIER RICHARDS. G Address of Applicant :KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----</p> <p>-----</p> <p>3)Mr. S. TAMILSELVAN Address of Applicant :Department of ECE, KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----</p> <p>4)Mr. BALASUBRAMANI . U Address of Applicant :Department of ECE, KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----</p> <p>5)Mr. ANURANCHAN. M Address of Applicant :Department of ECE, KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----</p> <p>6)Mr. AJAI M Address of Applicant :Department of ECE, KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----</p>
--	---	--

(57) Abstract :

Driving at night time is very difficult now days because of heavy traffic and the light intensity of the head lamps used in the modern day vehicles. This will cause huge impact in rainy days. Many systems have been proposed and tested for the solution regarding the inconvenience while driving vehicles during night time. Still there is no such system is available in the market with higher efficiency, life time and affordable cost. By considering all the factors a new intelligent automatic headlight switching system for all type of vehicles has been proposed and tested. This system is having Arduino controlled Phototransistor as a main component. Phototransistor detects the lights of opposite vehicles falls on it and finds the luminous value. Based on the luminous value the Phototransistor activates the processor and controls the beam of the host vehicle as per the requirement. According to the program, processor will activates the low beam light when the luminous value becomes low or in case of absence of light it automatically switches to original state (High Beam). It can be programmed for both analog and digital outputs. It can also synchronize with the pass light function and works efficiently for low cost vehicles with an affordable cost.

No. of Pages : 10 No. of Claims : 8

(54) Title of the invention : IoT BASED COST EFFECTIVE SMART DOOR HANDLING SYSTEM

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:H04N0007180000, G08B0013196000, G07C0009000000, G06T0003000000, G06Q0050260000</p> <p>:202121010183 A</p> <p>:10/03/2021</p> <p>:-----</p> <p>:PCT//</p> <p>:01/01/1900</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. Address of Applicant :KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr. R. GOWRISHANKAR Address of Applicant :Department of ECE, KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----</p> <p>2)Ms. M. NIVEDHA Address of Applicant :Department of ECE, KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----</p> <p>3)Ms. B. PRIYANKA Address of Applicant :Department of ECE, KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----</p> <p>4)Mr. K. TAMILARASAN Address of Applicant :KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----</p>
--	---	---

(57) Abstract :

The safe and secured living place is mandatory for all the peoples. Especially in single houses in remote areas and in city areas needs full safety. One such safety measure is surveillance camera. Due to the difficulties in installation, maintenance and high cost, it is not utilised by all the peoples. Another simple, effective and low cost method of ensuring safety is IoT based smart door handling system. This invention has the camera as an input handling module. When somebody standing in front of the door and knocks it means the camera will capture the face and the live video can be viewed by the house owner with the help of the output module having IoT application supported smart phone. The entire system has been controlled by a controller. If the house owner satisfies with the person knocks the door, then the door will be opened. From this, entry of an unnecessary persons to the house is totally restricted. The proposed invention is user friendly and cost effective.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202244000077 A

(19) INDIA

(22) Date of filing of Application :02/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : IoT BASED SMART LIQUID LEVEL INDICATOR FOR HOME AND INDUSTRIAL USAGE

(51) International classification	:G01F0023000000, G05D0009120000, B01D0047020000, F24D0017000000, G01F0023240000	(71)Name of Applicant : 1)KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. Address of Applicant :KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. ----- ----- Name of Applicant : NA Address of Applicant : NA
(31) Priority Document No	:202141004750 A	(72)Name of Inventor : 1)Mr. R. GOWRISHANKAR Address of Applicant :Department of ECE, KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----
(32) Priority Date	:03/02/2021	2)Mrs. M. GEETHA Address of Applicant :Department of ECE, KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----
(33) Name of priority country	:-----	3)Ms. S. GAYATHRI Address of Applicant :Department of ECE, KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----
(86) International Application No	:PCT//	4)Ms. G. JAGADEESHWARI Address of Applicant :Department of ECE, KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----
Filing Date	:01/01/1900	5)Ms. R. LAVANYA Address of Applicant :Department of ECE, KIT - Kalaignarkarunanidhi Institute of Technology, Coimbatore - 641 402, Tamilnadu, India. -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Water management is very essential in home and in industries now a days. To prevent wastage of water and any liquids used in the industry is desperately needed by any industry. Many such systems have been proposed and tested to help the user for the above said task. But no system provides efficient response with user friendly option and affordable cost which can be used by anybody. A system with smartness and can be used by anybody without any difficulty and with affordable cost is designed and tested for its effectiveness. It has been tested especially for maintaining and monitoring the usage and utilization of water. Using IOT based Water Level Monitoring smart system the user can get information about the level of liquid and will prevent it from over flowing, wastages and unwanted usages. A float switch has been placed in the water tank to detect the liquid level and it is controlled by a microcontroller. LCD screen, Wi-Fi modem for sending data and calling the user whenever required. A 5v 2-amp adaptor is used for power supply for the entire module. The liquid level is highlighted as colored to show the level of liquid present in the tank with the help of an Android application developed for the user. Further, a radio frequency wireless device can be used to control the motor remotely whenever necessary with the distance of 500 Meters range.

No. of Pages : 8 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202247000816 A

(19) INDIA

(22) Date of filing of Application :06/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ANTIBACTERIAL COMPOSITIONS FOR PREVENTING ANTIBIOTIC RESISTANCE IN BACTERIA BY INHIBITION OF SOS RESPONSE

(51) International classification	:A61K0045060000, A61K0031430000, C12N0001200000, C07D0413140000, A61K0031454000	(71) Name of Applicant : 1)TELSCIE GENETICS (OPC) PRIVATE LIMITED Address of Applicant :RG/8, Apollo Avenue, Bidhan Nagar, Durgapur, West Bengal Bardhaman 713 212 ----- Name of Applicant : NA
(31) Priority Document No	:201931032451	Address of Applicant : NA
(32) Priority Date	:09/02/2020	(72) Name of Inventor :
(33) Name of priority country	:-----	1)DUTTA, Shyamali
(86) International Application No	:PCT/IB2021/051024	Address of Applicant :RG/8, Apollo Avenue, Bidhan Nagar, Durgapur, West Bengal Bardhaman 713 212 -----
Filing Date	:09/02/2021	
(87) International Publication No	:WO 2021/156846	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein are compounds having formula I (MDRD1) and formula II (MDRD2) for use in preventing resistance against antibiotics in bacteria. The compounds MDRD1 and MDRD2 effectively inhibit autoprolysis of LexA protein in bacteria thereby inhibiting SOS response in bacteria and preventing resistance against antibiotics. Provided herein also are methods and compositions for preventing resistance against antibiotics in bacteria. The compounds MDRD1 and MDRD2 can also be administered along with antibiotics in humans and animals, as antibiotic adjuvants to prevent antibiotic resistance.

No. of Pages : 83 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131012559 A

(19) INDIA

(22) Date of filing of Application :23/03/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : A SURFACE DISINFECTION SYSTEM

(51) International classification :C02F0001720000, A61L0002100000, C02F0001320000, A61L0002220000, A61L0002200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR

Address of Applicant :Indian Institute of Engineering Science and Technology, Shibpur Post. Botanic Garden Howrah West Bengal India.

(72)Name of Inventor :

1)Prof. Parthasarathi Chakrabarti

2)Dr. Asok Adak

3)Sri Shib Sankar Basak

4)Dr. Ankita Pramanik

(57) Abstract :

A surface disinfection system involving an online sequential surface treatment of articles including a hydrogen peroxide fogging means followed by UVC radiation treatment means comprising a chemical fogging unit including means for spraying hydrogen peroxide on the surface to be disinfected; a UV light treatment chamber for online UVC based treatment on the hydrogen peroxide treated surface to be sanitized; a conveyor means for carrying said article to be surface treated in sequence through initially said chemical fogging unit for required spray of the hydrogen peroxide followed by said UVC light treatment for synergistically enhanced faster disinfection of surfaces of articles under advanced oxidation upon said exposure to said sequential surface treatments.

No. of Pages : 34 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131052393 A

(19) INDIA

(22) Date of filing of Application :15/11/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AN AUTOMATED MULTI-INSTANCE BASED BREAST CANCER DIAGNOSTIC SYSTEM AND METHOD

(51) International classification :G06K0009620000, G06K0009000000, G06T0007000000, G06K0009460000, A61B0006000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)NATIONAL INSTITUTE OF TECHNOLOGY, PATNA

Address of Applicant :Patna-800005, Bihar, India

(72)Name of Inventor :

1)SUBODH SRIVASTAVA

2)ABHINAV KUMAR

3)PRADEEP KUMAR

4)MANPURAN MAHTO

(57) Abstract :

An automated multi-instance based breast cancer diagnostic system (100), comprising, an image acquisition machine (1) for producing input image(s), a pre-processing module (2), a data storage module (3), processor(s) (4) with a feature extraction module (7), a classification module (5) and a mask module (6), wherein, the image(s) are multi-imaging modality breast image(s), the feature extraction module (7) extracts a plurality of region of interest based features from the image(s) for detecting the presence of cancerous cells in the image(s), the classification module (5) is a network head for analyzing the region of interest based features to define a boundary box around the cancerous cells on the image(s) and compute a class score, the mask module (6) is for yielding a mask around the cancerous cells on the image(s) by using a Renyi entropy regularization technique for enhancing precision while defining the boundary box and reducing an issue of overfitting.

No. of Pages : 37 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131053091 A

(19) INDIA

(22) Date of filing of Application :18/11/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : A MOBILE DEVICE FOR PADDY CULTIVATION

(51) International classification :B62K0003000000, A47L0009000000, B60K0007000000, G01N0021350000, A45C0005140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING (CDAC)

Address of Applicant :Plot – E-2/1, Block-GP, Sector – V, Salt Lake Electronics Complex, Bidhannagar, Kolkata - 700091, West Bengal, India.

(72)Name of Inventor :

1)DR. HENA RAY

2)ALOKESH GHOSH

3)DR. NABARUN BHATTACHARYYA

4)VINOD ATPADKAR

5)RAHUL NARALE

(57) Abstract :

The present subject matter disclosed herein relates to a mobile device (100) for paddy cultivation. The device (100) includes a housing unit (207) having an enclosed structure, wherein the housing unit (207) is mounted on a frame (208) that is covered by a sheet from all sides. A steering assembly (304) attached at the bottom side of the housing unit (207) from one end and a wheel assembly (103) attached to other end of the steering assembly (304) to support and drive the housing unit (207), wherein the wheel assembly (103) has wheels (301) stationed on legs (902).

No. of Pages : 32 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131053223 A

(19) INDIA

(22) Date of filing of Application :18/11/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : EDGE FLUORINATED AND HYDROGENATED ZIGZAG BOROPHENE NANORIBBONS FOR INTERCONNECT APPLICATIONS

(51) International classification :B82Y004000000, B82Y001000000, H01L0051000000, H01L0021020000, H01L0029778000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)NATIONAL INSTITUTE OF TECHNOLOGY, PATNA

Address of Applicant :Patna-800005, Bihar, India

(72)Name of Inventor :

1)SANGEETA SINGH

2)SAURABH KHARWAR

3)NEERAJ K. JAISWAL

(57) Abstract :

The present invention provides nanoelectronic devices i.e., ZBNRs based interconnects for 2D nanoelectronic devices i.e., BNR based quasi 1D interconnects using two- probe method based on NEGF formalism. It consists of a ZBNR divided as a central scattering region coupled with left and right electrodes. Here, the device optionally consists of a plurality of electrodes. The F-ZBNR-F configuration provides the least transmission resistance and delay based on significant values of v_f and N_{ch} . The effect of F and H atoms is analyzed using DFT-NEGF formalism to determine their electronic and transport properties. F passivated BNRs structures are thermodynamically stable with improved stability for increased concentration of F atoms. Density-of-states profile calculations and dispersion relation (E-k structures) computations indicate that F-passivated BNR is primarily metallic in nature.

No. of Pages : 34 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131056836 A

(19) INDIA

(22) Date of filing of Application :07/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SELF CLOSING VALVE RETRIEVAL SYSTEM FOR SELF CLOSING VALVE BASED GAS CYLINDERS.

(51) International classification :C02F0009000000, B23Q0016100000, B08B0003020000, G01M0003020000, B07C0005060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Jayanta Maity
Address of Applicant :12/C South Sinthee Road, Kolkata, West Bengal, INDIA- 700050
(72)**Name of Inventor :**
1)Jayanta Maity

(57) Abstract :

The present invention discloses a system for retrieving defective Self closing (SC) valves of gas cylinders comprising plurality of operational heads/stations and a rotary index table cooperative to said plurality operational heads or stations and configured to rotate in steps to move the defective SC valve sequentially from one of the operational heads/stations to another for cleaning of the defective SC valve for retrieval, testing thus cleaned SC valve for reuse in the gas cylinders and storing thus tested and properly retrieved SC valves separated from rejected SC valves.

No. of Pages : 15 No. of Claims : 8

(54) Title of the invention : AN ANTIVIRAL THERAPEUTIC HERBAL COMPOSITION FOR TREATMENT OF SARS-COV-2 AND METHOD FOR PREPARATION THEREOF

(51) International classification :A61K0036530000, A61K0036758000, A61K0036670000, A61K0036480000, A61K0036280000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :

1)Pankaj Gogoi

Address of Applicant :C/O: Mr. Mina Boruah, Bheahpara,

P.O: Dhemaji, Dhemaji 787057, Assam, India

2)Pulika Chutia

(72)Name of Inventor :

1)Pankaj Gogoi

2)Pulika Chutia

(57) Abstract :

An antiviral therapeutic herbal composition for treatment of SARS- Cov-2 is provided. The antiviral therapeutic herbal composition includes Caesalpinia bonduc (L.) Roxb, Zanthoxylum nitidum (Roxb.), Citrus aurantifolia (Christm.) Swingle, Gomphostemma niveum Hook.f, and Piper nigrum. The antiviral therapeutic herbal composition is natural and cost-effective. The antiviral therapeutic herbal composition exhibit 98% reduction in SARS-Cov-2 infection as compared to control. The present invention also provides the process for preparing the antiviral therapeutic herbal composition. The process includes solvent extraction method. The process provided by the present invention is simple and scalable.

No. of Pages : 19 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131057629 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATIC FOREST FOSTER ROBOT- AFFRO-BOT

(51) International classification :G06K0009000000, G08B0025100000, A01M0029120000, G06Q0050020000, A01G0023000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Guru Nanak Institute of Technology

Address of Applicant :Guru Nanak Institute of Technology
157/F, Nilgunj Road, Panihati, Sodepur,Kolkata-700114, West Bengal, India

(72)Name of Inventor :

1)Rikta Majumder

2)Dr. Debasree Saha

3)Susovan Dutta

4)Priyanka Dutta

5)Amit Debnath

6)Subhajit Dutta

(57) Abstract :

A flourishing life on land is the foundation for our life on this planet, people directly depend on forests for their livelihood and forest are home to more than 80% of all terrestrial species of animals, plant and insects. We are all part of the planet's ecosystem and we have caused severe damage to it through deforestation, loss of natural habitats and land degradation. In the recent few years' wildlife has decreased rapidly in spite of having conservation and preservation zones due to lack of maintenance due to wild animals and dense and vast vegetation as well as natural and man-made catastrophes. With advancement in technology robots can replace human and can reach difficult parts of the wildlife vegetation without interrupting the ecosystem and maintaining the biodiversity of the environment, the robot equipped with different sensors can also be use for surveillance for illegal trespassing as well as poaching in the wildlife vegetation. With in-built server the robot and cloud database, it can keep a record changes in the wildlife ecosystem, species populations and vegetation over a certain period of time.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131057753 A

(19) INDIA

(22) Date of filing of Application :13/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : CARBON NANOTUBES MEMBRANES: APPLICATION IN WATER PURIFICATION

(51) International classification :B01D0067000000, B01D0069120000, B01D0071680000, B82Y0030000000, B01D0069020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Guru Nanak Institute of Technology

Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur,Kolkata-700114 West Bengal, India

(72)Name of Inventor :

1)MR. SHYAMAL KUMAR ROY

2)DR. BARNALI KUNDU,

3)MR. SUMAN GHOSH

4)MS. MADHUMITA CHAKRABORTY

(57) Abstract :

The invention analyzes the fabrication of CNT membranes and their Functionalized membranes were also analyzed by breaking down the process whereby PEG is added to carboxylic CNTs in a reaction catalyzed by sulphuric acid, with such structure being found to have increased mechanical properties. A comparison between CNT based membranes and other conventional membranes used in water purification were formed. This comparison was made by considering the efficiency of the membranes in water permeability, salt rejection, as well as the overall physical and mechanical properties of the membranes. CNT based membranes were found to perform better than the conventional membranes in most categories, making them the most cost effective and useful among the membranes with room for further improvement.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131057754 A

(19) INDIA

(22) Date of filing of Application :13/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ARDUINO BASED SMART IRRIGATION SYSTEM USING IOT

(51) International classification :A01G0025160000, G06Q0050020000, A01B0079000000, H04W0076100000, G08C0017020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Guru Nanak Institute of Technology

Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India,

(72)Name of Inventor :

1)MR. SUMAN GHOSH

2)MR. SHYAMAL KUMAR ROY

3)DR. AVEEK CHATTOPADHYAYA

(57) Abstract :

An automated irrigation system for efficient water management and intruder detection system has been proposed. Soil Parameters like soil moisture, pH, Humidity are measured and the Pressure sensor and the sensed values are displayed in LCD. The intruder detection system is done with the help of PIR sensor where the birds are repelled from entering into the field. The GSM module has been used to establish a communication link between the farmer and the field. The current field status will be intimated to the farmer through SMS and also updated in the webpage. The farmer can access the server about the field condition anytime, anywhere thereby reducing the man power and time.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131057807 A

(19) INDIA

(22) Date of filing of Application :13/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AN ADIABATIC SINGLE CYLINDER DOUBLE STAGE AIR PURIFIER

(51) International classification :B60H0001320000, B67C0003220000, B01D0035020000, F04B0035000000, B26D0005120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)BIMAL CHANDRA BHOWMICK

Address of Applicant :102 NANDAN APARTMENT, HILL VIEW PARK (NORTH) SB GORAI ROAD

(72)Name of Inventor :

1)BIMAL CHANDRA BHOWMICK

2)SOURAJIT BHOWMICK

3)ARUNDHATI ROY

(57) Abstract :

The device of the present invention capable of supplying air free of corona virus and other pollutants comprises of an adiabatic heating set up, and cooling and disinfectant set up. Adiabatic heating set up includes an air compressor with automatic on off pressure switch, a high pressure cylinder insulated with good quality thermal insulator, two way normally opened solenoid valve and a one way valve. Polluted air flows through the air compressor via a one way valve and air is charged to a high pressure cylinder till the time it attains a pre-determined pressure. After attaining a pre-set pressure in the cylinder the compressor stops automatically. The on off pressure switch connected to the cylinder de-energies the two way normally opened solenoid valve and allows the air to discharge into a reservoir. After that air flows to the cylindrical container filled with hydrogen peroxide solution in water of suitable strength and glycerine for further purification. As soon as air pressure in the cylinder pressure attains a normal value the compressor starts automatically by the on off pressure switch and air starts charging the cylinder. Thus completing a cycle. Wire mesh are placed towards the bottom of the cylindrical tube so that air bubbles as they rise up and pass through the mesh break into smaller bubbles which would make good contact between air and the solution. In the process it cools the air and kills the virus if any left after adiabatic heating.

No. of Pages : 6 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131058066 A

(19) INDIA

(22) Date of filing of Application :14/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : A MACHINE LEARNING BASED INTELLIGENT TRAFFIC MANAGEMENT SYSTEM AND ITS METHOD THEREOF.”

(51) International classification :G08G0001017000, G08G0001000000, H04L0012823000, G08G0001140000, G08G0001096200

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Guru Nanak Institute of Technology

Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India,

(72)Name of Inventor :

1)Dr. Suparna Biswas

2)Palasri Dhar

3)Swagata Bhattacharya

4)Mamata Singh

5)Atrayee Gayen

6)Deepak Pandey

(57) Abstract :

The present invention relates to an Intelligent Traffic Management System. More particularly, the present invention relates to the Intelligent Traffic Management System which is based on machine learning. This invention also relates to the Intelligent Traffic Management System which detects the bike drivers without helmet and notes the bike number using ML based module. The present invention relates to the Intelligent Traffic Management System having an advantages of acquiring more effective information and facilitating determination on whether a traffic rule maintaining behavior of the driver exists and automatic and smart system to detect bikers without helmet, Automatic action of traffic rules violation and reducing of manpower.

No. of Pages : 16 No. of Claims : 4

(54) Title of the invention : “MULTI-FORTIFIED MILK POWDER: AN IMMUNE-BOOSTING MIX LOADED WITH BIO-ACTIVE COMPOUNDS TO FORTIFY DAIRY BASED FOOD VEHICLES”

(51) International classification :A23L0007100000, A23C0009152000, A23L0033185000, A23C0009158000, A23L0033160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Guru Nanak Institute of Technology

Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur,Kolkata-700114 West Bengal, India

(72)Name of Inventor :

1)Ms. Dolanchapa Sikdar

2)Dr. Shiladitya Ghosh

3)Dr. Kakali Bandyopadhyay

4)Mr. Ishon Mollick

5)Ms. Monika Paul

(57) Abstract :

Food fortification is the favourably adopted way to develop immunity boosting foodstuffs especially in times of pandemics or in general to keep a good health. Management of fruit processing waste (FPW) is a matter of concern in urban and rural areas of the developing countries. Focussing on the various residual nutrients present in FPWs, which are wasted, new inventions are attempting to recover and utilise these valuable bio-active compounds. Under the global agenda of circular economy these FPWs acquired a special research attention for their fruitful utilization and valorisation to develop multiple value-added food/feed additives. Two commonly produced FPWs in West Bengal are; juice extracted guava pulps and pumpkin seeds. These two edible FPWs contain dietary fibre, crude fat and micronutrients (minerals and polyphenols), which are desirable food fortificants and health promoting substances. For real implementation of such fortification a county-specific, compatible and popular food vehicle (Milk Powder; prepared by spray drying process of packaged whole milk) was selected to uniformly reach all layers of Indian population. These two FPWs were methodically processed and used for formulating a Multi-Fortified Milk Powder (MMP). The physico-chemical analyses confirmed that the MMP received the targeted bio-actives from both fortificants and retained those. No exclusive extraction and purification of the bio-actives have been performed; instead, they have been added along with their source materials. The fully edible nature of the two FPWs permitted this, which lessened the processing cost of the fortificant mixes. The produced MMP was used in multiple simple recipes for preparing various fortified consumer-convenient food products like health drink, custard and ice-cream/kulfi. The ‘Like very much’ grade was assigned to the MMP based on the feedback of the volunteer based sensory evaluation. Hence, it is expected that this fortified base product may acquire the eligibility to emerge as a consumer preferred popular fortificant for many Indian dairy products.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131058308 A

(19) INDIA

(22) Date of filing of Application :15/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : A SMART IRRIGATION SYSTEM WITH CONTROLLED POLLUTANTS PRESENT IN THE AIR IN RURAL AND INDUSTRIAL AREA

(51) International classification :A01G0025160000, G01N0001220000, A47G0029120000, G06Q0050020000, F23K0001000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Guru Nanak Institute of Technology

Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India,

(72)Name of Inventor :

1)Ms . Bapita Roy

2)Ms Shilpita Hazra

3)Sampreet Dey

4)Sakya Mridha

(57) Abstract :

This invention relates to a smart irrigation system and in particular, this invention relates to a smart irrigation system with controlled pollutants present in the air in Rural and Industrial Area. More particularly, this present invention relates to a smart irrigation system with controlled pollutants present in the air in Rural and Industrial Area which will enhance the overall quality and quantity of specific crops by minimum maintenance. Furthermore, this invention also relates to a smart irrigation system with controlled pollutants present in the air in Rural and Industrial Area which is simple in process, low cost for the enhanced water resources for agriculture production.

No. of Pages : 35 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131058321 A

(19) INDIA

(22) Date of filing of Application :15/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : BIOMEDICAL DATA INTEGRATION SYSTEM

(51) International classification :A61B0005000000, G06Q0050220000, G06F0016250000, G16H0080000000, G16H0010200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Guru Nanak Institute of Technology

Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India,

(72)Name of Inventor :

1)Bapita Roy

2)Paramita Banerjee

3)Anirban Saha

(57) Abstract :

The present invention relates to a biomedical data integration system. More particularly, the present invention relates to the biomedical data integration system which allows the medicos to get the real time preliminary data of the patients to follow the correct medical treatment procedure. This invention relates to the biomedical data integration system wherein the data can be shared to the doctors to start the medical procedure. The present invention relates to the biomedical data integration system wherein the medical data information of rare diseases is effectively collected, sorted, classified, summarized and cooperatively consulted and the comprehensive clinical treatment is provided for patients, and positive diagnosis reference is provided for medical institutions and professional doctors.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131058382 A

(19) INDIA

(22) Date of filing of Application :15/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : RENEWABLE ENERGY BASED FOOD VENDING CART CUM VEHICLE

(51) International classification :G07F0017000000, G07F0009100000, H02J0007350000, F21S0009030000, B62B0003040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SAMBHAB MISHRA

Address of Applicant :S/o. Dr. SUSANTA KUMAR, SIKHARPUR UPPARSAHI, C/o. PANKAJ PRATAP DEV, P/O-COLLEGE SQUARE, CUTTACK – 753003, ODISHA, INDIA.

2)SOUBHAGYA LAXMI MISHRA

3)Dr. SUSANTA KUMAR MISHRA

(72)Name of Inventor :

1)SAMBHAB MISHRA

(57) Abstract :

The present invention relates to a an intelligent food vending system, comprising ; a front portion having a storage cabin 204 for storing folded chairs and food preparation ingredients; a top portion having at least one solar panel 101 and four metal shutters coupled to the solar panel 101; at least two fans 103, 203 affixed on the lower portion of the solar panel 101; a solar coil heater mounted in the center portion of the cart; an air pump and air filter operated through DC for filling air to tyres 112, 205 included in the cart ; a sanitizer dispenser; an advanced lock 106 system with a tracking sensor; and a cycle 110 associated on the back portion of the cart consisting of piezoelectric sensors for generation of electricity.

No. of Pages : 25 No. of Claims : 8

(54) Title of the invention : MACHINE LEARNING BASED FRAUD APPS DETECTION USING SENTIMENT ANALYSIS

<p>(51) International classification :G06K0009620000, H04W0012120000, H04L0029060000, G06N0020000000, G06F0016950000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Prof (Dr.) Chanchal Kumar De Address of Applicant :Professor & Head Dept. of Electronics and Communication Engineering Haldia Institute of Technology (A Unit of ICARE) ICARE Complex, HIT Campus P.O:Hatiberia,Haldia Purba Medinipur-721657(W.B)</p> <p>2)Ms. Shreya Arora 3)Ravi Shankar 4)Dinesh Kumar 5)Dr.V.Aruna 6)Sachin Lalar 7)DIBYENDU MUKHERJEE 8)Aniket Kailas Shahade 9)Roshith P 10)Dr. Brijesh Sathian 11)Mr. Anvar Shathik J</p> <p>(72)Name of Inventor :</p> <p>1)Prof (Dr.) Chanchal Kumar De 2)Ms. Shreya Arora 3)Ravi Shankar 4)Dinesh Kumar 5)Dr.V.Aruna 6)Sachin Lalar 7)DIBYENDU MUKHERJEE 8)Aniket Kailas Shahade 9)Roshith P 10)Dr. Brijesh Sathian 11)Mr. Anvar Shathik J</p>
---	---

(57) Abstract :

In the modern world, almost no one does not own a smartphone. They've become an essential part of our daily lives. Because people rely on mobile devices and apps in almost every aspect of their lives, fake apps have emerged as one of the most dangerous cyber threats. On the internet, there are numerous fake apps. Application stores such as the Play Store, Apple Store are rife with pranks that force people to do things they don't want to do. There are now over 2.86 million mobile apps available for download in the Google Play store. This can be perplexing for some people. Because there are so many apps available, knowing which ones are legitimate and which aren't is critical. The main thing that fraud apps are interested in is fake app apps. Our system will be able to tell the person which app is best for them in order to assist them. In this paper, the Naive Bayes classifier is used to detect fake applications. People's reviews can be collected and analyzed using sentiment analysis to determine whether they are positive or negative.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131058545 A

(19) INDIA

(22) Date of filing of Application :15/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ENHANCED ANTIMICROBIAL PROPERTY OF ROOT CANAL SEALER COMPRISES GUTTA PERCHA PARTICLES AND BIOCERAMIC MATERIAL

(51) International classification :A61C0005500000, B65B0051060000, A61K0009060000, E21B0033030000, G11B0007000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Niladri Maiti

Address of Applicant :Associate Professor, Department of Endodontics, Faculty of Dental Medicine, International University of Rabat, Morocco. 11103

2)Dr. Pratik Agrawal

3)Dr. Ravi Ranjan Sinha

4)Dr. Nisha Kumar

(72)Name of Inventor :

1)Dr. Niladri Maiti

2)Dr. Pratik Agrawal

3)Dr. Ravi Ranjan Sinha

4)Dr. Nisha Kumar

(57) Abstract :

The antimicrobial property of root canal sealer which comprises gutta percha particles with mixture of resin and bio ceramic material namely Gutta flow Bioseal by Coltene. The antimicrobial property of this particular sealer is seen to be very effective after obturation of root canal with this material after following standard root canal cleaning and shaping with specially designed Hyflex EDM file system. Thus providing environment for accelerated healing in cases of periapical radiolucencies.

No. of Pages : 13 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131058583 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ROBOT FOR EXTINGUISHING A FIRE

(51) International classification :A62C0003160000, G08B0017100000, A62C0099000000, G08B0017120000, A62C0003020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Guru Nanak Institute of Technology

Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India

(72)Name of Inventor :

1)Ms. Suparna Karmakar

2)Mr. Tridib Chakraborty

3)Mr. Sudeep Ghosh

4)Mrs. Trishita Ghosh

5)Dr. Santanu Kr Sen

(57) Abstract :

The present invention relates to a Robot for Extinguishing a Fire. More particularly, the present invention relates to the Robot for Extinguishing a Fire which can detect and extinguish fire as and when required. This invention relates to Robot for Extinguishing a Fire which detects fire and raise alarm to let the people be alert and extinguishes the fire. The present invention relates to the Robot for Extinguishing a Fire wherein the robot is low in cost, simple in structure and complete in function, and can autonomously move in a simple room model to realize circular detection and elimination of a fire source; and the adopted components are simple and easy to obtain, the structure is clear, the functions are rich.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : ENERGY EFFICIENT KITCHEN CHIMNEY

(51) International classification :F24C0015200000, B60K0013040000, F28D0021000000, F25D0011000000, F26B0003300000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SANJIT KUMAR KHAN

Address of Applicant :VILL. & P.O. DHARMAPUKURIA, P.S. BONGAON, DIST. NORTH 24 PARGANAS, WEST BENGAL, PIN-743235, India.

(72)Name of Inventor :

1)SANJIT KUMAR KHAN

(57) Abstract :

The present invention relates to an energy efficient kitchen chimney which is capable of being used with both conventional (non-electrical) and modern (electrical) ovens. The chimney comprises a hopper (2) to be mounted above an oven chamber (1); a first exhaust pipe (6) connected to the oven chamber (1) and vertically mounted against a wall support (14) for releasing smoky/hot gas of oven; a second exhaust pipe (15) connected to the hopper top for releasing spicy/oily vapour of foods; a suction motor (9) configured with electronic controller and heat sensors (12, 13). The first exhaust pipe (6) is made up of heat insulating material capable of preventing heat loss of the smoky/hot gas before releasing into atmosphere. The second exhaust pipe (15) is a metal pipe having a slanting part (3) coated with insulating material, and an upper vertical part (4) externally provided with a plurality of heat exchanging flattened projections (7) and coaxially fitted inside the upper vertical portion of the first exhaust pipe (6). The slanting part (3) is collinearly aligned with an inclined front surface (5) of the hopper (2) and extended towards the upper vertical part (4) crossing the wall (14) at less than 45 degree angle with respect to a vertical plane of the wall (14). The chimney is capable of functioning with or without the motor (9)/sensors (12, 13).

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131058839 A

(19) INDIA

(22) Date of filing of Application :17/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AIR-WRITING CHARACTER RECOGNITION SYSTEM

(51) International classification :G06F0003034600, G06K0009000000, G06K0009620000, G06F0003041000, G06K0009220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Guru Nanak Institute of Technology

Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India,

(72)Name of Inventor :

1)Trishita Ghosh

2)Tridib Chakraborty

3)Suaprna Karmakar

4)Md. Mizan

5)Dr. Santanu Kr Sen

(57) Abstract :

The present invention relates to an air-writing character recognition system. More particularly, the present invention relates to the air-writing character recognition system which recognizes the handwriting and identify the correct person in any sector without touching anything. This invention also relates to the air-writing character recognition system wherein air writing is an approach for writing character or words or text with hand or finger movements in a free space without using any pen-paper or a keyboard. The present invention relates to the air-writing character recognition system having an advantages of the accuracy of aerial writing track recognition can be improved.

No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : METHOD FOR SIMULTANEOUS ESTIMATION OF CIPROFLOXACIN AND FLUOCINOLONE BY REVERSE PHASE HPLC

<p>(51) International classification :A61K0031496000, G01N0030020000, G01N0033680000, A61K0038000000, A61K0031580000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Uttam Prasad Panigrahy Address of Applicant :Assistant Professor School of Pharmacy The Neotia University, Diamond Harbour Road, Dist.: South 24 Parganas Pin: 743368 West Bengal</p> <p>2)Bhookya Raju 3)Dr T Venkatachalam 4)Mr. Tarun Chaudhary 5)Tayyaba Mahtab 6)Dr. Sridhar Babu Gummadi 7)Dr. Narahari Narayan Palei 8)Dr Rama Narsimha Reddy Anreddy 9)Dr.J.Amutha Iswarya Devi 10)Battini Srikanth</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Uttam Prasad Panigrahy 2)Bhookya Raju 3)Dr T Venkatachalam 4)Mr. Tarun Chaudhary 5)Tayyaba Mahtab 6)Dr. Sridhar Babu Gummadi 7)Dr. Narahari Narayan Palei 8)Dr Rama Narsimha Reddy Anreddy 9)Dr.J.Amutha Iswarya Devi 10)Battini Srikanth</p>
---	--

(57) Abstract :

The present disclosure relates to method for simultaneous estimation of ciprofloxacin and fluocinolone using RP-HPLC. The method involves running RP-HPLC of mixture on Develosil 5 µm ODS-HG 140 Å, LC Column 150 x 4.6 mm using mobile phase Potassium dihydrogen phosphate buffer + Dipotassium hydrogen phosphate (0.02 M, pH 5.0): acetonitrile (ratio 40:60) at flow rate of 1ml/min and run time of 15 mins. Detector used was UV-Visible spectrophotometer with absorbance measured at 258nm. the linearity range of Ciprofloxacin and Fluocinolone were found to be from, 0-60 µg/ml. Linear regression coefficient was not more than 0.998 - 0.999 respectively. The developed method is simple, accurate, precise, specific, sensitive and reproducible. Stress testing should be given importance for quantification of degraded products of drugs helps us to maintain the quality, safety and efficacy of drugs in formulations.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131059233 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : CAMFECTING DETECTION SYSTEM FOR IP SURVEILLANCE CAMERA

(51) International classification :H04N0007180000, G08B0013196000, H04N0005232000, H04N0005225000, G08B0003100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Guru Nanak Institute of Technology

Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India,

(72)Name of Inventor :

1)Mr.Tridib Chakraborty

2)Mr. Sudeep Ghosh

3)Dr. Santanu Kumar Sen

4)Mr. Soumyadipta Basu,

(57) Abstract :

This invention relates to a Camfecting detection system for IP surveillance Camera and in particular, this invention relates to a Camfecting detection system for IP surveillance Camera which is the process of attempting to hack into a person's webcam and activate it without the webcam owner's permission. More particularly, this present invention relates to the Camfecting detection system for IP surveillance Camera which will monitor the IP of the application which is trying to access the camera, and predict unauthorized and harmful access of the camera. Furthermore, this invention also relates to a Camfecting detection system for IP surveillance Camera in which the sensitivity is high; and the structure is simple and the cost is low, easy to operate and easy to popularize.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131059468 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYSTEM AND PROCESS FOR HYDROGEN SEPARATION THROUGH METAL HYDRIDE REACTORS

(51) International classification :C01B0003000000, B22F0009020000, C01B0003500000, B01D0053940000, B01D0053140000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)Indian Institute of Technology Guwahati

Address of Applicant :Amingaon, North Guwahati, Guwahati, Assam - 781039, India.

(72)Name of Inventor :

1)P. MUTHUKUMAR

2)ALOK KUMAR

(57) Abstract :

The system (300) includes one or more reactors(100) configured with embedded cooling tubes (204), that may be centrally located, SS316 sintered porous filter (206), an identical three bed space, each filled with La_{0.9}Ce_{0.1}Ni₅, LaNi₅orLaNi_{4.7}Al_{0.3} alloy, a cold and hot fluid supply line with a fluid pump, a plurality of HTF and gas valves. The process includes supplying the impure gaseous mixture in an alloy bed(208) to absorb hydrogen at a pressure from 5 bar - 20 bar and absorption temperature from 20 °C to 30 °C, flushing remaining gases at a temperature from 10 °C to 20 °C, and releasing the hydrogen at a desorption temperature from 80 °C to 95 °C.

No. of Pages : 39 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131060126 A

(19) INDIA

(22) Date of filing of Application :23/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR ACCELERATING MULTIMEDIA TRANSMISSION IN ETHERNET BASED IOT PLATFORM

(51) International classification :H04N0021436300, H04L0029060000, H04L0012280000, H04L0012413000, H04L0009080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**

1)IPSEETA NANDA

Address of Applicant :FACULTY OF INFORMATION TECHNOLOGY, GOPAL NARAYAN SINGH UNIVERSITY, JAMUHAR, ROHTAS, BIHAR-821305, INDIA

(72)**Name of Inventor :**

1)IPSEETA NANDA

(57) Abstract :

The present invention relates to a system and method for improving speed and quality of audiovisual data transmission between Ethernet source and IoT (internet of Things) devices at a minimum power consumption. The system comprises an Ethernet controller (2) adapted to be fed with Ethernet frames (data packets); at least one Ethernet core (3) coupled with the Ethernet controller (2) to receive the Ethernet frames therefrom; at least one memory core (4) being in communication with the Ethernet core (3) to convert the Ethernet frames into HDMI (High-Definition Multimedia Interface) compatible frames to be stored therein; and at least one HDMI transmitter (5) adapted to transmit the HDMI compatible frames from the memory core (4) into an HDMI receiver (6). Particularly, all components are mounted and configured on a board (100), called as system on Chip (SoC), to execute all method steps in a defined sequence to accelerate multimedia transmission in the digital electronics/IoTs.

No. of Pages : 19 No. of Claims : 4

(54) Title of the invention : THE METHODOLOGY OF FREQUENCY CHARACTERIZATION FOR MORE COMPLEX GEOMETRIES IN A DIESEL ENGINE

(51) International classification :G01M0015020000, F02B0029040000, F02D0041100000, G01M0015040000, G06F0030150000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Bibhu Prasad Ganthia

Address of Applicant :Assistant Professor, Department of Electrical Engineering,Indira Gandhi Institute of Technology, Sarang, Dhenkanal, Odisha -759146.

2)Anita Pritam

3)Asutosh Parida

4)Monalisa Mohanty

5)Dr. G T Sasetharan

6)Mrs. Reena Raj

(72)Name of Inventor :

1)Bibhu Prasad Ganthia

2)Anita Pritam

3)Asutosh Parida

4)Monalisa Mohanty

5)Dr. G T Sasetharan

6)Mrs. Reena Raj

(57) Abstract :

The Methodology of Frequency Characterization for More Complex Geometries in a Diesel Engine [07] This work uses the different methodologies developed during this work to 5 analyze and understand the different phenomena related to the filling of a supercharged engine. As a first step, it is important to validate the transfer matrix, as defined in this work, for a charge air cooler (CAC). This is done following experimental tests at the intake on the engine test bench in two configurations: with and without heat transfer. Once 10 the matrix is validated, with an analysis in the time and frequency domains, it is integrated into the GT-Power calculation code to perform a coupled simulation between the linear frequency approach and the non-linear code. The results are compared and the influence of a thermal gradient on the propagation of pressure waves through the SARs is studied. 15 Next, a more direct assessment of the fill of a supercharged engine is made by studying the effect of the length between the CAC and the intake manifold. The pressure signals from the driven engine test bench can be used to perform a vehicle simulation and highlight the acoustic tuning present on a supercharged engine. The same experimental configurations with varying lengths are studied on the engine test 20 bench and the influence on volumetric efficiency is analyzed.

No. of Pages : 24 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131060135 A

(19) INDIA

(22) Date of filing of Application :23/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : DYNAMIC INTERACTION OF DFIG AND FSIG INDUCTION WIND TURBINES CONNECTED TO THE SAME DISTRIBUTION FEEDER

<p>(51) International classification :F03D0007020000, H02J0003380000, F03D0007040000, G05B0013020000, H02J0003480000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Bibhu Prasad Ganthia Address of Applicant :Assistant Professor, Department of Electrical Engineering,Indira Gandhi Institute of Technology, Sarang, Dhenkanal, Odisha- 759146, India.</p> <p>2)Dr. Subhashree Choudhury 3)Mr.Suryalok Dash 4)Dr.Satyajit Mohanty 5)Mr.Jiban Ballav Sahu 6)Mr.Arun Kumar Rath 7)Sushree Shataroopa Mohapatra</p> <p>(72)Name of Inventor :</p> <p>1)Bibhu Prasad Ganthia 2)Dr. Subhashree Choudhury 3)Mr.Suryalok Dash 4)Dr.Satyajit Mohanty 5)Mr.Jiban Ballav Sahu 6)Mr.Arun Kumar Rath 7)Sushree Shataroopa Mohapatra</p>
---	--

(57) Abstract :

This work aimed to evaluate the dynamic interaction, during outage, of DFIG wind turbines with FSIG wind farms, when connected to the same distribution system feeder, through qualitative analysis of the dynamic behavior of DFIG. At the end of this research, it is stated that the existence of FSIG wind farms has a significant influence on the behavior of the DFIG wind turbine, presenting different intensities with the variation of the factors proposed for the evaluation. In the approach used, the influence of the FSIG park on the dynamic behavior during outages of the DFIG wind turbines was presented in different ways. Significant influences were observed in the form of: (i) reestablishment of terminal voltage – negative effect on post-fault voltage recovery, imposing under voltage levels; (ii) turbine angular velocity deviation – greater intensity of turbine velocity deviations combined with increased post-fault recovery time; (iii) more frequent actuation of the turbine blade pitch angle control system (pitch control) in the fault and post-fault periods; (iv) sags and oscillations of the turbine's mechanical torque; (v) greater amplitude of the oscillation of the generated active power.

No. of Pages : 23 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131060266 A

(19) INDIA

(22) Date of filing of Application :23/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PRODUCTIVE HUMAN RESOURCE MANAGEMENT STRATEGIES FOR LARGELY MULTICULTURAL ORGANIZATIONS

<p>(51) International classification :G06Q0010100000, G06Q0010060000, H04W0088060000, H04B0001400000, H04W0072040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Abinash Rath Address of Applicant :Assistant Professor, School of Business, The Assam Kaziranga University, NH-37, Koraikhowa, Jorhat, Assam 785006. 2)P. Shanmugha Priya 3)Dr. Sumona Bhattacharya 4)Mrs. Deepti P Bhutada 5)Dr. Mohit Kukreti 6)Dr. Mukta Goyal 7)M. Z. M. Nomani 8)Kawerinder Singh Sidhu</p> <p>(72)Name of Inventor : 1)Abinash Rath 2)P. Shanmugha Priya 3)Dr. Sumona Bhattacharya 4)Mrs. Deepti P Bhutada 5)Dr. Mohit Kukreti 6)Dr. Mukta Goyal 7)M. Z. M. Nomani 8)Kawerinder Singh Sidhu</p>
---	--

(57) Abstract :

Productive human resource management strategies for largely multicultural organizations, based on a network platform, and relates to the technical field of human resource management. The system consist of many engine like as an organization management engine, an employee management engine, a talent management engine, a talent training development engine, a performance appraisal engine, an attendance and leave management engine, a reward and punishment record management engine, a salary management engine, a report management engine, a query function engine, an authority management engine, a labor contract management engine, a recruitment management engine, and a post setting management engine. The system provided reduces the cost of human resource management, improves the level of human resource management, and enables an enterprise to carry out the human resource management effectively, conveniently, quickly, and efficiently.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131060447 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SMART MECHANICAL AUGMENTED ROTATORY TECHNOLOGY DUSTER (SMART DUSTER)

(51) International classification :G06Q0010060000, A61K0036740000, G09B0005020000, G09B0019000000, G09B0005000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Huirem Bharat Meitei

Address of Applicant :Uripok Bachaspati Maning Leikai, Imphal, Imphal West, Manipur - 795001.

(72)Name of Inventor :

1)Huirem Bharat Meitei

(57) Abstract :

Chalk and Duster is still having held its position in mostly in Rural and some area in Urban Education system of India. Even we have reached great height in different field of science and technology but we still used the conventional Blackboard teaching mechanism in Rural India education system. Numerous tools and instruments have been developed to facilitate teaching, including whiteboards, video materials, interactive whiteboards, and electronic tools. However, the Traditional “chalk-and-talk” method remains commonly practiced in schools. 70% of population of our country is in rural India which account for maximum number of students that only access to traditional way of teaching method. With this project we are focusing for better and cleaner approaches of teaching without compromising the health condition of the underprivileged section of India.

No. of Pages : 19 No. of Claims : 8

(54) Title of the invention : SYSTEM AND METHOD FOR MANAGING MEDICATION

(51) International classification :A61J0007040000, G16H0020100000, G08B0025010000, G16H0020300000, H04W0076100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Purnendu Shekhar Pandey

Address of Applicant :Department of Electronics Engineering , Indian Institute of Technology (Indian School of Mines), Dhanbad, Police Line Road, Main Campus IIT (ISM, near Rani Bandh, Hirapur, Sardar Patel Nagar, Dhanbad, Jharkhand 826004, India.

2)Azhar Shahab**3)Dr. Syed Sadique Anwer Askari****4)Shamsul Hassan****5)Vikash Kumar****6)Dr. Mohd Dilshad Ansari****7)Md. Danish Nadeem****8)Brijesh Kumar Gupta****9)Md Tauseef Iqbal Ansari****10)Chandan Kumar**

(72)Name of Inventor :

1)Purnendu Shekhar Pandey**2)Azhar Shahab****3)Dr. Syed Sadique Anwer Askari****4)Shamsul Hassan****5)Vikash Kumar****6)Dr. Mohd Dilshad Ansari****7)Md. Danish Nadeem****8)Brijesh Kumar Gupta****9)Md Tauseef Iqbal Ansari****10)Chandan Kumar**

(57) Abstract :

The invention discloses a system 100 for managing medicine in the household using a mobile application, said system 100 comprising: a processor 102, a computer readable medium 104, a display 106, a user interface 108, an external device 110, a communication network 112, and a memory communicatively coupled to the processor 102. The method of managing medicine comprising: receiving a plurality of prescription for at least one member of family by the doctors; feeding a plurality of data for each of the plurality of medicines in the mobile application; tracking said plurality of data by the user through the mobile application in real time; and receiving a reminder alarm by the user through said mobile application to take medicine, expiry date of medicine, medicine purchase date before a pre-defined time.

No. of Pages : 26 No. of Claims : 8

(54) Title of the invention : WASTE MANAGEMENT IMPROVEMENT IN CITIES USING IOT

(51) International classification :G06Q0050260000, B09B0001000000, B65F0001140000, B09B0005000000, B65F0001120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)Mr. SUPRAVA RANJAN LAHA**

Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SIKSHA 'O' ANUSANDHAN(DEEMED TO BE UNIVERSITY), KHANDAGIRI MARG, DHARAM VIHAR, JAGAMARA, BHUBANESWAR, ODISHA 751030

2)Dr. JINNAH SHEIK MOHAMED M**3)Ms. M.KAVITHA MARGRET****4)Dr. UMAVATHI M****5)Dr. NYNALASETTI KONDALA KAMESWARA RAO****6)Dr. K. KARUPPASAMY****7)Dr. BINOD KUMAR PATTANAYAK****8)Dr. SAUMENDRA PATTHAIK****9)Mr. S.SAM PETER****10)Dr. S.SRITHAR****(72)Name of Inventor :****1)Mr. SUPRAVA RANJAN LAHA****2)Dr. JINNAH SHEIK MOHAMED M****3)Ms. M.KAVITHA MARGRET****4)Dr. UMAVATHI M****5)Dr. NYNALASETTI KONDALA KAMESWARA RAO****6)Dr. K. KARUPPASAMY****7)Dr. BINOD KUMAR PATTANAYAK****8)Dr. SAUMENDRA PATTHAIK****9)Mr. S.SAM PETER****10)Dr. S.SRITHAR****(57) Abstract :**

Trash collection is one of the most basic issues looked by Municipal Corporation. While carrying out the waste administration in urban communities the greatest challenge is the administration of waste in cost ideal manner with elite execution. The current course of gathering the waste, isolating it and shipping the compartments ordinary, which is a convoluted interaction. This research manages the idea of waste the board and the perceptive framework for waste the board with higher advantages to the public. The proposed framework for waste the board will utilize different sensors for detecting the sort of waste and separate the loss in various classes and actuator to illuminate the administration to gather the waste compartment. The executives and removal of waste is a test in the present world. The unloading of trash wastes at open landfill locales is the normal strategy for removal. The removal technique for unloading in open land destinations has an unfavorable impact on the climate. Because of unloading of waste in such a likewise life of plants and creatures. This investigation will set aside cash and time compared with the all-around accessible sequence of waste management and improves the general public neatness.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131060795 A

(19) INDIA

(22) Date of filing of Application :26/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : FABRICATION OF PORTABLE DEVICE FOR EARLY/ ADVANCE STAGE DETECTION AND PREVENTION OF CITRUS CANKER OF LEMON TREE USING DEEP LEARNING AND CNN.

(51) International classification :A61K0036752000, A01G0017000000, A01G0013000000, A61Q0005120000, B60R0022480000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Sabyasachi Pattnaik

Address of Applicant :Professor Department of ICT Fakir Mohan University Balasore

2)AMRUTA MOHANTY

3)SUBHASHREE ABINASH

(72)Name of Inventor :

1)AMRUTA MOHANTY

2)SUBHASHREE ABINASH

3)Sabyasachi Pattnaik

(57) Abstract :

The bacterium *Xanthomonas axonopodis* pv. *citri* is the main cause of the disease Citrus Canker affecting the citrus species. The first detection of citrus canker was in Florida in the year 1910 on trifoliolate rootstock seedlings imported from Japan. In India, after mango and banana among fruits, citrus occupies the third position and major source of income of the farmers. Canker is one of the major constraints of citrus cultivation. It was first detected in Punjab Province (Luthra and Sattar, 1942; Bedi, 1961). Infection causes lesions on the fruits, stems and leaves of citrus trees, that includes lime, grapefruit and oranges. This disease causes severe damages in Asian Countries like India, China, Japan and Java. This harmful disease is harsher if it affects the entire farm and will not only affect the farmers income but also the economy of our country. So, it is very important to diagnose it in early stage and treat it properly. Many-a-times it is diagnosed improperly at the initial stage, as it looks similar to other fungal infection but it has different treatment. So, if any device can be made which will diagnose it properly with the help of image processing and deep learning algorithm, it will be very much beneficial to the society.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131060815 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : A SWEAT-POWERED HEADPHONE

(51) International classification :H04R0001100000, H04R0005033000, H02J0007320000, H04M0001600000, H04R0003120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Guru Nanak Institute of Technology

Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India,

(72)Name of Inventor :

1)Swagata Bhattacharya

2)Dr. Suparna Biswas

3)Dyuti Nandi

4)Sayan Majumder

5)Sayan Bhattacharjee

(57) Abstract :

The present disclosure relates to a sweat powered headphone (100) and method (200) of self-recharging the headphone. The sweat-powered headphone (100) is a wireless self-powered headphone, that comprises a U-shaped flexible neckband (102), a pair of earbuds (104), a wireless module (106), a polyester cellulose coated cloth (108), and a plurality of power cells (110).The U-shaped flexible neckband (102) provides handsfree accommodation of the headphone. The pair of earbuds (104) provides audio for hearing.The polyester coated cloth (108) comprises a thin layer of polymer. The polymer generates energy when receives droplet of sweat of user. The plurality of power cells (110) stores the generated energy for providing necessary power to operate the headphone.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131060819 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHOD OF ACCURATLY ESTIMATING DISTANCE BETWEEN TRAIN AND NEAREST RAILWAY GATE AND SYSTEM THEREOF

(51) International classification :H04L0029060000, G06F0030000000, G06F0030200000, H03M0013370000, G06F0008340000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Guru Nanak Institute of Technology

Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India,

(72)Name of Inventor :

1)Dr. Surajit Basak

2)Dr. Soumik Podder

3)Jayita Pramanik

4)Poushali Paul

5)Sneha Baidya

6)Tias Ghosh

(57) Abstract :

The present disclosure relates to a method and system for accurately estimating train and nearest railway gate. The method comprises receiving one or more inputs related to a train by an automata module and processing the one or more inputs received by a deterministic finite automata (DFA) module. The method also comprises computing dynamic behavior of a system based on the processed inputs by a unified modelling language (UML) module, and estimating the distance based on the computed behavior by a Vienna development method real time (VDM-RT) module.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131060845 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AN ENHANCED SELECTION TECHNIQUE FOR ARTIFICIAL INTELLIGENCE IN A VIRTUAL ENVIRONMENT WITH ENHANCED SAFETY AND SECURITY

(51) International classification :G06N0020000000, G06N0005040000, G06N0007000000, G06F0009500000, G06K0009620000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)BIBHU KALYAN MISHRA

Address of Applicant :ASSISTANT PROFESSOR,FOS,SRI SRI UNIVERSITY,GODI SAHI-754006,CUTTACK.

(72)Name of Inventor :

1)BIBHU KALYAN MISHRA

(57) Abstract :

The innovation is a Artificial intelligence selection method in a cloud computing environment. Using a cloud computing platform, a user can automatically and intelligently build a AI mathematic model that solves real-world problems without building a machine learning environment, selecting an AI learning algorithm, or adjusting complicated AI functions and parameters. The strategy frees AI from environmental limitations and demonstrates the benefits of cloud computing, making AI model development transparent to the user and lowering the threshold for AI application. The automatic selection technique for AI in cloud computing environment eliminates the unpredictability of model building selection, manual experience of parameter adjustment, and user challenges.

No. of Pages : 15 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131060883 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : A METHOD AND SYSTEM FOR DETERMINING DIRECTION BY AN AUTONOMOUS ROBOT

(51) International classification :G01C0021340000, G05D0001020000, G06K0009620000, G06Q0010080000, G06N0007020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Guru Nanak Institute of Technology

Address of Applicant :Guru Nanak Institute of Technology
157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India

(72)Name of Inventor :

1)Sayan Roy Chaudhuri

2)Moloy Dhar

3)Sayan Majumder

4)Sayan Mondal

5)Satish Singh

(57) Abstract :

The present disclosure relates to a method (200) and system (100) for determining direction by an autonomous robot (104).

The method comprises receiving one or more inputs in respect of a source location and a destination location and determining a shortest pathway from the source location to the destination location through accessible road or maze. The method further comprises obtaining one or more nearby obstacles by an overhead image capturing unit (130) at the time of journey on the determined shortest pathway.

The method includes acquiring a plurality of variables on basis of obtained one or more nearby obstacles in the determined shortest pathway and generating an angular direction of a maneuvering equipment as output variable by a fuzzy logic model to provide optimum path to reach destination location after circumventing the obstacle, wherein the fuzzy logic model receives the plurality of variables as input variables.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131060908 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : "A METHOD AND SYSTEM FOR MANAGING HEALTHCARE, EDUCATION AND GOVERNANCE ACTIONS FOR RURAL CITIZENS"

(51) International classification :G06Q0030060000, G06Q0010060000, G06Q0030020000, H02J0003120000, G06F0016954000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Guru Nanak Institute of Technology

Address of Applicant :157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114, West Bengal, India,

(72)Name of Inventor :

1)PALASRI DHAR

2)DR. SUNIPA ROY

3)DR. SUPARNA BISWAS

4)AYUSHA BISWAS

(57) Abstract :

The present disclosure relates to a method and a system for managing healthcare, education and governance actions for rural citizens. The method comprises registering a consumer by receiving a unique identification of the consumer and determining eligibility of the consumer for one or more categories of services, wherein the categories of services include healthcare, education and governance. The method comprises receiving request for at least one service from the consumer through a user interface, wherein the consumer selects a required service from a list of services associated with the one or more categories of services presented to the consumer via the user interface. The method includes retrieving a plurality of information from a data repository and one or more sensors with respect to a category of service in real time and dynamically generating an analytical and visual representation with one or more critical parameters based on retrieved plurality of information.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202137057363 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : MULTILAYERED FLUX-CORED SILVER BRAZING MATERIAL AND PRODUCTION METHOD THEREFOR

(51) International classification	:B23K0035300000, B23K0035360000, B23K0035020000, B23K0035400000, B23K0001000000	(71)Name of Applicant : 1)ZHENGZHOU RESEARCH INSTITUTE OF MECHANICAL ENGINEERING CO., LTD. Address of Applicant :No. 149, Science Avenue, Zhengzhou Hi-Tech Industrial Development Zone Zhengzhou, Henan 450001
(31) Priority Document No	:202110391154.8	(72)Name of Inventor :
(32) Priority Date	:12/04/2021	1)LONG, Weimin
(33) Name of priority country	:-----	2)ZHONG, Sujuan
(86) International Application No	:PCT/CN2021/114689	3)HUANG, Junlan
Filing Date	:26/08/2021	4)PEI, Yinyin
(87) International Publication No	:WO 2021/223781	5)JIU, Yongtao
(61) Patent of Addition to Application Number	:NA	6)ZHANG, Guanxing
Filing Date	:NA	7)ZHOU, Xusheng
(62) Divisional to Application Number	:NA	8)LI, Wenbin
Filing Date	:NA	

(57) Abstract :

The present invention relates to the technical field of brazing materials, and in particular to a multilayered flux-cored silver brazing material and a production method therefor. The multilayered flux-cored silver brazing material comprises an inner core layer, an intermediate layer attached to the surface of the inner core layer, and an outermost layer wrapped on the intermediate layer, the inner core layer being an alloy wire, the intermediate layer being a silver flux layer, the outermost layer being a silver-based brazing metal skin, and the melting point of the alloy wire being lower than that of the silver flux layer. In the multilayered flux-cored silver brazing material of the present invention, the melting temperature of the core alloy wire is lower than that of the flux; in a brazing process, the alloy wire first melts and then adheres to the flux, so as to cause the flux to flow out into a brazing seam in advance, thereby improving the seam filling performance and flowability of the brazing material, and solving the problems of poor fluidity, difficulty in passing through the seam, and brazing material accumulation on the front brazing side during brazing using conventional flux-cored silver brazing materials, thus improving the brazing effect.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231000814 A

(19) INDIA

(22) Date of filing of Application :06/01/2022

(43) Publication Date : 21/01/2022

(54) Title of the invention : ORGANIC LIQUID COMPOSITE FOR FACILITATING PRESERVATION OF RAW EDIBLE ITEMS

(51) International classification :A23B0004100000, A23B0007160000, A23L0003350800, B32B0003300000, H01M0010056500

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Flashbloom LLP

Address of Applicant :Mahatma Gandhi Lane, Satsang Road, Silchar, Cachar, Assam - 788007, India.

(72)Name of Inventor :

1)ROY, Subhendu Bikash

(57) Abstract :

The present disclosure provides an organic liquid composite (100) for facilitating preservation of nutritional values and enhancement of consumable life of raw edible items, the organic liquid composite being enabled to be used as any or a combination of film, emulsion, solution and mixture. The organic liquid composite (100) facilitates retention of texture, color, odor, flavor, pH value and moisture content of the raw edible items and prevent degradation of the raw edible items caused by oxidation, microbial growth and activities. The raw edible items treated with the organic liquid composite (100) cause no potential health hazard and side-effects to consumer when consumed within a predetermined time duration. The organic liquid composite (100) includes a combination of one or more antioxidant material, one or more antimicrobial material, one or more humectant material, one or more acidity regulators, one or more stabilizer materials, and carrier in a predetermined proportion.

No. of Pages : 21 No. of Claims : 6

Publication After 18 Months:

The following Patent Applications have been published under Section 11A (3) of The Patents (Amendment) Act, 2005. Any Person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act, 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011029824 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : FRAGRANT COATING COMPOSITION AND PROCESS THEREOF

(51) International classification	:C09D0013000000, B27N0003040000, C08K0005420000, B27N0003060000, B42D0025369000	(71)Name of Applicant : 1)Ultratech Cement Limited Address of Applicant :Rajashree Nagar, P.O. Kharia Khangar – 342606, Jodhpur, Rajasthan, India. Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Rajesh Singh
(32) Priority Date	:NA	2)Arvind Gupta
(33) Name of priority country	:NA	3)Purohit Vinit
(86) International Application No	:NA	4)Rakesh Kumar
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein a fragrant coating composition comprising (a) a cementitious material (b) at least one binder material (c) at least one gelling agent (d) at least one filler material and (e) at least one source of fragrance. The present invention also provides a process for manufacturing the fragrant coating composition.

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011029850 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : VEHICLE DISINFECTANT STATION AND METHOD THEREOF

(51) International classification	:G08G0001040000, B05B0001300000, A61L0002220000, A61B00900000000, B60S0003040000	(71) Name of Applicant : 1)Director Address of Applicant :Dr BR Ambedkar National Institute of technology, GT Road , Jalandhar Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sushendra Kumar Misra
(33) Name of priority country	:NA	2)Kuldeep Singh Nagla
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The apparatus is consisting of a pressurised disinfecting fluid spray system used to disinfect the vehicles entering in to environmental sensitive areas such as food processing units, animal and poultry farms and any other relevant area. A reprogrammable ratio controller adjusts the ratio of disinfecting fluid with primary fluid water and sprinkle mixed fluid over the desired parts of the vehicle. A system comprises a plural of sensors at the inlet side to estimate the profile of the vehicle where controller actuate the fluid control valves according to the shape and size the vehicle with objective to save the fluid. Operator may opt an option for automatic control and for manual control of the operation.

No. of Pages : 10 No. of Claims : 9

(54) Title of the invention : AN IMPROVED PRE-CONDITIONING METHOD OF WALNUT CRACKING FOR VALUE ADDITION OF KERNELS

(51) International classification	:A23N0005000000, A47J0043260000, A01H0006540000, A23N0005080000, A61K0036520000	(71) Name of Applicant : 1)All India Coordinated Research Project on Post-Harvest Engineering and Technology (AICRP on PHET), Division of Food Science and Technology, Sher-e-Kashmir University of Agricultural Sciences and Technology Kashmir, Jammu and Kashmir (SKUAST-K)
(31) Priority Document No	:NA	Address of Applicant :PI, AICRP on PHET, Division of Food Science and Technology, Sher-e-Kashmir University of Agricultural Sciences and Technology Kashmir, Jammu and Kashmir (SKUAST-K), Shalimar-190025, Srinagar, Jammu and Kashmir India Jammu & Kashmir India
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	
(72) Name of Inventor : 1)Syed Zameer Hussain 2)Buroojh Ammatullah 3)Monica Reshi 4)Bazila Naseer		

(57) Abstract :

An improved pre-conditioning method of walnut cracking for value addition of kernels The improved pre-conditioning method of walnut cracking is a method of Shelled Walnut Processing comprising of different soaking conditions for thin shelled walnut and medium shelled walnuts which reduced the soaking time of walnuts and minimizes the quality deterioration of kernels. This method leads to higher recovery of kernel halves and butter balls as well as reduces the percentage of broken walnut kernels in both thin shelled and medium shelled walnuts. The method comprises of the following steps: a) The thin shelled walnuts are soaked for 7.0 hrs at 25oC water temperature and medium shelled walnuts are soaked for 7.5 hrs at 37.5oC; b) The soaked walnuts are cracked manually; d) The kernel are dried in cabinet drier at a of 30-35oC till the moisture content of 4±10C is achieved in both the walnut types; e) The kernel are vacuum packed in laminates and stored at a temperature of 6-8oC.

No. of Pages : 20 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011029895 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : GEOMETRICAL MODEL AND FABRIC PRODUCTION METHOD FOR ENERGY ABSORBING WOVEN STRUCTURE WITH MULTIPLE STRUCTURAL VARIANTS

(51) International classification	:D03D0015000000, D03D0041000000, F25B0009140000, F16F0007120000, D03D0001000000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :Hauz Khas, New Delhi-110016 India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Bijoya Kumar Behera
(33) Name of priority country	:NA	2)Ghanshyam Neje
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the method of manufacturing of 3D fabrics consisting multiplicity of fabrics, woven simultaneously above one another, having different pick densities in different layers (also in different areas of the fabrics) and could be opened-up to form hollow integrated structures. The method comprises calculating weft insertion sequence, creation of weave design, then weaving of face fabrics and cross-link fabrics to produce integrated structure comprising warp and weft, and impregnation of the preform with resin to produce light-weight composite from the produced reinforcement structure.

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011029896 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : FLEXIBLE GEL-LESS ANTIBACTERIAL ELECTRODES, METHOD FOR MANUFACTURING AND SYSTEM DEPLOYING SAID ELECTRODES FOR CARDIAC MONITORING

(51) International classification	:A61B0005000000, A61N0001400000, A61M0025000000, A61B0005040800, A61B0005021500	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :Hauz Khas, New Delhi-110016, India Delhi India (72) Name of Inventor : 1)J.P. Singh 2)Yogita Maithani 3)Bijit Choudhuri
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses a flexible gel-less antibacterial electrocardiogram (ECG) electrode, an ECG monitoring system and a method for fabricating ECG electrode. The method comprises depositing a conductive layer on a silicon substrate. The conductive layer configured to connect to a patient's body to capture electrical response from the patient's body. Said conductive layer is formed by growing silver nanoarods (AGNRs) arrays over the silicon substrate by thermal evaporation of silver powder on the silicon substrate; depositing a PDMS mixture over AGNRs coated silicon substrate to form a AGNRs-PDMS film; and peeling off the AGNRs-PDMS film from the silicon substrate to produce freestanding AgNRs-PDMS film. The method further comprises forming a connector layer on the peeled-off side by providing a stud at centre of the connector layer. The connector layer, using the stud, is configured to transmit the electrical response captured from the patient's body to a monitoring system.

No. of Pages : 32 No. of Claims : 13

(54) Title of the invention : SYSTEM FOR ENHANCED PATRON-WAITER MANAGEMENT

(51) International classification	:G06Q0050120000, G08B0007060000, H04N0001000000, G08B0005220000, G08B0005020000	(71) Name of Applicant : 1)KHOSLA, Atul Address of Applicant :60 UA, Jawahar Nagar, Delhi - 110007, India. Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KHOSLA, Atul
(33) Name of priority country	:NA	2)KHOSLA, Archit
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments of the present disclosure provide systems for providing an enhanced patron-waiter management. According to an embodiment, a waiter calling transceiver is placed on each table of a restaurant that includes a visual indicator. When a set of data packets, indicating a waiter request, are sent from a portable computing device of a patron sitting on a table of the restaurant to a central receiving station (CRS), the CRS transmits a request update signal (RUS) to the transceiver that is mapped with the table. The RUS is represented on the visual indicator and indicates a status of a defined waiter request placed by the patron. Upon processing of the data packets, the CRS displays the defined waiter request on a screen that is visible to a waiter responsible for processing the defined waiter request. The transceiver includes multiple buttons such that pressing of a button generates an order request.

No. of Pages : 36 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011029959 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : NATURAL COAGULANT COMPOSITION AND METHOD OF PREPARATION THEREOF

(51) International classification	:A61K0036185000, C21B0005000000, C07D0311400000, C09B0061000000, C08L0001080000	(71) Name of Applicant : 1)Noida Institute of Engineering and Technology Address of Applicant :Plot No. - 19, Knowledge Park- 2, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Pratibha Pandey
(33) Name of priority country	:NA	2)Dr. Fahad Khan
(86) International Application No	:NA	3)Dr. Rashmi Mishra
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A natural coagulate composition comprising; i) M.oleifera leaves in the range of 5%-15% w/w; and ii) an organic solvent in the range of 75%-95% v/v. The method of preparation of the composition comprises of washing the M.oleifera leaves with distilled water followed by natural drying to obtain natural dried leaves, subjecting the natural dried leaves in hot air oven at 35°C followed by crushing to obtain fine powdered leaves, subjecting the fine powdered leaves to extraction process by using the solvent for 8-9 hrs at 35-40°C with pH ranging between 7-8 until the solvents gets transparent to obtain leaves extract, and evaporating the solvents from the leaves extract to obtain concentrated extract (i.e. M.oleifera coagulant).

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030041 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : ANTIMICROBIAL FABRIC MATERIAL AND A PROCESS FOR PREPARING FABRIC MATERIALS HAVING ANTIMICROBIAL PROPERTIES

(51) International classification	:C04B0018240000, A23L0033240000, A61K0008020000, C08B0015000000, C08L0095000000	(71) Name of Applicant : 1)MEDICFIBERS PRIVATE LIMITED Address of Applicant :2nd Floor, Block 1, Cabin 2, IIT Delhi, Hauz Khas, New Delhi- 110016, INDIA Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SHARMA, Akash
(33) Name of priority country	:NA	2)LAL, Harsh
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a process (50) for preparing antimicrobial fabric materials having antimicrobial properties. The process (50) includes mixing an antimicrobial agent with an aqueous solvent. The antimicrobial agent is selected at least one of a group consisting of ethers and phenols. An amount of 30 grams (g) to 100 grams (g) of the antimicrobial agent is added in per litre of the aqueous solvent. The process (50) further includes adding a chemical substrate to the solution, capable of enlarging the spectrum of microorganisms capable of being disinfected by the said agent. Further, the process (50) includes adding a surface-active agent to the solution for dissolving the antimicrobial agent in the aqueous solvent, thereby obtaining the antimicrobial solution. At last, the process (50) includes treating a fabric with the antimicrobial solution for adapting antimicrobial properties in the fabric materials, thereby resulting in the antimicrobial fabric.

No. of Pages : 32 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030043 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : SELECTION AND SWITCHING AMONG MULTIPLE DRIVING MODES IN AN AUTOMATIC VEHICLE BY MONO-STABLE SWITCH

(51) International classification	:H04L0027260000, G06F0003041000, B60W0050080000, F16H0059080000, B60W0010080000	(71) Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India Delhi India (72) Name of Inventor : 1)CHHABRIN PARADARSHI SAHOO 2)S. SRINIDHI
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described herein is a mode selection unit (308) implemented in transmission control unit (300) to select a driving mode from the plurality of driving modes (101, 102, 103) based on previous state and current state of the driving mode and single press command received from a mono-stable push button (201).

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030071 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : ENCLOSURE FOR AN APPARATUS FOR SOLID WASTE MANAGEMENT

(51) International classification	:C25B0009000000, B09B0003000000, B65F0001140000, C12M0001000000, A47D0013060000	(71) Name of Applicant : 1)MILLENNIUM E & C (M) SDN. BHD. Address of Applicant :Suite B-3A-08, Block B, Level 3A, Megan Avenue II, 12, Jalan Yap Kwan Seng, 50450 Kuala Lumpur, Malaysia Malaysia
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Muhammad Amirrul Bin Shukur
(33) Name of priority country	:NA	2)Harrys Anuar Bin Ahmad
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides an enclosure structure for housing an apparatus for solid waste management. The enclosure structure is in a form of a containerised unit (100) and a trailer or vehicle-mounted version (200). The enclosure structure comprises a front wall (109, 210) and a rear wall (105, 205) having at least one electrical outlet (110, 211) and utility outlet (111, 212), a first (106a, 208a) and second 10 side door (106b, 208b) having a plurality of hydraulic cylinders (112, 213) that hydraulically power the side doors with within 30 seconds, a roof top access (113, 214) having four main opening lids for enabling operational access and maintenance, a base floor (108, 209) that serves as a platform for placing the apparatus for solid waste management and electrical control panels (600) for controlling operations of the enclosure 15 structure. The enclosure structure is a rectangular shaped structure of at least 12 m in length, 2.35m in width and 2.7m in height and preferably made of mild steel, carbon steel, stainless steel, cast iron or fibreglass.

No. of Pages : 43 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030084 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : GRAPHITIZATION OF HEAT ALTERED COAL WASTE IN THE FORM OF NATURAL COKE

(51) International classification	:H01M0004587000, H01M0004020000, C01B0032205000, C01B0032200000, C04B0035520000	(71) Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Address of Applicant :ANUSANDHAN BHAWAN, 2 RAFI MARG,RAFI MARG, NEW DELHI, DELHI, INDIA.110001 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ashok Kumar Singh
(33) Name of priority country	:NA	2)Pradeep Kumar Singh
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a novel process for the preparation of synthetic graphite using the natural cokes, available in plenty as heat altered waste material in indian coal mines. Basically the steps comprise of beneficiation of bulk coal and heat altered coal waste to reduce the ash level,pulverization of beneficiated fraction and graphitization in inert atmosphere up to 2200-2800 C. the product, synthetic graphite is formed from natural coke samples in single or blends with CPC on heat treatment through transformation of its structure from granular mass to sheet structure leading towards graphitization. Subsequent changes in d & L through X-ray diffraction are observed. gradual increase in real density is also observed. The produced product is synthetic graphite having similar compositions as that of natural graphite and also its usage in the same industries where natural graphite is used.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030085 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : SILVER NANO-BASED AQUEOUS SANITIZER AGAINST PATHOGENS

(51) International classification	:A01N0059160000, B82Y0030000000, A61L0002000000, A61K0033380000, A61K0008810000	(71) Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Address of Applicant :ANUSANDHAN BHAWAN 2 RAFI MARG NEW DELHI INDIA. 110001 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)PRATHIAR SANJAY
(33) Name of priority country	:NA	2)PRAMANIK SUMIT KUMAR
(86) International Application No	:NA	3)CHAUDHURI SUSMITA
Filing Date	:NA	4)BHATTACHARYYA SANKAR
(87) International Publication No	: NA	5)YADAV MANISHA
(61) Patent of Addition to Application Number	:NA	6)KUMAR NIRAJ
Filing Date	:NA	7)MANI SHAIENDRA
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Sanitizer is a supplement or alternative to washing with soap & water. Soap is less effective for killing germs, such as virus & bacteria. However the present invention provides an aqueous well dispersed silver nano formulation that can kill 100% pathogenic bacteria & even also corona viruses including SARS-CoV-2. The present invention also provides the process for the preparation of the silver nano formulation sanitizer. The formulation of the sanitizer comprises of silver nanoparticle, glutathione, sodium meta silicate & sodium dodecyl sulfate. The formulation is safe towards human skin, remains well dispersed, does not show any sign of agglomeration even after 45 days.

No. of Pages : 16 No. of Claims : 2

(54) Title of the invention : A DIGITAL HEALTH INFORMATION SYSTEM AND A METHOD TO OPERATE THE SAME

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:G16H0010600000, G06Q0050220000, G16H0010650000, G16H0050200000, G16H0050300000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)MUSHTAQ AHMAD AGA Address of Applicant :ASPEER COLONY, CHINKIPORA, SOPORE, BARAMULLA, JAMMU AND KASHMIR, 193201, INDIA Jammu & Kashmir India</p> <p>2)RAHUL TYAGI</p> <p>(72)Name of Inventor : 1)MUSHTAQ AHMAD AGA 2)SHAKEEL HUSSAIN MIR 3)AAQIB HABIB 4)SHAFAYAT HUSSAIN RATHER 5)AQUEEL ABASS DAR 6)IMRAN NISAR HAKIEM 7)SAJAD AHMAD WANI 8)JAVID AHMAD MIR 9)KAISER FAROOQ MIR 10)JAHANGIR AHMAD 11)SHAHID UL ISLAM 12)JAFFER ALI 13)RUBEENA 14)RAHUL TYAGI 15)SWATI JAIN 16)SK THASLIM BASHA 17)SRINIVASARAO MADASANI 18)NAGARAJU PVVS</p>
--	--	--

(57) Abstract :

A digital health information system and a method is disclosed. The method includes collecting medical information of a patient from multiple clinical data sources. The method includes storing the medical information collected from the plurality of clinical data sources to maintain a personal health account associated with the patient and providing an access to the medical information maintained in the personal health account to the patient. The method includes comparing the medical information of the patient maintained in the personal health account with multiple historical medical information datasets of one or more other patients. The method includes predicting a health status of the patient over a predetermined interval of time. The method includes generating one or more visualizations representative of the health status predicted. The method includes providing one or more recommendations to the patient and enabling the patient to manage the one or more recommendations via the personal health account.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030135 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : NOVEL OPTICAL SENSOR FOR ANTIBIOTIC DETECTION

(51) International classification	:G01N0031220000, G01N0021770000, G01N0021640000, H01L0051420000, H01L0031020300	(71) Name of Applicant : 1)JAWAHARLAL NEHRU UNIVERSITY Address of Applicant :New Mehrauli Road, JNU Ring Road, NEW DELHI 110067, India Delhi India 2)NATIONAL INSTITUTE OF IMMUNOLOGY
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Pratima R Solanki
(33) Name of priority country	:NA	2)Reena K Sajwan
(86) International Application No	:NA	3)Anil Kumar
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to water soluble Quantum and enzyme free 3-mercaptopropionic acid (MPA) capped ZnS QDs (MZnS QDs) based biosensor capable of detecting quinolone antibiotics in biological sample, method and kits for detecting antibiotics.

No. of Pages : 42 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030140 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : FLUX DELIVERY FOR CONTINUOUS CASTING

(51) International classification	:B22D0011108000, B22D0011160000, B22D0011059000, B62D0006100000, H04N0021430000	(71) Name of Applicant : 1)IMERTECH SAS Address of Applicant :43 Quai de Grenelle, 75015 Paris, France. France
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)JAIN, Gaurav
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A flux delivery apparatus for delivering flux to a mold during a continuous casting process comprises: one or more flux outlets for delivering flux to the mold; one or more actuators operable to actuate movement of the one or more flux outlets relative to the mold; and a controller configured to operate the one or more actuators to move the one or more flux outlets relative to the mold.

No. of Pages : 42 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030172 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : FLEXIBLE ELECTRODE FOR MICROBIAL FUEL CELL

(51) International classification	:H01M0008160000, H01M0004480000, H01M0008103900, H01M0010460000, H01H0029000000	(71) Name of Applicant : 1)Indian Institute of Technology Delhi Address of Applicant :Hauz Khas, New Delhi - 110016, India. Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ALI, Syed Wazed
(33) Name of priority country	:NA	2)AHAMMAD, Shaikh Ziauddin
(86) International Application No	:NA	3)SHAHADAT, Md
Filing Date	:NA	4)KANDPAL, Rahul
(87) International Publication No	: NA	5)GADKARI, Rahul R.
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to an electrode (100) for a microbial fuel cell, said electrode (100) comprising a flexible substrate (106). A first layer (104) of a first material deposited over the substrate (106). The first material is deposited by dipping the substrate in a solution comprising the first material. A second layer (102) of a polymerised second material deposited over the first layer (104). The second material is electrochemically polymerised and deposited over the first layer using alternating current.

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030173 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : TEMPERATURE REGULATING DEVICE

(51) International classification	:F24F0005000000, F28D0020000000, H01L0021670000, F25B0021040000, B01D0035180000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SHARMA, Nikhil
(33) Name of priority country	:NA	2)PARMAR, Nitesh
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses a temperature regulating device 100 that can regulate temperature of a region 140 by performing heating and cooling of air, and supplying it at the region 140. The temperature regulating device 100 can include air flow units 102 that can enable flow of air into pipes 106, through pipes 106 the air can flow to metallic tubes 110 that can be installed inside earth's surface 120 and underground tank 206. The air can get heated or cooled due to heat exchange taking place with said surface 120 and said tank 206, and the heated/ cooled air can be finally supplied at the region 140 to regulate temperature of the region 140.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030174 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : TRAINING/LEARNING SYSTEM

(51) International classification	:H04L0029080000, G06F0015167000, H01Q0001240000, G06Q0010100000, H04N0007173000	(71) Name of Applicant : 1)UJWALA CHERIAN Address of Applicant :Flat # 17, Ground Floor, Premium Floors, Street G-5, Vatika India Next, Sector - 82, Gurgaon - 122051, Haryana, India. Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)UJWALA CHERIAN
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a training/learning system that further includes a processor can be positioned in a server. A memory being operatively coupled in the server and storing a set of instructions which when executed by the processor causes the system to transmit to a client node device a first set of data packets. Upon receipt of a second set of data packets from the client node device, the system dynamically transmits a third set of data packets to a second client node device. In response to receiving the third set of data packets a second user transmits a fourth set of data packets from the second client node device. Upon receipt of a fourth set of data packets from the second client node device, a fifth set of data packets transmitted to the user.

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030184 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : "DISINFECTION BOX FOR SANITIZATION OF HANDHELD ITEMS"

(51) International classification	:A61L0002100000, C02F0001320000, A61L0002000000, A61L0002220000, A61L0009200000	(71) Name of Applicant : 1)AKHIL SINGH CHARAK Address of Applicant :697/7, Sector E, Sainik Colony, Jammu, Jammu and Kashmir, 180(01)1 Jammu & Kashmir India 2)SUJIT KISHORE NARAIN
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)AKHIL SINGH CHARAK
(33) Name of priority country	:NA	2)SUJIT KISHORE NARAIN
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A disinfection box for sanitization of handheld items carried by an individual is disclosed, comprising of an enclosure or a box with a tray to accommodate the handheld items with a closable door, a UV-C emission source in the form of UV lamps, an ON/OFF button, a heating blower, a sprayer, microprocessor controller and a power source, where the enclosure or a box which is coated with virucidal coating, can hold the items which are to be carried into a safe zone which are sanitized using a combination of UV-C rays, chemicals, heat, and virucidal/germicidal spray, powered by a power source. The UV-C rays can sanitize handheld items such as letters, electronic items such as smartphones, watches, letters, bags, keys, purse, currency, masks and so forth, is the best option in light of the need for renewable methods for disinfection.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030244 A

(19) INDIA

(22) Date of filing of Application :16/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : VALUE ADDED NUTRITIOUS READY-TO-PREPARE FOOD ITEMS AND THE PROCESS

(51) International classification :A23L0007100000,
A23L0019000000,
A23L0011000000,
A23L0025000000,
A23L0033000000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Prof. Ila Joshi
Address of Applicant :Dept. of Home Science, ICG Campus,
IIS deemed to be University, Mansarovar, Jaipur Rajasthan India
2)IIS deemed to be University
3)Vyoma Agarwal

(72)Name of Inventor :
1)Vyoma Agarwal
2)Prof. Ila Joshi

(57) Abstract :

A nutritious ready-to-prepare food item having combination of foods from all food groups which are processed by various techniques i.e. soaking, malting, dehydrating and roasting to increase nutrient bioavailability and shelf life without the use of preservatives. Cereals, pulses, fruits, vegetables, nuts, oilseeds and milk products have been used to prepare the products, which makes the products protein rich, fibre rich, micronutrient and antioxidant rich. The products are prepared without the use of fat and oil as the ingredients were dry roasted. This also increases the shelf life by decreasing the chances of rancidity. Processing techniques of dehydration and roasting, increase the shelf life by decreasing the moisture content and microbial activity. A combination of cereals and pulses has a symbiotic effect and supplements the amino acid profile of each other. Pulses are deficient in one of the amino acids (methionine) but rich in another amino acid lysine, whereas, cereals have high methionine and low lysine content. Eating pulses with cereals creates a complete protein, containing amino acids that the body cannot produce itself. The products can be easily prepared by addition of water and short cooking as the processing techniques used reduce the cooking time. The products can be used for any age group though they are of maximum benefit for elderly people who may be physically disabled or do not know how to cook.

No. of Pages : 29 No. of Claims : 5

(54) Title of the invention : A SYSTEM AND METHOD FOR SECURING ONLINE CLASSES THROUGH VIDEO AND AUDIO ANALYTICS

(51) International classification	:G06K0009000000, H04N0021422300, H04N0021442000, G06Q0050200000, G09B0007000000	(71) Name of Applicant : 1)Ankur Gupta Address of Applicant :759, Denis Gate, Residency Road, Jammu -180001 Jammu & Kashmir India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ankur Gupta
(33) Name of priority country	:NA	2)Purnendu Prabhat
(86) International Application No	:NA	3)Sahil Sawhney
Filing Date	:NA	4)Sahil Sawhney
(87) International Publication No	: NA	5)Rishi Gupta
(61) Patent of Addition to Application Number	:NA	6)Karan Khajuria
Filing Date	:NA	7)Rohan Gupta
(62) Divisional to Application Number	:NA	8)Aryan Gupta
Filing Date	:NA	

(57) Abstract :

Online classes have become the norm especially during the Covid-19 pandemic. However, prevalent use of online Learning Management Systems (LMSs) has exposed serious security flaws in existing platforms. These include allowing unauthorized users to join online classes, pass unsavory comments and make obscene gestures. The proposed system and method overcome these limitations by providing comprehensive security mechanisms and content monitoring capabilities in online classes, empowering the teachers. Facial recognition capabilities preclude unregistered and unauthorized students from entering the online class. The ability to capture and analyze the video-audio stream of the participating students enables enhanced content monitoring enabling the teacher to quickly pinpoint students who violate the class norms in any manner. Further, the proposed invention introduces capability to automatically disable video stream of any student if any inappropriate gestures or images are detected in the video frames. Students whose audio streams contain excessive background noise are auto muted to prevent disturbance to the class. Finally, class and student-level analytics pertaining to student attendance, attentiveness and engagement are computed based on analysis of the audio-video streams.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030326 A

(19) INDIA

(22) Date of filing of Application :16/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : COMPACT NON CONTACT THERMOMETER

(51) International classification	:G01J0005020000, G01J0005080000, G01J0005000000, G01J0005040000, A61B0005000000	(71) Name of Applicant : 1)LAKSHYA LALIT SHARMA Address of Applicant :C-77 ROHIT APARTMENT, PLOT- 30, SEC-10, DWARKA, NEW DELHI, INDIA. 110075 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)LAKSHYA LALIT SHARMA
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Invention in one embodiment relates to a compact non-contact thermometer device, consisting of an Infrared sensor unit providing output signal proportional to infrared energy in front of it. a Display unit to display temperature value. a Processing unit interfaced with infrared sensor unit and display unit, configured to communicate with infrared sensor unit to receive its output signal, processes the signal and communicate with display unit to send final digital data to it for display.

No. of Pages : 8 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030405 A

(19) INDIA

(22) Date of filing of Application :16/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : HEALTH MONITORING SYSTEM FOR PREGNANT WOMEN AND FETUS

(51) International classification	:A61B0005024000, A61B0005000000, G08B0025010000, A61B0005045200, A61B0005021000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)RANI, Shalli
(33) Name of priority country	:NA	2)KAUR, Harmeet
(86) International Application No	:NA	3)RAMKUMAR, K. R.
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure pertains to a health monitoring system for pregnant women and fetus. The system 100 includes an authentication unit 102 configured to extract authenticating attributes associated with the pregnant women, and an examining entity, and correspondingly generate a first set of signals, a set of health monitoring units 104 configured to detect physiological attributes of the pregnant women and associated fetus, and correspondingly generate a second set of signals, and where the set of monitoring units is configured to operate in first mode and a second mode, and a processing unit 106. The processing unit 106 configured to extract, verify, compare, and generate a set of alert signals, based on the extracted, verified and compared first set of signals and the second set of signals. The system 100 is configured to communicatively couple with one or more emergency services to provide medical assistance to the pregnant women 302-1 based on the generated set of alert signals.

No. of Pages : 40 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030406 A

(19) INDIA

(22) Date of filing of Application :16/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR DETECTING RETINOPATHY IN AN EYE OF A SUBJECT

(51) International classification	:G06K0009460000, G06K0009000000, A61B0005000000, A61B0003000000, G16H0050300000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)NAGPAL, Dimple
(33) Name of priority country	:NA	2)BADOTRA, Sumit
(86) International Application No	:NA	3)PANDA, Surya Narayan
Filing Date	:NA	4)DAS, Prasenjit
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a system 100 for detecting retinopathy in an eye of a subject, the system comprising: an image capturing device 102 configured to obtain one or more images of the eye of the subject; and a processor 104 operatively coupled with a memory, said memory storing instructions executable by the processor to analyse the received one or more images to extract a set of attributes from the one or more images; classify the extracted set of attributes, and extract, from the extracted set of attributes, a set of values for the extracted set of attributes, wherein, based on a combination of classification of the extracted attributes and a deviation of the extracted set of values for the extracted set of attributes from a reference set of values, the processor is configured to determine a diagnosis for the eye of the subject.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030413 A

(19) INDIA

(22) Date of filing of Application :16/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : DATA ERASURE OF NETWORK DEVICES

(51) International classification	:G11C0016160000, G11B0005024000, G06F0015167000, E21B0033120000, G06F0021550000	(71) Name of Applicant : 1)Blanco Technology Group IP Oy Address of Applicant :Lansikatu 15, 80110 Joensuu, Finland Finland
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SHAH, Mitesh
(33) Name of priority country	:NA	2)VALTONEN, Markku
(86) International Application No	:NA	3)HADDEJ, Dhia Ben
Filing Date	:NA	4)KAKADE, Chandrashekhar
(87) International Publication No	: NA	5)NEHERE, Akash
(61) Patent of Addition to Application Number	:NA	6)BIDKAR, Prasad
Filing Date	:NA	7)PATHEKAR, Pratibha
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for use in erasing data stored in the memory of a network device comprises performing a data erasure procedure to erase stored data from the memory of the network device and requesting data from the memory of the network device after completion of the data erasure procedure or accessing the memory of the network device after completion of the data erasure procedure. The method further comprises determining the outcome of the data erasure procedure based at least in part on: the results of a comparison between a response received from the network device in reply to the request for data and an expected response which is indicative of a successful erasure of the memory of the network device; or the results of a comparison between any contents of the memory of the network device after completion of the data erasure procedure and expected contents of the memory of the network device after completion of the data erasure procedure which are indicative of a successful erasure of the memory of the network device. The method may comprise erasing all accessible data stored in the memory of the network device.

No. of Pages : 43 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030460 A

(19) INDIA

(22) Date of filing of Application :16/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : ANTI-HYPERCHOLESTEROLEMIA COMPOSITION AND A METHOD OF MANUFACTURING THE SAME

(51) International classification	:G03F0007023000, H05K0003060000, G03F0007039000, A23L0029200000, B01J0020300000	(71) Name of Applicant : 1)NBI Biosciences Private Limited Address of Applicant :1009A, Magnolias, Golf Course Road, Sector 42 Gurgaon Haryana India 122009 Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr Richa Shrivastava
(33) Name of priority country	:NA	2)Dr Kamireddy Kiran
(86) International Application No	:NA	3)Mr. Atul Kumar
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to an anti-hypercholesterolemia composition and a method of manufacturing the composition. Accordingly, the present invention discloses the composition to lower the cholesterol formation and a method of manufacturing the same. The anti-hypercholesterolemia composition comprises Basella alba leaf extract in the range of 30 to 70 wt %, red yeast rice extract in the range of 5 to 50 wt %, squalene extract in the range of 1 to 30 wt %, cordyceps extract in the range of 10 to 70 wt % and at least one nutraceutically or pharmaceutically acceptable excipient in the range of 0.01 to 50 wt %.

No. of Pages : 55 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030468 A

(19) INDIA

(22) Date of filing of Application :16/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : "A VARIABLE INTENSITY ELECTROMAGNETIC DISINFECTION DEVICE"

(51) International classification	:H05B0003000000, A61L0002100000, A61N0005060000, C02F0001467000, A61L0002040000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ashish Mani
(33) Name of priority country	:NA	2)Prateek Pandya
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a variable intensity electromagnetic disinfection device. The variable intensity electromagnetic disinfection device comprises an Ultraviolet UV light source 2, a rotatable stage, an infrared source, an inlet and outlet fans 3, a housing adapted to place all electronic hardware according to a predefined size required. Further, the UV light source 2 is configured to provide high energy by variable electromagnetic intensity. The rotatable stage is provided to keep user item, which needs to be disinfected and in addition, the infrared source is provided for increasing the temperature inside the housing to kill the virus, microbes and the like.

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : VEHICLES AUTOMOBILES POLLUTION CONTROLKIT

(51) International classification	:C02F0001000000, A01K0063040000, F24F0006000000, B01D0050000000, E04H0001120000	(71) Name of Applicant : 1)MOHD. SHAH ALAM GHAZI Address of Applicant :MOHL. INAYAT GANJ TEHSIL. ATRAULI (ALIGARH) UP INDIA.202280 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)MOHD. SHAH ALAM GHAZI
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

We convert polluted smoke to clean smoke with the help of our three inventions. invention 1st Smoke coming out from the silencer of Truck 1 bus 1 mini bus etc can be easily clean with the help of our smoke pollution control chamber kit 1 we will provide smoke pollution control chamber kit in the between portion of the silencer . Smoke pollution control chamber have four chamber 1st 1 2"d, 3rd and 4th. 1st hollow pipe chamber attach to silencer 1 in 2"d rectangular hollow pipe 1 we spray water on polluted smoke with the help of water smoke pressure with nozzle. In 3rd chamber 1 we clean.the polluted smoke with shower water tank I and rectangular vertical filter pad with steel iron curly rings smoke filter pad .When polluted smoke go into 2"d 1 3rd portion 1 then we provide water spray on the polluted smoke and convert it to clean smoke I and this smoke go through .4th portion I In 4th portion smoke filter pad with minor holes pad are provide . Smoke go through 4th portion filter pad and convert into clean smoke 1 than this clean smoke go out into the atmosphere with less temperature . With the help of water tank with O.C current water lift pump , we transfer water with hollow pipe into the 2"d and 3rd portion . in bottom portion 3rd and 4th we provide open cut space the dirty water is transfer to the bottom water collector tank , In collector dirty water tank we providing a hollow pipe in the bottom below portion of collector water tank, and 2"d hollow pipe mouth attach to water tank 1st portion, in water tank middle portion minor holes mesh is provide for water filter pad . Rectangular water tank have 1st portion dirty water and 2"d portion clean water . two iron cap .is provide in water tank, 1st top portion iron cap fill the water and 2"d below water cap discharge the dirty and clean water cap. Invention 2nd, we side attached storage water tank to portion 3rd, and provide two D.C motor , and convert polluted smoke to clean smoke. we do some modification in this project, and it is like invention 1st .Invention 3rd, In this invention we provide storage water tank on above pollution control kit 3rd portion chambr 1 we provide two D.C motor 1 and we do some changes in storage water tank with 3rd top portion . this Invention is like invention 1st procedure .

No. of Pages : 26 No. of Claims : 9

(54) Title of the invention : A READY TO USE BIODEGRADABLE AND BIOCOMPATIBLE CELL-BASED NERVE CONDUIT FOR NERVE INJURY AND A METHOD OF PREPARATION THEREOF

(51) International classification	:A61L0027360000, A61L0027260000, A61L0027380000, A61L0027540000, A61L0027480000	(71) Name of Applicant : 1)DATT MEDIPRODUCTS PRIVATE LIMITED Address of Applicant :56, Community Centre, East of Kailash, New Delhi-110065, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Rajan Datt
(33) Name of priority country	:NA	2)Dr. Siddharth Pandey
(86) International Application No	:NA	3)Dr. Poonam Meena
Filing Date	:NA	4)Dr. Mukesh Kumar
(87) International Publication No	: NA	5)Nitin Khatri
(61) Patent of Addition to Application Number	:NA	6)Rakesh Kumar Nagar
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a novel and unique three-dimensional biocompatible cell culture system which can be used to culture a variety of different cells (Human mesenchymal stem cells, Human Schwann cells, Nerve cells, Schwann cells and nerve cells differentiated from mesenchymal stem cells in vitro) in vitro for continued periods of time. In the present invention, mesenchymal stem cells (MSCs derived from bone marrow or umbilical cord) Schwann cells and neuronal cells (differentiated from mesenchymal stem cells) are inoculated and grown on a pre-established Polyelectrolyte Complex (PEC) scaffold or matrix or conduit made up of gelatin, chitosan, collagen and hyaluronic acid. The developed tissue constructs contain cells, growth factors, cytokines and other regulatory factors secreted by cells and can be prepared in 12 days. The developed bioengineered tissue constructs help in the repair and regeneration of neurons and restore their function in a synergistic manner. Developed tissue construct useful in the cost effective treatment of peripheral nerve injury, spinal cord injury or any other type nerve injury. The developed cell-based nerve conduit will helpful in the restoration of motor and sensory function of damaged nerve in human.

No. of Pages : 47 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030492 A

(19) INDIA

(22) Date of filing of Application :17/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : PROCESS FOR THE PREPARATION OF AMORPHOUS TRISODIUM VALSARTAN: SACUBITRIL

(51) International classification	:C07D0257040000, A61K0031410000, C07C0233470000, A61K0031225000, A61P0009040000	(71) Name of Applicant : 1)Mankind Pharma Ltd. Address of Applicant :208, Okhla Industrial Estate Phase III, New Delhi India - 110020 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)CHATURVEDI, VIVEK
(33) Name of priority country	:NA	2)BHASKAR, Bhuwan
(86) International Application No	:NA	3)BANSAL, Amit
Filing Date	:NA	4)KUMAR, Anil
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a process for the preparation of amorphous trisodium valsartan: sacubitril, and composition thereof.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030498 A

(19) INDIA

(22) Date of filing of Application :17/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : COLUMN STRUCTURE FOR CARTON LIFT ARRANGEMENT

(51) International classification :F16M0011180000,
B01J0019320000,
H01L0027280000,
E04C0003360000,
E04C0003320000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Addverb Technologies Private Limited

Address of Applicant :Industrial Plot No. 108, Block D, Sector
2, Gautam Buddha Nagar, Uttar Pradesh, 201301 Uttar Pradesh
India

(72)Name of Inventor :

1)Ashish Chauhan

2)Binay Kumar Sharma

(57) Abstract :

A column structure for a carton lift arrangement used in a warehouse is provided. The column structure comprises at least two channel members arranged generally vertically and substantially parallel to each other. The column structure further comprises a plurality of connectors. Each of the plurality of connectors has two ends. Each of the plurality of connectors is bolted from one of the two ends to one of the at least two channel members and from other of the two ends to other of the at least two channel members, to rigidly connect the at least two channel members with each other. In the column structure, each of the at least two channel members has a generally Omega-shaped cross-section profile with at least ten number of bends therein.

No. of Pages : 36 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030611 A

(19) INDIA

(22) Date of filing of Application :17/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : A BIOACTIVECOMPOSITE DEPOSITED OSTEOIMPLANT AND A PROCESS FOR PREPARING THE SAME

(51) International classification	:A61F0002280000, A61L0027460000, A61F0002300000, A61L0027540000, A61K0031704800	(71) Name of Applicant : 1)Indian Council Of Medical Research Address of Applicant :V. Ramalingaswami Bhawan, Ansari Nagar, New Delhi - 110029, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)RAJAN, Mariappan
(33) Name of priority country	:NA	2)PRABAKARAN, Selvakani
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a bioactive composite and a process for preparing the same. The composite comprises Quercetin impregnated Zr, Sr, and Si substituted HAP composite. The present disclosure also provides an osteoimplant for osteoblast proliferation in bone tissue substitution/repair and a process for its preparation.

No. of Pages : 26 No. of Claims : 11

(54) Title of the invention : COMPLETELY AUTOMATIC CONTACT LESS AND TOUCH FREE LIQUID DISPENSING DEVICE

(51) International classification	:G10L0015220000, B05B0017060000, B05B0007080000, A61L0009140000, H04M0001270000	(71) Name of Applicant : 1)ANSHU SHARMA Address of Applicant :Senior Lecturer Govt. Polytechnic College, Mohali, Sector 115, Khunimajra, Punjab Pincode – 140301, India Permanent Address - House No. 840, Sector 10, Panchkula, Haryana. Pincode – 134109 Mobile No.- 9914142915 E-mail – anshusharma0107@gmail.com Haryana India
(31) Priority Document No	:NA	2)ARYAN SHARMA (72) Name of Inventor : 1)ANSHU SHARMA 2)ARYAN SHARMA
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Present invention consists of a small container filled with small amount of sanitizer (4) is fitted just like watch case, bottle or pen. Voice recognition module (1) is the heart of the invention. It can record and store multiple commands. Change of user needs new set of commands and that is easily done using three tactile switches (SW1, SW2 and SW3) fitted on the device. An ultrasonic spray nozzle (3) is connected with container such that when the micro controller (2) generates command to dispense the sanitizer, Voice recognition module (1) recognizes the command and sanitizer/liquid is dispensed in a touchless manner. Sanitizer can be refilled easily through a separate small opening (mouth) provided in the container.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030667 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYNERGISTIC AGROCHEMICAL COMPOSITION FOR ATHROPOD CONTROL

(51) International classification :A01N0025300000,
C08G0018100000,
A01N0047020000,
A01N0025120000,
A01N0027000000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)RAJDHANI PETROCHEMICALS
Address of Applicant :Phase-1, Industrial Growth Center,
SIDCO, Samba-184121, Jammu and Kashmir, India Jammu &
Kashmir India

(72)**Name of Inventor :**
1)PATEL Dipakkumar
2)SHAH, Kenal V.
3)SHAH, Bhavesh V.

(57) Abstract :

A synergistic agrochemical composition for arthropod control. More particularly the present invention relates to a synergistic agrochemical composition for foliar treatment comprising of bioactive amount of (A) an insecticide as a selective feeding blocker; (B) a Plant growth regulator; and (C) one or more insecticides or mixture thereof. The present invention further relates to process for preparing the said compositions in specific ratio. The present invention further relates to the process for preparing the said composition along with at least one inactive excipient; and formulations thereof. The present invention further relates to the synergistic agrochemical compositions, wherein active ingredient present in fixed ratio show synergy in insecticidal activity and formulations thereof are stable in nature.

No. of Pages : 91 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030676 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : EFFICIENT RIBS FOR CASING OF ENERGY STORAGE DEVICE

(51) International classification	:H01M0010040000, B65D0021080000, H01M0002200000, H01M0010643000, A61J0001030000	(71) Name of Applicant : 1)ROQUE MOTORS PVT. LTD Address of Applicant :H.No. 195, Street No 3, Bachittar Nagar, Near GNE College, Gill Road, Ludhiana Punjab India 141006 Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Arhant Rai
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to efficient ribs (16) for a casing (14) of energy storage device (10). The casing (14) includes the efficient rib (16), the efficient rib (16) comprises of a first unit (20) and a second unit (22) to position a plurality of cells (18). The first unit (20) and the second unit (22) comprises of a series of sections (24, 24') of equal proportion spaced equidistantly from each other. The series of sections (24, 24') is a 3-dimensional space consisting of a sidewall (26, 26'), a connecting wall (28, 28') and an open end (30,30'). A user slides across the series of sections (24) of the first unit (20) in the series of sections (24') of the second unit (22) through the open-end (30, 30') of the first unit (20) and the second unit (22) in a horizontal or a vertical fashion to achieve a locked position of the first unit (20) and the second unit (22), the locked position functions to hold the plurality of cells (18) with the efficient ribs (16) interspersed between each and every cell of the plurality of cells (18).

No. of Pages : 29 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030677 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : AN AUTOMATED FLUID DISPENSING ASSEMBLY

(51) International classification	:B67D0001140000, E03C0001040000, A47K0005120000, B67D0003040000, G01N0035100000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Saikrishna Bontu
(33) Name of priority country	:NA	2)Srivastava Chandnee
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An automated fluid dispensing assembly (100) for securing a faucet (102) of a fluid dispenser from ambient environment is provided. The automated fluid dispensing assembly (100) includes a housing (104) having a faucet cover (106) moveably attached to a wall of the housing (104). The faucet cover (106) is configured to retract the faucet (102) into the housing (104) when the faucet cover (106) is in a close position to secure the faucet (102) from the ambient environment. The faucet cover (106) is also configured to expose the faucet (102) from the housing (104) when the faucet cover (106) is in an open position to dispense fluid. The automated fluid dispensing assembly (100) also includes an unlock button (108) configured to facilitate transition of the faucet cover (106) from the close position to the open position.

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030678 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : A CEILING FAN ASSEMBLY

(51) International classification	:F04D0025080000, E21B0010420000, F04D0029340000, G01J0005080000, G01R0033480000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Veeramohan Raghu
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A ceiling fan assembly (100) for circulating air is provided. The ceiling fan assembly (100) comprises a first set of plurality of blades (102) being rotated by a first mechanism (106) and a second set of plurality of blades (104) being rotated by a second mechanism (108). The first set of plurality of blades (102) rotate at a first speed and the second set of plurality of blades (104) rotate at a second speed. Further, the first speed of first set of plurality of blades (102) is different from the second speed of the second set of plurality of blades (104).

No. of Pages : 18 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030680 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHOD FOR PRINTING ON OPTICAL FIBRE CABLES

(51) International classification	:G02B0006440000, B33Y0050020000, B33Y0010000000, B23K0026340000, B23K0026211000	(71) Name of Applicant : 1)STERLITE TECHNOLOGIES LIMITED Address of Applicant :STERLITE TECHNOLOGIES LIMITED IFFCO Tower, 3rd Floor, Plot No.3, Sector 29, Gurgaon 122002, Haryana, India Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sravan Kumar Peraka
(33) Name of priority country	:NA	2)Hemanth Kondapalli
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[0001] The present disclosure provides a method of printing on a jacket (202) of an optical fibre cable (200). The method includes a first step of applying a layer of laser additive premixed plastic compound (204) on the jacket (202) of the optical fibre cable (200). In addition, the method includes a second step of using a laser beam on the layer of laser additive premixed plastic compound (204). The laser beam is used for printing on the jacket (202) of the optical fibre cable (200).

No. of Pages : 21 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030681 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : A METHOD OF DEVELOPING SODIUM-ION CONDUCTOR FOR NEXT GENERATION SOLID-STATE SODIUM-ION BATTERY

(51) International classification	:H01M0010054000, C01B0032050000, B01J0020300000, C01G0025000000, B01J0021060000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE Address of Applicant :Roorkee Uttarakhand India (72) Name of Inventor : 1)DR. YOGESH KUMAR SHARMA 2)MR. ALLU VINODHKUMAR 3)MR. BRAHMA PRAKASH DUBEY
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Present invention relates to a method of synthesizing pure phase Na₃Zr₂Si₂PO₁₂ (NZSP) for next generation solid-state sodium-ion battery by polymer assisted modified combustion process. The method comprises of: preparing a solution of polymer having organic compound and compounds of sodium, silicon, phosphorous and zirconium; drying the solution at 60-80oC in air atmosphere to yield a solidflex; and calcinating the solid flexes at 1000-1200oC followed by sintering to pyrolyze the organic compound forming a carbonaceous foam and distributing sodium, silicon, phosphorous and zirconium throughout the carbonaceous foam to yield dense and pure phase NZSP.

No. of Pages : 27 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030708 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : PRIVATE KEY SECURITY IN THE CLOUD

(51) International classification	:H04L0009320000, H04L0029060000, H04L0009300000, H04W0012060000, H04L0009080000	(71) Name of Applicant : 1)The Boeing Company Address of Applicant :100 North Riverside Plaza, Chicago, IL 60606-2016, U.S.A. U.S.A.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SARKAR, Joydeep
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Techniques for providing to a user with an anonymous user signature on a message in a distributed decentralized network are presented. The techniques use a hardware security module and a certificate authority. The certificate authority: obtains a credential that includes a certificate for the user, where the certificate includes a user public key and a plurality of user attributes; receives a request for a signature on the message, where the request includes an indication of a subset of the plurality of user attributes to be revealed; accesses from the hardware security module a user secret key; and provides to the user at least the message signed by the user secret key and a zero-knowledge proof that establishes that the message is signed by the user secret key corresponding to the user public key in the credential without revealing the plurality of user attributes.

No. of Pages : 41 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030720 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : TEMPERATURE MEASUREMENT DEVICE AS A TOOL FOR PREDICTING THE STATE OF HEALTH OF AN ELECTROCHEMICAL SYSTEM

(51) International classification	:G01R0031392000, G01R0031367000, H01M0010480000, G01R0031382000, G01R0031384200	(71) Name of Applicant : 1)VECMOCON TECHNOLOGIES PVT LTD Address of Applicant :LAB NO 3, SYNERGY BUILDING IIT DELHI, HAUZ KHAS, NEW DELHI – 110016 Delhi India 2)ADARSHKUMAR BALARAMAN
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)PEEYUSH ASATI
(33) Name of priority country	:NA	2)SHIVAM WANKHEDE
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In accordance with present aspect of invention, a system for monitoring the health of a battery is disclosed, comprising: a plurality of sensors configured to sense data inputs from the said battery; a device, comprising; a plurality of temperature monitoring integrated circuits; a plurality of current monitoring circuits; and a plurality of time measurement circuits, a processor to process the said data inputs received from the said plurality of sensors; a display module attached to the said device. In the present invention, the plurality of sensors are configured at a plurality of strategic locations to sense the data inputs relating to an internal resistance of the said battery, and the said data inputs relating to the internal resistance is sent to the said device on a real time basis which is capable to receive and process the said data inputs by means of the processor. A temperature at the plurality of strategic locations of the said battery is analysed by the temperature monitoring integrated circuit and the said measured temperature of the battery is displayed on the display module attached to the said device. The current monitoring circuit further assist in determining the internal resistance of the said battery, the time measurement circuits enables to determine the rate of change of temperature with time and the said measured current and rate of change of temperature with time are displayed on the display module attached to the said device.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030722 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : AN AUTOMATIC SANITIZER DEVICE

(51) International classification	:A61F0009060000, A61B0003000000, F16H0037040000, G08B0021240000, A61L0002220000	(71) Name of Applicant : 1)MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD Address of Applicant :Prayagraj - 211004, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)PRANAV TRIPATHI
(33) Name of priority country	:NA	2)SEEMA NARA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides an automatic sanitizer device (100) comprising an ultraviolet-C light chamber (50) and the mist spray chamber (51). The ultraviolet-C light chamber (50) comprises an ultraviolet-C light tubes (14), (141), (142), (143) are connected with a plurality of wires (13), (131), (132), (133). A plurality of choke (12), (121), (122), (123) is connected with a power switch (2), (3) which is coupled with at-least one time controller (1). The power switch (2), (3) is connected with a power controller (8). The mist spray chamber (51) comprises a plurality of nozzles (17), (171), (172), (173), (174) connected to the tube (16), (161), (162), (163), (164). The tube (16), (161), (162), (163), (164) is connected to at-least one inlet pipe (10). Moreover, the chamber (50) acts as dry chamber and the chamber (51) acts as a wet chamber and both chamber (50), (51) have provision to work simultaneously. .

No. of Pages : 35 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030726 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : TEMPERATURE MEASUREMENT DEVICE AS A TOOL FOR DIAGNOSTICS AND PREDICTING WARRANTY ABUSES OF THE BATTERY

(51) International classification	:G06Q0030000000, H01M0010420000, G01K0013000000, G01K0001140000, G06Q0020120000	(71) Name of Applicant : 1)VECMOCON TECHNOLOGIES PVT LTD Address of Applicant :LAB NO 3, SYNERGY BUILDING IIT DELHI, HAUZ KHAS, NEW DELHI – 110016 Delhi India 2)ADARSHKUMAR BALARAMAN
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)PEEYUSH ASATI
(33) Name of priority country	:NA	2)SHIVAM WANKHEDE
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In accordance with the main aspect of invention, a system for predicting warranty abuses of a battery is disclosed, comprising: a plurality of sensors configured to sense data inputs from the said battery; a device, comprising; a plurality of temperature monitoring integrated circuits; a plurality of current monitoring circuits; and a plurality of time measurement circuits, a processor to process the said data inputs received from the said plurality of sensors; a display module attached to the said device. In the present invention, a plurality of damaged cells with higher internal resistance value are diagnosed by monitoring a temperature of the said plurality of damaged cells by means of the plurality of sensors placed at a plurality of strategic locations of the said battery. The sensed data inputs of the said battery on a real time basis are transferred to the said device capable to process the said input data and displayed to the display module attached to the said device.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030729 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : USING SILICON-BASED POTTING MATERIAL FOR BETTER PASSIVE THERMAL MANAGEMENT OF ELECTROCHEMICAL SYSTEMS

(51) International classification	:H01M0010052500, H01M0004360000, H01M0010625000, B01D0063020000, H05K0007200000	(71) Name of Applicant : 1)VECMOCON TECHNOLOGIES PVT LTD Address of Applicant :LAB NO 3, SYNERGY BUILDING IIT DELHI, HAUZ KHAS, NEW DELHI – 110016 Delhi India 2)ADARSHKUMAR BALARAMAN
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)PEEYUSH ASATI
(33) Name of priority country	:NA	2)NIKESH BISHT
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In accordance with the main embodiment of present invention, a process for improving a passive thermal management of an electrochemical system is disclosed, comprising the steps of: using, a battery; and placing, a plurality of sensors at a plurality of strategic locations in the said battery; preparing, a temperature profile of the said battery on a real time basis by means of the plurality of temperature sensors placed at the plurality of strategic locations of the said battery; and discharging, the said battery; and recording, a maximum temperature reached during discharging of the said battery and minimum temperature reached during discharging of the said battery. In accordance with the invention, as and when the said battery reaches at a state of thermal equilibrium, the said battery is filled with a silicon potting agent thereby reducing the temperature of the said battery and at the same time allowing good thermal conductivity in the said battery.

No. of Pages : 11 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030730 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : AN ASSEMBLY OF PARCEL SHELF WITH CUSHION STRUCTURE AND REAR DOOR

(51) International classification	:B60R0005040000, B60N0002420000, B60R0013020000, H01Q0009420000, B62D0025080000	(71) Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India. Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SREEJITH MP
(33) Name of priority country	:NA	2)SUBHAM SHARMA
(86) International Application No	:NA	3)LOKESH KHANDELWAL
Filing Date	:NA	4)ARNAB SANDILYA
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present subject matter relates to an assembly (200) of a cushion structure (204a, 204b) with parcel shelf (201) to restrict movement of the parcel shelf (201) during application of force by back door trim. The assembly (200) comprises each of cushion structure from a pair of cushion structure (204a, 204b) is mounted in-line with a quarter lower resting portion (203a, 203b) of a quarter lower trim members (202a, 202b) at the left hand side and the right hand side of the vehicle, respectively.

No. of Pages : 22 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030737 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYSTEM FOR SECURING A VEHICLE

(51) International classification	:H04L0029060000, B65G0069000000, B60P0007080000, B60P0003073000, B60R0025200000	(71) Name of Applicant : 1)VECMOCON TECHNOLOGIES PVT LTD Address of Applicant :LAB NO 3, SYNERGY BUILDING IIT DELHI, HAUZ KHAS, NEW DELHI – 110016 Delhi India 2)ADARSHKUMAR BALARAMAN
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ALTAMASH ABDUL RAHIM
(33) Name of priority country	:NA	2)NIKESH BISHT
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In accordance with present aspect of invention, a system for securing a vehicle is disclosed, comprising: a vehicle, comprising: a user device for operating the said vehicle; a theft device capable of performing a plurality of tasks, the said theft device, comprising: a plurality of sensors; a microcontroller; a communication protocol; a position detector a storage device; and an intra vehicle communication means. In the present invention, the said theft device detects any unauthorized activity by the position detector through the plurality of sensors installed in the said vehicle, and communicates a plurality of data inputs received from the plurality of sensors by means of the communication protocol to the user device. The said theft device detects any unauthorized activity by the position detector through the plurality of sensors installed in the said vehicle and communicates through the intra-vehicle communication means, a plurality of data inputs to sub-systems of the said vehicle and blocks the said sub-system of the said vehicle.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030738 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : A SHOE ASSEMBLY WITH IOT CONNECTIVITY

(51) International classification	:A43B0003000000, G06F0003010000, A43B0003240000, G01R0031400000, H04W0004800000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125,NOIDA,UTTAR PRADESH,INDIA,201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)MONIKA SHARMA
(33) Name of priority country	:NA	2)ABHIMANYU PAL
(86) International Application No	:NA	3)AJAY RANA
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a shoe assembly with IoT connectivity. The shoe assembly based on IoT connectivity comprises a microcontroller to receive input data values from each of hardware devices, a wireless communication unit, a plurality of sensors, a plurality of resistors, and a user device with voice recognition to send the input data values to the microcontroller for providing a navigation route. Further, the shoe assembly is configured to place in its sole the microcontroller, the wireless communication unit and the plurality of sensors and resistors. In addition, the shoe assembly is protected with a clay for each of the hardware devices such as the microcontroller, the wireless communication unit and the plurality of sensors and resistors to protect from water or through any other damages.

No. of Pages : 13 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030747 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : A SYSTEM AND METHOD FOR MAKING A NUTSETTER TOOL

(51) International classification	:B25B0023145000, B25B0013060000, B25B0023142000, B25B0021000000, B25B0013080000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125,NOIDA,UTTAR PRADESH,INDIA,201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BASANT SINGH SIKARWAR
(33) Name of priority country	:NA	2)PANKAJ BHARDWAJ
(86) International Application No	:NA	3)ANURAG GUPTA
Filing Date	:NA	4)MADHAV SETH
(87) International Publication No	: NA	5)ADITYA AGARWAL
(61) Patent of Addition to Application Number	:NA	6)NAVEEN KUMAR
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A System and Method for Making a Nutsetter Tool The present invention relates to a system and method for making a nutsetter tool used for tightening and torquing of the nuts and bolt with power tools pneumatic gun and torque wrench. The tool has two different pieces namely a male and a female part which are joint by a spring-loaded ball and the tool assembly as per the requirement. This tool is manufactured in 2 different pieces rather being manufactured in a single piece namely a male and a female part. These 2 pieces are joint by a spring-loaded ball and the tool assembly as per the requirement is obtained. The male part of the tool is the part which is in direct contact with the nut or bolt and is responsible to carry tightening operation. It has a cavity of the size equivalent to bolt head or nut size to hold them. The proposed designing of the tool has helped in reduction in quantity by a significant amount of 79.05%. The expenditure in changing the tool due to wear and tear is reduced as instead the whole tool, only the damaged part need to be replaced.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030763 A

(19) INDIA

(22) Date of filing of Application :19/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : A MARKET PLACE OF SALE AND PURCHASE OF BUSINESS

(51) International classification	:G06Q0010060000, G06Q0010000000, B22D0011120000, H01M0008042910, G06Q0099000000	(71) Name of Applicant : 1)Bhishmak Consulting Private Limited Address of Applicant :909 Patli Gali Pahar Ganj New Delhi Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Sumit Kumar Vij
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

It is bring to the notice that the principle object of this invention is to help the society in the form of saving the sources and resources, which gets wasted any saving huge cost at administrative level of the Government of India for closure of businesses, for Businessmen, who wants to exit from the business due to various reasons including management issues, fund issues, high debt, technological issues, supply issues or customer issues, by giving him an opportunity to exit from the business with compensation on capital invested and a new entrepreneur who wants to start same or similar type of business. By this invented model all the stakeholders will get benefited.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030780 A

(19) INDIA

(22) Date of filing of Application :19/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : BATTERY AND/OR SOLAR POWER OPERATED ELECTRICAL DRIVEN DUAL BIN MSW COLLECTION & TRANSPORTATION VEHICLE

(51) International classification	:F24F0005000000, G06Q0010040000, B65F0001000000, A63F0003080000, G06Q0030020000	(71) Name of Applicant : 1)Rans Concept Developers Address of Applicant :B-IV/304B, Keshavpuram, New Delhi
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Rans Concept Developers
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Industrial development is one of the essential parts of our society. It full fill day to day requirement in our life as well as good source of employment. No industry can operate without utilization of resources. Natural resources like water and air are commonly used by either industrial units or by human being or other species on earth. Once an industrial unit starts using it, availability get affect for other user segment. Somehow it can be balanced by rules & regulations but when these human developed industrial units start violating rules & regulation creation of God get difficulties in survival. Chances of violating rules and regulation will increase with no. of establishments; need to keep in competition and nature of human being to look short sighting. MSME segment of industrial unit having all the parameters to fall in this category. The same is observed in our finding and solution to that through our developed invention. Our developed invention is to balance the said system without affecting one to other as well as create a self sustainable model for MSME Sector. We developed an integrated system which full fill utility requirement of Industrial units in industrial areas and handle waste water generation of these units to make it reusable to make the establishment as much as self sustainable. Drawings of basic process showing schematic arrangement enclosed in separate sheet. Developed process uses generated waste as source and through the invented developments use it after treatment to create utilities required by industrial units for manufacturing of their products. Brief description of above listed developed system & process is described in separate sheets here with.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030806 A

(19) INDIA

(22) Date of filing of Application :20/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : A FULL FACE MASK

(51) International classification	:A62B0018080000, B60B0025000000, B60B0003020000, A41D0015000000, A41D0013110000	(71) Name of Applicant : 1)Desmania Designs Pvt. Ltd. Address of Applicant :330, Sector – 8, IMT Manesar Gurgoan-122050 Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Anuj Prasad
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a full face mask. More particularly, the present invention relates to an assembly of the face mask designed with versatile smart filter adaptor for the purpose of integrating a variety of functionalities suitable for outdoor as well as indoor conditions.

No. of Pages : 20 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030825 A

(19) INDIA

(22) Date of filing of Application :20/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : A TWO AXES DOUBLE CLUTCH TRANSMISSION FOR HYBRID VEHICLES

(51) International classification	:F16H0003093000, F16H0003000000, F16H0003100000, F16H0003097000, B60K0006360000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Nagaraj Bysani
(33) Name of priority country	:NA	2)Mr. Mohammad Munawar Ali
(86) International Application No	:NA	3)Mr. Kiran Rao
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A dual-clutch transmission 200 is disclosed, having two shafts 202 and 204 disposed parallel and spaced apart from each other, and a plurality of pairs of gears 206/208 arranged thereon. Two clutches 252 and 254 selectively transfer power, such that in one set of gear positions, the first shaft 202 works as the input shaft and the second shaft 204 works as the output shaft; and in other set of gear positions, the second shaft 204 works as the input shaft and the first shaft 202 works as the output shaft. Thus, each gear pair 206/208 mounted between the first shaft 202 and the second shaft 204 is used to provide two different gear ratios, leading to a compact configuration with reduced number of parts. Output gears 222 and 224 are selectively coupled to the first shaft 202 and the second shaft 204 to transfer power to final drive 220.

No. of Pages : 18 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030833 A

(19) INDIA

(22) Date of filing of Application :20/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : MANURE

(51) International classification	:G06K0009620000, B09B0001000000, A61K0009080000, A61K0047260000, B09B0003000000	(71) Name of Applicant : 1)SAINI, Kamlesh Kumar Address of Applicant :Badwali Haveli Subhash Bazar, Ward No.31, Tonk Road Jaipur Rajasthan India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SAINI, Kamlesh Kumar
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method (100) of producing manure from a daily producible waste, the method comprising the step of: a. refusing non-organic waste material from the daily producible waste; b. sprinkling water after refusing non-organic waste material from the daily producible waste; c. filtering the remaining waste after performing step b; d. admixing a gram flour and a jaggery in equal parts by weight to the waste remaining after performing step c; e. serially admixing the .50 parts by the weight of an earthworm; and f. decomposing the waste after performing step e.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030868 A

(19) INDIA

(22) Date of filing of Application :20/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYSTEMS AND METHODS FOR GENERATING AND UPDATING TRAVEL ITINERARIES

(51) International classification	:G08B0021040000, G08B0021180000, G01C0021340000, H04L0029080000, H04W0076500000	(71) Name of Applicant : 1)UST Global Inc. Address of Applicant :5 Polaris Way, Aliso Viejo, California 92656, United States of America U.S.A.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KUMAR, Arun Suresh
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system (102) is configured to: (a) determine an itinerary based on inputs received from a client device (104) associated with a first user, user profiles associated with other users, and a user profile associated with the first user; (b) generate a warning signal based on status signals received from the client device (104), the warning signal indicating at least one of a cancellation of a first event in the itinerary or a delay of the first event in the itinerary; (c) determine an adjustment to be made to the itinerary based on the warning signal; (d) provide the adjustment to the client device(104); (e) receive a feedback signal from the client device (104), the feedback signal indicating that the adjustment be made to the itinerary; and (f) adjust the itinerary according to the adjustment.

No. of Pages : 42 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030905 A

(19) INDIA

(22) Date of filing of Application :20/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : ANTIMICROBIAL AND ANTIVIRAL REUSABLE FILTRATION SYSTEM AND PERSONAL PROTECTIVE EQUIPMENT

(51) International classification	:A61M0016060000, A41D0013110000, A62B0023020000, B01D0039160000, A62B0018080000	(71) Name of Applicant : 1)Dr.BALWANT RAI Address of Applicant :Vill-Bhangu, P.O.-Sahuwala 1, District-Sirsa, (Haryana), INDIA Haryana India 2)Dr.JASDEEP KAUR
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr.BALWANT RAI
(33) Name of priority country	:NA	2)Dr.JASDEEP KAUR
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to personal protective facemask integration eye shield, nasal mask, different respirators including nasal filter i.e. invisible nasal filter etc having synergistic coating of metals and/or synergistic coating of salt of metals having antimicrobial, antiviral and UV protector properties of protective facemask, nasal filters and other respirators. The present invention also relates to a method for preparation of novel reusable filtration system.

No. of Pages : 50 No. of Claims : 62

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030911 A

(19) INDIA

(22) Date of filing of Application :20/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : TIME SLICING WIRELESS CHARGING

(51) International classification :H02J0007020000,
H02J0050800000,
H02J0007000000,
H02J0050120000,
H02J0050400000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)General Electric Company
Address of Applicant :1 River Road Schenectady, NY 12345
U.S.A.

(72)**Name of Inventor :**
1)Viswanathan Kanakasabai
2)Subbarao Tatikonda
3)Suma Memana Narayana Bhat

(57) Abstract :

This disclosure provides systems, methods, and apparatuses for wireless power transmission. Various implementations of this disclosure relate generally to intermittent wireless charging. A wireless power transmission apparatus (such as a charging pad or surface) can intermittently provide wireless power to one or more wireless power reception apparatuses based on time slices. The wireless power reception apparatuses can cool during time slices in which wireless power is not transferred. A power control unit of the wireless power transmission apparatus may determine first time slices during which wireless power will be provided to the wireless power reception apparatus. The power control unit also may determine second time slices during which wireless power will not be provided to the wireless power reception apparatus, where the second time slices are interspersed with the first time slices allowing time for thermal loads that accumulated during the first time slices to dissipate

No. of Pages : 50 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030957 A

(19) INDIA

(22) Date of filing of Application :20/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : POWER CONTROLLER IN A WIRELESS POWER RECEPTION APPARATUS

(51) International classification	:H02J0007020000, H02J0050120000, H02J0050400000, H02J0050800000, H01F0038140000	(71) Name of Applicant : 1)General Electric Company Address of Applicant :1 River Road Schenectady, NY 12345 U.S.A.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)JAYANTI, Ganesh
(33) Name of priority country	:NA	2)BASAK, Rupam
(86) International Application No	:NA	3)KANAKASABAI, Viswanathan
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The disclosure provides systems, methods, and apparatuses for wireless power reception. Various implementations relate generally to a wireless power reception apparatus including multiple secondary coils that receive wireless power from corresponding primary coils of a wireless power transmission apparatus. When a secondary coil receives power from a primary coil, they form a latched coil pair. Initially, the wireless power reception apparatus receives via a number of latched coil pairs. Coil pairs may de-latch as they physically move out of alignment. If one or more coil pairs de-latch, voltage may drop in the latched coil pairs. The wireless power reception apparatus includes a power controller that can detect drops in voltage resulting from de-latching coil pairs. In response, the power controller can modify current drawn from the remaining latched coil pairs. By modifying current drawn from the remaining latched coil pairs, the power controller can avoid system failure.

No. of Pages : 60 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030968 A

(19) INDIA

(22) Date of filing of Application :20/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHOD AND SYSTEM OF SECURELY STORING AND RETRIEVING DATA USING FIRMWARE OF MULTIPLE STORAGE DEVICES

(51) International classification	:G06F0003060000, G06F0021600000, G06F0016220000, H04L0029080000, G06F0016110000	(71) Name of Applicant : 1)National Institute of Technology, Kurukshetra Address of Applicant :National Institute of Technology Kurukshetra, Kurukshetra-136119, Haryana, India Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)CHHABRA, Jitender Kumar
(33) Name of priority country	:NA	2)GHILDIYAL, Gaurav Kumar
(86) International Application No	:NA	3)JOSHI, Apoorv
Filing Date	:NA	4)KEDIA, Mayank
(87) International Publication No	: NA	5)KUMAR, Dinesh
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a method (1000) of securely storing data files by a host. The method includes determining (1002) a type and a size of a data files that is to be securely stored. The method includes dividing (1004) the data files into a first part and a second part. The method includes storing (1006) the first part and the second part of the data file in a meta-info region of a first storage device and a second storage device, respectively, when the size of the first part and the second part of the data files is less than a threshold size value. The method further includes storing (1008) the first part and the second part of the data files in a data region of the first storage device and the second device, when the first part and the second part of the data files is above the threshold size value.

No. of Pages : 34 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030990 A

(19) INDIA

(22) Date of filing of Application :20/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : THERMAL RESISTANT WATER BLOCKING TAPE

(51) International classification	:G02B0006440000, H01B0007288000, C08K0005000000, H02G0003040000, H01L0051520000	(71) Name of Applicant : 1)STERLITE TECHNOLOGIES LIMITED Address of Applicant :STERLITE TECHNOLOGIES LIMITED IFFCO Tower, 3rd Floor, Plot No.3, Sector 29, Gurgaon 122002, Haryana, India Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Nikhil Puri
(33) Name of priority country	:NA	2)Pramod Marru
(86) International Application No	:NA	3)Santhosh Ghorpade
Filing Date	:NA	4)Vikash Shukla
(87) International Publication No	: NA	5)Atulkumar Mishra
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[0001] The present disclosure provides a thermal resistant water blocking tape (100) for use in an optical fibre cable. The thermal resistant water blocking tape (100) includes a water blocking tape (102). The water blocking tape (102) is resistant to water penetration. The water blocking tape (102) is defined by a top surface and a bottom surface. In addition, the water blocking tape (102) has an intumescent material that reduces transmission of thermal radiations across the thermal resistant water blocking tape at elevated temperature.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030991 A

(19) INDIA

(22) Date of filing of Application :20/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : "A GREY WATER REMEDIATION SYSTEM WITH EXISTING ORIGINAL EQUIPMENTMANUFACTURER OEM"

(51) International classification :C02F0001000000,
C02F0009000000,
C02F0001320000,
C02F0001280000,
C02F0003340000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)AMITY UNIVERSITY
Address of Applicant :AMITY UNIVERSITY CAMPUS,
SECTOR-125, NOIDA-201313, INDIA Uttar Pradesh India

(72)**Name of Inventor :**
1)PATHAK SEEMA R
2)DEVI MANISHA
3)PARIDHA CHINMAY
4)PARIDHA CHINMAY
5)RAWAT VARUN
6)SRIVASTAVA CHANDRA
7)RAWAT POOJA
8)VATS MONIKA
9)DHARIWAL MANOJ

(57) Abstract :

The present invention relates to a grey water remediation system 5 with the existing original equipment manufacturer OEM. The grey water remediation system 5 with the existing original equipment manufacturer OEM comprises an inlet 1 to receive grey water, a plurality of cartridges 3, an Ultraviolet UV lamp chamber 2, a reservoir 4, and an outlet 6 to receive the filtered water. The plurality of cartridges 3 includes a stainless steel mesh cartridge, a sediment filter cartridge, a carbon filter cartridge, a hydrogel Nano-composite cartridge, a resin cartridge, an ultra-filtration (UF) membrane cartridge. The UV lamp chamber 2 to deactivate any bacteria and pathogens in all stages of cleansing, and the reservoir 4 is configured to place each of the cartridges and the Ultraviolet UV lamp chamber 2.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030997 A

(19) INDIA

(22) Date of filing of Application :20/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : INTELLIGENT VEHICLE PARKING SYSTEM

(51) International classification	:G07F0007120000, G06Q0020320000, G06Q0010000000, G08G0001140000, G07F0017240000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab 140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Shubham
(33) Name of priority country	:NA	2)Deepanshu
(86) International Application No	:NA	3)Rasmeet Singh
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an intelligent vehicle parking system comprising a vehicle parking unit equipped with a multiple addressed parking slots for receiving a set of offline and online reserved vehicles via a divisional entrance, multiple proximity sensors positioned uniformly inside the unit for tracking the vehicle's presence in the slots, a token dispensing module linked to the sensors that comprises of a display unit for collectively presenting information generated from the sensors and a token generator for allocating tokens to users of reserved vehicles based on the information, further, a user interface associated with the proposed system and linked to the unit for allowing users of offline reserved vehicles to virtually generate the tokens and a computing unit for verifying tokens of the users of online reserved vehicles and reporting net payments to be done by the users by scanning a barcode contained in the token.

No. of Pages : 12 No. of Claims : 9

(54) Title of the invention : HERBAL TEA EXTRACT COMPOSITION AND METHOD OF PREPARATION THEREOF

(51) International classification	:A61K0036530000, A61Q0019000000, A61K0036906800, A61K0036540000, A61K0036258000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mahavir Joshi
(33) Name of priority country	:NA	2)Geetika Sharma
(86) International Application No	:NA	3)Aastha Middha
Filing Date	:NA	4)Vipin Dabas
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A herbal tea extract composition comprising i) cinnamon bark in the range of 2% w/w- 7% w/w, ii) holy basil in the range of 25% w/w- 35% w/w, iii) stevia in the range of 15% w/w- 25% w/w, iv) lemon grass in the range of 35% w/w-40 % w/w, v) ginger in the range of 2% w/w- 7% w/w, and vi) organic solvent in the range of 5% w/w-15% w/w. A method for preparation of the tea extract composition comprising the following steps: mixing powder of the cinnamon bark, holy basil, stevia, lemon grass, ginger with first distilled water and incubating to obtain a soluble mixture, filtering the mixture followed by concentrating the filtrate to obtain concentrated filtrate powder, hot extracting the residues solution to obtain a concentrated residual extract, centrifuging the extract followed by collecting and concentrating the supernatant to obtain centrifuged residual extract, mixing the concentrated filtrate powder and centrifuged residual extract to obtain a herbal tea extract.

No. of Pages : 24 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011031010 A

(19) INDIA

(22) Date of filing of Application :20/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : PORTABLE UMBRELLA HOLDING APPARATUS

(51) International classification	:A45F0005020000, A45F0003140000, A45F0005000000, A45B0011020000, H04B0001382700	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab 140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Aman Sharma
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a portable umbrella holding apparatus, comprising a waist belt 1 associated with the apparatus, wherein the belt 1 having at least one strap fitted on a front portion of the belt 1 to provide adjustment to the belt 1, a chest belt 2 coupled to the waist belt 1 designed for holding the apparatus to body of the user, wherein at least one buckle 3 is attached on a second sling of the belt 2 to adjust length of the chest belt 2, a pocket 4 crafted on a first sling of the belt 2 for providing a waterproof storage to store accessories of the user, and a holder 5 attached to a clamp for providing hands free holding of the umbrella and connected with the belt 2, wherein a button 6 is interconnected with the umbrella in order to open the umbrella.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011031024 A

(19) INDIA

(22) Date of filing of Application :20/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : MULTI-LEVEL VEHICLE PARKING SYSTEM

(51) International classification	:E04H0006180000, E04H0006420000, E04H0006140000, E04H0001120000, E04H0006060000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab 140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Shivam Puniani
(33) Name of priority country	:NA	2)Tushar Ranjan Das
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A multi-level vehicle parking system, comprising an enclosure 1 that is half submerged within ground level 7 to provide ample space for multi-level parking of vehicles, a movable rod 2 placed concentrically with a main beam 3 and positioned centrally within the enclosure 1 for reciprocating in a vertical linear motion via an actuator, multiple plates 4 removably attached with the rod 2 that reciprocates along with the rod for parking multiple vehicles at various levels within the enclosure 1, multiple door tunnels 5 equipped with sliding panels 6 constructed on the ground level 7 for providing entrance of vehicles, wherein the plates 4 move inside tunnels 5 via sliding panels 6 for transporting the entered vehicles towards the movable rod 2 and a set of scanners for scanning electronic cards, wherein the vehicles are allowed to enter enclosure 1 upon successful scanning of the cards.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011031032 A

(19) INDIA

(22) Date of filing of Application :20/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATIC FALL PREVENTION DEVICE

(51) International classification	:A61B0005110000, F16M0013000000, A47B0097000000, H04N0005247000, E04F0011180000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab 140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Shivam Bhandari
(33) Name of priority country	:NA	2)Aparna Sharma
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an automatic fall prevention device comprising of a platform assembly 1 having plurality of metal plates 2 for providing a support to a user while working aloft, wherein assembly 1 has plurality of railing bars 3 to provide stability to user, plurality of flexible cloths 4 interconnected between metal plates 2 and railing bars 3 that expands outwards in case of an emergency, a camera 5 mounted on assembly 1 for capturing real time image/video of surroundings, a control unit programmed and associated with camera 5 for extracting features from image/video and generating a signal when user is prone to accidental fall while working on assembly 1 and plurality of retractable rods 6 connected to plates 2, wherein rods 6 are powered by multiple motors 7 to assist cloths 4 in expanding outwards in order to prevent user from falling.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014032964 A

(19) INDIA

(22) Date of filing of Application :31/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHOD OF ADJUSTING VOLUME OF AUDIO OUTPUT BY A MOBILE ROBOT DEVICE

(51) International classification	:G06F0017210000, G06F0017240000, G06F0016930000, B41M0003140000, G06F0017220000	(71) Name of Applicant : 1)Blue Ocean Robotics Aps Address of Applicant :Svendborgvej 226, 5260 Odense, Denmark Denmark
(31) Priority Document No	:16/932,433	(72) Name of Inventor :
(32) Priority Date	:17/07/2020	1)Vitzrabin, Efraim
(33) Name of priority country	:U.S.A.	2)Larsen, Rune
(86) International Application No	:NA	3)Østergaard, John Erland
Filing Date	:NA	4)Rubæk, Thomas
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Implementations of the disclosed subject matter provide a method of transmitting, from a mobile robot device, sound and/or at least one image captured by a sensor to a remote user device. The mobile robot device may receive at least one first control operation for the mobile robot device to move within an area via a communications network from a remote user device. An audio signal may be transmitted based on sound received at a microphone of the mobile robot device in the area. The audio signal received from the remote user device may be output at a speaker of the mobile robot device. A volume of the audio signal output by the speaker may be adjusted based on a size of the area and on an average or a median of an amplitude of frequencies in the area based on the sound received by the microphone.

No. of Pages : 29 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014033009 A

(19) INDIA

(22) Date of filing of Application :31/07/2020

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHODS OF CONTROLLING A MOBILE ROBOT DEVICE FROM ONE OR MORE REMOTE USER DEVICES

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71) Name of Applicant : 1)Blue Ocean Robotics Aps Address of Applicant :Svendborgvej 226, 5260 Odense, Denmark Denmark
(31) Priority Document No	:16/932,440	(72) Name of Inventor :
(32) Priority Date	:17/07/2020	1)Thomsen, Laust Randeris
(33) Name of priority country	:U.S.A.	2)Vitzrabin, Efraim
(86) International Application No	:NA	3)Østergaard, John Erland
Filing Date	:NA	4)Rubæk, Thomas
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Implementations of the disclosed subject matter provide methods of transmitting, from a first user device, an authorization to one or more other user devices to receive one or more images captured by a first sensor of a mobile robot device, where the first user device controls the mobile robot device. The first user device may receive acknowledgement from the one or more other user devices to receive the one or more images captured by the first sensor of the mobile robot device. The mobile robot device may transmit, to the first user device and the one or more other user devices based on the acknowledgement, the one or more first images captured by the first sensor of the mobile robot as the mobile robot device moves within the area based on at least one first control operation received from the first user device.

No. of Pages : 32 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028393 A

(19) INDIA

(22) Date of filing of Application :24/06/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : OPTICAL IMAGING LENS ASSEMBLY

(51) International classification	:G02B0013000000, G02B0013180000, G02B0009600000, G02B0027000000, G02B0013020000	(71) Name of Applicant : 1)ZHEJIANG SUNNY OPTICS CO., LTD. Address of Applicant :NO.67-69 Fengle Road, Yuyao, Ningbo, Zhejiang, 315400 China China
(31) Priority Document No	:202010691559.9	(72) Name of Inventor :
(32) Priority Date	:17/07/2020	1)FUJIAN DAI
(33) Name of priority country	:China	2)LIEFENG ZHAO
(86) International Application No	:NA	3)JIANKE WENREN
Filing Date	:NA	4)XIAOBIN ZHANG
(87) International Publication No	: NA	5)SHUANG ZHANG
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Optical Imaging Lens Assembly Abstract The present invention provides an optical imaging lens assembly, which sequentially includes, from an object side to an image side along an optical axis: a first lens with a positive refractive power; a second lens with a negative refractive power; a third lens, an object-side surface thereof is a convex surface; a fourth lens with a positive refractive power; and a fifth lens with a negative refractive power, an object-side surface thereof is a convex surface, wherein an on-axis distance VP from an intersection point of a straight line where a marginal ray of the optical imaging lens assembly and the optical axis to an object-side surface of the first lens satisfies $0\text{mm} < \text{vp}$

</vp

No. of Pages : 72 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114028596 A

(19) INDIA

(22) Date of filing of Application :25/06/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ULTRASONIC PEEL AWAY TEXTILE GOODS

(51) International classification	:A61F0013150000, A47G0009020000, H01F0027260000, B32B0027360000, A47C0027000000	(71) Name of Applicant : 1)Peel Away Labs, Inc. Address of Applicant :304 Newark Ave, Jersey City, NJ 07302, USA U.S.A.
(31) Priority Document No	:16/946,976	(72) Name of Inventor :
(32) Priority Date	:14/07/2020	1)Carol Suchman
(33) Name of priority country	:U.S.A.	2)Maxwell Cohen
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A multi-layered article for bedding or clothing protection formed of a base layer and having a waterproof or water resistant side, together with a plurality of sheet layers, each sheet layer having a waterproof or water resistant side; and commonly welded together preferably with perforations. The sheet layers are individually removable as needed.

No. of Pages : 31 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114030269 A

(19) INDIA

(22) Date of filing of Application :06/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : DETACHABLE BI-LAYERED GLOVE AND METHOD OF MANUFACTURING THEREOF

(51) International classification	:A41D0019000000, A41D0019015000, H01L0023000000, B29C0041140000, A61K0045060000	(71) Name of Applicant : 1)TOP GLOVE INTERNATIONAL SDN. BHD. Address of Applicant :LOT 64593, JALAN DAHLIA/KU8, KAWASAN PERINDUSTRIAN MERU TIMUR, 41050 KLANG, SELANGOR, MALAYSIA Malaysia
(31) Priority Document No	:PI2020003651	(72) Name of Inventor :
(32) Priority Date	:15/07/2020	1)WONG, CHONG BAN
(33) Name of priority country	:Malaysia	2)LING, SIEW SZEN
(86) International Application No	:NA	3)LOW, MENG LAI
Filing Date	:NA	4)WONG, SONIA HOW MING
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a detachable glove comprising at least two layers that is separated by an adhesive layer, wherein the adhesive layer includes a wetting agent, a latex coagulating agent, a synthetic organic polymer and water. The present invention also relates to a chlorinated detachable bi-layered glove and method of manufacturing thereof. The present invention further relates to a polymer coated detachable bi-layered glove and method of manufacturing thereof. Still further, the present invention relates to a method of peeling a detachable bi-layered glove wherein the method includes (i) pulling cuff area of the outer glove layer until its circumference is detached from the inner glove layer and (ii) peeling off the outer glove layer once the full circumference of the outer glove layer is detached from the inner glove layer to yield the inner glove layer for further usage.

No. of Pages : 35 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114030533 A

(19) INDIA

(22) Date of filing of Application :07/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AIR INFLATOR DEVICE

(51) International classification	:B60R0021264000, B60R0021260000, F04B0039120000, B60R0021272000, B62K0019420000	(71) Name of Applicant : 1)CHOU, Wen-San Address of Applicant :NO.1-25, KANGWEI, AN-DIN DIST, TAINAN CITY, TAIWAN 2)CHOU, Cheng-Hsien
(31) Priority Document No	:109123963	(72) Name of Inventor :
(32) Priority Date	:15/07/2020	1)CHOU, Wen-San
(33) Name of priority country/region	:Taiwan	2)CHOU, Cheng-Hsien
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An air inflator device contains: an accommodation box and an air compressor (9). The accommodation box includes a cap (1) and a case (2), and the air compressor (9) and an air guiding mechanism are received in the cap (1) and the case (2). The air guiding mechanism is configured to frame a cooling fan (91) which is rotatably with a motor (92) of the air compressor (9). A flowing orifice (5) is defined by the first directing portion (3) and the second directing portion (4), and a first semicircular cover (32) and a second semicircular cover (42) of the air guiding mechanism are configured to collect and guide airs so that the cooling fan (91) rotates to guide the airs to the air compressor (9) quickly, thus dissipating heat and prolonging a service life of the air compressor (9).

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114030642 A

(19) INDIA

(22) Date of filing of Application :08/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ELEVATOR SAFETY CIRCUIT

(51) International classification	:B66B0005000000, B66B0005020000, B66B0013220000, B66B0005220000, B66B0013240000	(71) Name of Applicant : 1)OTIS ELEVATOR COMPANY Address of Applicant :One Carrier Place, Farmington, Connecticut 06032, United States of America U.S.A.
(31) Priority Document No	:20186287.7	(72) Name of Inventor :
(32) Priority Date	:16/07/2020	1)HERKEL, Peter
(33) Name of priority country	:EPO	2)RUHNKE, Jan
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An elevator safety circuit (24) for an elevator system in which an output is arranged to selectively provide an electrical current from an input to an electromagnetic brake coil (18) via a current flow path. An actuator transistor (34, 36) is arranged in series along the current flow path between the input and the output, the actuator transistor being arranged to selectively allow passage of the electrical current. A controller (38) is arranged to carry out a test operation when the braking element (14) is in the open position. The test operation comprises operating the actuator transistor (34, 36) in its disabled mode for a time period, monitoring the electrical current through the brake coil (18), and determining whether the magnitude of the electrical current reduces during said time period, the time period being selected such that the magnitude of the electrical current remains sufficient for keeping the braking element (14) in the open position during the test.

No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114030851 A

(19) INDIA

(22) Date of filing of Application :09/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : FUEL INJECTING INTAKE DEVICE

(51) International classification	:F02M0069040000, F02D0041300000, F02M0035100000, F02D0041040000, F02M0035108000	(71) Name of Applicant : 1)MIKUNI CORPORATION Address of Applicant :13-11, SOTOKANDA 6-CHOME, CHIYODA-KU, TOKYO 1010021, JAPAN Japan
(31) Priority Document No	:2020-122518	(72) Name of Inventor : 1)MIZUI, HIROSHI
(32) Priority Date	:17/07/2020	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

For a configuration of injecting a fuel using an injector, a structure is simplified and reduced in size, atomization of sprayed fuel is achieved, and adhesion of a fuel onto a wall surface of an intake passage is curbed or prevented. A fuel injecting intake device includes: an intake passage (12) that is directed to an intake valve of an internal combustion engine; an injector (30) that injects a fuel into the intake passage; first assist air passages (41b, 42b) that supply assist air near the injector; second assist air passages (41b, 43b) that supply assist air between the injector and the intake valve; and an adjustment valve (50) that adjusts a proportion of flow amounts of assist air flowing through the first assist air passage and the second assist air passage.

No. of Pages : 40 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114030928 A

(19) INDIA

(22) Date of filing of Application :09/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : RADIAL ADSORBER, ADSORPTION SYSTEM, AND ADSORPTION METHODS

(51) International classification	:B01D0053040000, C02F0005000000, C02F0001280000, B01F0007000000, B01D0053047000	(71) Name of Applicant : 1)AIR PRODUCTS AND CHEMICALS, INC. Address of Applicant :7201 HAMILTON BOULEVARD, ALLENTOWN, PA 18195-1501, USA U.S.A.
(31) Priority Document No	:16/931,507	(72) Name of Inventor :
(32) Priority Date	:17/07/2020	1)GOWRI KRISHNAMURTHY
(33) Name of priority country	:U.S.A.	2)NASIM UL HASSAN MALIK
(86) International Application No	:NA	3)EDWARD LANDIS WEIST, JR.
Filing Date	:NA	4)KING WAI HUNG
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A radial adsorber can be configured to facilitate utilization of different layers of material. The radial adsorber, system using at least one radial adsorber, and methods of utilizing embodiments of the radial adsorber can help permit improved efficient operation of fluid purification processing while also being configured to minimize, if not fully avoid, being susceptible to the effect of fluidization.

No. of Pages : 74 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114030990 A

(19) INDIA

(22) Date of filing of Application :09/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : INTEGRATED FLEXIBLE SENSOR FOR BLOOD PRESSURE MEASUREMENTS

(51) International classification	:A61B0005021000, A61B0005000000, A61B0005020500, A61B0005022000, A61B0005021500	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:16/928,933	(72) Name of Inventor :
(32) Priority Date	:14/07/2020	1)LEE, Joseph R.
(33) Name of priority country	:U.S.A.	2)SCHMITT, Joseph M.
(86) International Application No	:NA	3)YOUNG, Derek
Filing Date	:NA	4)JAIN, Pranay
(87) International Publication No	: NA	5)AMIN, Ali M.
(61) Patent of Addition to Application Number	:NA	6)TADELE, Wegene
Filing Date	:NA	7)ZENG, Zijing
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments are directed to a blood pressure measurement device including a cuff that is operative to wrap around a limb of a user, a bladder coupled to the cuff and operative to compress the limb of the user when inflated, and a piezoelectric sensor coupled to the cuff and operative to detect blood flow through the limb of the user and output a signal indicative of the blood flow. The blood pressure measurement device can also include a processor coupled with the piezoelectric sensor that is operative to filter the signal to isolate sounds corresponding to changes in the blood flow through the limb due to inflation of the bladder, correlate the isolated sounds with a pressure inside the bladder, and determine a blood pressure of the user at least partially based on correlating the isolated sounds with the pressure.

No. of Pages : 36 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114031116 A

(19) INDIA

(22) Date of filing of Application :12/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PRESSURE SENSOR

(51) International classification	:G01L0009000000, F16K0007120000, H01M0008027300, A61B0017000000, A61B0005022000	(71) Name of Applicant : 1)MIKUNI CORPORATION Address of Applicant :13-11, SOTOKANDA 6-CHOME, CHIYODA-KU, TOKYO 1010021, JAPAN Japan
(31) Priority Document No	:2020-123759	(72) Name of Inventor :
(32) Priority Date	:20/07/2020	1)KANETA, SATOSHI
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A pressure sensor is provided and includes housings (10, 20) that are formed to have a tubular shape; a pressure measurement member (80) that is accommodated inside the housing and includes a piezoelectric substance (83); a diaphragm (30) that has a flexible plate-shaped part (31) fixed to a tip side of the housings and a transfer part (32) protruding on an axis (S) to transfer a load to the pressure measurement member; and a heat shielding plate (40) that is held by the housings such that the diaphragm is covered, comes into contact with the diaphragm in a central region corresponding to the transfer part (32), and defines an annular void (Vs) between the heat shielding plate and the diaphragm in a region other than the central region.

No. of Pages : 39 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114031268 A

(19) INDIA

(22) Date of filing of Application :12/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : DETECTING FALLS USING A MOBILE DEVICE

(51) International classification	:G06Q0020320000, G08B0021040000, H04M0001725000, H04N0001000000, H04W0012000000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014-2094, United States of America U.S.A.
(31) Priority Document No	:16/929,043	(72) Name of Inventor :
(32) Priority Date	:14/07/2020	1)PHAM, Hung A.
(33) Name of priority country	:U.S.A.	2)JACKSON, Stephen P.
(86) International Application No	:NA	3)MAJJIGI, Vinay R.
Filing Date	:NA	4)JAYARAMAN RAGHURAM, Karthik
(87) International Publication No	: NA	5)ULLAL, Adeeti V.
(61) Patent of Addition to Application	:NA	6)RENARD, Yann Jerome Julien
Number	:NA	7)FORGETY III, Telford Earl
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In an example method, a mobile device obtains sample data generated by one or more sensors over a period of time, where the one or more sensors are worn by a user. The mobile device determines that the user has fallen based on the sample data, and determines, based on the sample data, a severity of an injury suffered by the user. The mobile device generates one or more notifications based on the determination that the user has fallen and the determined severity of the injury.

No. of Pages : 171 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114031270 A

(19) INDIA

(22) Date of filing of Application :12/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : DETECTING FALLS USING A MOBILE DEVICE

(51) International classification	:G06Q0020320000, G08B0021040000, H04M0001725000, H04N0001000000, H04W0012000000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014-2094, United States of America U.S.A.
(31) Priority Document No	:16/929,028	(72) Name of Inventor :
(32) Priority Date	:14/07/2020	1)TAN, Xing
(33) Name of priority country	:U.S.A.	2)SRINIVAS, Umamahesh
(86) International Application No	:NA	3)ULLAL, Adeeti V.
Filing Date	:NA	4)PHAM, Hung A.
(87) International Publication No	: NA	5)JAYARAMAN RAGHURAM, Karthik
(61) Patent of Addition to Application Number	:NA	6)MAJJIGI, Vinay R.
Filing Date	:NA	7)RENARD, Yann Jerome Julien
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In an example method, a mobile device receives motion data obtained by one or more sensors worn by a user. The mobile device determines, based on the motion data, that the user has fallen at a first time and whether the user has moved between a second time and a third time subsequent to the first time. Upon determining that the user has not moved between the second time and the third time, the mobile device initiates a communication to an emergency response service at a fourth time after the third time. The communication includes an indication that the user has fallen and a location of the user.

No. of Pages : 172 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114031271 A

(19) INDIA

(22) Date of filing of Application :12/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : DETECTING FALLS USING A MOBILE DEVICE

(51) International classification	:G06Q0020320000, G08B0021040000, H04M0001725000, H04N0001000000, H04W0012000000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014-2094, United States of America U.S.A.
(31) Priority Document No	:16/929,010	(72) Name of Inventor :
(32) Priority Date	:14/07/2020	1)SHARMA, Sheena
(33) Name of priority country	:U.S.A.	2)SRINIVAS, Umamahesh
(86) International Application No	:NA	3)ULLAL, Adeeti V.
Filing Date	:NA	4)ZHANG, Xiaoyue
(87) International Publication No	: NA	5)PHAM, Hung A.
(61) Patent of Addition to Application Number	:NA	6)JAYARAMAN RAGHURAM, Karthik
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In an example method, a mobile device receives motion data obtained by one or more sensors over a time period, where the one or more sensors are worn by a user, The mobile device determines, based on the motion data, an impact experienced by the user during the time of period, and determines one or more of characteristics of the user. The mobile device determines, based on the motion data and the one or more characteristics of the user, a likelihood that the user requires assistance subsequent to the impact, and generates one or more notifications based on likelihood.

No. of Pages : 172 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114031440 A

(19) INDIA

(22) Date of filing of Application :13/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : TARGET LOCALIZATION USING AC MAGNETIC FIELDS

(51) International classification	:A61B0018140000, A61N0005100000, H04B0005000000, A61N0002020000, G11C0019080000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014-2094, United States of America U.S.A.
(31) Priority Document No	:16/931,416	(72) Name of Inventor :
(32) Priority Date	:16/07/2020	1)LIU, Sheng
(33) Name of priority country	:U.S.A.	2)GUO, Jian
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A device operates in pairing mode, indoor navigation mode or search mode. For each mode, a magnetic sensor in the device senses one or more alternating current (AC) magnetic fields emitted by one or more transmitters in a threedimensional (3D) space, and uses the one or more AC magnetic fields to determine a position of the device relative to the one or more transmitters or another device. In pairing mode, relative position vectors computed from two or more AC magnetic fields allows the device to choose the closest transmitter for pairing. In indoor navigation mode, multiple detections of AC magnetic fields emitted by multiple transmitters assist a user in navigating an indoor space. In search mode, a companion device and a lost device each sense an AC magnetic field from a transmitter, and the AC magnetic fields are used to determine a relative position vector from the companion device to the lost device.

No. of Pages : 41 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114031465 A

(19) INDIA

(22) Date of filing of Application :13/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : STEAM TURBINE HOLLOW BLADE

(51) International classification	:B23P0015040000, F01D0005140000, F01D0025320000, F01D0009060000, F01D0005180000	(71) Name of Applicant : 1)Mitsubishi Power, Ltd. Address of Applicant :3-1, Minatomirai 3-Chome, Nishi-ku, Yokohama-shi, Kanagawa 220-8401, Japan Japan
(31) Priority Document No	:2020-123594	(72) Name of Inventor :
(32) Priority Date	:20/07/2020	1)Yasuhiro SASAO
(33) Name of priority country	:Japan	2)Soichiro TABATA
(86) International Application No	:NA	3)Ryo TAKATA
Filing Date	:NA	4)Nao TANIGUCHI
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A steam turbine hollow stationary blade is able to reduce the amount of water droplets captured on a blade surface. The steam turbine hollow stationary blade, which has a cavity therein, includes a partition wall dividing the cavity into a pressure chamber on a leading edge side and an exhaust chamber on a trailing edge side, at least one steam inlet hole connecting the pressure chamber and an outside of the stationary blade to each other, and at least one pressure conditioning hole connecting the pressure chamber and the exhaust chamber. Total opening area of the pressure conditioning hole is smaller than total opening area of the steam inlet hole.

No. of Pages : 38 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114031679 A

(19) INDIA

(22) Date of filing of Application :14/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : STATOR BLADE HEATING SYSTEM, STEAM TURBINE HAVING STATOR BLADE HEATING SYSTEM, STATOR BLADE SEGMENT, AND STATOR BLADE HEATING METHOD

(51) International classification	:F03D0080400000, F01D0009040000, B26B0021480000, F01D0011000000, F04D0029540000	(71) Name of Applicant : 1)Mitsubishi Power, Ltd. Address of Applicant :3-1, Minatomirai 3-Chome, Nishi-ku, Yokohama-shi, Kanagawa 220-8401, Japan Japan
(31) Priority Document No	:2020-123181	(72) Name of Inventor :
(32) Priority Date	:17/07/2020	1)Yurika SEO
(33) Name of priority country	:Japan	2)Yasuhiro SASAO
(86) International Application No	:NA	3)Takeshi KUDO
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A stator blade heating system 20 is to heat a hollow stator blade 10 of a steam turbine, and includes: an electromagnetic coil 21 disposed within a hollow portion 10e of the stator blade 10; and a heating device 22 electrically connected to the electromagnetic coil 21 and capable of supplying an alternating current to the electromagnetic coil 21. A core 24 wound with the electromagnetic coil 21 is disposed within the hollow portion 10e of the stator blade 10. The stator blade heating system further includes a regulator 26 that regulates output of the alternating current of the heating device 22, and a temperature sensor 25 that detects temperature of the stator blade 10. The regulator 26 regulates the output of the heating device 22 on the basis of the temperature detected by the temperature sensor 25.

No. of Pages : 47 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114031686 A

(19) INDIA

(22) Date of filing of Application :14/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PUMP SEAL

(51) International classification	:F04D0029120000, F04D0029100000, F04D0029080000, F04B0007000000, F16J0015340000	(71) Name of Applicant : 1)CHART INC. Address of Applicant :3055 Torrington Drive, Ball Ground, Georgia 30107, USA U.S.A.
(31) Priority Document No	:63/052,018	(72) Name of Inventor :
(32) Priority Date	:15/07/2020	1)THOR, Eric
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An annular seal for sealing an opening in a pump housing surrounding a piston rod includes a primary sealing portion with an inner surface adjacent to the piston rod and an outer surface adjacent to the pump housing. An initial sealing portion features an inner wall and an outer wall so that an annular space is defined therebetween. A top wall extends between the inner and outer walls. A coil spring is positioned within the annular space of the initial sealing portion and urges the inner wall into engagement with the piston rod and the outer wall into engagement with the pump housing.

No. of Pages : 18 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114031863 A

(19) INDIA

(22) Date of filing of Application :15/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : MOTOR AND ELECTRICAL PRODUCT

(51) International classification	:H02K0011300000, G01K0001140000, H02K0001180000, H02K0005040000, H02K0021240000	(71) Name of Applicant : 1)NIDEC CORPORATION Address of Applicant :338 KUZETONOSHIRO-CHO, MINAMI-KU, KYOTO 601-8205, JAPAN Japan
(31) Priority Document No	:202010692060.X	(72) Name of Inventor :
(32) Priority Date	:17/07/2020	1)MURAKAMI, SHUNSUKE
(33) Name of priority country	:China	2)IDA, MASAO
(86) International Application No	:NA	3)SAMBUICHI, HIROSHI
Filing Date	:NA	4)SONODA, MASASHI
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A motor and an electrical product are provided. The motor includes a rotor (10), a stator (20), a bearing (30), a housing (40) having a wall portion (41) and a bearing holder (42), a temperature sensor (50), a temperature sensor wire (60), a sensor substrate (70), and a sensor substrate wire (80). The sensor substrate wire (80) is electrically connected to the sensor substrate (70), extends to an outer side of the wall portion (41), and is fixed to the housing (40) via a fixing member (90). After the temperature sensor wire (60) is connected to the sensor substrate (70) fixed to the housing (40), the sensor substrate wire (80) is fixed to the housing (40) via the fixing member (90). In this way, a load from an outer side of the housing (40) is neither applied to the temperature sensor wire (60) nor the temperature sensor (50).

No. of Pages : 28 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114031878 A

(19) INDIA

(22) Date of filing of Application :15/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : LOCK

(51) International classification	:B62H0005060000, B62H0005140000, B25F0005000000, B62H0003080000, E05B0019000000	(71) Name of Applicant : 1)TEAM YOUNG TECHNOLOGY CO., LTD. Address of Applicant :18F.-1, NO.400, HUANBEI RD., ZHONGLI DISTRICT, TAOYUAN CITY 32070, TAIWAN
(31) Priority Document No	:109124129	(72) Name of Inventor :
(32) Priority Date	:16/07/2020	1)LIU, CHIH-HUNG
(33) Name of priority country /region	:Taiwan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A lock (1) for locking a bike is provided. To lock the bike, a user inserts a rope head (31) into the lock (1) through a lock hole (131). The rope head (31) drives a slider (20) in the lock (1), and the slider (20) drives a pin (40), causing an upper-rotation shaft of the lock (1) become not linked to move with a lower-rotation shaft of the lock (1). Since the upper-rotation shaft and the lower-rotation shaft of the lock (1) are respectively connected to a handlebar and a front wheel of the bike, the user is unable to control the front wheel through the handlebar.

No. of Pages : 35 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114032254 A

(19) INDIA

(22) Date of filing of Application :17/07/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : OUTLET VALVE

(51) International classification	:F16K0027020000, F16K0027000000, B05B0001180000, E03C0001040000, F16K0011100000	(71) Name of Applicant : 1)Shanghai Kohler Electronics, Ltd. Address of Applicant :No. 1955, Fengxiang Road, Baoshan District, Shanghai – 200444 CHINA China
(31) Priority Document No	:202010690613.8	(72) Name of Inventor : 1)Xiaojun ZHOU
(32) Priority Date	:17/07/2020	
(33) Name of priority country	:China	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An outlet valve includes a valve body, a solenoid valve, and a manual operating member. The valve body includes a water inlet, a water outlet, a water storage cavity, a drain waterway, a first waterway, a second waterway, and a waterproof membrane. The first waterway is coupled to the drain waterway through a first drain opening. The second waterway is coupled to the drain waterway through a second drain opening. The waterproof membrane is configured to separate the water outlet cavity from the water storage cavity. The first waterway comprises a first plug coupled to an output end of the solenoid valve. The first plug is configured to control the opening and closing of the first drain opening. The second waterway comprises a second plug coupled to the manual operating member. The second plug is configured to control the opening and closing of the second drain opening.

No. of Pages : 31 No. of Claims : 10

(54) Title of the invention : FACE MASK DISPENSER

(51) International classification	:B65D0083080000, A61M0016060000, A41D0013110000, H01L0051560000, A47K0010380000	(71) Name of Applicant : 1)GROETHE, Christine Address of Applicant :2429 Gray Street, Edgewater, Colorado 80214, United States of America U.S.A.
(31) Priority Document No	:63/053,981	(72) Name of Inventor : 1)GROETHE, Christine
(32) Priority Date	:20/07/2020	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The facemask dispensing device an apparatus that is intended to dispense a protective equipment such as masks to a user before entering a building or other location. The dispenser allows a user to extract a single use mask without having to touch other surfaces or masks contained in the dispenser. The dispenser is provided a body which houses a plurality of masks and a mounting plate that may allow for the dispenser to be mounted onto a wall. The plurality of masks may be push towards a front of the dispenser to an opening where a user can simply grab a mask to wear. Each of the plurality of masks may be contained in a package to further prevent contamination of other masks positioned inside the dispenser. Furthermore, the dispenser may be positioned in a vertical manner instead of being mounted onto a wall.

No. of Pages : 18 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018795 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : TREE-BASED DATA EXPLORATION AND DATA-DRIVEN PROTOCOL

(51) International classification	:A61M0001120000, A61M0001100000, G10L0025840000, H04R0003000000, G16H0050700000	(71) Name of Applicant : 1)ABIOMED, INC. Address of Applicant :22 Cherry Hill Drive Danvers, MA 01923 U.S.A.
(31) Priority Document No	:62/741985	(72) Name of Inventor :
(32) Priority Date	:05/10/2018	1)LIU, Chen
(33) Name of priority country	:U.S.A.	2)KATERJI, Ahmad, El
(86) International Application No	:PCT/US2019/054863	
Filing Date	:04/10/2019	
(87) International Publication No	:WO 2020/072999	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for providing a treatment recommendation to a physician for treating a patient is disclosed. The method comprises determining, from a processor in communication with a patient data repository, a first treatment recommendation based on a combination of selected patient demographics from the patient data repository applicable to the patient, and operational parameters of a plurality of ventricular assist devices (VADs) suitable for treating the patient, the first treatment recommendation having a first survival rate and comprising the use of a first VAD, The method then obtains a first Signal from using the first VAD on the patient. The method then determines a second treatment recommendation based on the first signal and the first treatment recommendation, the second treatment recommendation having a second survival rate. The method then provides the second treatment recommendation to the physician if the second survival rate is higher than the first survival rate.

No. of Pages : 25 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018809 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : VALVE CONTROL METHOD AND CONTROL TERMINAL

(51) International classification	:F16K0051000000, F16K0031530000, F16K0031040000, F02M0059360000, B01D0029640000	(71) Name of Applicant : 1)XIE, Meng Address of Applicant :Room 9-2406 of Junyuexiangdi Wujialin, Kaifu District Changsha, Hunan 410000 China
(31) Priority Document No	:201811372214.6	(72) Name of Inventor : 1)XIE, Meng
(32) Priority Date	:18/11/2018	
(33) Name of priority country	:China	
(86) International Application No	:PCT/CN2019/114417	
Filing Date	:30/10/2019	
(87) International Publication No	:WO 2020/098500	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A valve control method comprises: configuring a condition for periodically triggering self-cleaning; and when a valve is continuously in an opened or closed state, or a preset time point is reached, repeatedly opening and closing the valve several times within a short period of time, such that dirt on a contact surface of a valve element is automatically removed by means of vertical or rotational movement of the valve element so as to prevent the case in which the valve is in a static state for a long period of time which causes impurities in a pipeline to be deposited on the surface of the valve element, and thereby causing the valve element to jam or have increased movement resistance. In addition, the resilience of mechanical parts such as a spring and a rubber member in the valve is not reduced as a result of the valve being in the closed or opened state for a long period of time, and the flexibility thereof is maintained. Also disclosed is a valve control terminal. In the control method and the control terminal, a valve body does not need to be disassembled, and no hardware needs to be added. The invention is easy to implement, and greatly improves the reliability of a valve.

No. of Pages : 19 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018814 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : BIOBASED BARRIER COATINGS COMPRISING POLYOL/SACCHARIDE FATTY ACID ESTER BLENDS

(51) International classification	:D21H0021160000, B65D0065420000, B65D0065460000, D21H0027100000, C09D0191000000
(31) Priority Document No	:62/736919
(32) Priority Date	:26/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/039785
Filing Date	:28/06/2019
(87) International Publication No	:WO 2020/068235
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)GREENTECH GLOBAL PTE. LTD.

Address of Applicant :9 Raffles Place, Republic Plaza 1, #06-00 Singapore 048616 Singapore

(72)Name of Inventor :

1)SPENDER, Jonathan

2)BILODEAU, Michael, Albert

3)MIKAIL, Samuel

(57) Abstract :

A method of treating cellulosic materials with a barrier coating comprising at least two polyol and/or saccharide fatty acid ester, having different HBL values, that provides increased water, oil and grease resistance to such materials without sacrificing the biodegradability thereof. The method as disclosed provide for adhering of the barrier coating on articles including articles comprising cellulosic materials and articles made by such method. The materials thus treated display higher hydrophobicity and lipophobicity and may be used in any application where such features are desired.

No. of Pages : 60 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018816 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ENDOSCOPIC SYSTEM FOR ENERGY DELIVERY

(51) International classification	:A61B0018000000, A61B0018140000, A61B0017000000, A61B0018180000, A61B0017320000	(71) Name of Applicant : 1)NEUWAVE MEDICAL, INC. Address of Applicant :3529 Anderson Street Madison, Wisconsin 53704 U.S.A.
(31) Priority Document No	:62/771825	(72) Name of Inventor :
(32) Priority Date	:27/11/2018	1)THOM, Mark
(33) Name of priority country	:U.S.A.	2)THIEL, Matthew
(86) International Application No	:PCT/IB2019/060186	3)MINGIONE, Louie
Filing Date	:26/11/2019	
(87) International Publication No	:WO 2020/109999	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to flexible sheath assemblies configured to withstand high amounts of temperature during endoscopic energy delivery procedures, and related systems and methods of use. In particular, the present invention provides a sheath assembly having a flexible elongate tubular body designed with a temperature resistant polymer and/or a temperature resistant braided material. Such sheath assemblies are configured for use in any kind of endoscopic energy delivery procedure (e.g., tissue ablation, resection, cautery, vascular thrombosis, treatment of cardiac arrhythmias and dysrhythmias, electrosurgery, tissue harvest, etc.).

No. of Pages : 15 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018817 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ADVANCED PROCESSING OF ABSORBABLE POLY(P-DIOXANONE) CONTAINING HIGH LEVEL OF P-DIOXANONE MONOMER

(51) International classification	:B29B0009060000, C08G0063880000, C08J0003120000, C08F0002010000, C08G0063664000	(71) Name of Applicant : 1)ETHICON, INC. Address of Applicant :P.O. Box 151 U.S. Route 22 Somerville, New Jersey 08876 U.S.A.
(31) Priority Document No	:16/202454	(72) Name of Inventor :
(32) Priority Date	:28/11/2018	1)ANDJELIC, Sasa
(33) Name of priority country	:U.S.A.	2)KELLY, Brian M.
(86) International Application No	:PCT/IB2019/059974	3)WISNUDEL, Marc
Filing Date	:20/11/2019	
(87) International Publication No	:WO 2020/109930	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is directed methods of making absorbable poly(p-dioxanone) pellets by melt polymerization of p-dioxanone conducted in a single reactor with a temperature regulator by charging a melt reactor with a mixture of p-dioxanone (PDO) monomer, initiator, catalyst, and optionally a dye; melt polymerizing the mixture in the melt reactor with sufficient agitation of the mixture to allow complete mixing of the monomer and for sufficient time to form a PDO polymer product having an unreacted PDO monomer content of at least 65 mole percent; placing the PDO polymer product under a vacuum to remove at least portion of unreacted PDO; discharging the PDO polymer product from the melt reactor directly into an in-line, underwater pelletizer to produce undried PDO pellets, collecting the undried PDO pellets, and storing the collected PDO pellets in the freezer or a vacuum chamber prior to drying.

No. of Pages : 23 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018818 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : CLUTCH CONTROL DEVICE

(51) International classification	:F16D0048060000, B60W0010060000, F16H0063500000, B60W0010020000, F16D0048020000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan
(31) Priority Document No	:2018-180744	(72) Name of Inventor :
(32) Priority Date	:26/09/2018	1)ONO Junya
(33) Name of priority country	:Japan	2)RYUZAKI Tatsuya
(86) International Application No	:PCT/JP2019/036889	3)MORITA Go
Filing Date	:20/09/2019	4)MATSUURA Kohei
(87) International Publication No	:WO 2020/066869	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This clutch control device is provided with: an engine (13); a transmission (21); a clutch device (26) for connecting/disconnecting power transmission between the engine (13) and the transmission (21); a clutch actuator (50) for changing clutch capacity by driving the clutch device (26); a clutch operator (4b) enabling manual operation of the clutch device (26); and a control unit (60) for calculating a target control value of the clutch capacity in accordance with the operation amount of the clutch operator (4b). The control unit (60), while performing first control for connecting the clutch device (26) by operation of the clutch operator (4b), interveniently performs second control for limiting the clutch capacity in accordance with the engine rotation speed and estimated engine torque, without using the operation of the clutch operator (4b).

No. of Pages : 40 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018820 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ENVIRONMENTAL CONTROL SYSTEM AND ENVIRONMENTAL CONTROL METHOD

(51) International classification	:A61N0001360000, G05B0015020000, F24F0011770000, F03D0001060000, F24F0011740000	(71) Name of Applicant : 1)PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD. Address of Applicant :1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 5406207 Japan
(31) Priority Document No	:2018-207201	(72) Name of Inventor :
(32) Priority Date	:02/11/2018	1)AOKI, Saki
(33) Name of priority country	:Japan	2)SUZUKA, Yuko
(86) International Application No	:PCT/JP2019/041859	3)KOSHIMIZU, Takanori
Filing Date	:25/10/2019	4)IWAHORI, Yutaka
(87) International Publication No	:WO 2020/090642	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This environmental control system (10) is provided with: a blower (20) which blows air towards a subject (200); and a control device (120) which, at a prescribed timing, switches between first control, which prioritizes action of the sympathetic nervous system of the subject (200) over action of the parasympathetic nervous system by changing the wind speed of the air blown by the blower (20) at a prescribed cycle, and second control, which prioritizes action of the parasympathetic nervous system of the subject (200) over action of the sympathetic nervous system by making the wind speed of air blown by the blower (20) lower than in the first control.

No. of Pages : 38 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018821 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ELECTRICALLY SHIELDED ARTICLE

(51) International classification :C09D0011520000,
H05K0001090000,
H05K0003120000,
H05K0001020000,
H05K0003400000

(31) Priority Document No :62/738089

(32) Priority Date :28/09/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/052818
Filing Date :25/09/2019

(87) International Publication No :WO 2020/068893

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)PPG INDUSTRIES OHIO, INC.

Address of Applicant :3800 West 143rd Street Cleveland,
Ohio 44111 U.S.A.

(72)Name of Inventor :

1)BOYER, James L.

2)DEBERRY, Shawn, R.

3)HAHN, Michael, W.

4)HAWKE, Logan, T.

5)SIUDA, Ewa

(57) Abstract :

An electrically shielded article includes a flexible and/or elongatable substrate and a conductive ink applied over at least a portion of the substrate. The conductive ink includes a resin and a conductive material. When the conductive ink is applied over the substrate, the conductive material in the conductive ink is present over the substrate in an amount of at least 5 g/m². The electrically shielded article exhibits a signal loss of at least 5 dBm at up to 4 mm according to the NFC Detuning Test. A method of preparing an electrically shielded article and an identification device including the electrically shielded article are also disclosed.

No. of Pages : 36 No. of Claims : 28

(54) Title of the invention : ORGANIC LIGHT EMITTING DISPLAY DEVICE

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:H01L0027320000, H01L0051520000, H04N0021440200, H01L0025040000, G01D0007000000</p> <p>:10-2018-0116624</p> <p>:28/09/2018</p> <p>:Republic of Korea</p> <p>:PCT/KR2019/000580</p> <p>:15/01/2019</p> <p>:WO 2020/067611</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)SAMSUNG DISPLAY CO., LTD. Address of Applicant :1, Samsung-ro, Giheung-Gu Yongin-si Gyeonggi-do 17113 Republic of Korea</p> <p>(72)Name of Inventor : 1)CHUNG, Jinkoo 2)KIM, Sungchul 3)CHOI, Beohmrock 4)KO, Gunwoo 5)CHO, Seongmin 6)CHOI, Joonhoo</p>
---	---	---

(57) Abstract :

An organic light emitting display device may comprise: a display panel which includes a first display area including a first sub-pixel area and having a first resolution, and a second display area including a second sub-pixel area and a first transmission area and having a second resolution lower than the first resolution, and displays an image on a first surface thereof; and a first optical module disposed to overlap the second display area on a second surface of the display panel opposite to the first surface thereof. Accordingly, an image can be displayed even at a portion where the first optical module is disposed.

No. of Pages : 81 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018828 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYSTEM, CONTROL PLANE DEVICE, USER PLANE DEVICE, AND PROGRAM

(51) International classification	:H04W0076100000, H04L0029120000, H04W0080100000, H04W0008260000, H04W0076120000	(71) Name of Applicant : 1)SOFTBANK CORP. Address of Applicant :1-9-1 Higashi-shimbashi, Minato-ku, Tokyo 1057317 Japan
(31) Priority Document No	:2018-179691	(72) Name of Inventor :
(32) Priority Date	:26/09/2018	1)WATANABE Satoshi
(33) Name of priority country	:Japan	2)TABUCHI Kazuya
(86) International Application No	:PCT/JP2019/038004	3)MIYAIRI Atsushi
Filing Date	:26/09/2019	4)YOKOYAMA Tomohiro
(87) International Publication No	:WO 2020/067361	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This system is provided with a control plane device and a plurality of user plane devices. The control plane device comprises: a request reception unit for receiving a session creation request transmitted by a mobility management device that has received a connection request from a user terminal; a user plane device selection unit that uses the session creation request as a basis to select a user plane device corresponding to the user terminal from among the plurality of user plane devices; an address acquisition unit that uses the session creation request as a basis to acquire an IP address to be assigned to the user terminal from a shared address range shared by a plurality of networks corresponding individually to each of the plurality of user plane devices; and a response transmission unit that transmits a session creation response including the IP address assigned to the user terminal, identification information and an IP address for the user plane device selected by the user plane device selection unit, and the IP address of a PGW-U to the mobility management device as a response to the session creation request. Communication between the user terminal and a server connected to a network corresponding to the user plane device among the plurality of networks is relayed via the network and not via the PGW-U by the user plane device selected by the user plane device selection unit.

No. of Pages : 53 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018830 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : STOMACH TUBE

(51) International classification :A61J0015000000,
A61F0005000000,
A61B0017000000,
A61M0003020000,
A61M0025040000

(31) Priority Document No :PL427731

(32) Priority Date :11/11/2018

(33) Name of priority country :Poland

(86) International Application No :PCT/IB2019/059008
Filing Date :22/10/2019

(87) International Publication No :WO 2020/095135

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DIB, Naser

Address of Applicant :ul. Nowaka Jezioranskiego 50/29 03-982 Warszawa Poland

(72)Name of Inventor :

1)DIB, Naser

(57) Abstract :

The stomach tube (1) according to the invention is a transparent conduit (2) in the form of a plastic tube which is equipped with an optical fibre (3) with illuminating external surface, with its internal end (4) placed in the section of the stomach tube (1) for insertion in the patient's stomach (8), and an external end (5) for connection with a light source provided outside the stomach tube (1) in the section of the stomach tube (1) remaining outside the patient's body. The conduit (2) of the stomach tube (1) in its interior comprises a first channel (21) which is a transport channel, and a second channel (22) in which the optical fibre (3) is located. The stomach tube (1) is intended for use in bariatric surgery procedures, and in particular in the sleeve gastrectomy procedure.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018832 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SUBSTITUTED 6-AZABENZIMIDAZOLE COMPOUNDS HAVING HPK1 INHIBITORY ACTIVITY

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:A61K0045060000, C07D0519000000, C07D0471040000, A61P0035000000, A61K0031437000</p> <p>:62/753355</p> <p>:31/10/2018</p> <p>:U.S.A.</p> <p>:PCT/US2019/058813 :30/10/2019</p> <p>:WO 2020/092528</p> <p>:NA :NA</p> <p>:NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)GILEAD SCIENCES, INC. Address of Applicant :333 Lakeside Drive Foster City, California 94404 U.S.A.</p> <p>(72)Name of Inventor :</p> <p>1)BALAN, Gayatri 2)BARTLETT, Mark J. 3)CHANDRASEKHAR, Jayaraman 4)CODELLI, Julian A. 5)CONWAY, John H. 6)COSMAN, Jennifer L. 7)KALLA, Rao V. 8)KIM, Musong 9)LEE, Seung H. 10)LO, Jennifer R. 11)LOYER-DREW, Jennifer A. 12)MITCHELL, Scott A. 13)PERRY, Thao D. 14)PHILLIPS, Gary B. 15)SALVO, Patrick J. 16)VAN VELDHUIZEN, Joshua J. 17)YEUNG, Suet C. 18)ZABLOCKI, Jeff</p>
--	---	---

(57) Abstract :

The present disclosure relates generally to certain 6-azabenzimidazole compounds, pharmaceutical compositions comprising said compounds, and methods of making and using said compounds and pharmaceutical compositions. The compounds and compositions disclosed herein may be used for the treatment or prevention of diseases, disorders, or infections modifiable by hematopoietic progenitor kinase 1 (HPK1) inhibitors, such as HBV, HIV, cancer, and/or a hyper-proliferative disease.

No. of Pages : 387 No. of Claims : 91

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018844 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : DLL3 BINDING PROTEINS AND METHODS OF USE

(51) International classification :C07K0016280000,
C07K0016300000,
C07K0016180000,
C07K0014470000,
C07D0487040000

(31) Priority Document No :62/736358
(32) Priority Date :25/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/053017
Filing Date :25/09/2019
(87) International Publication No :WO 2020/069028
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)HARPOON THERAPEUTICS, INC.
Address of Applicant :131 Oyster Point Boulevard Suite 300
South San Francisco, California 94080 U.S.A.
(72)**Name of Inventor :**
1)WESCHE, Holger
2)AUSTIN, Richard J.

(57) Abstract :

Provided herein are DLL3 binding proteins and DLL3 targeting multispecific proteins (e.g., DLL3 targeting trispecific protein) comprising a domain binding to CD3, a half-life extension domain, and a domain binding to DLL3 (such as a DLL3 binding protein as provided herein). Also provided are pharmaceutical compositions thereof, as well as nucleic acids, recombinant expression vectors and host cells for making such DLL3 binding proteins, DLL3 targeting trispecific proteins. Also disclosed are methods of using the disclosed DLL3 binding proteins, DLL3 targeting trispecific proteins in the prevention, and/or treatment diseases, conditions and disorders.

No. of Pages : 152 No. of Claims : 122

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018856 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYSTEMS AND METHODS TO ESTIMATE NOMINAL STRESS USING FINITE ELEMENT CALCULATED STRESS

(51) International classification :G06F0030230000,
A61F0013150000,
G06Q0040020000,
G06F0040140000,
A61K0045060000

(31) Priority Document No :62/751186
(32) Priority Date :26/10/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/053975
Filing Date :01/10/2019
(87) International Publication No :WO 2020/086222
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)UNIVERSAL CITY STUDIOS LLC
Address of Applicant :100 Universal City Plaza Universal
City, California 91608 U.S.A.
(72)**Name of Inventor :**
1)LEPI, Steven Michael
2)GIOVANETTI, Jordan Carlo

(57) Abstract :

Systems and methods described herein are configured to estimate nominal stress using finite element (FE) stress calculations, without hand calculations, specific mesh density requirements, or identifying specific geometric parameters such as plate thickness. The systems and methods described herein may be utilized to identify nominal stress in welded structures and components, and also in non-welded components that have stress raisers due to other causes. The systems and methods described herein also allow readily available FE stress results to be utilized in a consistent manner, as well as providing user feedback regarding the accuracy of the nominal stress approximations. Furthermore, the systems and methods described herein are generally faster and less error prone than conventional techniques, and are relatively insensitive to mesh density of the FE stress calculations.

No. of Pages : 17 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018857 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : GENERATING TEST CASES FOR A SOFTWARE APPLICATION AND IDENTIFYING ISSUES WITH THE SOFTWARE APPLICATION AS A PART OF TEST CASE GENERATION

(51) International classification :G06F0011360000,
G06N0020000000,
G06F0008340000,
G06N0007000000,
G06F0003048100

(31) Priority Document No :62/749527

(32) Priority Date :23/10/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/057720
Filing Date :23/10/2019

(87) International Publication No :WO 2020/086757

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)FUNCTIONIZE, INC.
Address of Applicant :1255 Treat Blvd Suite 300, Walnut Creek, CA 94597, USA. U.S.A.

(72)**Name of Inventor :**
1)SEATON, Jonathon, R.
2)CSER, Tamas

(57) Abstract :

A system for generating a test case for a software application. The system includes an electronic processor. The electronic processor is configured to receive user actions recorded as a user interacts with a first software application and generate a probabilistic graphical model using recorded user actions. The electronic processor is also configured to divide the probabilistic graphical model into clusters of similar sequences of user actions, determine a test case from a cluster of similar sequences of user actions using a machine learning system, and execute the test case.

No. of Pages : 14 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018859 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SET CONSISTING OF A PUMP DISPENSER AND AN EVALUATION UNIT

(51) International classification	:B05B0011000000, B05C0017005000, A22B0005000000, A61K0008978900, A45D0034000000	(71) Name of Applicant : 1)APTAR RADOLFZELL GMBH Address of Applicant :Öschlestraße 54-56 78315 Radolfzell Germany
(31) Priority Document No	:18199176.1	(72) Name of Inventor :
(32) Priority Date	:08/10/2018	1)MARSH, William Geoffrey Arthur
(33) Name of priority country	:EPO	2)KÖRNER, Joachim
(86) International Application No	:PCT/EP2019/075749	3)JONES, Matthew Meredith
Filing Date	:24/09/2019	4)GRAHAM, Dominic Alexander
(87) International Publication No	:WO 2020/074254	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a set consisting of a largely conventional pump dispenser (10) for discharging pharmaceutical or cosmetic liquids and an external evaluation unit (100, 200), which is designed to be exchangeable so that, after a pump dispenser (10) has been emptied, said evaluation unit can be attached to a new pump dispenser (10). The invention proposes different designs to obtain the external evaluation unit (100, 200). The evaluation unit (100) can be attached to the discharging head (30) of the pump dispenser (10) such that said evaluation unit detects an actuation button (60) and can be partially displaced with same. The evaluation unit (200) can alternatively have a receiving container which is open on at least one side and into which the pump dispenser (10) can be inserted and the force application of which is detected on actuation.

No. of Pages : 19 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018860 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SPECIAL EFFECTS VISUALIZATION TECHNIQUES

(51) International classification	:A61B0005000000, G06F0016210000, H01L0021027000, H04W0008120000, H04N0021478800	(71) Name of Applicant : 1)UNIVERSAL CITY STUDIOS LLC Address of Applicant :100 Universal City Plaza Universal City, California 91608 U.S.A.
(31) Priority Document No	:62/752216	(72) Name of Inventor :
(32) Priority Date	:29/10/2018	1)SCHWARTZ, Justin
(33) Name of priority country	:U.S.A.	2)VAMOS, Clarisse
(86) International Application No	:PCT/US2019/047319	3)ALTER, David
Filing Date	:20/08/2019	4)HARE, Justin
(87) International Publication No	:WO 2020/091877	5)PAUL, Ryan
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method may include acquiring, via a capture system, a dataset associated with a user at a first location, detecting, via a control system, the user at a second location, displaying, via an environmental system, one or more images generated from the dataset at the second location in response to detecting the user at or past the second location, and triggering, via a special effect system, a special effect during the displaying at the second location in response to detecting the user at or past the second location. The dataset may include image data of the user.

No. of Pages : 32 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018861 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : RADIO TERMINAL, RADIO ACCESS NETWORK NODE, AND METHOD FOR THESE

(51) International classification	:H04W0074080000, H04W0072140000, H04W0072040000, H04W0072120000, H04W0074000000	(71) Name of Applicant : 1)NEC CORPORATION Address of Applicant :7-1, Shiba 5-chome, Minato-ku, Tokyo 1088001 Japan
(31) Priority Document No	:2018-202276	(72) Name of Inventor :
(32) Priority Date	:26/10/2018	1)FUTAKI Hisashi
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/032470	
Filing Date	:20/08/2019	
(87) International Publication No	:WO 2020/084878	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A radio terminal (2) transmits a first message of a two-step random access procedure, and then attempts to receive a second message of the two-step random access procedure. In response to the reception of the second message of the two-step random access procedure having succeeded and the second message having been determined to explicitly or implicitly indicate a fallback to a four-step random access procedure, the radio terminal (2) further attempts to receive a control message that includes an uplink grant indicating an uplink resource that can be used for the transmission of a third message of the four-step random access procedure. Thus, it is possible, for example, to contribute to lightening the load on a radio terminal that supports a fallback from a two-step random access procedure to a four-step random access procedure.

No. of Pages : 53 No. of Claims : 43

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018864 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AIRBAG DEVICE FOR SADDLE RIDING TYPE VEHICLE

(51) International classification	:B62J0027000000, B60R0021231000, B60R0021160000, B62K0011100000, B60R0021000000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan
(31) Priority Document No	:PCT/JP2018/036391	(72) Name of Inventor : 1)SATO Takashi
(32) Priority Date	:28/09/2018	
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2018/036391	
Filing Date	:28/09/2018	
(87) International Publication No	:WO 2020/065948	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In order to enable an airbag device to be compactly arranged on the front part of a saddle riding-type vehicle, this airbag device for a saddle riding-type vehicle is provided with: an inflator 53; an airbag 52 that is expanded by a gas discharged from the inflator 53; and a retainer 51 that stores the airbag 52, wherein the airbag 52 deploys upward from an opening 51e of the retainer 51. The retainer 51 is provided under a meter 36 provided in the vicinity of a steering handle 23, and the meter 36 covers the opening 51e so that the opening can be opened/closed.

No. of Pages : 19 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018866 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PROTEIN PURIFICATION METHODS

(51) International classification	:C07K0014470000, C12N0015700000, C07K0016460000, C07K0001340000, C07K0001200000	(71) Name of Applicant : 1)ABSCI, LLC Address of Applicant :Ste 350 101 E 6th St Vancouver, WA 98660 U.S.A.
(31) Priority Document No	:62/735861	(72) Name of Inventor :
(32) Priority Date	:25/09/2018	1)PATTERSON, Melissa
(33) Name of priority country	:U.S.A.	2)MCCLAIN, Sean
(86) International Application No	:PCT/US2019/052998	3)LIU, Jia
Filing Date	:25/09/2019	
(87) International Publication No	:WO 2020/069011	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides methods of purifying proteins, which are expressed in the form of solubilizable complexes that yield properly folded and active proteins when solubilized. Further aspects of the invention relate to polypeptides that can be used in the expression and purification of proteins.

No. of Pages : 91 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018873 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ELECTRIC PEDELEC BOTTOM BRACKET DRIVE

(51) International classification	:B60H0001320000, B62M0006550000, B62M0003000000, H01S0005024000, B60L0050510000	(71) Name of Applicant : 1)AMPRIO GMBH Address of Applicant :Alfred-Pierburg-Str. 1 41460 Neuss Germany
(31) Priority Document No	:18197558.2	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)MISGELD, Berno Johannes Engelbert
(33) Name of priority country	:EPO	2)GREVEN, Dietmar
(86) International Application No	:PCT/EP2019/074090	
Filing Date	:10/09/2019	
(87) International Publication No	:WO 2020/064324	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to an electric pedelec bottom bracket drive for a bicycle (10). The bottom bracket drive has the following: a drive unit (20) with a supporting electric drive motor (30) in a drive unit housing (22), which is thermally paired with a housing temperature sensor (32), and a drive controller (50), which supplies the drive motor (30) with electric drive energy. The drive controller (50) has a housing temperature control module (51) which is connected to the housing temperature sensor (32) and controls the electric drive energy (E) such that the housing threshold temperature (Tmax) is not exceeded. An ambient temperature detector (44) is provided outside of the drive unit housing (22), said detector detecting the air temperature (Tair) outside of the drive unit housing (22) and being connected to the housing temperature control module (51). The housing temperature control module (51) limits the maximum electric drive energy (Emax) on the basis of the air temperature (Tair) if the housing temperature (Th) detected by the housing temperature detector (33) lies above a regulating engagement threshold temperature (Tr) which lies below the housing threshold temperature (Tmax).

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018874 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHOD FOR CO-PRODUCTION OF AVIATION FUEL AND DIESEL

(51) International classification :C10G0003000000,
C10G0065080000,
C10G0065120000,
C07C0001200000,
C10L0001040000

(31) Priority Document No :PA 2018 00767

(32) Priority Date :24/10/2018

(33) Name of priority country :Denmark

(86) International Application No :PCT/EP2019/078909
Filing Date :23/10/2019

(87) International Publication No :WO 2020/084000

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)HALDOR TOPSØE A/S

Address of Applicant :Haldor Topsøes Allé 1 2800 Kgs.
Lyngby Denmark

(72)Name of Inventor :

1)ANDERSSON, Asbjørn Sune

2)ALKILDE, Ole Frej

3)DUONG, Thi Hong Diep

(57) Abstract :

The present disclosure relates to a process plant and a process for production of a hydrocarbon suitable for use as jet fuel from a feedstock being a renewable feedstock or an oxygenate feedstock, comprising the steps of combining the feedstock with an amount of a liquid diluent, directing it to contact a material catalytically active in hydrodeoxygenation under hydrotreating conditions to provide a hydrodeoxygenated intermediate product, separating said hydrodeoxygenated intermediate product in at least two fractions; a vapor fraction and a liquid fraction, optionally providing at least an amount of said liquid fraction as said liquid diluent, directing at least an amount of said liquid fraction to contact a material catalytically active in isomerization under isomerization conditions to provide an isomerized intermediate product, directing at least an amount of said isomerized intermediate product and a stream comprising sulfur to contact a material catalytically active in hydrocracking under hydrocracking conditions to provide a hydrocracked intermediate product, and fractionating said hydrocracked intermediate product to provide at least a hydrocarbon suitable for use as jet fuel, with the associated benefit of such a process being well suited for efficiently converting the upper-boiling point of a renewable feedstocks to a lower boiling product, such as non-fossil kerosene. In addition to said jet fuel, diesel and other hydrocarbons may also be produced.

No. of Pages : 18 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018875 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : CONTROLLING PLANTS BY MEANS OF ELECTRICAL ENERGY

(51) International classification	:B60S0001520000, H02J0050600000, C12N0015820000, A01M0021040000, B60L0053360000	(71) Name of Applicant : 1)BAYER AKTIENGESELLSCHAFT Address of Applicant :Kaiser-Wilhelm-Allee 1 51373 Leverkusen Germany
(31) Priority Document No	:18204105.3	(72) Name of Inventor :
(32) Priority Date	:02/11/2018	1)BREITENSTROETER, Christoph
(33) Name of priority country	:EPO	2)JIMENEZ TARODO, Sergio
(86) International Application No	:PCT/EP2019/079374	3)HADLOW, James
Filing Date	:28/10/2019	
(87) International Publication No	:WO 2020/089160	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the control of plants which appear as undesirable matter in a field for crop plants by means of electrical energy. The subject matter of the present invention is a method, a device and a vehicle for controlling plants

No. of Pages : 9 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018876 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : COMPOSITIONS COMPRISING PYRIDINE CARBOXYLATE HERBICIDES AND VERY LONG CHAIN FATTY ACID (VLCFA) SYNTHESIS INHIBITOR HERBICIDES

(51) International classification :A01N004340000,
A01N0043540000,
A01N0043100000,
A01N0043900000,
A01N0043820000

(31) Priority Document No :62/756795
(32) Priority Date :07/11/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/059592
Filing Date :04/11/2019
(87) International Publication No :WO 2020/096924
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)CORTEVA AGRISCIENCE LLC

Address of Applicant :9330 Zionsville Road Indianapolis,
Indiana 46268 U.S.A.

(72)Name of Inventor :

1)KISTER, Jeremy

2)SATCHIVI, Norbert M.

(57) Abstract :

Disclosed herein are compositions comprising (a) a pyridine carboxylate herbicide or an agriculturally acceptable N-oxide, salt, or ester thereof and (b) a VLCFA synthesis inhibitor herbicide. Also disclosed herein are methods of controlling undesirable vegetation, comprising applying to vegetation or an area adjacent the vegetation or applying in soil or water to control the emergence or growth of vegetation (a) a pyridine carboxylate herbicide or an agriculturally acceptable N-oxide, salt, or ester thereof, and (b) a VLCFA synthesis inhibitor herbicide.

No. of Pages : 76 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018877 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYSTEM AND METHOD FOR DETERMINING DEAMIDATION AND IMMUNOGENICITY OF POLYPEPTIDES

(51) International classification	:G16B0045000000, G01N0021350000, G01N0029460000, G16B0040100000, G16C0020100000	(71) Name of Applicant : 1)PROTEIN DYNAMICS SOLUTIONS, INC. Address of Applicant :9 Audubon Road Wakefield, Massachusetts 01880 U.S.A.
(31) Priority Document No	:62/750022	(72) Name of Inventor :
(32) Priority Date	:24/10/2018	1)PASTRANA-RIOS, Belinda
(33) Name of priority country	:U.S.A.	2)NODA, Isao
(86) International Application No	:PCT/US2019/057856	
Filing Date	:24/10/2019	
(87) International Publication No	:WO 2020/086845	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Characteristics of proteins, peptides, and/or peptoids can be determined via two-dimensional correlation spectroscopy and/or two-dimensional co-distribution spectroscopies. Spectral data of the proteins, peptides, and/or peptoids can be obtained with respect to an applied stress, such as thermal stress. Two-dimensional correlation spectroscopy can be used to generate two-dimensional synchronous and asynchronous plots. The asynchronous plot provides enhanced resolution and the sequential order of molecular events that occur as a function of the applied stress. Peaks may be identified in the asynchronous plot, and correlation of peaks that exhibit out-of-phase intensity changes can be used to determine the existence and extent of deamidation events.

No. of Pages : 50 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018878 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : EXHAUST STRUCTURE

(51) International classification	:F01N0001080000, F01N0013180000, F01N0013080000, F01N0001020000, B62J0006050000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan
(31) Priority Document No	:2018-182642	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)KANDA, Suguru
(33) Name of priority country	:Japan	2)YASUDA, Shohei
(86) International Application No	:PCT/JP2019/027170	
Filing Date	:09/07/2019	
(87) International Publication No	:WO 2020/066216	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This exhaust structure for straddle-type vehicle comprises: an exhaust pipe which extends from the engine, and a muffler which is connected to the exhaust pipe. The muffler has a main body which delimits an expansion chamber, and a cylindrical end cap which is fitted to the rear end of the main body via a connecting stay provided to the main body. The end cap comprises: a peripheral wall portion which surrounds the periphery of the connecting stay; a protrusion which engages with the connecting stay and which protrudes to the connecting stay side from the inner peripheral surface of the peripheral wall portion; and a fastening hole which is formed in the peripheral wall portion, and through which passes a fastening member which fastens the connecting stay and the end cap.

No. of Pages : 23 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018879 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : LED LAMP ARRANGEMENT WITH CONTROLLED POWER

(51) International classification :H05B0045000000,
H05B0045370000,
F21Y0115100000,
H05B0045500000,
H05B0045200000

(31) Priority Document No :62/749781

(32) Priority Date :24/10/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/EP2019/079099
Filing Date :24/10/2019

(87) International Publication No :WO 2020/084087

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SILICON HILL B.V.
Address of Applicant :Science Park 106, 3rd Floor 1098 XG
Amsterdam Netherlands

(72)Name of Inventor :
1)ROY, Shounak
2)FERRÉ VILA, Ramon
3)RICHARDSON, Rosemary

(57) Abstract :

An LED lamp (1) for use in a luminaire (2), the LED lamp (1) comprising a plurality of LEDs (14) connected in a plurality of groups (15, 16); one or more rectifier circuits (10, 10a, 10b) adapted for rectifying an electrical current received from the luminaire (2) for supply to the LEDs (14); a first control circuit (24) adapted to estimate electrical current or electrical power received by or used by the LED lamp (1), and adapted to generate an output on the basis of the estimate; and a switching circuit (20) comprising a first switch (21) for switching the plurality of groups of LEDs (15, 16) between a plurality of different circuit configurations at a switching frequency of at least 300 kHz and according to a duty cycle; wherein the switching circuit (20) is configured to adjust the duty cycle in dependence on the output of the first control circuit (24) to adjust the electrical power used by the LED lamp (1).

No. of Pages : 19 No. of Claims : 12

(54) Title of the invention : WHEEL-SPEED SENSOR MOUNTING STRUCTURE

(51) International classification	:B62J0045400000, B62K0019380000, B62L0001000000, B62K0021020000, B60T0008171000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan
(31) Priority Document No	:2018-205394	(72) Name of Inventor :
(32) Priority Date	:31/10/2018	1)URANO Ryotaro
(33) Name of priority country	:Japan	2)TAKAHASHI Tomochika
(86) International Application No	:PCT/JP2019/022430	3)YOSHIDA Hiroaki
Filing Date	:05/06/2019	4)HANDA Etsumi
(87) International Publication No	:WO 2020/090144	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is a wheel-speed sensor mounting structure which allows a reduction in the arrangement space for a wheel-speed sensor and an improvement in appearance. The present invention is applied to a saddled vehicle (1) comprising: a front fork (40) that rotatably supports a front wheel (WF); a brake caliper (38) that brakes the brake disc (37) of the front wheel (WF); and a wheel-speed sensor (70) that detects the rotational state of the front wheel (WF). The front fork (40) has a bottom bracket (42) that pivotally supports the axle (36) of the front wheel (WF). A support portion (44) that extends rearward from the bottom bracket (42) and supports the brake caliper (38) is formed on the bottom bracket (42), and the wheel-speed sensor (70) is attached to the bottom of the support portion (44). The wheel-speed sensor (70) is fixed to a plate-shaped stay portion (51) extending below the vehicle body from the support portion (44) by a single fastening member (71) that is oriented in the vehicle width direction.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018883 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ELECTRIC VEHICLE

(51) International classification	:H02K0005220000, B62K0025280000, B62K0011040000, H02K0011330000, B62M0006650000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan
(31) Priority Document No	:2018-181692	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)KAJIHARA Eisuke
(33) Name of priority country	:Japan	2)SHIRASUNA Takamori
(86) International Application No	:PCT/JP2019/037815	3)HIROSE Yudai
Filing Date	:26/09/2019	
(87) International Publication No	:WO 2020/067267	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electric vehicle (10) is provided with a motor housing (98c) that is mounted on a swing arm (18) and houses a motor (20). The motor (20) has a motor case (94) that houses a stator (90) and a rotor (92) as driving parts of the motor (20). In this case, the swing arm (18) has a swing arm cover (102) provided with an exposure portion (132) for exposing a part of the motor case (94) to the outside.

No. of Pages : 32 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018884 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ELECTRIC VEHICLE

(51) International classification :F16H0001320000,
B60K0017160000,
B60K0001000000,
H02K0009220000,
B62K0025280000

(31) Priority Document No :2018-181741

(32) Priority Date :27/09/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/037817
Filing Date :26/09/2019

(87) International Publication No :WO 2020/067268

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)HONDA MOTOR CO., LTD.
Address of Applicant :1-1, Minami-Aoyama 2-chome,
Minato-ku, Tokyo 1078556 Japan

(72)**Name of Inventor :**
1)KAJIHARA Eisuke
2)SHIRASUNA Takamori
3)SUZUKI Hitoshi
4)HASEGAWA Junko

(57) Abstract :

An electric vehicle (10) is provided with: a speed reducer housing part (116) mounted on a swing arm (18) and housing a speed reducer (114); and a breather tube (148) extending from the speed reducer housing part (116). One end portion (148a) of the breather tube (148) communicates with the speed reducer housing part (116). The other end portion (148b) of the breather tube (148) is placed on a fender (60), which is swingable together with the swing arm (18), above the swing arm (18).

No. of Pages : 33 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018885 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : INFORMATION PROCESSING DEVICE AND METHOD, AND PROGRAM

(51) International classification	:G06F0003048100, G06F0009460000, G06F0016280000, H04N0021235000, G06F0016210000	(71) Name of Applicant : 1)SONY CORPORATION Address of Applicant :1-7-1, Konan, Minato-ku, Tokyo 1080075 Japan
(31) Priority Document No	:2018-217180	(72) Name of Inventor :
(32) Priority Date	:20/11/2018	1)YAMAMOTO Yuki
(33) Name of priority country	:Japan	2)CHINEN Toru
(86) International Application No	:PCT/JP2019/043360	3)TSUJI Minoru
Filing Date	:06/11/2019	4)OIKAWA Yoshiaki
(87) International Publication No	:WO 2020/105423	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an information processing device and method, and program with which it is possible to reduce the total number of objects while minimizing the impact on sound quality. The information processing device includes: a pass-through object selection unit that acquires data of L objects and selects M pass-through objects configured to output data as is from among the L objects; and an object generation unit that generates data of N new objects (N being less than L - M) on the basis of data of a plurality of non-pass-through objects that are not pass-through objects among the L objects. This invention can be applied to an information processing device.

No. of Pages : 59 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018886 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ELECTRIC VEHICLE

(51) International classification	:H02K0005220000, H02K0009190000, H02K0005040000, H02K0001180000, H02K0007116000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan
(31) Priority Document No	:2018-181757	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)KAJIHARA Eisuke
(33) Name of priority country	:Japan	2)NUMAZAKI Yoshimi
(86) International Application No	:PCT/JP2019/037819	3)ISHIKAWA Hideo
Filing Date	:26/09/2019	4)FUJIKUBO Makoto
(87) International Publication No	:WO 2020/067269	5)HIROSE Yudai
(61) Patent of Addition to Application Number	:NA	6)ATSUMI Kazuya
Filing Date	:NA	7)SHIRASUNA Takamori
(62) Divisional to Application Number	:NA	8)ICHIKAWA Hiroki
Filing Date	:NA	9)MATSUDAIRA Naotada

(57) Abstract :

An electric vehicle (10) is provided with a motor housing part (98c) mounted on a swing arm (18) and housing a motor (20). In this case, the motor (20) has a stator (90), a rotor (92), and a motor case (94) housing therein the stator (90) in a fixed state while housing therein the rotor (92) in a freely rotatable manner. A portion of the motor case (94) opposing the motor housing part (98c) is fixed to the motor housing part (98c).

No. of Pages : 39 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018887 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : NOVEL SALT OF A BCL-2 INHIBITOR, RELATED CRYSTALLINE FORM, METHOD FOR PREPARING THE SAME AND PHARMACEUTICAL COMPOSITIONS CONTAINING THE SAME

(51) International classification	:A61K0031550000, A61K0031185000, A61K0031404500, A61K0038000000, C11D0003420000	(71) Name of Applicant : 1)LES LABORATOIRES SERVIER Address of Applicant :35 rue de Verdun 92284 SURESNES France 2)VERNALIS (R&D) LIMITED
(31) Priority Document No	:18306430.2	(72) Name of Inventor :
(32) Priority Date	:31/10/2018	1)LYNCH, Michael
(33) Name of priority country	:EPO	2)VILLARD, Frédéric
(86) International Application No	:PCT/EP2019/079621	3)MOUCHET, Patrick
Filing Date	:30/10/2019	4)TAULELLE, Pascal
(87) International Publication No	:WO 2020/089281	5)MASSON, Ludovic
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Novel salt and related crystalline forms of Compound (A) wherein the salt is the hydrogen sulfate salt, characterised by its X-ray powder diffraction diagram, method for preparing the same and pharmaceutical compositions containing it.

No. of Pages : 19 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018888 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : STATOR AND ROTOR DESIGN FOR PERIODIC TORQUE REQUIREMENTS

(51) International classification	:H02K0021240000, H02K0001270000, H02K0003260000, B01F0003040000, H02K0015060000	(71) Name of Applicant : 1)E-CIRCUIT MOTORS, INC. Address of Applicant :One Gateway Center Suite 359 Newton, Massachusetts 02458 U.S.A.
(31) Priority Document No	:62/754051	(72) Name of Inventor :
(32) Priority Date	:01/11/2018	1)SHAW, Steven Robert
(33) Name of priority country	:U.S.A.	2)MILHEIM, George Harder
(86) International Application No	:PCT/US2019/058716	
Filing Date	:30/10/2019	
(87) International Publication No	:WO 2020/092470	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a motor or generator comprises a rotor and a stator, wherein the rotor has an axis of rotation and is configured to generate first magnetic flux parallel to the axis of rotation, the stator is configured to generate second magnetic flux parallel to the axis of rotation, and at least one of the rotor or the stator is configured to generate a magnetic flux profile that is non-uniformly distributed about the axis of rotation. Also disclosed is a method that involves arranging one or more magnetic flux producing windings of a stator non-uniformly about an axis of rotation of a rotor of an axial flux motor or generator.

No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018890 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ELECTRIC VEHICLE

(51) International classification :B62M0007120000,
B62K0011040000,
B62K0025280000,
B62K0011100000,
B60L0050200000

(31) Priority Document No :2018-181717

(32) Priority Date :27/09/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/029359
Filing Date :26/07/2019

(87) International Publication No :WO 2020/066261

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)HONDA MOTOR CO., LTD.

Address of Applicant :1-1, Minami-Aoyama 2-chome,
Minato-ku, Tokyo 1078556 Japan

(72)Name of Inventor :

1)KAJIHARA Eisuke

2)SHIOGAMA Yuta

3)ATSUMI Kazuya

4)NUMAZAKI Yoshimi

5)FUJIKUBO Makoto

(57) Abstract :

An electric vehicle (10) is provided with: a motor housing section (98c) which is provided to the left-hand side of a rear wheel (16) located within a swing arm (18) and which houses a motor (20); and an electric power supply line (134) which supplies electric power to the motor (20). A through-hole (138) is formed at the front end of the swing arm (18) at a position in front of the rear wheel (16). The electric power supply line (134) extends forward within the swing arm (18) from the motor (20), bends inward, in the vehicle width direction, of the electric vehicle (10) at the front end of the swing arm (18), and is extended forward of the swing arm (18) from the through-hole (138).

No. of Pages : 36 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018891 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : DATA PROCESSING DEVICE AND DATA PROCESSING METHOD

(51) International classification	:G06F0013160000, G05D0001000000, B25J0009000000, A63F0013690000, G06F0013000000	(71) Name of Applicant : 1)SONY CORPORATION Address of Applicant :1-7-1, Konan, Minato-ku, Tokyo 1080075 Japan
(31) Priority Document No	:2018-208192	(72) Name of Inventor :
(32) Priority Date	:05/11/2018	1)KAWAMOTO Kenta
(33) Name of priority country	:Japan	2)FUJITA Masahiro
(86) International Application No	:PCT/JP2019/041606	3)SPRANGER Michael Siegfried
Filing Date	:24/10/2019	
(87) International Publication No	:WO 2020/095687	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A data processing device includes a command generation unit configured to generate an instruction command for giving an instruction of one or more operations to be executed during a process by a robot provided with at least one arm, wherein the instruction command is generated on a basis of instruction data including image data obtained by capturing one or more images of situations during or after the process, and text data indicating at least one of an object to be utilized in the process or an operation to be executed during the process.

No. of Pages : 38 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018893 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : A METHOD, A COMPUTER PROGRAM AND A COMPUTER SYSTEM FOR OPTIMIZATION OF AT LEAST ONE TREATMENT PLAN

(51) International classification :H04L0005000000,
G06F0009500000,
G06Q0050220000,
A61N0005100000,
C12Q0001688300

(31) Priority Document No :18214611.8

(32) Priority Date :20/12/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/084811
Filing Date :12/12/2019

(87) International Publication No :WO 2020/126790

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)RAYSEARCH LABORATORIES AB
Address of Applicant :P.O. Box 3297 103 65 Stockholm
Sweden

(72)Name of Inventor :
1)FREDRIKSSON, Albin
2)ENGWALL, Erik
3)BOKRANTZ, Rasmus
4)ERIKSSON, Kjell
5)GLIMELIUS, Lars

(57) Abstract :

A method of optimizing the use of resources in treatment planning involving more than one radiation set delivered to one or more patients, the radiation sets requiring different resources, respectively, wherein the optimization is performed using an optimization problem comprising an optimization function related to the first and second sets of resources. The method may be used for optimizing one plan for one patient, or a number of plans for different patients, in such a way that the available resources are used in the best possible way.

No. of Pages : 16 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018894 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : CUSTOMIZABLE FOOTWEAR SYSTEM

(51) International classification	:A43B0017020000, A43B0013020000, A43B0017000000, A43B0007140000, A43B0009140000	(71) Name of Applicant : 1)EVELYN FORD, INC. Address of Applicant :3005 E North Lane Phoenix, Arizona 85029 U.S.A.
(31) Priority Document No	:62/744123	(72) Name of Inventor :
(32) Priority Date	:10/10/2018	1)SCHICKLING, Evelyn
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/055746	
Filing Date	:10/10/2019	
(87) International Publication No	:WO 2020/086294	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A customizable arch support system for use in fashionable high heeled shoes, designed to provide superior configurability and comfort for the wearer. More particularly, the system provides configurability so that it will provide superior support and comfort for the wearer, while maintaining minimal cross section profile which causes less limitations for the shoe designer.

No. of Pages : 50 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018895 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ANTI-MET FAB-FC FOR THE TREATMENT OF A TUMOR AND/OR METASTASIS

(51) International classification	:C07K0016280000, A61K0039000000, C07K0016180000, A61K0039395000, C07K0016000000	(71) Name of Applicant : 1)METIS PRECISION MEDICINE SB S.R.L. Address of Applicant :Via Magenta, 35 I-10128 Torino Italy
(31) Priority Document No	:102018000009282	(72) Name of Inventor :
(32) Priority Date	:09/10/2018	1)VIGNA, Elisa
(33) Name of priority country	:Italy	2)BASILICO, Cristina
(86) International Application No	:PCT/EP2019/077116	3)CREPALDI, Tiziana
Filing Date	:07/10/2019	4)COMOGLIO, Paolo Maria
(87) International Publication No	:WO 2020/074459	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An anti-Met antibody fragment comprising a single antigen binding arm and an Fc region, wherein the antigen binding arm is defined by the variable regions having amino acid sequences as set forth in SEQ ID No.: 7, 8 and wherein the anti-Met antibody fragment is useful in the treatment of a tumor and/or metastasis.

No. of Pages : 66 No. of Claims : 18

(54) Title of the invention : ELECTRODE AND USES THEREOF

(51) International classification	:F24F0003160000, B05C0017010000, H01M0012060000, A61B0005040800, B41J0002190000	(71) Name of Applicant : 1)BIOSERENITY Address of Applicant :ICM-IPEPS 47 boulevard de l'Hôpital 75013 Paris France
(31) Priority Document No	:18306386.6	(72) Name of Inventor :
(32) Priority Date	:24/10/2018	1)OZIAT, Julie
(33) Name of priority country	:EPO	2)GUERMONPREZ, Philippe
(86) International Application No	:PCT/EP2019/079022	
Filing Date	:24/10/2019	
(87) International Publication No	:WO 2020/084048	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an electrode (1) comprising: - at least one reservoir (11) comprising a peripheral wall (111) made of a foam material, wherein said reservoir (11) is filled with a viscous electrolytic paste (12); - at least one plate (13) comprising a conductor material, wherein said plate (13) is in contact with the electrolytic paste (12) and configured to conduct electrical signals to a recording device; - at least one fastener (14); and wherein the at least one reservoir (11) comprises a hole (113) configured to release the electrolytic paste (12) under pressure applied on the electrode (1). The present invention also relates to the use of said electrode (1) and a process for the implementation of an electrode (1).

No. of Pages : 18 No. of Claims : 17

(54) Title of the invention : METHODS AND COMPOSITIONS FOR SELECTION OF FUNCTIONAL APTAMERS

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:C12N0015115000, C12N0015100000, C12Q0001681100, A61K0035170000, A61K0047690000</p> <p>:62/738235</p> <p>:28/09/2018</p> <p>:U.S.A.</p> <p>:PCT/IB2019/001082 :27/09/2019</p> <p>:WO 2020/065404</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)AUGMANITY NANO LTD Address of Applicant :8 Hamada Street 7670322 Rehovot Israel</p> <p>2)AUMMUNE LTD.</p> <p>(72)Name of Inventor :</p> <p>1)AMIR, Yaniv 2)ABU-HOROWITZ, Almogit 3)BACHELET, Ido 4)BASSALI, Liron, Anna 5)DEBBY, Elinor 6)EFRATI, Liron, Levy 7)LAVI, Erez 8)LEVY, Omer 9)KEDEM, Noam Mamet 10)PAZ, Anastasia 11)REISS, Neria 12)RUSINEK, Itai 13)SCHARFF, Ye'ela 14)SKALKA, Nir</p>
--	---	--

(57) Abstract :

The present disclosure describes compositions and methods for selection functional aptamers. In certain embodiments, provided herein are methods of using aptamer cluster- containing particles to identify functional aptamers from an aptamer library. In certain embodiments, provided herein are functionally enriched populations of aptamers. In certain embodiments, provided herein are methods for selecting an aptamer for use in personalized cancer treatment and methods for preparing a tumor delivery system. In certain embodiments, provide herein are compositions comprise the aptamer cluster-containing particles, target cells (e.g., cancer cells, immune cells, etc.) and/or a detectable indicator of cellular function (e.g., a fluorescent indicator of apoptosis, cell proliferation, gene or protein expression, etc.).

No. of Pages : 74 No. of Claims : 110

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018914 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : DIMENSIONALLY STABLE GLASSES

(51) International classification :H01L0027120000,
H01L0029786000,
C03C0003091000,
H01M0008102500,
B01J0021080000

(31) Priority Document No :62/736070
(32) Priority Date :25/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/051010
Filing Date :13/09/2019
(87) International Publication No :WO 2020/068457
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)CORNING INCORPORATED

Address of Applicant :1 Riverfront Plaza Corning, New York
14831 U.S.A.

(72)Name of Inventor :

1)ELLISON, Adam James

2)KICZENSKI, Timothy James

3)KING, Ellen Anne

4)TANDIA, Adama

5)VARGHEESE, Kochuparambil Deenamma

(57) Abstract :

Glasses that are substantially free of alkalis that possess high annealing points and, thus, good dimensional stability (i.e., low compaction) for use as TFT backplane substrates in amorphous silicon, oxide and low-temperature polysilicon TFT processes.

No. of Pages : 52 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018915 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : LIGHT-EMITTING ELEMENT AND METHOD FOR MANUFACTURING SAME

(51) International classification	:H01L0051560000, H01L0033000000, H01L0051000000, H01L0027150000, H01L0025075000	(71) Name of Applicant : 1)SEOUL VIOSYS CO., LTD. Address of Applicant :65-16, Sandan-ro 163beon-gil, Danwon-gu Ansan-si Gyeonggi-do 15429 Republic of Korea
(31) Priority Document No	:62/746873	(72) Name of Inventor :
(32) Priority Date	:17/10/2018	1)LEE, Chung Hoon
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/KR2019/013626	
Filing Date	:17/10/2019	
(87) International Publication No	:WO 2020/080837	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A light-emitting element and a method for manufacturing same are provided. The method for manufacturing a light-emitting element comprises: forming a plurality of first light-emitting cells and a plurality of second light-emitting cells on one surface of a first substrate; making the first and second light-emitting cells face a second substrate; selectively attaching the first light-emitting cells to the second substrate; and cutting the second substrate in mounting units including at least two of the first light-emitting cells.

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018916 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AMINOPYRIMIDINE COMPOUND

(51) International classification	:A61P0009060000, C07D0471040000, A61K0031440600, A61K0031472000, A61K0031400000
(31) Priority Document No	:62/735897
(32) Priority Date	:25/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/052730
Filing Date	:24/09/2019
(87) International Publication No	:WO 2020/068854
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)CARDURION PHARMACEUTICALS, LLC

Address of Applicant :1 Lincoln Street, 30th Floor Boston, Massachusetts 02111 U.S.A.

(72)Name of Inventor :

1)MATSUNAGA, Nobuyuki

2)MIYAMOTO, Yasufumi

3)SHIRAI, Junya

4)NAKAHATA, Takashi

5)SHIOKAWA, Zenyu

6)OKAWA, Tomohiro

7)SHIBUYA, Akito

8)MACCOSS, Malcolm

(57) Abstract :

The present invention provides a compound having a CaMKII inhibitory action, which is expected to be useful as an agent for the prophylaxis or treatment of cardiac diseases (particularly catecholaminergic polymorphic ventricular tachycardia, postoperative atrial fibrillation, heart failure, fatal arrhythmia) and the like. The present invention relates to a compound represented by the formula (I): wherein each symbol is as defined in the specification, or a salt thereof.

No. of Pages : 392 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018917 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : CLOSTRIDIAL NEUROTOXINS COMPRISING AN EXOGENOUS ACTIVATION LOOP

(51) International classification :A61K0038000000,
A61K0038480000,
C07K0014330000,
C12N0009520000,
C12P0021060000

(31) Priority Document No :1815817.0

(32) Priority Date :28/09/2018

(33) Name of priority country :U.K.

(86) International Application No :PCT/GB2019/052732
Filing Date :27/09/2019

(87) International Publication No :WO 2020/065336

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)IPSEN BIOPHARM LIMITED

Address of Applicant :Unit 9 Ash Road Wrexham Industrial Estate Wrexham LL13 9UF U.K.

(72)Name of Inventor :

1)KUPINSKI, Adam

2)LOVELOCK, Laura

(57) Abstract :

The present invention relates to a method for proteolytically processing a single-chain clostridial neurotoxin into a corresponding di-chain clostridial neurotoxin, the method comprising: providing a single-chain clostridial neurotoxin; and contacting the single-chain clostridial neurotoxin with enterokinase or factor Xa; wherein the single-chain clostridial neurotoxin has an activation loop comprising the polypeptide sequence Cys-(Xaa)_a-Ile-Asp/Glu-Gly-Arg-(Yaa)_b-Cys (SEQ ID NO: 1), wherein a = 1-10 and b = 4-15; and wherein enterokinase or factor Xa hydrolyses a peptide bond of the activation loop thereby producing a di-chain clostridial neurotoxin. The invention also relates to engineered clostridial neurotoxins and methods for manufacturing the same, as well as related pharmaceutical compositions, nucleotide sequences, and therapeutic uses.

No. of Pages : 85 No. of Claims : 66

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018918 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : VACCINE POLYPEPTIDE COMPOSITIONS AND METHODS

(51) International classification	:A61K0039000000, A61K0039102000, A61K0039090000, A61K0039145000, C07K0014285000	(71) Name of Applicant : 1)ARIZONA BOARD OF REGENTS ON BEHALF OF THE UNIVERSITY OF ARIZONA Address of Applicant :The University of Arizona, Tech Launch Arizona University Services Annex, 4th Floor P.O. Box 210300A Tucson, AZ 85701 U.S.A. 2)PHOENIX CHILDREN'S HOSPITAL, INC.
(31) Priority Document No	:62/745878	(72) Name of Inventor :
(32) Priority Date	:15/10/2018	1)STULL, Terrance
(33) Name of priority country	:U.S.A.	2)MORTON, Daniel
(86) International Application No	:PCT/US2019/056298	3)WHITBY, Paul
Filing Date	:15/10/2019	
(87) International Publication No	:WO 2020/081548	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Immunogenic peptides, fusion polypeptides, and carrier molecules which include the immunogenic peptides, and immunogenic compositions which include these immunogenic peptides, fusion heterologous polypeptides, and/or carrier molecules bearing the peptides, and which are able to elicit antibody production against infectious organisms, are disclosed. Also disclosed are methods of making and their use in causing an antibody response against one or more strains of infectious organism, such as B. pertussis (Bp).

No. of Pages : 43 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018924 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : INFRARED NIGHT VISION SYSTEM

(51) International classification	:H04N0007180000, F21V0033000000, H04N0005330000, B05B0012000000, H04M0003220000	(71) Name of Applicant : 1)OBSHESTVO S OGRANICHENNOI VETSTVENNOSTYU "IRVEI" Address of Applicant :ul. Nobelya, d. 7, et. 4, pom. 10, rab. 14, Moscow, 121205 Russia
(31) Priority Document No	:2018135358	(72) Name of Inventor :
(32) Priority Date	:08/10/2018	1)KUZMIN, Maxim Yaroslavich
(33) Name of priority country	:Russia	
(86) International Application No	:PCT/RU2019/050173	
Filing Date	:04/10/2019	
(87) International Publication No	:WO 2020/076192	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to the field of optical surveillance in conditions of insufficient illumination. An infrared night vision system comprises a visible-range light source, a main control unit, a unit for switching the visible-range light source into an infrared range, a night vision camera, a light-reflecting screen and a means for outputting graphical information onto the light-reflecting screen. The main control unit comprises controllers for processing system data and for processing graphical information and is equipped with a means for remote control of the infrared night vision system. The switching unit comprises a controller for processing data, a means for switching the supply voltage of the visible-range light source, a means for regulating the brightness and a means for switching the type of control signal for activating the visible-range light source. The possibility of remotely activating the system and the use of the system in land-based freight transport and in transport on water and in the air are achieved.

No. of Pages : 8 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018931 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYSTEM, APPARATUS AND HYBRID VAV DEVICE WITH MULTIPLE HEATING COILS

(51) International classification	:F24F0011300000, F24F0003044000, F24F0013100000, G05D0023190000, F24F0011000000	(71) Name of Applicant : 1)ALBIREO ENERGY, LLC Address of Applicant :3 Ethel Road, Suite 300 Edison, New Jersey 08817 U.S.A.
(31) Priority Document No	:62/737251	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)VOYSEY, Keith, Stanley
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/000048	
Filing Date	:27/09/2019	
(87) International Publication No	:WO 2020/068150	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An energy efficient hybrid variable air volume terminal system with multiple heating coils to enhance temperature control in each individual room in a plurality of rooms. The hybrid variable air volume terminal system includes a novel hybrid variable air volume box that has one inlet duct and a plurality of outlet ducts coupled to the novel hybrid variable air volume box. Each outlet duct has a heating coil operably connected thereto which can be operably connected to any number of the plurality of rooms to provide an energy efficient building management system. In certain embodiments, either an actual or a virtual thermostat is operably connected to the hybrid variable air volume terminal system to control the operation of the system remotely. In certain embodiments, the hybrid variable air volume terminal system comprises an automated air balance system or an automated space control damper and demand response control system to control and/or vary the amount of air flow.

No. of Pages : 28 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018932 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PROTECTION OF INITIAL NON-ACCESS STRATUM PROTOCOL MESSAGE IN 5G SYSTEMS

(51) International classification :H04L0029060000,
H04W0036000000,
H04W0012000000,
H04W0084040000,
H04W0048180000

(31) Priority Document No :62/755364
(32) Priority Date :02/11/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/058837
Filing Date :30/10/2019
(87) International Publication No :WO 2020/092542
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)APPLE INC.

Address of Applicant :One Apple Park Way Cupertino, CA
95014 U.S.A.

(72)Name of Inventor :

1)STOJANOVSKI, Alexandre Saso

2)ZAUS, Robert

3)ADRANGI, Farid

4)WLOKA, Raimund

5)KOLEKAR, Abhijeet Ashok

6)SOLIMAN, Ahmed

7)PALAT, Sudeep K.

(57) Abstract :

Systems and methods of protecting an initial NAS message are described. The NAS message is encrypted using the home PLMN public key during initial registration with the network using a registration request message. An AMF of the serving PLMN sends a serving PLMN public key which is then used to encrypt information including an S-NSSAI of later initial NAS messages after initial registration is completed. The S-NSSAI may not be sent in the later initial NAS message if the S-NSSAI is provided at an access stratum level. The RRC message may contain an indication that the S-NSSAI is encrypted using the serving PLMN public key.

No. of Pages : 28 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018933 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : DIRECT POWER CONVERTER AND CONTROL DEVICE

(51) International classification	:H02M0001000000, H02M0001420000, H02M0005458000, H02M0007480000, H02M0007538700	(71) Name of Applicant : 1)DAIKIN INDUSTRIES, LTD. Address of Applicant :Umeda Center Building, 4-12, Nakazaki-Nishi 2-Chome, Kita-ku, Osaka-Shi, Osaka 5308323 Japan
(31) Priority Document No	:2018-182108	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)SAKAKIBARA Kenichi
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/036885	
Filing Date	:20/09/2019	
(87) International Publication No	:WO 2020/066867	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

According to the present invention, an input power factor of this direct power converter is improved. The present invention controls the direct power converter comprising: a converter which rectifies a single-phase AC voltage, converts AC power to DC power, and outputs first instantaneous power; a power buffer circuit which transfers power between the converter and a DC link and buffers the power with a second instantaneous power; and an inverter which converts a DC voltage in the DC link to a second AC voltage and outputs the converted AC voltage. A period during which a current flowing from the converter to the power buffer circuit continuously flows for less than half a cycle of the AC voltage when an average value of third power input to the inverter, fourth power output by the inverter, or first instantaneous power is less than a first threshold, is longer than that that when the average value of the third power, the fourth power, or the first instantaneous power is equal to or more than a second threshold that is equal to or more than the first threshold.

No. of Pages : 118 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018934 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : COMPOUNDS AND METHODS FOR INCREASING SOIL NUTRIENT AVAILABILITY

(51) International classification	:A01N0043740000, A01N0025120000, C07D0307560000, A01N0043360000, C07D0307770000	(71) Name of Applicant : 1)SOUND AGRICULTURE COMPANY Address of Applicant :5858 Horton Street Suite 575 Emeryville, California 94608 U.S.A.
(31) Priority Document No	:62/736889	(72) Name of Inventor :
(32) Priority Date	:26/09/2018	1)BAYER, Travis
(33) Name of priority country	:U.S.A.	2)SCHWARTZ, Allison
(86) International Application No	:PCT/US2019/052907	3)SCHNEIDER, Kevin
Filing Date	:25/09/2019	4)DAVIDSON, Eric
(87) International Publication No	:WO 2020/068946	5)IBARRA, Christian
(61) Patent of Addition to Application Number	:NA	6)KINNE, Aden
Filing Date	:NA	7)KAVANAUGH, Megan
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein are compounds, salts, solvates of Formula (1), and any formulation thereof. Also disclosed are methods of increasing soil nutrient availability to a plant by contacting a plant or soil with compounds, salts, solvates of Formula (1), or any formulation thereof. The compounds and methods disclosed herein may increase an amount of nitrogen or soluble phosphate in a soil.

No. of Pages : 99 No. of Claims : 93

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018935 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : FLEXIBLE FASTENER

(51) International classification :F16B0035040000,
F16B0005060000,
A61F0002958000,
F16B0021080000,
A44B0019260000

(31) Priority Document No :62/750299
(32) Priority Date :25/10/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/057803
Filing Date :24/10/2019
(87) International Publication No :WO 2020/086809
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)ILLINOIS TOOL WORKS INC.
Address of Applicant :155 Harlem Avenue Glenview, Illinois
60025 U.S.A.
(72)Name of Inventor :
1)ZANDER, Jason M.
2)TISOL, Jr., James S.

(57) Abstract :

A fastener includes a body (102), a fastener head (104) having a flange (112) extend radially outward from the body (102), and a plurality of shoulders (106) that extend outwardly from the body (102). The body (102) also includes a finger (132) that extends from one end of each of the shoulders (106). The body (102) further includes a plurality of cutouts (154) positioned on the body (102) between the shoulders (106). The body (102) is flexible along the cutouts (154). The fingers (132) are also flexible and cooperate with a plurality of locking features (200) of a first component (128) to sufficiently hold the first component (128) and a second component (130) between the fingers (132) and the flange (112).

No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018937 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : DEBLOCKING OR DERINGING FILTER AND ENCODER, DECODER AND METHOD FOR APPLYING AND VARYING A STRENGTH OF A DEBLOCKING OR DERINGING FILTER

(51) International classification	:H04N0019860000, H04N0019117000, H04N0019610000, H04N0019176000, H04N0019820000	(71) Name of Applicant : 1)FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V. Address of Applicant :Hansastraße 27c 80686 München Germany
(31) Priority Document No	:18197609.3	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)HELMRICH, Christian
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2019/076080	
Filing Date	:26/09/2019	
(87) International Publication No	:WO 2020/064949	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention concerns an encoder, a decoder and methods for applying and varying a strength of a deblocking or deringing filter (110, 120) for filtering a block (1000) of a picture (12), wherein the deblocking filter (110, 120) is configured to determine, for each of at least eight border portions (1011, 1012, 1013, 1014, 1021, 1022, 1023, 1024) of a border (1010) of the block (1000), a dissimilarity between an unfiltered content (1015) of the block (1000) and a surrounding picture content (1016) around the block (1000) along the respective border portion (1011, 1012, 1013, 1014, 1021, 1022, 1023, 1024), the eight border portions (1011, 1012, 1013, 1014, 1021, 1022, 1023, 1024) including four corner border portions (1021, 1022, 1023, 1024), each arranged at a corner of the block (1000), and four edge border portions (1011, 1012, 1013, 1014), each arranged at intermediary portions of the border (1010) between the corners of the block (1000). Furthermore, the deblocking filter is configured to parametrize a deblocking filtering of the block (1000) using the dissimilarities determined for the at least eight border portions (1011, 1012, 1013, 1014, 1021, 1022, 1023, 1024) in order to obtain a filtered content of the block (1000).

No. of Pages : 45 No. of Claims : 54

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018938 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : OPTICAL IMAGING LENS

(51) International classification :G02B0013000000,
G02B0013180000,
G02B0011340000,
G02B0009640000,
G02B0005000000

(31) Priority Document No :201910123355.2

(32) Priority Date :18/02/2019

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/108451
Filing Date :27/09/2019

(87) International Publication No :WO 2020/168717

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)ZHEJIANG SUNNY OPTICS CO., LTD.
Address of Applicant :No. 67-69, Fenge Road, Yangming
Street Yuyao, Zhejiang 315400 China

(72)Name of Inventor :
1)GENG, Xiaoting
2)LYU, Saifeng
3)XING, Tianxiang
4)LI, Long
5)DAI, Fujian
6)ZHAO, Liefeng

(57) Abstract :

Disclosed is an optical imaging lens. The optical imaging lens sequentially comprises, from an object side to an image side along an optical axis, a first lens (E1) with a positive focal power, with an image side surface (S2) of the first lens being a concave surface; a second lens (E2) with a focal power, with an image side surface (S4) of the second lens being a concave surface; a third lens (E3) with a focal power; a fourth lens (E4) with a focal power; a fifth lens (E5) with a positive focal power; a sixth lens (E6) with a focal power, with an object side surface (S11) of the sixth lens being a convex surface and an image side surface (S12) thereof being a concave surface; and a seventh lens (E7) with a focal power, with an object side surface (S13) of the seventh lens being a concave surface, wherein the maximum half-field-of-view (HFOV) of the optical imaging lens and the total effective focal length f of the optical imaging lens satisfy $\tan(\text{HFOV}) * f = 4.34 \text{ mm}$.

No. of Pages : 29 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018939 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : MODULATION OF GRANZYME K ACTIVITY IN THE TREATMENT OF SKIN CONDITIONS

(51) International classification :A61K0009000000,
A61K0038000000,
A61K0047140000,
A61N0005060000,
A61L0027360000

(31) Priority Document No :62/735414

(32) Priority Date :24/09/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/CA2019/051359
Filing Date :24/09/2019

(87) International Publication No :WO 2020/061688

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)THE UNIVERSITY OF BRITISH COLUMBIA

Address of Applicant :c/o University - Industry Liaison Office
#103 - 6190 Agronomy Road Vancouver, British Columbia V6T
1Z3 Canada

(72)Name of Inventor :

1)GRANVILLE, David J.

2)TURNER, Christopher

3)ZEGLINSKI, Matthew

4)RICHARDSON, Katlyn

5)HIROYASU, Sho

(57) Abstract :

In one aspect, methods for treating inflammatory skin conditions, such as atopic dermatitis and psoriasis, are provided. In another aspect, methods for promoting skin wound healing are provided. In a further aspect, methods for treating skin wounds, such as thermal and pressure injury are provided. In the methods, the activity of Granzyme K is reduced.

No. of Pages : 32 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018940 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : INTERACTIVE ELECTRONIC ASSIGNMENT OF SERVICES TO PROVIDERS BASED ON CUSTOM CRITERIA

(51) International classification	:G06Q0030020000, H04L0012580000, G06Q0010100000, G06Q0010060000, G06Q0030060000	(71) Name of Applicant : 1)KUMAR, Rajiv Address of Applicant :3277 Briar Ct. Chino Hills, California 91709 U.S.A.
(31) Priority Document No	:16/196409	(72) Name of Inventor :
(32) Priority Date	:20/11/2018	1)KUMAR, Rajiv
(33) Name of priority country	:U.S.A.	
(86) International Application No	:16/543402	
Filing Date	:16/08/2019	
(87) International Publication No	:WO 2020/106550	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A service provider matching system can receive service provider data and preferences, customer data and preferences, and a customer request for service and determine matching scores for one or more matching service providers. Based on a threshold value, the service providers with a matching score above the threshold can be presented to a customer for selection. Upon selection by a customer, an assisted interaction can take place between the customer and one or more selected service providers to agree to particular terms related to a requested service, book a service appointment, and track the progress until completion.

No. of Pages : 74 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018941 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : TECHNIQUES FOR GENERATING MEDIA CONTENT

(51) International classification :H04L0029080000,
H04N0005232000,
H04N0021414000,
H04N0021218000,
H04N0021845000

(31) Priority Document No :16/145774

(32) Priority Date :28/09/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/053137
Filing Date :26/09/2019

(87) International Publication No :WO 2020/069116

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)OPENTV, INC.

Address of Applicant :275 Sacramento Street San Francisco,
California 94111 U.S.A.

(72)Name of Inventor :

1)KAROUI, Sami

2)SCHAER, Olivier

(57) Abstract :

Techniques and systems are provided for generating media content. A trigger associated with an event at a site can be detected (e.g., by a server computer or other device or system) from a device located at the site. Media segments of media captured by a plurality of media capture devices located at the site can be obtained. At least one of the media segments corresponds to the detected trigger. One or more quality metrics of a media segment can be determined based on a first motion of an object captured in the media segment and/or a second motion of a media capture device used to capture the media segment. A subset of media segments can be selected from the media segments based on quality metrics determined for the obtained media segments. A collection of media segments including the subset of media segments can be generated.

No. of Pages : 56 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018942 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : MATERIAL COLLECTION AND RECYCLING

(51) International classification	:H02K0007100000, F16H0007020000, F03B0013180000, F16H0055360000, B63B0022040000	(71) Name of Applicant : 1)RIVERRECYCLE OY Address of Applicant :Unioninkatu 45 H 118 a 00170 Helsinki Finland
(31) Priority Document No	:20185803	(72) Name of Inventor :
(32) Priority Date	:26/09/2018	1)MIKOLA, Anssi
(33) Name of priority country	:Finland	
(86) International Application No	:PCT/EP2019/076031	
Filing Date	:26/09/2019	
(87) International Publication No	:WO 2020/064928	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This disclosure relates to a belt actuator buoy (100) for driving a conveyor belt (190) along a surface of a waterbody. The belt actuator buoy (100) comprises a buoyant float (110); a belt support (120) coupled with the float (110) and comprising a drive pulley (121) for driving the conveyor belt (190), the drive pulley (121) being configured to rotate about an upright rotational axis (122), when the belt actuator buoy (100) is in use; an energy-harvesting unit (130) coupled with the float (110) and configured to harvest energy from kinetic energy of water moving with respect to the energy-harvesting unit (130); and a power transmission unit (140) configured to transmit energy harvested by the energy-harvesting unit (130) to energize the drive pulley (121).

No. of Pages : 23 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018943 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : CROSS CORRUGATED MEDIA AND RELATED METHOD

(51) International classification	:H01L0039240000, H01L0031050000, H03K0017687000, B60S0003040000, H01L0033620000	(71) Name of Applicant : 1)BRENTWOOD INDUSTRIES, INC. Address of Applicant :P.O. Box 605 Reading, PA 19603 U.S.A.
(31) Priority Document No	:62/736135	(72) Name of Inventor :
(32) Priority Date	:25/09/2018	1)EDWARDS, Brian
(33) Name of priority country	:U.S.A.	2)MILLER, William
(86) International Application No	:PCT/US2018/063327	
Filing Date	:30/11/2018	
(87) International Publication No	:WO 2020/068143	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A fill pack includes a first sheet and a second sheet. The first sheet has a first end, a second end and a first plurality of flutes. A first microstructure includes first top flat strips, first bottom flat strips and first conduit sides connecting the first top flat strips to the first bottom flat strips. A plurality of first radii connect the first top flat strips to the first conduit sides and the first bottom flat strips to the first conduit sides. The second sheet has a second plurality of flutes. A second microstructure includes second top flat strips, second bottom flat strips and second conduit sides connecting the second top flat strips to the second bottom flat strips. A plurality of second radii connect the second top flat strips to the second conduit sides and second bottom flat strips to the second conduit sides.

No. of Pages : 15 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018944 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AIRCRAFT GUIDANCE USING TWO ANTENNAS HAVING DIFFERENT OPENING ANGLES

(51) International classification	:H01Q0021280000, H01Q0021200000, H04B0007080000, H04N0013250000, F04C0028140000	(71) Name of Applicant : 1)SAFRAN ELECTRONICS & DEFENSE Address of Applicant :18/20 Quai du Point du Jour 92100 BOULOGNE-BILLANCOURT France
(31) Priority Document No	:1801007	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)POUILLARD, Sylvain
(33) Name of priority country	:France	2)CHIODINI, Alain
(86) International Application No	:PCT/EP2019/076320	
Filing Date	:27/09/2019	
(87) International Publication No	:WO 2020/065074	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention concerns a guidance system (1) of an aircraft (A), comprising: a first antenna (10) having a first opening angle (O1) at - 3 dB - a second antenna (20) having a second opening angle (O2) at - 3 dB, the first opening angle (O1) being at least twice as large as the second opening angle (O2) and, within the second opening angle (O2) of the second antenna (20), an absolute value of a difference between the power of a signal received from the first antenna (10) and the power of a signal received from the second antenna (20) being equal to at least 10 dB.

No. of Pages : 19 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018945 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : NOVEL ORGANOLEPTIC COMPOUNDS

(51) International classification	:C11B0009000000, A24D0001000000, A24D0003180000, A61Q0013000000, A24F0013060000	(71) Name of Applicant : 1)INTERNATIONAL FLAVORS & FRAGRANCES INC. Address of Applicant :1515 State Highway #36 Union Beach, New Jersey 07735 U.S.A.
(31) Priority Document No	:62/749711	(72) Name of Inventor :
(32) Priority Date	:24/10/2018	1)NARULA, Anubhav P.S.
(33) Name of priority country	:U.S.A.	2)WEISS, Richard A.
(86) International Application No	:PCT/US2019/057368	3)DENUTTE, Hugo Robert Germain
Filing Date	:22/10/2019	4)SMETS, Johan
(87) International Publication No	:WO 2020/086537	5)PORTER, Philip John
(61) Patent of Addition to Application Number	:NA	6)VRIELYNCK, Freek Annie Camiel
Filing Date	:NA	7)VAN AKEN, Koen
(62) Divisional to Application Number	:NA	8)RUTTENS, Bart Antoon Judith
Filing Date	:NA	

(57) Abstract :

The present invention relates to novel compounds and their use as fragrance materials.

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018947 A

(19) INDIA

(22) Date of filing of Application :23/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : FORMULATION BASED ON MEDICINAL PLANT, OR PART OR EXTRACT THEREOF, USE OF THE FORMULATION AND PRODUCT INCLUDING SAID FORMULATION

(51) International classification	:A61Q0019000000, A61K0008970000, A61K0008978900, A61K0009000000, A61P0017020000	(71) Name of Applicant : 1)PHYTOPLENUS BIOATIVOS S.A. Address of Applicant :Rua Wanda dos Santos Mullmann, 1501 83323-123 Pinhais - PR Brazil
(31) Priority Document No	:BR102018072258-1	(72) Name of Inventor :
(32) Priority Date	:29/10/2018	1)AFORNALI, Alessandro
(33) Name of priority country	:Brazil	
(86) International Application No	:PCT/BR2019/050468	
Filing Date	:29/10/2019	
(87) International Publication No	:WO 2020/087146	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a formulation comprising at least one medicinal plant, or part or extract thereof, one or more extractor agents and one or more pharmaceutically or cosmetically acceptable excipients that provide a plant extract (plant derivative) that is rich in bioactive substances for regenerating the skin, dermal mucous membranes and the like, to be used as a pharmaceutical raw material for treating all types of wounds, or as a cosmetic raw material to ensure the protection, maintenance and natural balance of the skin, dermal mucous membranes and the like. The use of said formulation provides highly effective pharmaceutical products for topical application that provide low-cost treatments that are quicker and less complex than procedures performed by medical professionals and nurses, to treat chronic and acute injuries of the skin, dermal mucous membranes and the like. The use of said formulation also provides cosmetic products for topical application intended to ensure the protection, maintenance and natural balance of the skin, dermal mucous membranes and the like.

No. of Pages : 37 No. of Claims : 23

(54) Title of the invention : ANEUPLOID STEVIA CULTIVAR 'AP-1'

(51) International classification	:A01H0005120000, A01H0001080000, A01H0005100000, C07C0069940000, C07C0251480000
(31) Priority Document No	:62/769900
(32) Priority Date	:20/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/062209
Filing Date	:19/11/2019
(87) International Publication No	:WO 2020/106716
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)PURECIRCLE USA, INC.Address of Applicant :5 Westbrook Corporate Center,
Westchester, IL 60154, United States of America. U.S.A.

(72)Name of Inventor :

1)MARKOSYAN, Avetik**2)ONG, Seong Siang****3)JING, Runchun****4)BU, Yu Cheng****5)CHEN, Jianning****6)WONG, Yeen Yee****7)ZHU, Juan****8)WANG, Chunhui****9)DENG, Xiufang**

(57) Abstract :

An aneuploid Stevia cultivar from colchicine-induced polyploidy, designated 'AP-1'. The plant parts of Stevia cultivar 'AP-1', the plants of stevia 'AP-1' and methods for producing a Stevia plant produced by crossing the cultivar 'AP-1' with itself or another Stevia variety, including methods using colchicine treatments for producing an aneuploidy Stevia plant. The disclosure further relates to hybrid Stevia seeds and plants produced by crossing the cultivar 'AP-1' with another Stevia cultivar. Ten highly polymorphic SNPs and the corresponding genomic sequences used to identify 'AP-1'.

No. of Pages : 42 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018965 A

(19) INDIA

(22) Date of filing of Application :24/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : COMPOSITION AND USE FOR THE TREATMENT OF PARKINSON'S DISEASE AND RELATED DISORDERS

(51) International classification :A61K0045060000,
A61K0031198000,
A61K0031480000,
A61K0009000000,
A61K0031473000

(31) Priority Document No :62/735997
(32) Priority Date :25/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/052705
Filing Date :24/09/2019
(87) International Publication No :WO 2020/068832
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)CHASE THERAPEUTICS CORPORATION
Address of Applicant :1825 K Street NW Suite 510
Washington, District of Columbia 20006 U.S.A.
(72)**Name of Inventor :**
1)CHASE, Thomas, N.
2)CLARENCE-SMITH, Kathleen, E.

(57) Abstract :

The present invention provides a pharmaceutical combination comprising an inhibitor of dopamine agonist adverse effects and a dopamine agonist, for treating Parkinson's disease and Parkinson's disease-related disorders.

No. of Pages : 129 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019014 A

(19) INDIA

(22) Date of filing of Application :25/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : APPARATUS AND METHOD FOR COMBINED VISUAL INTELLIGENCE

(51) International classification	:G06Q0010000000, G06K0009000000, G06Q0030020000, G06T0007200000, G06Q0010100000	(71) Name of Applicant : 1)SOLERA HOLDINGS, INC. Address of Applicant :1500 Solana Blvd., Bldg. 6, Ste. 6300 Westlake, TX 76262 USA. U.S.A.
(31) Priority Document No	:62/740784	(72) Name of Inventor :
(32) Priority Date	:03/10/2018	1)STUCKI, Pascal
(33) Name of priority country	:U.S.A.	2)NAFISI, Nima
(86) International Application No	:PCT/US2019/054274	3)DE BUREN, Pascal
Filing Date	:02/10/2019	4)GOZENBACH, Maurice
(87) International Publication No	:WO 2020/072629	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method includes accessing a plurality of input images of a vehicle and categorizing each of the plurality of images into one of a plurality of categories. The method also includes determining one or more parts of the vehicle in each categorized image, determining a side of the vehicle in each categorized image, and determining a first list of damaged parts of the vehicle. The method also includes determining, using the categorized images, an identification of the vehicle; determining, using the plurality of input images, a second list of damaged parts of the vehicle; and aggregating, using one or more rules, the first and second lists of damaged parts of the vehicle in order to generate an aggregated list of damaged parts of the vehicle. The method also includes displaying a repair cost estimation for the vehicle.

No. of Pages : 22 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019017 A

(19) INDIA

(22) Date of filing of Application :25/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : IMPROVED COMBUSTION ENGINE

(51) International classification	:F01L0013060000, F02D0013020000, F01L0001080000, F02M0026010000, F02B0075020000	(71) Name of Applicant : 1)KRAJANCICH, James Domenic Address of Applicant :145 Bushmead Rd Hazelmere Western Australia 6055 Australia
(31) Priority Document No	:2018903771	(72) Name of Inventor : 1)KRAJANCICH, James Domenic
(32) Priority Date	:05/10/2018	
(33) Name of priority country	:Australia	
(86) International Application No	:PCT/AU2019/000123	
Filing Date	:27/09/2019	
(87) International Publication No	:WO 2020/069554	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A four-stroke internal combustion engine comprising an inlet cam configured to open and close an inlet valve, a No. 1 exhaust cam configured to open and close an exhaust valve, a No. 2 exhaust cam configured to open and close the same exhaust valve, wherein the No. 2 exhaust cam is angularly adjustable relative to the No. 1 exhaust cam in response to input from an operator, so that the No. 2 exhaust cam is able to be selectively engaged; wherein the No. 1 exhaust cam is configured to open and close the exhaust valve during the compression stroke, so that a selected quantity of air drawn in during the intake stroke is expelled during the compression stroke; and wherein the No. 2 exhaust cam is configured to optionally close the exhaust valve when engaged.

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019033 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PRESSURE ASSISTED ROTARY PINCH VALVE

(51) International classification	:F16K0007060000, A61B0017000000, F16K0031528000, A63B0071060000, A61B0018080000	(71) Name of Applicant : 1)CHAPMAN, John, Eric Address of Applicant :251 Highland Hills Drive Gray, TN 37615 U.S.A.
(31) Priority Document No	:16/143575	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)CHAPMAN, John, Eric
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/053035	
Filing Date	:25/09/2019	
(87) International Publication No	:WO 2020/069046	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Flow through a sleeve is controlled with a housing. A removable frame is positioned within the housing. A removable, tubular rotational mechanism defines a hole for receiving the sleeve therein. A pair of arms are pivotally mounted on the rotational mechanism for squeezing the sleeve. An actuator drives the rotational mechanism to pivot the pair of arms to open and to close the sleeve.

No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : TARGETED ENRICHMENT BY ENDONUCLEASE PROTECTION

(51) International classification	:C12Q0001680600, C12N0015100000, C12Q0001682700, C12Q0001686900, C12Q0001683000	(71) Name of Applicant : 1)KEYGENE N.V. Address of Applicant :P.O. Box 216 6700 AE Wageningen Netherlands
(31) Priority Document No	:18208936.7	(72) Name of Inventor :
(32) Priority Date	:28/11/2018	1)WHITE, Stefan John
(33) Name of priority country	:EPO	2)HOGERS, René Cornelis Josephus
(86) International Application No	:PCT/EP2019/082791	
Filing Date	:27/11/2019	
(87) International Publication No	:WO 2020/109412	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The current invention pertains to a method for the enrichment of a target nucleic acid fragment from a nucleic acid sample, comprising the steps of cleaving the nucleic acid sample with a first and a second RNA guided or DNA guided endonuclease complex, preferably a first and a second gRNA-CAS complex, thereby generating the target nucleic acid fragment and at least one non-target nucleic acid fragment. The generated fragments are subsequently contacted with an exonuclease, wherein the exonuclease digests only the non-target nucleic acid fragments. The invention further pertains to the use of the enriched target nucleic acid fragments for preparing an adapter ligated target nucleic acid fragment and for sequencing the target nucleic acid fragment.

No. of Pages : 37 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019043 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ANTI-FAMILY WITH SEQUENCE SIMILARITY 19, MEMBER A5 ANTIBODIES AND METHOD OF USE THEREOF

(51) International classification	:A61K0039000000, G01N0033563000, C07K0007000000, C07K0016180000, A61K0049000000	(71) Name of Applicant : 1)NEURACLE SCIENCE CO., LTD. Address of Applicant :Sanhakgwon 702-2, Anam-ro 145 Seongbuk-gu Seoul 02841 Republic of Korea
(31) Priority Document No	:62/787711	(72) Name of Inventor :
(32) Priority Date	:02/01/2019	1)KIM, Bongcheol
(33) Name of priority country	:U.S.A.	2)KIM, Wonkyum
(86) International Application No	:PCT/IB2019/061461	3)KIM, Dong Sik
Filing Date	:31/12/2019	4)LEE, Jae-Keun
(87) International Publication No	:WO 2020/141452	5)YOON, Jeongwon
(61) Patent of Addition to Application Number	:NA	6)CHUNG, Junho
Filing Date	:NA	7)JIN, Junyeong
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides antibodies that specifically bind to human FAM19A5 and compositions comprising such antibodies. In some embodiments, antibodies are de-immunized to reduce immunogenicity in a human subject. In certain embodiments, antibodies have undergone affinity maturation. In some embodiments, the anti-FAM19A5 antibodies can modulate FAM19A5 activity, e.g. inhibit, suppress, reduce, or reverse the onset of reactive gliosis and/or excessive proliferation of reactive astrocytes, utilizing such antibodies. The present disclosure also provides methods for treating disorders, such as central nervous system damage, a degenerative brain disorder, a neuropathic pain, or a cancer, by administering an antibody that specifically binds to human FAM19A5.

No. of Pages : 130 No. of Claims : 88

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019083 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AIRBAG DEVICE FOR SADDLE-TYPE VEHICLE

(51) International classification	:B62K0011040000, B60R0021000000, B62J0027000000, B60R0021200000, B62J0043000000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan
(31) Priority Document No	:PCT/JP2018/036362	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)KOBAYASHI Yuki
(33) Name of priority country	:Japan	2)MIYAKAWA Futoshi
(86) International Application No	:PCT/JP2018/036362	
Filing Date	:28/09/2018	
(87) International Publication No	:WO 2020/065939	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An airbag device for a saddle-type vehicle is provided with which it is possible to cause the airbag to deploy so as to face a rider in accordance with the turning of a handlebar. In an airbag device 50, a retainer 51 is disposed rearward of a head pipe 14. The retainer 51 is connected to an upper rearward extension part 68 that extends rearward from a steering shaft 20 turnably supported by the head pipe 14, and a lower rearward extension part 69 that extends rearward from the head pipe 14. Also, the retainer 51 moves to the left and right in accordance with the turning of a handlebar 23.

No. of Pages : 24 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019092 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PYRAZOLOPYRIMIDINE DERIVATIVE AS SELECTIVE TRK INHIBITOR

(51) International classification :A61K0009500000,
A61P0009100000,
A61P0035000000,
A61K0047020000,
A61K0031453500

(31) Priority Document No :201811153373.7

(32) Priority Date :29/09/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/109043
Filing Date :29/09/2019

(87) International Publication No :WO 2020/063965

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SHANDONG LUYE PHARMACEUTICAL CO., LTD.
Address of Applicant :No.15, Chuangye Road, Hightech
District Yantai, Shandong 264670 China

(72)Name of Inventor :
1)WANG, Jianfei
2)ZHANG, Yang
3)SUN, Jikui
4)CHEN, Shuhui

(57) Abstract :

Disclosed is a compound as presented in Formula II, a tautomer thereof, and pharmaceutically acceptable salts thereof, and specifically relates to the use thereof in preparing medications for treatment of diseases related to solid tumors.

No. of Pages : 53 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019093 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHOD AND DEVICE FOR PROCESSING INTERFERENCE, STORAGE MEDIUM AND ELECTRONIC DEVICE

(51) International classification	:H04L0005000000, H04B0007060000, H04W0052140000, H04B0001100000, B61K0009080000	(71) Name of Applicant : 1)ZTE CORPORATION Address of Applicant :ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan Shenzhen, Guangdong 518057 China
(31) Priority Document No	:201811142483.3	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)CHEN, Mengzhu
(33) Name of priority country	:China	2)WU, Hao
(86) International Application No	:PCT/CN2019/108934	3)XIE, Saijin
Filing Date	:29/09/2019	4)XU, Jun
(87) International Publication No	:WO 2020/063950	5)LI, Yu Ngok
(61) Patent of Addition to Application Number	:NA	6)ZHAO, Yajun
Filing Date	:NA	7)XU, Hanqing
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided by the present application are a method and device for processing interference, a storage medium and an electronic device, the method comprising: generating a first reference signal; and according to a first parameter set, transmitting the first reference signal.

No. of Pages : 46 No. of Claims : 18

(54) Title of the invention : SYSTEM AND METHOD FOR PYROLYSING ORGANIC WASTE

(51) International classification	:B09B0003000000, C10B0053000000, B65F0001060000, C10B0053070000, C10J0003660000	(71) Name of Applicant : 1)ASX INVESTMENTS B.V. Address of Applicant :Heuvelsestraat 14 5976 NG Kronenberg Netherlands 2)BELGOPROCESS
(31) Priority Document No	:BE2018/5760	(72) Name of Inventor :
(32) Priority Date	:31/10/2018	1)HANSEN, Jurgen
(33) Name of priority country	:Belgium	2)DECKERS, Jan
(86) International Application No	:PCT/EP2019/079741	3)FRANCKEN, René
Filing Date	:30/10/2019	
(87) International Publication No	:WO 2020/089341	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

27 Abstract 'System and method for pyrolysing organic waste' The invention provides a system for pyrolysing organic waste. The system comprises a conical housing (4) configured to temporarily, substantially hermetically, enclose the waste and a mixing device provided with a drive shaft rotatably mounted relative to the housing and a conical mixing body (25) configured inside the housing to fluidise the waste, which mixing body fixedly attached substantially does not touch the housing. The system further comprises heating means (24) for heating the side wall of the housing. This system makes it possible to carry out the processing of organic waste in a batch process. The mixing body prevents a portion of the waste from sticking together by fluidising the waste and keeping it fluidised, whereby the heat generated by the heating means can gradually spread through the waste inside the housing.

No. of Pages : 23 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019095 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ION CHANNEL MODULATORS

(51) International classification :A61K0031498500,
A61K0031502500,
C07D0487040000,
C07D0471040000,
C07D0403040000

(31) Priority Document No :62/738508
(32) Priority Date :28/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/053467
Filing Date :27/09/2019
(87) International Publication No :WO 2020/069322
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)PRAXIS PRECISION MEDICINES, INC.
Address of Applicant :One Broadway 16th Floor Cambridge,
MA 02142 U.S.A.
(72)Name of Inventor :
1)REDDY, Kiran
2)MARTINEZ BOTELLA, Gabriel
3)GRIFFIN, Andrew, Mark
4)MARRON, Brian, Edward

(57) Abstract :

The present invention is directed to, in part, fused heteroaryl compounds and compositions useful for preventing and/or treating a disease or condition relating to aberrant function of a voltage-gated, sodium ion channel, for example, abnormal late/persistent sodium current. Methods of treating a disease or condition relating to aberrant function of a sodium ion channel including neurological disorders (e.g., Dravet syndrome, epilepsy), pain, and neuromuscular disorders are also provided herein.

No. of Pages : 126 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019096 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : FOAMABLE SOLID CLEANSER

(51) International classification	:A61K0008810000, H01M0004134000, A61K0031415000, A61K0031570000, C09J0133040000	(71) Name of Applicant : 1)JOHNSON & JOHNSON CONSUMER INC. Address of Applicant :199 Grandview Road Skillman, New Jersey 08558 U.S.A.
(31) Priority Document No	:62/754885	(72) Name of Inventor :
(32) Priority Date	:02/11/2018	1)HARPER, Donald L.
(33) Name of priority country	:U.S.A.	2)MARTINEZ, Marcee
(86) International Application No	:PCT/IB2019/059316	3)SINGH, Shailendra
Filing Date	:30/10/2019	4)GEONNOTTI, Anthony R., III
(87) International Publication No	:WO 2020/089812	5)JOSEPH, Thomas C.
(61) Patent of Addition to Application Number	:NA	6)SADAVRATI, Hima
Filing Date	:NA	7)ZHUK, Aliaksandr
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A solid cleansing product including at least a first surfactant and a second surfactant present in a combined surfactant weight amount; at least a first buffering agent and a second buffering agent a present in a combined buffering agent weight amount; and magnesium sulfate; where the combined buffering agent weight amount is greater than the combined surfactant weight amount.

No. of Pages : 24 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019097 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SIMPLIFICATIONS OF CODING MODES BASED ON NEIGHBORING SAMPLES DEPENDENT PARAMETRIC MODELS

(51) International classification	:H04N0019176000, H04N0019186000, H04N0019500000, A61C0007000000, H04N0019105000	(71) Name of Applicant : 1)INTERDIGITAL VC HOLDINGS, INC. Address of Applicant :200 Bellevue Parkway Suite 300 Wilmington, Delaware 19809 U.S.A.
(31) Priority Document No	:18306448.4	(72) Name of Inventor :
(32) Priority Date	:05/11/2018	1)FRANCOIS, Edouard
(33) Name of priority country	:EPO	2)LELEANNEC, Fabrice
(86) International Application No	:PCT/US2019/059310	3)POIRIER, Tangi
Filing Date	:01/11/2019	
(87) International Publication No	:WO 2020/096877	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Aspects aim at improving and simplifying the design of modes similar to CCLM or LIC, that are based on neighboring samples dependent parametric models. Proposed modifications relate to ways of deriving the parameters of the parametric model and designing the parametric-model-based prediction tools contained in a codec in a unified and simplified way. In one embodiment, an approach proposes a simplification of the Cross-component linear model process for deriving the linear parameters. It is proposed to replace the Least Mean Squared method to derive parameters instead as parameters of a straight line passing through two points corresponding to the minimum and maximum luma values among all the luma neighboring reconstructed samples.

No. of Pages : 38 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019099 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : EFFICIENT PRODUCTION OF NANOFIBER STRUCTURES

(51) International classification	:D01D0005000000, C12N0009040000, D04H0001728000, G06F0012081100, C07K0014500000	(71) Name of Applicant : 1)EMD MILLIPORE CORPORATION Address of Applicant :Milliporesigma 400 Summit Drive Burlington, MA 01803 U.S.A.
(31) Priority Document No	:62/754183	(72) Name of Inventor :
(32) Priority Date	:01/11/2018	1)KAS, Onur, Y.
(33) Name of priority country	:U.S.A.	2)NGUYEN, Thang
(86) International Application No	:PCT/US2019/059027	3)SATAV, Nitin
Filing Date	:31/10/2019	4)CUDDY, Martin
(87) International Publication No	:WO 2020/092688	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein are electrospinning apparatuses and methods for efficient production of nanofiber structures.

No. of Pages : 25 No. of Claims : 125

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019100 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : LITHIUM POSITIVE ELECTRODE ACTIVE MATERIAL

(51) International classification :H01M0004505000,
H01M0004525000,
H01M0010052500,
H01M0004580000,
H01M0004660000

(31) Priority Document No :PA 2018 01029

(32) Priority Date :19/12/2018

(33) Name of priority country :Denmark

(86) International Application No :PCT/EP2019/086034
Filing Date :18/12/2019

(87) International Publication No :WO 2020/127543

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)HALDOR TOPSØE A/S

Address of Applicant :Haldor Topsøes Allé 1 2800 Kgs.
Lyngby Denmark

(72)Name of Inventor :

1)HØJBERG, Jonathan

2)HØJ, Jakob Weiland

3)ELKJÆR, Christian Fink

4)LUNDEGAARD, Lars Fahl

5)DAHL, Søren

(57) Abstract :

The invention relates to a lithium positive electrode active material for a high voltage secondary battery: the lithium positive electrode active material comprising at least 94 wt% spinel, where the spinel has a net chemical composition of $\text{Li}_x\text{Ni}_y\text{Mn}_{2-y}\text{O}_4$, wherein: $0.95 = x = 1.05$; $50.43 = y = 0.47$. The lithium positive electrode active material is made up of particles characterized by one or more of the following parameter ranges: the particles have average aspect ratio below 1.6, the particles have a roughness below 1.35, particles have a circularity above 0.55. Then invention also relates to a process for the preparation of the lithium positive electrode active material as well as a secondary battery comprising the lithium positive electrode active material.

No. of Pages : 39 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019103 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : RESOURCE INFORMATION DETERMINING METHOD AND DEVICE, STORAGE MEDIUM, AND USER EQUIPMENT

(51) International classification :H04W0072040000,
H04L0005000000,
H04W0056000000,
G06F0017130000,
H04B0017364000

(31) Priority Document No :201811141263.9

(32) Priority Date :28/09/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/100515
Filing Date :14/08/2019

(87) International Publication No :WO 2020/063164

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)SPREADTRUM COMMUNICATIONS (SHANGHAI) CO., LTD.
Address of Applicant :Spreadtrum Center, Bldg. No.1, 2288
Zuchongzhi Road Shanghai 201203 China

(72)**Name of Inventor :**
1)ZHOU, Huayu
2)SHEN, Xingya
3)PAN, Zhengang

(57) Abstract :

A resource information determining method and device, a storage medium, and a user equipment. The method comprises the following steps: determining a frequency domain position of a PRB of a minimum index of a synchronization signal block; determining a position of an initial active downlink BWP according to the frequency domain position of the PRB of the minimum index of the synchronization signal block; determining a position of a CORESET of a first type of PDCCH, wherein the position of the CORESET comprises the frequency domain position of the PRB of the minimum index of the CORESET and the number of the PRBs of the CORESET, or a position of a bitmap-based PRB of the CORESET. By means of the solution of the present invention, the user equipment can obtain resource configuration of the initial active downlink BWP and resource configuration information of the first type of PDCCH in an NR unlicensed spectrum.

No. of Pages : 53 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019119 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PRESSURE DETECTION SIGNAL PROCESSING DEVICE, ENGINE CONTROL SYSTEM, AND PROGRAM

(51) International classification	:G01L002310000, G01L0023220000, G01L0009060000, G01L0001160000, G01L0009080000	(71) Name of Applicant : 1)MIKUNI CORPORATION Address of Applicant :13-11, Sotokanda 6-chome, Chiyoda-ku, Tokyo 1010021 Japan
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)FUJISAKI Satoru
(33) Name of priority country	:NA	2)FUKUI Katsuhiko
(86) International Application No	:PCT/JP2018/042614	
Filing Date	:19/11/2018	
(87) International Publication No	:WO 2020/105074	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The objective of this invention is to remove piezoelectric element drift and thereby obtain a highly accurate pressure detection signal, by means of a simple configuration. A pressure detection signal processing device 200 comprises: a charge amplifier 210 that accumulates charge produced by a piezoelectric element 35 in response to received pressure and outputs a corresponding voltage signal; drift component extraction units 230, 240 that extract a piezoelectric element 35 drift component by subjecting the voltage signal to differentiation processing; and a drift correction unit 250 that uses the extracted drift component to generate a correction signal for removing the drift component and feeds the correction signal back to the input side of the charge amplifier.

No. of Pages : 26 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019122 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : BEARING SUPPORT ASSEMBLY AND MACHINING METHOD THEREFOR, AND CENTRIFUGAL COMPRESSOR

(51) International classification :F16C0035000000,
F16C0035040000,
B25H0001080000,
F16C0019060000,
E05D0015520000

(31) Priority Document No :201811595311.1

(32) Priority Date :25/12/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/112945
Filing Date :24/10/2019

(87) International Publication No :WO 2020/134430

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
Address of Applicant :West Jinji Road, Qianshan Zhuhai,
Guangdong 519070 China

(72)Name of Inventor :
1)LIU, Hua
2)ZHANG, Zhiping
3)LI, Hongbo
4)ZHONG, Ruixing
5)CHEN, Yuhui
6)YE, Wenteng
7)QI, Jingli
8)LIU, Sheng

(57) Abstract :

A bearing support assembly and a machining method therefor. The bearing support assembly comprises: a bearing bracket (52) provided with a through-hole (522) for mounting a radial bearing (8); and a fixing plate (51) detachably mounted at one end of the bearing bracket (52) in an axial direction, the side of the fixing plate (51) away from the bearing bracket (52) being used for mounting a first thrust bearing (10'). The fixing plate (51) and the bearing bracket (52) are of a split structure, facilitating ensuring the perpendicularity of the through-hole for mounting the radial bearing (8) to an end face for mounting the fixing plate (51) during machining, improving the assembly precision of the bearing and the stability of a bearing-rotor system, further improving the qualification rate of machined parts and reducing the machining cost. Also disclosed is a centrifugal compressor comprising a bearing support assembly.

No. of Pages : 11 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019123 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SUCTION/COMPRESSION ROTATING MECHANISM, ROTARY COMPRESSOR AND ROTARY ENGINE

(51) International classification	:G06T0007730000, F04C0029120000, F01C0021000000, F04C0002356000, F16H0057000000
(31) Priority Document No	:1-2018-04633
(32) Priority Date	:19/10/2018
(33) Name of priority country	:Vietnam
(86) International Application No	:PCT/VN2019/000011
Filing Date	:08/07/2019
(87) International Publication No	:WO 2020/082095
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)NGUYEN, Hai

Address of Applicant :No. 3, Alley 29, Nguyen Chi Thanh Street, Ba Dinh District Ha Noi Vietnam

(72)Name of Inventor :

1)NGUYEN, Hai

(57) Abstract :

The present invention relates to highly efficient suction and compression rotating mechanisms, particularly the compression mechanism with piston blocks mounted on two axes and driven by a pair of matching gears in the field of compressors and vacuums or hydraulic system such as oil pump, hydraulic motor, hydraulic gearbox, specifically there is application that uses this mechanism to create one rotary motor with multi compression stages, force-generating stages and continuous fuel burning regime. The new rotary lobe structure in this invention I provides a close contact between curved surfaces with the same radius, which is a "surface-to-surface" contact with much better tightness than "line" contact.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019124 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ROUTING PATH CALCULATION METHOD, SYSTEM AND DEVICE, AND COMPUTER-READABLE STORAGE MEDIUM

(51) International classification	:H04L0012721000, H04L0012705000, H04L0012240000, H04L0012751000, H04L0012723000
(31) Priority Document No	:201811152235.7
(32) Priority Date	:29/09/2018
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2019/107367
Filing Date	:23/09/2019
(87) International Publication No	:WO 2020/063549
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)ZTE CORPORATION

Address of Applicant :ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District Shenzhen, Guangdong 518057 China

(72)Name of Inventor :

1)ZHU, Peng

(57) Abstract :

Disclosed are a routing path calculation method, system and device, and a storage medium. The method comprises: counting the number n of must-be-passed-through constraint conditions, and correspondingly copying n network topology layers; configuring different pieces of layer attribute information for an original network topology layer and the n network topology layers; modifying link connections between the various network topology layers according to the must-be-passed-through constraint conditions, and establishing a unidirectional link connection between two network topology layers with adjacent layer attributes; using a k-shortest path algorithm to calculate a k-shortest path between a starting point of the first network topology layer and an end point of the last network topology layer; and performing restoration processing on a layer attribute of a node in the k-shortest path to obtain a final path.

No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : THERMOPLASTIC RESIN COMPOSITION

(51) International classification	:C08L0051040000, B32B0027300000, C09J0007380000, B32B0015080000, C08F0259080000
(31) Priority Document No	:10-2019-0070232
(32) Priority Date	:13/06/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2020/007286
Filing Date	:04/06/2020
(87) International Publication No	:WO 2020/251215
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)LG CHEM, LTD.Address of Applicant :128, Yeoui-daero Yeongdeungpo-gu
Seoul 07336 Republic of Korea

(72)Name of Inventor :

1)LEE, Roo Da**2)CHOI, Jeong Su****3)LEE, Won Seok****4)PARK, Sang Hoo****5)LEE, Jong Ju**

(57) Abstract :

The present invention relates to a thermoplastic resin composition comprising a base resin and a plasticizer, the base resin comprising, in a weight ratio of 70:30-90:10, a first copolymer obtained by graft polymerizing a first monomer mixture, which comprises an alkyl (meth)acrylate-based monomer and an aromatic vinyl-based monomer, onto a diene-based rubber polymer having an average diameter of 50-200 nm, and a second copolymer which is a copolymer of a second monomer mixture, which comprises an alkyl (meth)acrylate-based monomer and an aromatic vinyl-based monomer.

No. of Pages : 22 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019128 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : EQUIPMENT AND METHOD FOR SELF-CALIBRATION OF AN ANTENNA ARRAY

(51) International classification :A61N0001360000,
H04N0021475000,
H04B0007100000,
H04B0007022000,
H04B0007060000

(31) Priority Document No :1801144

(32) Priority Date :29/10/2018

(33) Name of priority country :France

(86) International Application No :PCT/EP2019/079289
Filing Date :25/10/2019

(87) International Publication No :WO 2020/089125

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)SAFRAN ELECTRONICS & DEFENSE
Address of Applicant :72-76 rue Henry Farman, 75015 Paris,
France France

(72)**Name of Inventor :**
1)LILBERT, Arnaud

(57) Abstract :

The invention concerns a piece of equipment comprising a radio antenna array and a switching device placed in an interval between the antennas and the associated reception channels, the switching device having a first operating mode, called the operational mode, in which each input interface is directly connected to a different output interface in order to connect each antenna to at least its associated reception channel, and a second operating mode, called the calibration mode, in which an input interface corresponding to a predetermined antenna is connected to all of the output interfaces in order to transmit the electrical signal coming from the predetermined antenna to all of the reception channels, the piece of equipment being suitable for carrying out a self-calibration method of the reception channels when the switching device is in the second operating mode.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019129 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : BIFUNCTIONAL COMPOUNDS FOR DEGRADING BTK VIA UBIQUITIN PROTEOSOME PATHWAY

(51) International classification :C07D0403120000,
C07D0491056000,
C07D0491052000,
C07D0401120000,
C07D0401140000

(31) Priority Document No :62/745786

(32) Priority Date :15/10/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/056112
Filing Date :14/10/2019

(87) International Publication No :WO 2020/081450

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)NURIX THERAPEUTICS, INC.

Address of Applicant :1700 Owens Street Suite 205 San Francisco, CA 94158 U.S.A.

(72)Name of Inventor :

1)ROBBINS, Daniel, W.

2)SANDS, Arthur, T.

3)MCINTOSH, Joel

4)MIHALIC, Jeffrey

5)WU, Jeffrey

6)KATO, Daisuke

7)WEISS, Dahlia

8)PENG, Ge

(57) Abstract :

The present invention relates to compounds useful for degrading BTK via a ubiquitin proteolytic pathway. The invention also provides pharmaceutically acceptable compositions comprising said compounds and methods of using the compositions in the treatment of various disease, conditions, or disorders.

No. of Pages : 379 No. of Claims : 106

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019138 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : FORCE SENSING SYSTEM AND METHOD

(51) International classification	:G08B0021040000, G16H0050300000, A61B0005110000, A61B0005220000, A63B0071060000	(71) Name of Applicant : 1)CIRRUS LOGIC INTERNATIONAL SEMICONDUCTOR LIMITED Address of Applicant :7B Nightingale Way, Quartermile Edinburgh Lothian EH3 9EG U.K.
(31) Priority Document No	:1817495.3	(72) Name of Inventor :
(32) Priority Date	:26/10/2018	1)SEPEHR, Hamid
(33) Name of priority country	:U.K.	2)PESO PARADA, Pablo
(86) International Application No	:PCT/GB2019/052991	3)ZWART, Willem
Filing Date	:18/10/2019	4)BIRCHALL, Tom
(87) International Publication No	:WO 2020/084286	5)KOST, Michael Allan
(61) Patent of Addition to Application Number	:NA	6)DAS, Tejasvi
Filing Date	:NA	7)MARU, Siddharth
(62) Divisional to Application Number	:NA	8)BEARDSWORTH, Matthew
Filing Date	:NA	9)DUEWER, Bruce E.

(57) Abstract :

A force sensing system for determining if a user input has occurred, the system comprising: an input channel, to receive an input from at least one force sensor; an activity detection stage, to monitor an activity level of the input from the at least one force sensor and, responsive to an activity level which may be indicative of a user input being reached, to generate an indication that an activity has occurred at the force sensor; and an event detection stage to receive said indication, and to determine if a user input has occurred based on the received input from the at least one force sensor.

No. of Pages : 58 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019139 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SEPARATION MEMBRANE FOR ELECTROCHEMICAL DEVICE, AND METHOD FOR MANUFACTURING SAME

(51) International classification	:H01M0002160000, C08J0007040000, C04B00041850000, B24D0011000000, B32B0027300000	(71) Name of Applicant : 1)LG CHEM, LTD. Address of Applicant :128, Yeoui-daero, Yeongdeungpo-Gu, Seoul 07336 Republic of Korea
(31) Priority Document No	:10-2018-0116542	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)KIM, Young-Bok
(33) Name of priority country	:Republic of Korea	2)SUNG, Dong-Wook
(86) International Application No	:PCT/KR2019/012607	3)JEONG, So-Mi
Filing Date	:27/09/2019	
(87) International Publication No	:WO 2020/067778	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A separation membrane according to the present invention comprises a porous polymer substrate and an inorganic coating layer formed on at least one surface of the porous polymer substrate. The inorganic coating layer comprises inorganic particles and a binder resin, and the binder resin comprises a first binder resin comprising a PVdF-based polymer, and a second binder resin comprising an acrylic polymer having an acid value of 1 or less. In addition, according to one embodiment of the present invention, an inorganic coating layer has a high binder resin amount at the surface layer part thereof, and thus the adhesive strength between a separation membrane and an electrode is excellent.

No. of Pages : 33 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019141 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : LENS ASSEMBLY AND ELECTRONIC DEVICE INCLUDING THE SAME

(51) International classification	:G02B0013000000, H04N0005225000, G02B0005000000, G02B0013020000, H04M0001020000	(71) Name of Applicant : 1)SAMSUNG ELECTRONICS CO., LTD. Address of Applicant :129, Samsung-ro, Yeongtong-gu Suwon-si Gyeonggi-do 16677 Republic of Korea
(31) Priority Document No	:10-2018-0155873	(72) Name of Inventor :
(32) Priority Date	:06/12/2018	1)LEE, Hwanseon
(33) Name of priority country	:Republic of Korea	2)KIM, Yunjeong
(86) International Application No	:PCT/KR2019/016979	3)KIM, Changhan
Filing Date	:05/12/2019	4)LEE, Junghyun
(87) International Publication No	:WO 2020/116922	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

According to an embodiments, a lens assembly or an electronic device including the same may include: a first lens having positive refractive power; a second lens having positive refractive power; a third lens having positive or negative refractive power; and a fourth lens having positive or negative refractive power. The first lens, the second lens, the third lens, and the fourth lens may be sequentially arranged from a subject to an image sensor along an optical axis, and the sum of Abbe numbers of the first lens, the second lens, the third lens, and the fourth lens may satisfy Conditional Expression 1 as follows: $20 \leq v1 + v2 + v3 + v4 \leq 125$ where "v1," "v2," "v3," and "v4" represent the Abbe numbers of the first through fourth lenses, respectively.

No. of Pages : 35 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019142 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SOFTWARE TESTING

(51) International classification	:G06F0011360000, G06N0007000000, C12Q0001688600, G06N0020000000, G01N0033500000	(71) Name of Applicant : 1)Functionize, Inc. Address of Applicant :1255 Treat Blvd Suite 300, Walnut Creek, CA 94597 U.S.A.
(31) Priority Document No	:62/740409	(72) Name of Inventor :
(32) Priority Date	:02/10/2018	1)CSER, Tamas
(33) Name of priority country	:U.S.A.	2)SEATON, Jonathon
(86) International Application No	:PCT/US2019/054366	
Filing Date	:02/10/2019	
(87) International Publication No	:WO 2020/072701	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein is technology relating to testing software and particularly, but not exclusively, to methods for identifying the cause of a failed software test using probabilistic graphical models and/or a rules engine to evaluate and sort test steps by likelihood of failure for dynamic applications.

No. of Pages : 52 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019144 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AIR CONDITIONER

(51) International classification	:F24F0011300000, F24F0003060000, F24F0011460000, F24F0110100000, F24F0001001400	(71) Name of Applicant : 1)HITACHI-JOHNSON CONTROLS AIR CONDITIONING, INC. Address of Applicant :16-1, Kaigan 1-chome, Minato-ku, Tokyo 1050022 Japan
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)OHNISHI Kosuke
(33) Name of priority country	:NA	
(86) International Application No	:PCT/JP2018/038562	
Filing Date	:16/10/2018	
(87) International Publication No	:WO 2020/079764	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An air conditioner (100) according to the present invention comprises an indoor heat exchanger (12), an indoor temperature sensor (24a) that senses the temperature indoors, and a blowing fan (14) that blows air into the indoor heat exchanger (12). From the completion of a dehumidifying operation or a cooling operation until a planned warming completion time at which a prescribed time period has elapsed, the air conditioner (100) executes a warming operation and monitors the temperature indoors using the indoor temperature sensor (24a). When the temperature indoors reaches a prescribed temperature, the air conditioner (100) stops the warming operation, thereby preventing or reducing discomfort of a user through a mold suppression operation as a more suitable mold suppression operation performed after completion of the cooling operation or the dehumidifying operation.

No. of Pages : 28 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019145 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ROBOTICS FOR THEME PARK WEARABLE SOFTWARE TESTING

(51) International classification	:G06F0003010000, G06F0001160000, G06F0003048400, A61B0005024000, H01L0023522000	(71) Name of Applicant : 1)UNIVERSAL CITY STUDIOS LLC Address of Applicant :100 Universal City Plaza Universal City, California 91608 U.S.A.
(31) Priority Document No	:62/744998	(72) Name of Inventor :
(32) Priority Date	:12/10/2018	1)BERRY, Joshua Aaron
(33) Name of priority country	:U.S.A.	2)MONTIJO, JR., Miguel Antonio
(86) International Application No	:PCT/US2019/055020	3)COPELAND, Brian Keith
Filing Date	:07/10/2019	
(87) International Publication No	:WO 2020/076714	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems and methods presented herein include a robotic wearable device testing system with a track drive system that includes one or more tracks having a plurality of attachment pads configured to attach to one or more wearable devices. Each track of the one or more tracks is configured to move along a path defined by the track. In addition, the robotic wearable device testing system includes a tap point drive system that includes one or more tap point sliders configured to slide laterally with respect to the track drive system. Each tap point slider of the one or more tap point sliders includes a tap point configured to wirelessly communicate with the one or more wearable devices when the one or more wearable devices are in close proximity with the tap point. Each tap point slider of the one or more tap point sliders also includes an electronic interference door configured to block wireless signals between the one or more wearable devices and the tap point. The robotic wearable device testing system also includes control circuitry configured to control relative movement of the one or more tracks and the one or more tap point sliders to position one or more wearable devices attached to respective attachment pads of the plurality of attachment pads in close proximity with a tap point of the one or more tap point sliders, and to control movement of the electronic interference door to allow or block the wireless signals between the one or more wearable devices and the tap point of the one or more tap point sliders.

No. of Pages : 21 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019146 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : IMPLANTABLE DEVICES FOR CELL THERAPY AND RELATED METHODS

(51) International classification	:A61K0009000000, A61L0027380000, C12N0005000000, A61K0035300000, A61K0035280000	(71) Name of Applicant : 1)SIGILON THERAPEUTICS, INC. Address of Applicant :100 Binney St, Ste 600 Cambridge, MA 02142 U.S.A.
(31) Priority Document No	:62/737835	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)BARNEY, Lauren, Emily
(33) Name of priority country	:U.S.A.	2)HEIDEBRECHT, Richard
(86) International Application No	:PCT/US2019/053637	3)MILLER, Robert, James
Filing Date	:27/09/2019	4)OBERLI, Matthias, Alexander
(87) International Publication No	:WO 2020/069429	5)YIN, Zoe
(61) Patent of Addition to Application Number	:NA	6)BEAUREGARD, Michael
Filing Date	:NA	7)JOHNSTON, Erika Ellen
(62) Divisional to Application Number	:NA	8)O'CONNOR, Owen
Filing Date	:NA	9)VEISEH, Omid
		10)CARMONA, Guillaume
		11)GONZALEZ, Francisco Caballero
		12)PERITT, David
		13)SMITH, Devyn McKinley
		14)WOTTON, Paul Kevin
		15)SEWELL, Jared A.

(57) Abstract :

Described herein are implantable devices comprising means for mitigating the foreign body response (FBR) and at least one cell-containing compartment which comprises a plurality of cells (e.g., live cells) encapsulated in a polymer composition comprising a cell-binding substance (CBS), as well as compositions and methods of making and using the same. The cells are capable of expressing a therapeutic agent useful for the treatment of a disease, disorder, or condition described herein.

No. of Pages : 150 No. of Claims : 41

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019162 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AIR BARRIER SYSTEMS FOR DATA CENTER ZONE CONTAINMENT

(51) International classification :H05K0007200000,
F24F0013020000,
G06F0003020000,
H01L0021027000,
E04B0001760000

(31) Priority Document No :62/740390
(32) Priority Date :02/10/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/054354
Filing Date :02/10/2019
(87) International Publication No :WO 2020/072691
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)RITE-HITE HOLDING CORPORATION
Address of Applicant :8900 North Arbon Drive Milwaukee,
Wisconsin 53223 U.S.A.
(72)**Name of Inventor :**
1)SCHMIDT, Blaine
2)GEBKE, Kevin J.
3)KAUFMANN, Nicholas L.
4)SLOAN, Philip
5)NIEHAUS, William A.

(57) Abstract :

An example air barrier system for a data center within a building is disclosed. The example air barrier system includes a pliable barrier material to partition an area above a top of row of computer cabinets in the data center and below an overhead surface of the building. The pliable barrier material is to reduce mixing of air between first and second aisles on opposites sides of the row of computer cabinets. The example air barrier system also includes a frame to support the pliable barrier material in position when in the area above the top of the row of computer cabinets. The frame is to be supported by the row of computer cabinets without support from the overhead surface.

No. of Pages : 36 No. of Claims : 65

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019164 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SAMPLE CONTAINER WITH INTEGRATED INTERNAL REFLECTION ELEMENT

(51) International classification :G01N0021552000,
G01N0021350000,
B01L0003000000,
B01L0007000000,
G01J0003020000

(31) Priority Document No :1816687.6
(32) Priority Date :12/10/2018
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2019/052898
Filing Date :11/10/2019
(87) International Publication No :WO 2020/074918
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)DXCOVER LIMITED
Address of Applicant :Suite RC534, Royal College Building
204, George Street, Glasgow, Scotland G1 1XW Scotland

(72)**Name of Inventor :**
1)BAKER, Matthew
2)HEGARTY, Mark
3)BUTLER, Holly Jean

(57) Abstract :

A sample container (100) for use in a ATR-FTIR spectrometer, comprises an internal reflection element "IRE" (101), the IRE comprising a first surface (104) and a second surface (105). The first surface (104) is configured to receive a sample (20) and the second surface (105) is an infrared beam-receiving surface. The IRE (101) forms at least a portion of a wall of the sample container (100), such that in use, when a sample (20) is provided on the first surface (104) of the IRE (101), the sample (20) is provided within the sample container (100).

No. of Pages : 26 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019165 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHOD AND APPARATUS FOR TRANSMITTING INDICATION INFORMATION

(51) International classification :H04W0088020000,
H04W0074080000,
H04W0072040000,
H04L0005100000,
H04W0052020000

(31) Priority Document No :201811142392.X

(32) Priority Date :28/09/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/107714
Filing Date :25/09/2019

(87) International Publication No :WO 2020/063630

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)HUAWEI TECHNOLOGIES CO., LTD.

Address of Applicant :Huawei Administration Building,
Bantian,Longgang District Shenzhen, Guangdong 518129 China

(72)Name of Inventor :

1)JIA, Qiong

2)ZHU, Jun

3)WU, Ji

(57) Abstract :

Embodiments of the present application provide a method for transmitting indication information, comprising: a first device generates first indication information, the first indication information comprising information about the format of channel occupancy time of the first device, wherein the channel occupancy time comprises one or more sub-periods, the one or more sub-periods are used for uplink transmission, downlink transmission, flexible transmission, or interrupt transmission, and the sub-period for interrupt transmission can be used for transmission of other devices apart from the first device; the first device sends the first indication information. By means of the indication approach described in the embodiments of the present application, the device can obtain the format in COT in advance, so as to save blind test overhead or sleep early to save energy consumption.

No. of Pages : 30 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019174 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : CONTROL DATA TRANSMISSION METHOD AND NETWORK DEVICE AND STORAGE MEDIUM

(51) International classification	:H04W0076120000, H04W0028120000, H04W0040120000, H04W0040040000, H04L0012727000	(71) Name of Applicant : 1)GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. Address of Applicant :No. 18, Haibin Road, Wusha, Chang'an, Dongguan, Guangdong 523860 China
(31) Priority Document No	:PCT/CN2018/108836	(72) Name of Inventor :
(32) Priority Date	:29/09/2018	1)XU, Yang
(33) Name of priority country	:China	
(86) International Application No	:PCT/CN2019/080636	
Filing Date	:29/03/2019	
(87) International Publication No	:WO 2020/062819	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are a control data transmission method, a network device and a storage medium. The method comprises: a first core network device sending first delay information to a first access network device (S11), wherein the first delay information represents delay in transmitting data on a first path, and the first path is a user plane data path between a second core network device and the first access network device.

No. of Pages : 48 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019178 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : COMPACT HEARING AIDS

(51) International classification :H04R0025000000,
H04R0019000000,
A61B0005145000,
A61F0011140000,
H04R0029000000

(31) Priority Document No :62/742525

(32) Priority Date :08/10/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/054750
Filing Date :04/10/2019

(87) International Publication No :WO 2020/076640

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)NANOEAR CORPORATION, INC.
Address of Applicant :2450 Holcombe Blvd., Suite X
Houston, TX 77021 U.S.A.

(72)**Name of Inventor :**
1)MOSES, Ron, L.
2)MOORE, Michael, M.
3)SALTHOUSE, Christopher

(57) Abstract :

The present disclosure relates to compact hearing aids, components thereof, and support systems therefor, as well as methods of insertion and removal thereof. The compact hearing aids generally include a sensor, such as a microphone, an actuation mass, an energy source for providing power to the compact hearing aid, a processor, and an actuator enclosed in a housing that is designed to be inserted through the tympanic membrane during a minimally-invasive outpatient procedure. In operation, the microphone receives sound waves and converts the sound waves into electrical signals. A processor then modifies the electrical signals and provides the electrical signals to the actuator. The actuator converts the electrical signals into mechanical motion, which actuates the actuation mass to modulate the velocity or the position of the tympanic membrane.

No. of Pages : 34 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019179 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHODS FOR REDUCING AGGREGATION OF BISPECIFIC ANTIBODIES

(51) International classification	:A61K0047260000, C07K0016280000, A61K0039000000, A61K0047020000, A61K0047180000	(71) Name of Applicant : 1)AMGEN INC. Address of Applicant :One Amgen Center Drive Thousand Oaks, California 91320-1799 U.S.A.
(31) Priority Document No	:62/739542	(72) Name of Inventor :
(32) Priority Date	:01/10/2018	1)JAGANNATHAN, Bharadwaj
(33) Name of priority country	:U.S.A.	2)HUH, Joon
(86) International Application No	:PCT/US2019/053462	3)TREUHEIT, Michael
Filing Date	:27/09/2019	4)SHAN, Daxian
(87) International Publication No	:WO 2020/072306	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention disclosed herein relates to methods for reducing aggregation of bispecific antibodies, for example reducing aggregation of bispecific T cell engager (BiTE) antibody constructs, resulting from storage under frozen conditions by holding the antibodies at certain temperatures after thaw.

No. of Pages : 72 No. of Claims : 49

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019180 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : TERRESTRIAL OR NON-TERRESTRIAL WIRELESS COMMUNICATION SYSTEMS

(51) International classification	:H04B0007185000, H04B0007060000, H04B0007204000, H04B0007040800, H04W0056000000	(71) Name of Applicant : 1)FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V. Address of Applicant :Hansastraße 27c 80686 München Germany
(31) Priority Document No	:18204184.8	(72) Name of Inventor :
(32) Priority Date	:02/11/2018	1)DANG, Thi Uyen Ly
(33) Name of priority country	:EPO	2)HEYN, Thomas
(86) International Application No	:PCT/EP2019/079930	3)HOFMANN, Alexander
Filing Date	:31/10/2019	4)RASCHKOWSKI, Leszek
(87) International Publication No	:WO 2020/089438	5)FEHRENBACH, Thomas
(61) Patent of Addition to Application Number	:NA	6)JAECKEL, Stephan
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A wireless communication system comprising: at least a first terrestrial or non-terrestrial base station, the first base station (10, 10', 156) configured to generate one or more beams (10, 10', 156) for covering at least a first beam coverage area (12); wherein the first base station (10, 10', 156) is configured to broadcast at least to the first beam coverage area (12) a list of tracking area IDs comprising a first tracking area ID belonging to a first tracking region (12a) and a second tracking area ID belonging to a second tracking region (12b).

No. of Pages : 23 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019181 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SYSTEMS, METHODS, AND DEVICES FOR ACCESS CONTROL

(51) International classification	:G06Q0020380000, G07C0009280000, H04L0029060000, G07C0009250000, B66B0001340000	(71) Name of Applicant : 1)ASSA ABLOY AB Address of Applicant :Box 70340 Stockholm 107 23 Sweden
(31) Priority Document No	:62/754812	(72) Name of Inventor :
(32) Priority Date	:02/11/2018	1)HOYER, Philip
(33) Name of priority country	:U.S.A.	2)EINBERG, Fredrik Carl Stefan
(86) International Application No	:PCT/EP2019/080113	
Filing Date	:04/11/2019	
(87) International Publication No	:WO 2020/089484	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An access control system may comprise a credential including credential data, and at least one reader. The at least one reader is configured to receive, over a link, the credential data. The at least one reader is configured to verify that the credential is valid based on the credential data, and mark the credential as valid and track a location of the credential relative to the at least one reader. The at least one reader is configured to make or delay an access control decision for the credential based on the location of the credential.

No. of Pages : 35 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019182 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PROXIMITY AWARENESS IN SIDELINK COMMUNICATIONS

(51) International classification	:H04W0072100000, H04W0004021000, H04W0076140000, H04W0004400000, H04W0074020000	(71) Name of Applicant : 1)FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V. Address of Applicant :Hansastraße 27c 80686 München Germany
(31) Priority Document No	:18203882.8	(72) Name of Inventor :
(32) Priority Date	:31/10/2018	1)BHADAURIA, Shubhangi
(33) Name of priority country	:EPO	2)ROTH-MANDUTZ, Elke
(86) International Application No	:PCT/EP2019/072399	3)SHAWKY HASSAN HUSSEIN, Khaled
Filing Date	:21/08/2019	4)LEYH, Martin
(87) International Publication No	:WO 2020/088817	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus for a wireless communication system is described. The apparatus is configured to be connected to at least one UE via a sidelink for a sidelink communication with the one or more UEs. The apparatus is configured to obtain distance information representing a certain communication range or a certain distance around the apparatus, perform a communication with one or more UEs at or within the certain communication range or the certain distance at a first priority to meet a predefined QoS, and perform a communication with one or more UEs outside the certain communication range or the certain distance at a second priority, the first priority being higher than the second priority to meet a predefined QoS.

No. of Pages : 38 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019187 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHOD AND NETWORK DEVICE FOR ROUTING PROCESSING

(51) International classification	:H04L0012715000, H04L0012751000, H04L0012721000, H04L0012741000, H04L0012753000	(71) Name of Applicant : 1)HUAWEI TECHNOLOGIES CO., LTD. Address of Applicant :Huawei Administration Building, Bantian,Longgang District Shenzhen, Guangdong 518129 China
(31) Priority Document No	:201811302078.3	(72) Name of Inventor :
(32) Priority Date	:02/11/2018	1)WANG, Haibo
(33) Name of priority country	:China	2)ZHUANG, Shunwan
(86) International Application No	:PCT/CN2019/115174	
Filing Date	:02/11/2019	
(87) International Publication No	:WO 2020/088684	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed in the present application are a method and network device for routing processing. The network device obtains a routing prefix and information of an autonomous system associated with the obtained routing prefix, and the information of the associated autonomous system comprises information of an autonomous system to be verified. The network device verifies whether a matching item is present in a routing source information library, the matching item comprising the obtained routing prefix and the information of the autonomous system to be verified, and according to the verification result, determines whether to send the obtained routing prefix. By means of verifying the autonomous system information associated with the routing prefix to be sent before sending the routing prefix, the possibility that the network device sends routing information carrying incorrect autonomous system information is reduced, which thereby reduces the possibility of the flow direction of network traffic being abnormal.

No. of Pages : 22 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019188 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : CHANNEL ACCESS MECHANISM FOR RANDOM ACCESS CHANNEL IN UNLICENSED SPECTRUM

(51) International classification	:H04W0074080000, H04W0074000000, H04W0074020000, G06Q0030020000, H04W0072020000	(71) Name of Applicant : 1)HUAWEI TECHNOLOGIES CO., LTD. Address of Applicant :Huawei Administration Building Bantian, Longgang District Shenzhen, Guangdong 518129 China
(31) Priority Document No	:62/751460	(72) Name of Inventor :
(32) Priority Date	:26/10/2018	1)ZHANG, Jiayin
(33) Name of priority country	:U.S.A.	2)SALEM, Mohamed Adel
(86) International Application No	:PCT/CN2019/112401	3)ZHANG, Liqing
Filing Date	:22/10/2019	
(87) International Publication No	:WO 2020/083265	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Method and devices are provided for a channel access mechanism for accessing a network on a random access channel (RACH). Methods involve defining a listen-before-talk (LBT) category to be used as part of a contention based procedure and how a contention window that is part of the LBT can be dynamically adjusted.

No. of Pages : 45 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019192 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : TERMINAL DEVICE AND COMMUNICATION METHOD

(51) International classification	:H04L0005000000, H04W0072040000, H04B0007060000, H04L0001180000, H04B0007041300	(71) Name of Applicant : 1)SHARP KABUSHIKI KAISHA Address of Applicant :1, Takumi-cho, Sakai-ku Sakai City, Osaka 590-8522 Japan Japan 2)FG INNOVATION COMPANY LIMITED
(31) Priority Document No	:2018-205076	(72) Name of Inventor :
(32) Priority Date	:31/10/2018	1)YAMADA, Ryota
(33) Name of priority country	:Japan	2)TOMEBA, Hiromichi
(86) International Application No	:PCT/JP2019/041732	3)NAMBA, Hideo
Filing Date	:24/10/2019	4)HAMAGUCHI, Yasuhiro
(87) International Publication No	:WO 2020/090622	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is able to provide a terminal device and a communication method, which make it possible to improve reliability or frequency usage efficiency in the case of transmission using beam forming. This terminal device is provided with: an upper layer processing unit in which demodulation reference signal (DMRS) antenna port groups indicating two groups of antenna ports for a DMRS are set; a reception unit which receives the DMRS, downlink control information (DCI), and a physical downlink shared channel (PDSCH); and a decoding unit which decodes the PDSCH. The PDSCH includes a transport block, and when the number of transport blocks set by the DCI is one, one transport block is decoded using the PDSCH demodulated by the DMRS of the first group and/or the PDSCH demodulated by the DMRS of the second group.

No. of Pages : 79 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019193 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : COMPOSITIONS FOR TRANSFECTING MRNA INTO A CELL AND THEIR APPLICATIONS

(51) International classification	:A61K0048000000, A61K0009127000, A61K0031710500, C12P0019340000, C12N0015630000	(71) Name of Applicant : 1)POLYPLUS TRANSFECTION Address of Applicant :Bioparc Boulevard Sébastien Brant 67400 Illkirch Graffenstaden France
(31) Priority Document No	:18306417.9	(72) Name of Inventor :
(32) Priority Date	:30/10/2018	1)STOCK, Fabrice
(33) Name of priority country	:EPO	2)TOUSSAINT MOREAU, Valérie
(86) International Application No	:PCT/EP2019/079742	3)ERBACHER, Patrick
Filing Date	:30/10/2019	
(87) International Publication No	:WO 2020/089342	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to compositions for transfecting a messenger RNA (m RNA) into a cell and their applications. The present invention is directed to a composition for transfecting a mRNA into a cell comprising a mRNA, at least one neutral lipid and a cationic lipid of formula (I), wherein R1 R2, R3, R4 and R5, (CH2)n and A- are as defined in the description. The present invention also relates to uses of said composition and to a method for in vitro transfection of live cells.

No. of Pages : 84 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019194 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : WIND TURBINE MAST SECTION, WIND TURBINE MAST AND ASSEMBLY METHOD

(51) International classification	:E04H0012080000, E04B0001610000, H01L0027115730, B08B0001000000, H02G0003040000	(71) Name of Applicant : 1)ARCELORMITTAL Address of Applicant :24-26, Boulevard d'Avranches 1160 Luxembourg Luxembourg
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)VENTURA GARCIA, Beatriz
(33) Name of priority country	:NA	2)GREMLING, Michaël
(86) International Application No	:PCT/IB2018/058488	3)DUPONT, Emilie
Filing Date	:30/10/2018	
(87) International Publication No	:WO 2020/089674	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a mast section (1) comprising a wall, the section (1) comprising two tubular mast elements that are stacked on top of each other and arranged edge-to-edge in a joining plane (P), each element (14) comprising two wall segments (16) that are connected by segment connectors (26) extending along the longitudinal edges of the segments (16). The mast section (1) comprises element connectors (36), each of which spans the elements (14) and connects same to each other. The element connectors (36) are arranged either on the inner surface (12) or the outer surface (13) of the wall, and the segment connectors (26) are arranged on the other surface, each element connector (36) extending at least partially across from at least one of the segment connectors (26) in a radial direction of the mast section (1) such that the wall is placed between said element connector (36) and the segment connector (26).

No. of Pages : 25 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019195 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : LATERAL CABINET WITH SWING LEAF FOR A GATE FOR CONTROLLING ACCESS TO A RESTRICTED AREA

(51) International classification :E05D0003020000,
F02K0001120000,
B64C0009160000,
E05F0001120000,
E05D000111000000

(31) Priority Document No :18 01153
(32) Priority Date :02/11/2018
(33) Name of priority country :France
(86) International Application No :PCT/EP2019/079886
Filing Date :31/10/2019
(87) International Publication No :WO 2020/089420
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)REVENUE COLLECTION SYSTEMS FRANCE SAS
Address of Applicant :Zone Industrielle Les Bordes 91220
PLESSIS PATE France
(72)Name of Inventor :
1)HARMAND, Patrick
2)LARNAUD, Nicolas
3)LAURENT, Xavier
4)SOBASTO, Jean-Sébastien
5)CHAMAILLARD, Guy

(57) Abstract :

Disclosed is a lateral cabinet (20) comprising a box (30) arranged along a passage (24), at least one swing leaf (32) for blocking the passage (24), formed from a primary flap (50) and a secondary flap (52) mounted so as to be able to move relative to each other between a folded configuration in which the secondary flap (52) is nested within the primary flap (50) and an unfolded configuration in which the secondary flap (52) mainly extends out of the primary flap (50), and a hinge mechanism (34) hinging the swing leaf (32) to the box (30) comprising a primary pivot link (56) for the primary flap (50) to pivot relative to the box (30) about a primary axis (A-A') substantially parallel to the positioning surface (45) of the box (30), a secondary pivot link (58) for the secondary flap (52) to pivot relative to the box (30) about a secondary axis (B-B') substantially parallel to the primary axis (A-A') and spaced apart from the primary axis (A-A'), and a rigid part (60) hinged to the primary and secondary flaps (50, 52).

No. of Pages : 12 No. of Claims : 14

(54) Title of the invention : FILTRATION METHOD IN WHICH POROUS MEMBRANE IS USED

(51) International classification	:B01D0067000000, B01D0069080000, C02F0001440000, B01D0065020000, B01D0071360000	(71) Name of Applicant : 1)ASAHI KASEI KABUSHIKI KAISHA Address of Applicant :1-1-2 Yurakucho, Chiyoda-ku, Tokyo 1000006 Japan
(31) Priority Document No	:2018-214803	(72) Name of Inventor : 1)OKAMURA, Daisuke
(32) Priority Date	:15/11/2018	
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/043976	
Filing Date	:08/11/2019	
(87) International Publication No	:WO 2020/100763	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is a filtration method having exceptional filtration properties and cleansing efficiency as well as a long service life. The present invention pertains to a filtration method characterized by including: a filtration step for passing a filtration liquid by means of external-pressure filtration through a module of a porous membrane configured from a three-dimensional mesh-structure resin, thus filtering the filtration liquid; a cleansing step for conducting backwashing in which a cleansing liquid is passed through the porous membrane from the inner-side surface of the membrane and also conducting air bubbling, thereby cleansing the outer-side surface of the porous membrane, the cleansing step being performed after the filtration step; and a discharge step for discharging the cleansing liquid remaining on the outer-side surface and in the interior of the porous membrane, the discharge step being performed after the cleansing step; the filtration method also being characterized in that, in each region of an SEM image of a membrane cross-section taken along a membrane thickness direction orthogonal to the inner-side surface of the porous membrane, the sum total area of a resin part having an area of 1 μm^2 or less is 70% or higher with respect to the overall area of the resin part, and/or the sum total area of a resin part having an area of 10 μm^2 or higher is 15% or less with respect to the overall area of the resin part.

No. of Pages : 34 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019240 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : MUCOADHESIVE PHARMACEUTICAL COMPOSITIONS OF CORTICOSTEROIDS

(51) International classification	:A61K0009000000, A61K0031573000, A61K0031580000, A61K0047100000, A61K0009100000	(71) Name of Applicant : 1)FERRING B.V. Address of Applicant :Polaris Avenue 144 2132 JX Hoofddorp Netherlands
(31) Priority Document No	:62/749878	(72) Name of Inventor :
(32) Priority Date	:24/10/2018	1)GRENIER, Arnaud
(33) Name of priority country	:U.S.A.	2)CARRARA, Dario
(86) International Application No	:PCT/IB2019/059079	
Filing Date	:23/10/2019	
(87) International Publication No	:WO 2020/084530	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described herein are mucoadhesive pharmaceutical compositions of corticosteroids, as well as methods of making such pharmaceutical compositions, and therapeutic methods using them. The compositions typically comprise a corticosteroid in a mucoadhesive system, wherein the mucoadhesive system comprises a rheology-modifying agent and a vehicle for the corticosteroid. The compositions are particularly useful for treating inflammatory conditions of the esophagus, such as eosinophilic esophagitis, or inflammatory bowel disease.

No. of Pages : 50 No. of Claims : 57

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019253 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : BATTERY CELL THERMAL CONDUCTIVITY MEASUREMENT DEVICE AND BATTERY CELL THERMAL CONDUCTIVITY MEASUREMENT METHOD USING SAME

(51) International classification :H01M0002020000,
G01N0025180000,
G01N0027180000,
H01M0010056500,
H01M0010613000

(31) Priority Document No :10-2019-0072383

(32) Priority Date :18/06/2019

(33) Name of priority country :Republic of Korea

(86) International Application No :PCT/KR2020/007270
Filing Date :04/06/2020

(87) International Publication No :WO 2020/256316

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)LG CHEM, LTD.

Address of Applicant :128, Yeoui-daero, Yeongdeungpo-Gu, Seoul 07336 Republic of Korea

(72)Name of Inventor :

1)KIM, Kwang Min

2)SONG, Woo Young

(57) Abstract :

The present invention relates to a device for measuring the thermal characteristics of a pouch-type battery cell, specifically, the thermal conductivity of the battery cell, and a thermal conductivity measurement method using same. When the battery cell thermal conductivity measurement device of the present invention is used, the thermal conductivity of a pouch-type battery cell exhibiting anisotropic thermal conductivity characteristics can be separated along each direction and measured, and thereby stability according to the thermal characteristics of a product, which uses a battery cell for a rechargeable battery, can be efficiently evaluated.

No. of Pages : 23 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019256 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : SOUNDING REFERENCE SIGNAL AND HYBRID AUTOMATIC REPEAT REQUEST FOR NEW RADIO-UNLICENSED

(51) International classification	:H04L0005000000, H04W0072040000, H04L0012240000, H04L0001000000, H04W0072080000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014 U.S.A.
(31) Priority Document No	:62/739031	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)KUNDU, Lopamudra
(33) Name of priority country	:U.S.A.	2)MONDAL, Bishwarup
(86) International Application No	:PCT/US2019/053382	3)XIONG, Gang
Filing Date	:27/09/2019	4)KWAK, Yongjun
(87) International Publication No	:WO 2020/069269	5)LEE, Daewon
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses one or more computer-readable media comprising instructions to: determine SRS resource allocation information to configure uplink resources for an SRS, the uplink resources to include a plurality of bandwidth ranges within a sounding bandwidth; perform a LET procedure in individual bandwidth ranges of the plurality of bandwidth ranges to detect at least one bandwidth range available for the SRS; and generate the SRS for transmission within the at least one bandwidth range.

No. of Pages : 25 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019257 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHOD AND APPARATUS FOR PERFORMING HARQ OPERATION FOR NR V2X SYSTEM

(51) International classification	:H04L0001180000, H04W0072020000, H04W0072040000, H04W0088020000, H04N0019310000	(71) Name of Applicant : 1)INNOVATIVE TECHNOLOGY LAB CO., LTD. Address of Applicant :4th Floor, 5th Floor, 175, Baumoe-ro, Seocho-gu Seoul 06744 Republic of Korea
(31) Priority Document No	:10-2018-0116048	(72) Name of Inventor : 1)PARK, Dong Hyun
(32) Priority Date	:28/09/2018	
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:PCT/KR2019/012666	
Filing Date	:27/09/2019	
(87) International Publication No	:WO 2020/067816	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for performing sidelink HARQ operation by a terminal in an NR V2X system may be provided. Here, the method for performing HARQ operation may comprise the steps of: configuring a session by signaling a higher layer; receiving configuration information for HARQ operation via the higher layer; receiving DCI from a base station; transmitting data via sidelink on the basis of the received DCI; and receiving a PSHICH.

No. of Pages : 47 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019258 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHOD FOR REFINING BIO-BASED PROPYLENE GLYCOL

(51) International classification	:C07C0029820000, C09K0005200000, C07C0029145000, A61K0047100000, C07C0029860000
(31) Priority Document No	:201811151458.1
(32) Priority Date	:29/09/2018
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2019/106551
Filing Date	:19/09/2019
(87) International Publication No	:WO 2020/063425
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)CHANGCHUN MEIHE SCIENCE AND TECHNOLOGY DEVELOPMENT CO., LTD.
Address of Applicant :No. 2919 Foshan Street, Economic Development Zone Changchun, Jilin 130102 China

(72)**Name of Inventor :**
1)YUAN, Yi

(57) Abstract :

A method for refining bio-based propylene glycol, wherein impurities having a boiling point close to that of propylene glycol are separated. In the present method, C5-C20 lipophilic alcohol compounds, C5-C20 alkanes and/or C4-C20 lipophilic ketone compounds are used as azeotropic agents to implement azeotropy with bio-based propylene glycol to obtain an azeotrope containing propylene glycol; the azeotropic agents in the azeotrope are then separated and removed to obtain crude propylene glycol; and the crude propylene glycol is further purified to obtain propylene glycol.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019259 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : IMMUNOPROTEASOME INHIBITOR FORMULATION

(51) International classification	:A61K0009190000, A61K0009000000, A61K0031700000, C07D0409100000, A61K0031535500	(71) Name of Applicant : 1)KEZAR LIFE SCIENCES Address of Applicant :4000 Shoreline Court Ste. 300 South San Francisco, CA 94080 U.S.A.
(31) Priority Document No	:62/741221	(72) Name of Inventor :
(32) Priority Date	:04/10/2018	1)LEWIS, Evan
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/054605	
Filing Date	:04/10/2019	
(87) International Publication No	:WO 2020/072848	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein are pharmaceutical formulations comprising KZR-616 or a salt thereof, and a sugar, wherein the formulations are lyophilized, methods of preparing said formulations, methods of treating immune-related diseases, and methods of treating inflammation.

No. of Pages : 35 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019260 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : COATING COMPOSITIONS CONTAINING PHOSPHORUS ACID FUNCTIONAL POLYOL POLYMERS AND COATINGS FORMED THEREFROM

(51) International classification	:C08G0018400000, C08G0018790000, C08G0101000000, C08G0018480000, C09D0007610000
(31) Priority Document No	:62/754188
(32) Priority Date	:01/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/059541
Filing Date	:01/11/2019
(87) International Publication No	:WO 2020/093010
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)PPG INDUSTRIES OHIO, INC.

Address of Applicant :3800 West 143rd Street Cleveland, Ohio 44111 U.S.A.

(72)Name of Inventor :

1)VERARDI, Christopher A.

2)DONALDSON, Susan F.

3)LAMERS, Paul H.

4)MORROW, Karen

5)MAUER III, George W.

6)BARANCYK, Steven V.

(57) Abstract :

A coating composition includes: (a) a phosphorus acid functional polyol polymer having an acid value within a range of greater than 7 mg KOH/g and 33 mg KOH/g or less, and a hydroxyl value within a range of from 60 to 200 mg KOH/g; (b) an aminoplast derived crosslinker reactive with the phosphorus acid functional polyol polymer; and (c) a non-aqueous liquid medium. Further, if an external catalyst is present, the coating composition comprises less than 0.25 weight % of the external catalyst based on the total weight of the coating composition. The coating composition cures at a temperature of 100°C or less.

No. of Pages : 38 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019264 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : TRANSFER DEVICE FOR MAINTAINING AN ELECTRICAL OR OPTICAL CONNECTION

(51) International classification :G11B0005530000,
B29D0030160000,
G02B0007080000,
E02F0003200000,
B08B0003020000

(31) Priority Document No :1872287

(32) Priority Date :04/12/2018

(33) Name of priority country :France

(86) International Application No :PCT/EP2019/083533
Filing Date :03/12/2019

(87) International Publication No :WO 2020/115064

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)THALES

Address of Applicant :TOUR CARPE DIEM Place des
Corolles Esplanade Nord 92400 COURBEVOIE France

(72)Name of Inventor :

1)LAGADEC, Jean

2)CADALEN, François

3)DOUKHAN, Marc

4)BENDELAC, Steve

(57) Abstract :

Transfer device for limiting torsion in a line (105) between an end of the line that is fixed with respect to a fixed part (102) and an end of the line that is fixed with respect to a rotating part (103) that is able to rotate with respect to the fixed part (102) about an axis of rotation (x), the transfer device for a line comprising: - a composite drum (10) comprising a set of drums, which are aligned along the axis of rotation (x), and about which the line (105) is able to be wound, the set of drums comprising a fixed drum intended to be secured to the fixed part (102) in terms of rotation about the axis of rotation (x), a rotating drum intended to be able to rotate about the axis x with respect to the fixed part (102), and a set of at least one idle drum interposed between the fixed drum and the rotating drum, each idle drum being free to rotate about the axis of rotation (x) with respect to the rotating drum and to the fixed drum and having a height along the axis (x).

No. of Pages : 20 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019265 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : COMBINATION THERAPY FOR CANCER

(51) International classification	:C07K0016280000, A61K0039000000, A61K0039395000, A61P0035000000, G01N0033574000	(71) Name of Applicant : 1)FIVE PRIME THERAPEUTICS, INC. Address of Applicant :111 Oyster Point Blvd. South San Francisco, California 94080 U.S.A.
(31) Priority Document No	:62/745464	(72) Name of Inventor :
(32) Priority Date	:15/10/2018	1)INAMDAR, Sandeep P.
(33) Name of priority country	:U.S.A.	2)COLLINS, Helen L.
(86) International Application No	:PCT/US2019/056210	3)XIANG, Hong
Filing Date	:15/10/2019	4)ZHANG, Xiang
(87) International Publication No	:WO 2020/081497	5)MARINA, Neyssa
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides methods of administering antibodies and antigen-binding fragments thereof that specifically bind to human B7-H4 to a subject in need thereof, for example, a cancer patient, in combination with a PD-1/PD-L1 antagonist, such as an anti-PD-1 antibody.

No. of Pages : 70 No. of Claims : 53

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019267 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : COMPOSITIONS COMPRISING PYRIDINE CARBOXYLATE HERBICIDES AND 4-HYDROXYPHENYL-PYRUVATE DIOXYGENASE (HPPD) INHIBITOR HERBICIDES

(51) International classification	:A01N004340000, A01N0043540000, A01N0043900000, A01N0043560000, A01N0041100000
(31) Priority Document No	:62/756827
(32) Priority Date	:07/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/059612
Filing Date	:04/11/2019
(87) International Publication No	:WO 2020/096936
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)CORTEVA AGRISCIENCE LLC

Address of Applicant :9330 Zionsville Road Indianapolis, Indiana 46268 U.S.A.

(72)Name of Inventor :

1)KISTER, Jeremy

2)SATCHIVI, Norbert M.

(57) Abstract :

Disclosed herein are compositions comprising (a) a pyridine carboxylate herbicide or an agriculturally acceptable N-oxide, salt, or ester thereof and (b) an HPPD inhibitor herbicide or an agriculturally acceptable salt or ester thereof. Also disclosed herein are methods of controlling undesirable vegetation, comprising applying to vegetation or an area adjacent the vegetation or applying in soil or water to control the emergence or growth of vegetation (a) a pyridine carboxylate herbicide or an agriculturally acceptable N-oxide, salt, or ester thereof and (b) an HPPD inhibitor herbicide or an agriculturally acceptable salt or ester thereof.

No. of Pages : 58 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019268 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHODS FOR PREVENTING AND TREATING PULMONARY INFLAMMATION AND FIBROSIS

(51) International classification :A61P0011000000,
A61K0031575000,
C07J0041000000,
C07J0009000000,
A61K0009000000

(31) Priority Document No :62/738352
(32) Priority Date :28/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/053418
Filing Date :27/09/2019
(87) International Publication No :WO 2020/069292
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)THE REGENTS OF THE UNIVERSITY OF COLORADO, A BODY CORPORATE

Address of Applicant :1800 Grant Street, 8Th Floor Denver, Colorado 80203 U.S.A.

(72)Name of Inventor :

1)LIECHTY, Kenneth

2)ZGHEIB, Carlos

3)HILTON, Sarah Ashley

(57) Abstract :

Methods of treating, reducing the risk of, preventing, or alleviating a symptom of a pulmonary disease or condition, reducing or suppressing inflammation in the lung, and promoting lung repair, by pulmonary administration of a cerium oxide nanoparticle composition.

No. of Pages : 24 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019271 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : INFORMATION SENDING METHOD AND DEVICE, AND INFORMATION RECEIVING METHOD AND DEVICE

(51) International classification	:H04W0074080000, H04W0074000000, H04L0005000000, H04W0072120000, H04W0072040000	(71) Name of Applicant : 1)ZTE CORPORATION Address of Applicant :ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan Shenzhen, Guangdong 518057 China
(31) Priority Document No	:201811143126.9	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)LIU, Kun
(33) Name of priority country	:China	2)DAI, Bo
(86) International Application No	:PCT/CN2019/108860	3)YANG, Weiwei
Filing Date	:29/09/2019	4)FANG, Huiying
(87) International Publication No	:WO 2020/063943	5)BIAN, Luanjian
(61) Patent of Addition to Application Number	:NA	6)HU, Youjun
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are an information sending method and device, and an information receiving method and device. The information sending method comprises: a base station sends first information to a terminal in a downlink channel, wherein the first information comprises one of the followings: information for triggering a random access procedure, and information 4 in a random access process.

No. of Pages : 32 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019274 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : INLET COMPONENT FOR A SLURRY PUMP

(51) International classification	:F04D0007040000, F04D0029420000, B65D0001020000, B65D0065460000, F04D0029220000	(71) Name of Applicant : 1)WEIR MINERALS AUSTRALIA LTD Address of Applicant :1 Marden Street Artarmon, New South Wales 2064 Australia
(31) Priority Document No	:2017904120	(72) Name of Inventor :
(32) Priority Date	:12/10/2017	1)MOSCOSO LAVAGNA, Luis
(33) Name of priority country	:Australia	2)CINOTTI, Nestor
(86) International Application No	:PCT/AU2018/051107	3)HAMILTON, David Alan
Filing Date	:12/10/2018	
(87) International Publication No	:WO 2019/071318	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A pump side part for use with a centrifugal slurry pump for pumping a fluid mixture containing particulate matter, the pump side part comprising a main body having a main axis, the main body including a side wall section which extends laterally with respect to the main axis and has opposite facing first and second sides, a plurality of formations on a surface of the second side including an inner formation and an outer formation in spaced relation to the inner formation, the formations being configured so that in use the formations generate a flow of the fluid mixture across the surface which detaches from the surface the particulate matter adjacent thereto.

No. of Pages : 20 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019281 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : COMBINATION THERAPY METHOD OF TREATING MYELOPROLIFERATIVE NEOPLASMS WITH A DIPHTHERIA TOXIN-HUMAN INTERLEUKIN-3 CONJUGATE IN COMBINATION WITH OTHER AGENTS

(51) International classification	:A61K0038160000, A61K0047640000, A61K0038000000, A61P0035020000, A61K0038200000	(71) Name of Applicant : 1)STEMLINE THERAPEUTICS, INC. Address of Applicant :750 Lexington Avenue 11th Floor New York, New York 10022 U.S.A.
(31) Priority Document No	:62/753145	(72) Name of Inventor :
(32) Priority Date	:31/10/2018	1)BERGSTEIN, Ivan
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/058769	
Filing Date	:30/10/2019	
(87) International Publication No	:WO 2020/092505	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides methods for treating or inhibiting a myeloproliferative neoplasm (MPN) in a subject in need thereof, comprising administering to the subject a diphtheria toxin-human interleukin-3 conjugate (DT-IL3) and one or more Jak inhibitors and/or one or more hypomethylating agents.

No. of Pages : 41 No. of Claims : 57

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019282 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : CYCLODEXTRIN-BASED FORMULATION OF A BCL-2 INHIBITOR

(51) International classification :A61K0009000000,
A61K0047400000,
A61K0009200000,
A61K0047690000,
A61K0031724000

(31) Priority Document No :62/753164

(32) Priority Date :31/10/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/EP2019/079644
Filing Date :30/10/2019

(87) International Publication No :WO 2020/089286

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)LES LABORATOIRES SERVIER
Address of Applicant :35 rue de Verdun 92284 SURESNES
Cedex France
2)NOVARTIS AG

(72)Name of Inventor :
1)CHEMIN, Caroline
2)TRAN THU, Thuy
3)PEAN, Jean-Manuel
4)CHANRION, Maïa

(57) Abstract :

The invention relates to a pharmaceutical composition comprising 5-(5-chloro-2-[[[(3S)-3-(morpholin-4-ylmethyl)-3,4-dihydroisoquinolin-2(1H)-yl]carbonyl]phenyl)-N-(5-cyano-1,2-dimethyl-1H-pyrrol-3-yl)-N-(4-hydroxyphenyl)-1,2-dimethyl-1H-pyrrole-3-carboxamide, referred to herein as 'Compound A', or a pharmaceutically acceptable salt thereof, and a cyclodextrin. More specifically, the invention relates to a solid pharmaceutical composition comprising Compound A and a cyclodextrin, and a pharmaceutical composition for parenteral administration prepared by dissolving this solid pharmaceutical composition. Furthermore, the invention relates to the use of such compositions for the treatment of cancer.

No. of Pages : 35 No. of Claims : 43

(54) Title of the invention : REFRIGERATION CYCLE DEVICE

(51) International classification	:F25B0013000000, F25B0001100000, F25B0039000000, F25B0025000000, F25B0001000000	(71) Name of Applicant : 1)DAIKIN INDUSTRIES, LTD. Address of Applicant :Umeda Center Building, 4-12, Nakazaki-Nishi 2-Chome, Kita-ku, Osaka-shi, Osaka 5308323 Japan
(31) Priority Document No	:2018-187365	(72) Name of Inventor :
(32) Priority Date	:02/10/2018	1)KUMAKURA, Eiji
(33) Name of priority country	:Japan	2)IWATA, Ikuhiro
(86) International Application No	:PCT/JP2019/038451	3)FURUSHO, Kazuhiro
Filing Date	:30/09/2019	4)FUJIYOSHI, Ryusuke
(87) International Publication No	:WO 2020/071299	5)MATSUOKA, Hiromune
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In a refrigeration cycle device (1), an injection pipe (31) and an economizer heat exchanger (32) are provided to a main refrigerant circuit (20). Further, the refrigeration cycle device (1) is provided with a sub refrigerant circuit (80) which includes a sub utilization-side heat exchanger (85). In the refrigeration cycle device (1), the sub utilization-side heat exchanger (85) is made to function as: an evaporator for a sub refrigerant so as to cool a main refrigerant that was cooled in the economizer heat exchanger (32); or as a heat radiator for the sub refrigerant so as to heat the main refrigerant that was cooled in the economizer heat exchanger (32).

No. of Pages : 43 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019286 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : REFRIGERATION CYCLE DEVICE

(51) International classification :F25B0013000000,
F25B0001100000,
F25B0047020000,
F28F0003040000,
F25B0040020000

(31) Priority Document No :2018-187367

(32) Priority Date :02/10/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/038452
Filing Date :30/09/2019

(87) International Publication No :WO 2020/071300

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DAIKIN INDUSTRIES, LTD.

Address of Applicant :Umeda Center Building, 4-12,
Nakazaki-Nishi 2-Chome, Kita-ku, Osaka-shi, Osaka 5308323
Japan

(72)Name of Inventor :

1)IWATA, Ikuhiro

2)KUMAKURA, Eiji

3)FURUSHO, Kazuhiro

4)FUJIYOSHI, Ryusuke

5)MATSUOKA, Hiromune

(57) Abstract :

A refrigeration cycle device that has a main refrigerant circuit (20) and a sub refrigerant circuit (80) and cools or heats a main refrigerant flowing between a main heat source-side heat exchanger (25) and main usage-side heat exchangers (72a, 72b), by causing a sub usage-side heat exchanger (85) to function as a sub refrigerant evaporator or radiator. A first main expansion mechanism (27) and second main expansion mechanisms (71a, 71b, 44), that decompress the main refrigerant, are provided on the upstream and downstream sides of the sub usage-side heat exchanger (85) in the main refrigerant circuit (20).

No. of Pages : 36 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019288 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : REDUCED SCALE NOZZLES FOR PLASMA TORCH AND ADAPTER FOR THE NOZZLES

(51) International classification :H05H0001340000,
B29K0023000000,
B05B0001000000,
B23K0037020000,
F23D0011100000

(31) Priority Document No :PV 2018-516

(32) Priority Date :30/09/2018

(33) Name of priority country :Czech Republic

(86) International Application No :PCT/CZ2019/000048

Filing Date :18/09/2019

(87) International Publication No :WO 2020/064032

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)B&BARTONI, SPOL.S R.O.

Address of Applicant :Doubravicka 18 294 30 Dolni Cetno
Czech Republic

(72)Name of Inventor :

1)CHUMCHAL, Roman

(57) Abstract :

A metal machining invention which relates to plasma torch nozzles. It describes reduced scale nozzles for current loads of up to 400 A to be used in a liquid-cooled dual-gas plasma torch. The plasma flow passes through aperture (101) in nozzle (100) in direction (V). Aperture (101) is divergent and expands in direction (V) of the plasma flow. Aperture (101) is of a conical shape at point (105), radius shape at point (106), and elliptic shape at point (108). Following its narrowest section (104), aperture (101) expands at angle (A°) in direction (V) of the plasma flow. Diameter (D4) at the end of aperture (101) is larger than diameter (D1) at its beginning. Nozzle (100) is equipped with mounting surface (110) for insertion into the adapter. Nozzle (100) contains seal (109), which prevents passage of a liquid and gas through the connection between nozzle (100) and the adapter, which also provides attachment to the plasma torch.

No. of Pages : 24 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019323 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : INTRANASAL PRESSURE DRUG DELIVERY DEVICE

(51) International classification	:A61J0007000000, D06F0039020000, G01N0015140000, A47L0015440000, A61J0001100000	(71) Name of Applicant : 1)AKTIVAX, INC. Address of Applicant :100 Technology Drive, Suite 300c Broomfield, CO 80021 U.S.A.
(31) Priority Document No	:62/749296	(72) Name of Inventor :
(32) Priority Date	:23/10/2018	1)GENOSAR, Amir
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/057714	
Filing Date	:23/10/2019	
(87) International Publication No	:WO 2020/086752	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A beneficial agent dispensing device comprises a dispenser body comprising a pressure chamber and at least one dispensing port. A flexible primary container stores the beneficial agent contained within the body. The arrangement is such that pressure in the pressure chamber depress the flexible primary container to expel the beneficial agent through the dispensing port. The beneficial agent dispenser can be configured to deliver the beneficial agent intranasally.

No. of Pages : 6 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019325 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : ELECTRONIC DEVICE INCLUDING ANTENNA MODULE

(51) International classification	:H01Q0001240000, H04M0001020000, H01Q0001220000, H01Q0009040000, H05K0005000000	(71) Name of Applicant : 1)SAMSUNG ELECTRONICS CO., LTD. Address of Applicant :129, Samsung-ro, Yeongtong-gu Suwon-si Gyeonggi-do 16677 Republic of Korea
(31) Priority Document No	:10-2018-0117623	(72) Name of Inventor :
(32) Priority Date	:02/10/2018	1)MOON, Heecheul
(33) Name of priority country	:Republic of Korea	2)SEOK, Sangyoup
(86) International Application No	:PCT/KR2019/012754	3)SON, Kwonho
Filing Date	:30/09/2019	
(87) International Publication No	:WO 2020/071711	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electronic device includes a housing that includes a front plate facing a first direction, a back plate facing a second direction opposite to the first direction, and a side member surrounding a space between the front plate and the back plate and at least a portion of which is formed of a metal material. A display is viewable through the front plate, and an antenna module is positioned in the space and includes a first surface facing a third direction different from the first direction and the second direction, a second surface facing a fourth direction different from the third direction, and at least one conductive element extended in a fifth direction, which is perpendicular to the third direction and the fourth direction and faces a first portion of the side member, adjacent to the side member, and between the first surface and the second surface..

No. of Pages : 35 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019326 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHOD AND KIT FOR PESTICIDES DETECTION, AND PLASMID, BACULOVIRUS, CELL AND METHOD OF PREPARING THE SAME FOR PESTICIDES DETECTION

(51) International classification :A01N0025300000,
A01M0007000000,
G01N0033566000,
G01N0030720000,
H01L0021220000

(31) Priority Document No :62/747258
(32) Priority Date :18/10/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/056657
Filing Date :17/10/2019
(87) International Publication No :WO 2020/081765
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)ACADEMIA SINICA
Address of Applicant :No. 128, Academia Rd., Sec. 2,
Nankang Dist. Taipei, 11529 Taiwan
(72)Name of Inventor :
1)CHAO, Yu-Chan
2)LIAO, Lin-Li
3)LIAO, Chuan-yu
4) TSAI, Chih-Hsuan
5)HSU, Paul Wei-che

(57) Abstract :

This disclosure provides a method and a kit for pesticide detection. By expressing acetylcholinesterases on cell surface, rapid pesticide screening, identification and quantification of pesticides or insecticides may be achieved.

No. of Pages : 25 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019331 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : OPTICAL IMAGING SYSTEM

(51) International classification	:G02B0013000000, G02B0013180000, G02B0013060000, G02B0013140000, G02B0003020000	(71) Name of Applicant : 1)ZHEJIANG SUNNY OPTICS CO., LTD. Address of Applicant :No. 66-68 Fenge Road, Yuyao Ningbo, Zhejiang 315400 China
(31) Priority Document No	:201910111204.5	(72) Name of Inventor :
(32) Priority Date	:12/02/2019	1)WENREN, Jianke
(33) Name of priority country	:China	2)WANG, Yuhao
(86) International Application No	:PCT/CN2019/110246	3)DAI, Fujian
Filing Date	:10/10/2019	4)ZHAO, Liefeng
(87) International Publication No	:WO 2020/164247	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An optical imaging system, comprising a first lens (E1), a second lens (E2), a third lens (E3), a fourth lens (E4), a fifth lens (E5), and a sixth lens (E6) which have focal power and are sequentially arranged along an optical axis from an object side to an image side, wherein the first lens (E1) has a positive focal power, and the image side (S2) thereof is a concave surface; the second lens (E2) has a negative focal power; the fifth lens (E5) has a negative focal power, and the object side (S9) thereof is a concave surface; the distance TTL from the object side (S1) of the first lens (E1) to the imaging side (S15) of the optical imaging system on the optical axis and the total effective focus f of the optical imaging system satisfy: $TTL/f=0.85$.

No. of Pages : 34 No. of Claims : 10

(54) Title of the invention : MODULATORS OF ALPHA-1 ANTITRYPSIN

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application</p> <p>Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>(71)Name of Applicant :</p> <p>1)VERTEX PHARMACEUTICALS INCORPORATED Address of Applicant :50 Northern Avenue Boston, Massachusetts 02210 U.S.A.</p> <p>(72)Name of Inventor :</p> <p>1)BLIGH, Cavan McKeon 2)BRODNEY, Michael Aaron 3)ECCLES, Mary Elizabeth 4)GAGNON, Kevin James 5)HOOD, Sarah Carol 6)HUSSEY, Joshua Kennedy 7)LOOKER, Adam 8)MAXWELL, John Patrick 9)MEDEK, Ales 10)NAVAMAL, Mettacht 11)RODAY, Setu 12)ROEPER, Stefanie 13)SAWANT, Rupa 14)SHI, Yi 15)TANG, Qing 16)WALDO, Michael 17)BANDARAGE, Upul Keerthi 18)BOUCHER, Diane M. 19)BOYD, Michael John 20)DAMAGNEZ, Veronique 21)DEWEY FANNING, Lev Tyler 22)FIMOGNARI Jr., Robert Francis 23)GARCIA BARRANTES, Pedro M. 24)GIROUX, Simon 25)GREY Jr., Ronald Lee 26)HALL, Amy Beth 27)HURLEY, Dennis James 28)JOHNSON, Jr., Mac Arthur 29)JONES, Peter 30)KESAVAN, Sarathy 31)NUHANT, Philippe Marcel 32)SWETT, Rebecca Jane 33)TAPLEY, Timothy Lewis 34)THOMSON, Stephen A. 35)XU, Jinwang 36)MAXWELL, Brad D. 37)COTTRELL, Kevin Michael</p>
--	--

(57) Abstract :

Novel compounds, compositions, and methods of using and preparing the same, which may be useful for treating alpha-1 antitrypsin deficiency (AATD).

No. of Pages : 450 No. of Claims : 52

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019337 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : NOVEL PYRIDAZINES

(51) International classification :C07D0205040000,
C07C0211290000,
C07K0014520000,
C07C0211280000,
C12P0017180000
(31) Priority Document No :18203226.8
(32) Priority Date :29/10/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/079231
Filing Date :25/10/2019
(87) International Publication No :WO 2020/089098
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
**1)BOEHRINGER INGELHEIM INTERNATIONAL
GMBH**
Address of Applicant :Binger Strasse 173 55216
INGELHEIM AM RHEIN Germany
(72)Name of Inventor :
**1)ROTH, Gerald Juergen
2)BRETSCHNEIDER, Tom
3)KUTTRUFF, Christian Andreas**

(57) Abstract :

The present invention relates to novel pyridazines, processes for their preparation, pharmaceutical compositions containing them and their use in therapy, particularly in the treatment and/or prevention of diseases and disorders mediated by Autotaxin.

No. of Pages : 35 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019338 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : DISTRIBUTED UNIT, CENTRAL UNIT, AND METHODS THEREFOR

(51) International classification	:H04L0005000000, H04W0088080000, H04W0072040000, H04W0036060000, H04W0052020000	(71) Name of Applicant : 1)NEC CORPORATION Address of Applicant :7-1, Shiba 5-chome, Minato-ku, Tokyo 1088001 Japan
(31) Priority Document No	:2018-207415	(72) Name of Inventor :
(32) Priority Date	:02/11/2018	1)FUTAKI Hisashi
(33) Name of priority country	:Japan	2)HAYASHI Sadafuku
(86) International Application No	:PCT/JP2019/033169	
Filing Date	:23/08/2019	
(87) International Publication No	:WO 2020/090201	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A central unit (1) that is a base station transmits, to a distributed unit (2) that is a base station, a message for requesting addition of a secondary cell of carrier aggregation. This message includes a first information element indicating whether the secondary cell initially should be activated or dormant. This can contribute, for example, to improvement for enabling direct setting of a secondary cell state in an architecture in which base stations are separated into a central unit and a distributed unit.

No. of Pages : 31 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019343 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : DATA COMMUNICATION METHOD, SERVER DEVICE, CLIENT DEVICE AND MEDIUM

(51) International classification	:H04L0029080000, H04Q0011000000, B60R0025200000, G06F0013370000, G06F0040131000
(31) Priority Document No	:201811158708.4
(32) Priority Date	:30/09/2018
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2019/105971
Filing Date	:16/09/2019
(87) International Publication No	:WO 2020/063381
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)BOE TECHNOLOGY GROUP CO., LTD.

Address of Applicant :No.10 Jiuxianqiao Rd., Chaoyang
District Beijing 100015 China

(72)Name of Inventor :

1)ZHAO, Junjie

(57) Abstract :

Disclosed are a data communication method, a server device, a client device and a medium, the data communication method comprising: receiving at least one resource transmission request sent by at least one entity, wherein the resource transmission request comprises a resource identifier associated with a resource and a priority identifier associated with the resource transmission request; storing the at least one resource transmission request according to the priority identifier; and acquiring the resource from the entity according to the resource identifier of the stored resource transmission request.

No. of Pages : 24 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019363 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : METHOD AND DEVICE FOR CONTROLLING A PRODUCTION SYSTEM FOR PLANAR OR STRAND-SHAPED BODIES

(51) International classification	:A61B0005000000, G01N0021030000, G01N0021358100, G01N0021390000, G01N0021410000	(71) Name of Applicant : 1)SIKORA AG Address of Applicant :Bruchweide 2 28307 Bremen Germany
(31) Priority Document No	:10 2018 124 175.5	(72) Name of Inventor :
(32) Priority Date	:01/10/2018	1)SIKORA, Harald
(33) Name of priority country	:Germany	2)SCHALICH, Christian
(86) International Application No	:PCT/EP2019/076396	
Filing Date	:30/09/2019	
(87) International Publication No	:WO 2020/070047	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a method for controlling a production system for planar or strand-shaped bodies, in which method the body is conveyed in a conveying direction through a measurement region, the body is irradiated with measurement radiation in the gigahertz or terahertz frequency range in the measurement region, the measurement radiation at least partially penetrating the body, and measurement radiation reflected by the body is detected and the refractive index of the body and/or the absorption of the measurement radiation by the body is determined using the detected measurement radiation, wherein: at least one production parameter of the production system is controlled on the basis of the refractive index determination and/or the absorption determination; the refractive index and/or the absorption is determined at a plurality of time points during the conveying of the body through the measurement and the at least one production parameter is controlled on the basis of a change in the refractive index and/or in the absorption over time; and/or measurement radiation is radiated onto different points of the body; the refractive index and/or the absorption is determined at the different points of the body and the at least one production parameter is controlled on the basis of a spatial change in the refractive index and/or in the absorption. The invention further relates to a corresponding device.

No. of Pages : 18 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019364 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : FOAMED POLYOLEFIN RESIN PARTICLES, METHOD FOR MANUFACTURING FOAMED POLYOLEFIN RESIN PARTICLES, AND IN-MOLD FOAMED POLYOLEFIN RESIN MOLDING

(51) International classification :C08J0009180000,
C08J0009000000,
C08K0005200000,
B32B0005180000,
A23L0027200000

(31) Priority Document No :2018-188634

(32) Priority Date :03/10/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/038913
Filing Date :02/10/2019

(87) International Publication No :WO 2020/071423

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)KANEKA CORPORATION

Address of Applicant :3-18, Nakanoshima 2-chome, Kita-ku,
Osaka-shi, Osaka 5308288 Japan

(72)Name of Inventor :

1)YOSHIDA, Toru

2)MATSUMIYA, Yutaka

3)MIURA, Shintaro

(57) Abstract :

The present invention addresses the problem of providing novel foamed polyolefin resin particles whereby an in-mold foamed polyolefin resin molding can be provided that has reduced cracking and chipping when the molding is recovered from a mold. The aforementioned problem is solved by foamed polyolefin resin particles containing specific amounts of each of a polyolefin resin (a) having a specified flexural rigidity, a higher fatty acid amide (b), and an ethylene copolymer (c).

No. of Pages : 255 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019365 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AUTOMATIC MAINTENANCE AND FLOW CONTROL OF HEAT EXCHANGER

(51) International classification :F24D0019100000,
F28F0027000000,
F28F0019000000,
F25B0049000000,
F28F0001020000

(31) Priority Document No :62/741943

(32) Priority Date :05/10/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/CA2018/051555
Filing Date :05/12/2018

(87) International Publication No :WO 2020/069593

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)S. A. ARMSTRONG LIMITED
Address of Applicant :23 Bertrand St. Toronto, Ontario M1L
2P3 Canada

(72)Name of Inventor :
1)TERZIC, Zeljko
2)HUM, Redmond
3)ACOSTA GONZALEZ, Marcelo Javier
4)PATEL, Ritesh

(57) Abstract :

A heat transfer system that includes one or more heat exchangers and one or more control pumps that control flow through the heat exchangers. In order to source a variable load, the control pumps can be controlled to operate at less than full duty flow. In an example embodiment, a controller can calculate, when each heat exchanger is clean, coefficient values of each respective heat exchanger. The controller can determine, during real-time operation, real-time coefficient values of the heat exchanger to compare with the respective coefficient values when clean, in order to determine whether there is fouling in that heat exchanger. In some examples, the controller can determine that maintenance is required on the heat exchanger due to the fouling, and perform flushing of the heat exchanger by operating one or more of the control pumps at full duty load during real-time operation to source the variable load.

No. of Pages : 63 No. of Claims : 48

(54) Title of the invention : FEED FORWARD FLOW CONTROL OF HEAT TRANSFER SYSTEM

(51) International classification	:F24D0019100000, F25D0011000000, F25B0040000000, F25B0013000000, F04B0049060000	(71) Name of Applicant : 1)S. A. ARMSTRONG LIMITED Address of Applicant :23 Bertrand Street Toronto, Ontario M1L 2P3 Canada
(31) Priority Document No	:62/741943	(72) Name of Inventor :
(32) Priority Date	:05/10/2018	1)TERZIC, Zeljko
(33) Name of priority country	:U.S.A.	2)HUM, Redmond
(86) International Application No	:PCT/CA2019/051428	3)ACOSTA GONZALEZ, Marcelo Javier
Filing Date	:04/10/2019	4)PATEL, Ritesh
(87) International Publication No	:WO 2020/069629	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A heat transfer system that includes one or more heat exchangers and one or more variable control pumps that control flow through the one or more heat exchangers. At least one variable control pump is on the source side of the heat exchanger for controlling flow of a first circulation medium and at least one flow controlling mechanical device is on the load side of the heat exchanger for controlling flow of a second circulation medium. Sensors are used for detecting variables of the first circulation medium and the second circulation medium. At least one controller is configured to control at least one parameter of the first circulation medium or the second circulation medium by controlling at least one of the variable control pump or the flow controlling mechanical device using a feed forward control loop calculated from the detected variables to achieve control of the at least one parameter.

No. of Pages : 89 No. of Claims : 62

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019368 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : HYBRID MACHINE LEARNING MODEL FOR CODE CLASSIFICATION

(51) International classification :G06K0009620000,
H04M0015000000,
G06N0020000000,
G06N0005040000,
G06F0017110000

(31) Priority Document No :62/738482
(32) Priority Date :28/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/050555
Filing Date :11/09/2019
(87) International Publication No :WO 2020/068421
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DOW GLOBAL TECHNOLOGIES LLC
Address of Applicant :2040 Dow Center Midland, MI 48674
U.S.A.

(72)Name of Inventor :
1)WANG, Chun
2)WASSICK, John, Martin
3)ROTHHAAR, Vicki
4)DEB, Kalyanmoy
5)DHEBAR, Yashesh, Deepakkumer
6)GOODMAN, Erik, David

(57) Abstract :

An embodiment involves a hybrid machine learning classifier that uses a random forest of decision tree classifiers to predict a tariff code prefix, and uses a plurality of expert trees to predict a tariff code suffix from properties related to chemical components associated with the respective tariff code prefixes. The embodiment also involves: determining a proportion of a dominant chemical component in comparison to other chemical components in a new set of chemical components; calculating similarity scores for the new set of chemical components and words associated with the tariff code prefixes; generating a feature vector from the proportion and the similarity scores; and obtaining a predicted tariff code including a predicted tariff code prefix determined by applying the random forest to the feature vector, and a predicted tariff code suffix determined by traversing a particular expert tree in accordance with properties related to the new set of chemical components.

No. of Pages : 39 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019369 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PRODUCTION OF HYDROXYETHYLPIPERAZINE

(51) International classification :A61K0008490000,
B01J0019240000,
C07D0295088000,
B01J0027180000,
C08G0063080000

(31) Priority Document No :62/752437
(32) Priority Date :30/10/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/057612
Filing Date :23/10/2019
(87) International Publication No :WO 2020/092082
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DOW GLOBAL TECHNOLOGIES LLC
Address of Applicant :2040 Dow Center Midland, Michigan
48674 U.S.A.

(72)Name of Inventor :
1)GOODMAN, Amanda M.
2)ZENG, Jianping
3)ARCHER, Barry
4)LAROCHE, Christophe R.

(57) Abstract :

Embodiments relate to a continuous process for the production of hydroxyethylpiperazine that includes feeding neat piperazine, recycled piperazine, and ethylene oxide to a reactor to form crude hydroxyethylpiperazine, in which the reactor is a continuous stirred tank reactor or a plug flow reactor. The process further includes continuously feeding the crude hydroxyethylpiperazine from the reactor to a distillation system that includes at least one distillation column, the distillation system produces at least a recycled piperazine stream and a hydroxyethylpiperazine stream, the recycled piperazine stream includes the recycled piperazine that is fed to the reactor to form the crude hydroxyethylpiperazine, and the hydroxyethylpiperazine stream includes at least 60 wt% of hydroxyethylpiperazine based on a total weight of the hydroxyethylpiperazine stream.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019371 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : AZITHROMYCIN AND ROXITHROMYCIN DERIVATIVES AS SENOLYTIC DRUGS

(51) International classification	:A61K0031704800, C07H0017080000, G01N0033500000, A61P0009100000, C07H0017000000	(71) Name of Applicant : 1)LUNELLA BIOTECH, INC. Address of Applicant :145 Richmond Road Ottawa, ON K1Z 1A1 Canada
(31) Priority Document No	:62/740137	(72) Name of Inventor :
(32) Priority Date	:02/10/2018	1)LISANTI, Michael P.
(33) Name of priority country	:U.S.A.	2)SOTGIA, Federica
(86) International Application No	:PCT/US2019/054231	
Filing Date	:02/10/2019	
(87) International Publication No	:WO 2020/072598	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This disclosure describes the use of azithromycin, roxithromycin, and telithromycin, including derivatives thereof, as senolytic drugs. BrdU was used to induce senescence in model human fibroblast cell lines. Also disclosed are methods for screening compounds for senolytic activity. The SRB assay was used to measure cell viability through protein content. Azithromycin roxithromycin, and telithromycin, clinically-approved pharmaceuticals, were found to be senolytic drugs. However, the closely-related parent compound, erythromycin, showed no senolytic activity. Azithromycin strongly induced both aerobic glycolysis and autophagy in human fibroblasts, but showed bi-phasic effects including on mitochondrial oxygen consumption rates with inhibitory activity at 50 μ and stimulatory activity at 100 μ . The xCELLigence real-time assay system showed that azithromycin preferentially targets senescent cells, removing approximately 97% (nearly a 25-fold reduction in senescent cells).

No. of Pages : 37 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019373 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PEPTIDE POSSESSING MESENCHYMAL-STEM-CELL MOBILIZING ACTIVITY

(51) International classification :A61K0038190000,
A61K0035280000,
A61K0038200000,
C07K0007080000,
B32B0005020000

(31) Priority Document No :2018-190090

(32) Priority Date :05/10/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/039232
Filing Date :04/10/2019

(87) International Publication No :WO 2020/071520

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)STEMRIM INC.

Address of Applicant :3FL, Saito Biotechnology Incubator, 7-15, Saito-Asagi 7-chome, Ibaraki-shi, Osaka 5670085 Japan

2)OSAKA UNIVERSITY

(72)Name of Inventor :

1)TAMAI, Katsuto

2)SHIMBO, Takashi

3)YAMAZAKI, Takehiko

4)YOKOTA, Koichi

(57) Abstract :

The present inventors designed an artificially sequenced peptide on the basis of the results of independent research that the inventors have previously conducted, and discovered that said peptide exhibits an activity that mobilizes mesenchymal stem cells into peripheral blood. In addition, the present inventors discovered that said artificially sequenced peptide exhibits a therapeutic effect on inflammatory bowel diseases, atopic dermatitis, and cerebral infarction. On the basis of these findings, the present invention provides a new regenerative medical technology that is capable of overcoming problems associated with cell transplantation treatment.

No. of Pages : 40 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019375 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : EDDY PUMP

(51) International classification	:F04D0029220000, F04D0029380000, F23C0007000000, F04D0029280000, A61N0001050000	(71) Name of Applicant : 1)EDDY PUMP CORPORATION Address of Applicant :15405 Olde Hwy 80 El Cajon, CA 92021 U.S.A.
(31) Priority Document No	:16/176495	(72) Name of Inventor :
(32) Priority Date	:31/10/2018	1)DOKHALE, Mugdha, Shrikant
(33) Name of priority country	:U.S.A.	2)WAHLGREN, Dan
(86) International Application No	:PCT/US2019/057162	
Filing Date	:21/10/2019	
(87) International Publication No	:WO 2020/092035	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A pump rotor includes a hub, a back plate and a plurality of blades extending from the hub and disposed on the back plate. Each of the plurality of blades has an outer surface essentially parallel to a rotational axis of the hub, and a first end adjacent the hub and a second end distal from the hub, the first end having a height from the planar surface that is less than a height from the planar surface of the second end. The plurality of blades is configured to cause a synchronized central column of flow.

No. of Pages : 11 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019378 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : HUMAN-COMPUTER INTERACTION METHOD AND ELECTRONIC DEVICE

(51) International classification	:G06F0021320000, H04L0029060000, G06K0009000000, H04W0036140000, G06F0040211000	(71) Name of Applicant : 1)HUAWEI TECHNOLOGIES CO., LTD. Address of Applicant :Huawei Administration Building Bantian, Longgang District Shenzhen, Guangdong 518129 China
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ZHANG, Qing
(33) Name of priority country	:NA	2)ZHANG, Jinhui
(86) International Application No	:PCT/CN2018/109704	3)ZHANG, Yibo
Filing Date	:10/10/2018	
(87) International Publication No	:WO 2020/073248	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A human-computer interaction method and an electronic device (100), relating to the technical field of communications and capable of achieving the purpose of accurately identifying users, satisfying needs of users, and improving the user experience. The method specifically comprises: in a human-computer conversation interaction process, when a server (200) performs slot extraction on a user conversation, if there is a slot in which no information is extracted and the slot is a non-required key slot, the server (200) initiates an inquiry to the user to determine whether the information of the slot is essential, if yes, the server (200) further extracts the information of the slot, and if not, the server (200) does not extract the information of the slot again.

No. of Pages : 60 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019381 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PAGING USER EQUIPMENT IN NEW RADIO UNLICENSED SPECTRUM

(51) International classification :H04W0072040000,
H04W0068020000,
H04W0076280000,
H04W0016140000,
H04W0004060000

(31) Priority Document No :62/753840

(32) Priority Date :31/10/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/057695
Filing Date :23/10/2019

(87) International Publication No :WO 2020/092095

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)APPLE INC.

Address of Applicant :One Apple Park Way Cupertino,
California 95014 U.S.A.

(72)Name of Inventor :

1)LEE, Anthony

2)LIM, Seau Sian

3)KWAK, Yongjun

4)LEE, Daewon

5)HEO, Youn Hyoung

6)KUNDU, Lopamudra

(57) Abstract :

Systems and methods are provided for increasing paging opportunities when the unlicensed band is used. A user equipment (UE) may determine a plurality of different paging occasions (POs) to monitor per DRX cycle. The plurality of different POs corresponds to beam sweep repeats for a first set of UEs in an unlicensed band from a base station in a wireless network. The UE monitors the plurality of different POs to receive the paging message from the base station. The plurality of different POs may include respective physical downlink control channel (PDCCH) monitoring occasions. The plurality of different POs may include at least two consecutive POs associate with the first set of UEs within a same paging frame. Alternatively, the plurality of different POs may include at least two non-consecutive POs associated with the first set of UEs separated by at least one other PO associated with a second set of UEs.

No. of Pages : 17 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117019382 A

(19) INDIA

(22) Date of filing of Application :27/04/2021

(43) Publication Date : 21/01/2022

(54) Title of the invention : PROCESS FOR MAKING ETHERS VIA ENOL ETHERS

(51) International classification	:C10M0105340000, C07C0041280000, C07C0045510000, C07C0069734000, C07C0067080000	(71) Name of Applicant : 1)BP P.L.C Address of Applicant :1 St. James's Square London SW1Y 4PD U.K.
(31) Priority Document No	:1818905.0	(72) Name of Inventor :
(32) Priority Date	:20/11/2018	1)DEELEY, Jon
(33) Name of priority country	:U.K.	2)ARMITAGE, Gareth
(86) International Application No	:PCT/GB2019/053127	3)JACKSON, Fiona
Filing Date	:05/11/2019	4)PRICE, Gregory
(87) International Publication No	:WO 2020/104768	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a process for preparing ethers, particularly unsymmetrical ethers, and preferably ethers suitable for use as base stocks for lubricant compositions. In particular, the process involves the reaction of a branched-chain aldehyde and a branched-chain alcohol to form an enol ether and conversion of the enol ether to a saturated ether by reduction.

No. of Pages : 43 No. of Claims : 32

CONTINUED TO PART- 2