

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 45/2021
ISSUE NO. 45/2021

शुक्रवार
FRIDAY

दिनांक: 05/11/2021
DATE: 05/11/2021

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

5th NOVEMBER, 2021

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**THE PATENT OFFICE
KOLKATA, 05/11/2021**

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:-

<p>1 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>	<p>4 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>
<p>2 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>	<p>5 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>
<p>3 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 05/11/2021

• 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.

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.202011024874 A

(19) INDIA

(22) Date of filing of Application :13/06/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : A ROAD SHOULDER LAYING & RECLAIMER MACHINE

<p>(51) International classification :E02F0003760000, E02F0003815000, E01C0019410000, A01B0031000000, B29B0017040000</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)BABA FARID COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant :MUKTSAR ROAD, DEON, BATHINDA, PUNJAB 151002 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)PANKAJ MITTAL Address of Applicant :ASSISTANT PROFESSOR, CIVIL ENGINEERING, BABA FARID COLLEGE OF ENGINEERING AND TECHNOLOGY, MUKTSAR ROAD, DEON, BATHINDA, PUNJAB 151002 -----</p> <p>2)RAHUL RAJPUT Address of Applicant :STUDENT, MECHANICAL ENGINEERING, BABA FARID COLLEGE OF ENGINEERING AND TECHNOLOGY, MUKTSAR ROAD, DEON, BATHINDA, PUNJAB 151002 -----</p> <p>3)SUNAINA RANI Address of Applicant :STUDENT, CIVIL ENGINEERING, BABA FARID COLLEGE OF ENGINEERING AND TECHNOLOGY, MUKTSAR ROAD, DEON, BATHINDA, PUNJAB 151002 -----</p> <p>4)HARWINDER SINGH Address of Applicant :STUDENT, MECHANICAL ENGINEERING, BABA FARID COLLEGE OF ENGINEERING AND TECHNOLOGY, MUKTSAR ROAD, DEON, BATHINDA, PUNJAB 151002 -----</p>
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(57) Abstract :

This invention relates to a The Invention is related to the field of transportation engineering (Road highway Engineering). The present invention discloses a road shoulder Laying & Reclaimer machine. Disclosed herein A road shoulder Laying & Reclaimer machine comprises -Scraper (101) which is the front portion of the machine by using scraper user reclaim the shoulder with the help of our unique J shaped blades ; Levelling blade (102) is used to make a level of the shoulder at a certain height, depth or at a certain angle; Compactor roller (103) is placed at the last stage in our model; Tyres (104) are used to provide motion to our machine from place to another place.; which also provide a flexible cushion that absorbs shock as the tyre rolls over rough features on the surface; Hydraulic cylinders (105) are used to give direction or to operate levelling blade; and Engine compartment (106) is the place where the engine and transmission system of the machine is placed.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027427 A

(19) INDIA

(22) Date of filing of Application :28/06/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR AN OUTDOOR AIR CLEANER

<p>(51) International classification :G01N0015060000, G01N0015020000, F24F0003160000, B01D0053720000, B01D0046100000</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)G. L. Bajaj Institute of Technology and Management Address of Applicant :Plot-2, Knowledge Park-3, Greater Noida, Uttar Pradesh, India – 201306 -----</p> <p>2)Pawan Kumar Gupta 3)Abhishek Gupta Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Pawan Kumar Gupta Address of Applicant :Bajarang Tent House, Patel chowk Bhabua, Dist. kaimur Bihar 821101 -----</p> <p>2)Abhishek Gupta Address of Applicant :A-2 1Chhijarsi colony Sec 63 Noida Uttar Pradesh 201301 -----</p> <p>3)Sanjeev Sharma Address of Applicant :Sankroud District-Baghpat Uttar Pradesh 250101 -----</p>
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(57) Abstract :

The disclosure relates to a method for cleaning air by using an outdoor air cleaner. The method performs: creating, the high pressure; sucking, the polluted air from the atmosphere; simulating, the intense and dense rain; undergoing, the pollutant filtering; removing, the humidity from the filtered air; and releasing, the clean air in the atmosphere.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011027617 A

(19) INDIA

(22) Date of filing of Application :29/06/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR HEIGHT ADJUSTER URINAL FLUSH

(51) International classification :A61B0017880000, F15D0001000000, B60R0022200000, E03C0001060000, A61B0005200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant :B103 t1 Omaxe Palm Green Sector mu Greater Noida, Gautam Buddha Nagar 201310 -----

(57) Abstract :

The present disclosure relates to a method of an automatic height adjuster urinal flush system, the method comprising: mounting, the height adjustable urinal basin; adjusting, the height of the height adjustable urinal basin by pressing a height adjuster handle; releasing, the height adjuster handle at a suitable height; and locking, the height adjustable urinal basin for usage.

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : MULTI-FUNCTION HYBRID EXERCISE MACHINE

(51) International classification :A63B0021000000, A63B0022000000, A63B0022060000, A61G0005120000, A63B0023020000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention relates to A multi-function hybrid exercise machine comprising: a front support frame structure, comprising: a foot support for the user's feet; a back support frame structure comprising: a backrest member which adapts a curvature identical to human lumbar spine profile, wherein the backrest member is arranged to provide support to a user, during exercise; and a paddle assembly; a pivot joint assembly comprising: a first component which is connected to the front support frame structure; and a second component which is connected to the back support frame structure the pivot joint assembly arranged to transform the multi-function hybrid exercise machine into a working condition from a folded arrangement, wherein in the working condition the pivot joint assembly forms an angle in a range of 30o – 60o , between the front support frame structure and the back support frame structure.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011033225 A

(19) INDIA

(22) Date of filing of Application :03/08/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : VENTILATED PERSONAL PROTECTION EQUIPMENT

(51) International classification :A62B0017000000, A62B0035000000, A62B0007020000, A41D0013002000, G06K0007100000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention relates to a ventilated Personal Protection Equipment (PPE) comprising a protective suit, a face member which is arranged to form an air-tight seal with the protective suit, manifold unit, and a harness to be worn by the user on a waist region. The harness comprises a fluid reservoir which is arranged to store fluid and pumping assembly is arranged to provide clean ambient air to the PPE, through the manifold unit. Fig. 1

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011033226 A

(19) INDIA

(22) Date of filing of Application :03/08/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR SENSOR BASED WASTE MANAGEMENT

(51) International classification :C05F0017000000, B65F0001140000, A61L0031140000, A61M0005320000, 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

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(57) Abstract :

The present disclosure relates to a waste management system, the system comprising: a dustbin which comprises: a biodegradable chamber to receive biodegradable waste; and a non-biodegradable chamber to receive non-biodegradable waste; an image sensor configured on an outer wall of the dustbin; at least two pipes, wherein the first pipe is configured at the base of the biodegradable chamber, and the second pipe is configured at the base of the non-biodegradable chamber; and at least two crushing means to crush the waste, wherein the first crushing means is configured between the end of the base of the biodegradable chamber and initiation point of first pipe, and the second crushing means configured between the end of the non-biodegradable chamber base and initiation point of second pipe.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011033231 A

(19) INDIA

(22) Date of filing of Application :03/08/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : SELF-SANITIZING DOOR HANDLE ASSEMBLY

(51) International classification :E05B0001000000, A61L0002180000, A61L0002200000, A61L0002100000, F04B0053100000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a self-sanitizing door handle assembly comprises an elongated hollow tubular element; a reservoir which is arranged to be attached with the hollow tubular element; and hold a sanitizing composition; a frusto-conical element which is attached with the elongated hollow tubular element, wherein the frusto-conical element comprises a tapered surface which forms an angle with a central axis of the hollow tubular element; a threaded pipe-shaped structure which is attached with the frusto-conical element, a fluid pump assembly is connected with the threaded pipe-shaped structure, wherein the fluid pump assembly is configured to draw the sanitization composition from the reservoir; and a cap configured to receive the expelled sanitizing composition from the fluid pump assembly to sanitize the door handle assembly. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011037154 A

(19) INDIA

(22) Date of filing of Application :28/08/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN ENERGY EFFICIENT VARIANT OF HOT WIRE TUNGSTEN INERT GAS WELDING PROCESS

<p>(51) International classification :B23K0009167000, B23K0009100000, B23K0009028000, B23K0009067000, B23K0009120000</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. DEGALA VENKATA KIRAN Address of Applicant :Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee Roorkee-247667 -----</p> <p>2)DR. NAVNEET ARORA Address of Applicant :Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee Roorkee-247667 -----</p> <p>3)TINKU KUMAR Address of Applicant :Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee Roorkee-247667 -----</p> <p>4)RAJDEV SINGH Address of Applicant :Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee Roorkee-247667 -----</p>
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(57) Abstract :

The present invention relates to an energy efficient variant of hot wire gas tungsten arc welding process. An indigenous hot wire tungsten inert gas (HW-TIG) or gas tungsten arc welding setup is provided to pre-heat the filler wire using the conduction heat losses from the tungsten electrode and the radiation and convective losses from the welding arc in tungsten inert gas (TIG) welding process instead of using the additional power source to pre-heat the filler wire.

No. of Pages : 29 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011037533 A

(19) INDIA

(22) Date of filing of Application :31/08/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : A SYSTEM COMPRISING STABLE IRON OXIDE NANOPARTICLES (MAGHEMITE) COMPOSITE WITH PUMICE, FOR CONTAMINANT REMOVAL IN WATER AND ITS METHOD OF PREPARATION THEREOF

(51) International classification :C02F0001280000, B01J0020280000, B01J0020060000, A61K0009510000, A61K0033260000

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

(87) International Publication No : NA

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

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

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Address of Applicant :Department of Hydrology, Indian Institute of Technology, Roorkee. Roorkee-247667 -----

(57) Abstract :

The present invention relates to a system comprising stable iron oxide nanoparticles (maghemite) composite with pumice, for contaminant in particular arsenic removal in water and its method of preparation thereof. The product can be used in in-situ as well ex-situ remediation techniques. The system preserves hydraulic conductivity during the operation in a flow through system and reduces the cost of the adsorbent.

No. of Pages : 30 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038412 A

(19) INDIA

(22) Date of filing of Application :05/09/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : IN-SITU CHARGING SYSTEM FOR IMPLANTABLE PACEMAKER

(51) International classification :H02N0002180000, H01L0041113000, A61N0001378000, F23Q0002280000, 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

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(57) Abstract :

The present invention relates to a self-rechargeable battery system consisting of nanomaterials incorporated piezoelectric system as nanogenerator and a rechargeable battery to replace the classical non-chargeable Li-ion batteries used in the pacemakers. The piezoelectric system is essentially a piezoelectric polymeric mat attached to a full-wave bridge rectifier and a voltage multiplier. The rectified and modulated voltage from the piezoelectric system are fed to the rechargeable battery. Nanomaterials are incorporated as second phase reinforcement material to piezoelectric mat to enhance its electrical and piezoelectric properties. The piezoelectric system converts mechanical energy arising from the movement of the heart to electrical energy and concomitantly generate voltage to replenish its charge used in running the pacemaker.

No. of Pages : 30 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011042436 A

(19) INDIA

(22) Date of filing of Application :30/09/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : NON-CONTACT PATIENT REGISTRATION AND MONITORING SYSTEM IN MULTIPLE LANGUAGES

(51) International classification :G16H001060000, H04N0005232000, G16H0040630000, F24F0011890000, F24F0011700000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

Present invention provides a system for non-contact registration of patients in hospital for reducing the spread of contagious diseases. This non-contact system is fully autonomous and is able to initiate conversation with users on detecting his/her presence. The system consists of a camera for capturing the picture of the patient, a display to display the collected data on screen in real time, a microphone to capture the spoken information of the patient, an Infrared (IR) sensor to detect presence of user to trigger the program from the standby state, an IR Temperature Sensor to record the patient's temperature. A microcontroller is used to process the speech and image data, generate the receipt of the patient, and automatically take any actions needed as per input data and sensor readings. The data of all the patients are stored in the form of an excel file. Provision exists for validation of data by the user and correction in case of errors.

No. of Pages : 16 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011044327 A

(19) INDIA

(22) Date of filing of Application :12/10/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL HYBRID CONDUCTING POLYMERS COMPOSITES FOR EXPLOSIVE MATERIALS

(51) International classification :H01B0001120000, C08G0073100000, G01N0033000000, C08G0061120000, G01N0027120000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention describes the novel hybrid conducting polymers composites for explosive materials. Novel hybrid conducting polymers are synthesized and explosive material is identified by using various techniques such as scanning electron microscopy (SEM) and transmission electron microscopy (TEM).

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011046725 A

(19) INDIA

(22) Date of filing of Application :27/10/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : A SYNERGISTIC INSECTICIDAL COMPOSITION COMPRISING OF NITENPYRAM AND PYMETROZINE

(51) International classification :A01N0043707000, A01N0043400000, A01N0047020000, A01N0043560000, A61L0027260000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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3)Mr Ajit S Gujral

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(57) Abstract :

A synergistic insecticidal composition comprising Nitenpyram and Pymetrozine. More particularly, the present invention relates to synergistic insecticidal compositions comprising bioactive amounts of (A) an insecticide Nitenpyram; (B) an insecticide Pymetrozine; (C) at least one insecticidal compound selected from Fipronil and Fenobucarb. The present invention further relates to process of preparing said composition along with at least one inactive excipients and formulation thereof.

No. of Pages : 58 No. of Claims : 19

(54) Title of the invention : PLUG-IN HYBRID ELECTRIC VEHICLE FOR POWERING ON-WHEEL MEDICAL OXYGEN GENERATOR FOR COVID-19 PATIENTS

<p>(51) International classification :C01B0013020000, B60L0050160000, B60W0020000000, B60W0010060000, B60L0058210000</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)Lovely Professional University Address of Applicant :Jalandhar – Delhi GT road Phagwara, Punjab, India , 144411 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MEGHA Address of Applicant :Jalandhar-Delhi G.T. Road, ----- -----</p> <p>2)KAMBOJ, Vikram Kumar Address of Applicant :Jalandhar-Delhi G.T. Road, ----- -----</p> <p>3)HUSSAIN, Amaar Address of Applicant :Jalandhar-Delhi G.T. Road, ----- -----</p> <p>4)KASAUDHAN, Utkarsh Address of Applicant :Jalandhar-Delhi G.T. Road, ----- -----</p> <p>5)REDDY, S Hareesh Address of Applicant :Jalandhar-Delhi G.T. Road, ----- -----</p>
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(57) Abstract :

The present disclosure herein a Plug-in hybrid electric vehicle for powering on-wheel medical oxygen generator for covid-19 patients. The system provides the onboard batteries stack provides powering to medical oxygen generator (114) with minimal space requirement. The battery management system (101) of electric vehicle with plurality of sensors deployed for monitoring various parameters in the powering unit. The DC-AC converter (119) provides reliable and continuous power supply of the oxygen generator unit(114) with less expensive and minimal space requirement. The power sharing unit (113) receives power supply through on-board batteries(107) are energized by the charge controller unit (108) via petrol/diesel fuel (110), regenerative braking (111), and solar photovoltaic panel (112).A customized mobile application (120) establishes communication through a GSM/Wi-Fi(121) module for real-time status update of the vehicle along with an alert generation in case of emergencies. The system is a detachable unit which can be fixed on any vehicle.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111000899 A

(19) INDIA

(22) Date of filing of Application :08/01/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : NANO-FORMULATION OF CURCUMA LONGA EXTRACT AND METHODS THEREOF

(51) International classification :A61K0036906600, A61K0009200000, A61K0009000000, A01N0043540000, A61K0009060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Curcumin which is the active ingredient present in Curcuma longa has been extracted from the rhizomes and further its particle size was reduced to nanoscale. The nano sized curcumin was shown to be a highly efficient anti-microbial and healing agent in comparison to curcumin, as suggested by the microbiological assays and application of formulated ointment on human subjects. The size reduction would improve the pharmacokinetics and pharmacodynamics of curcumin as a drug. It also possesses improved physicochemical properties, such as increased water solubility, non-staining on the skin, thus a more compliant treatment strategy.

No. of Pages : 24 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111000900 A

(19) INDIA

(22) Date of filing of Application :08/01/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : WEARABLE HEALTH MONITORING GLOVE

(51) International classification :A61B0005024000, A61B0005000000, A61B0005020500, A61B0005024500, A41D0001000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
 Disclosed herein a wearable health monitoring glove comprises one main box which has components like sensing units[1,2,3,4,5,6], processing units [7,9], and display units [8,10]; wherein said main box has a hand outline made on it, which consist all sensors to measure physical health parameter; and a microcontroller CH340G unit collects the different physical parameters values through sensors and automatically processes the data to make it to display on LCD. This invention strongly depends upon the different physical sensors such as IR (infrared) sensor, and optical pulse sensor, which are used to measure the different physical health parameters.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111029465 A

(19) INDIA

(22) Date of filing of Application :30/06/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : CORRUGATED PLATE FIN HEAT SINK

(51) International classification :F28F0003020000, F28D0009000000, H01L0023367000, H01L0023473000, B21D0053020000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

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(62) Divisional to Application Number :NA

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(57) Abstract :

The present invention relates to a corrugated plate fin heat sink, comprising: a base plate attached to the source of heat on one side; plate-fins normal to base plate and parallel to each other that are placed at a predefined pitch length; plate-fins having repeated semi-circular corrugations. wherein the plate-fin heat sink geometry is having a base plate of 160 mm×160 mm dimension. The plate-fins, 0.6 mm thick, 160 mm length, and 80 mm high, are joined to the base plate by brazing operation. The plate-fins are separated by a pitch length of 16 mm. The corrugated plated fins have semi-circular corrugations of 5 mm and 10 mm diameters whose pitch is varied from the range of 10 mm-25 mm. The corrugated plate-fin heat sink that is employed for cooling of hot surfaces in a variety of machine components and electronic cooling applications. The application of corrugated plate-fin heat sink of the present invention showed a substantial improvement in thermo-hydraulic performance than that of a smooth plate-fin heat sink

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111034867 A

(19) INDIA

(22) Date of filing of Application :03/08/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE-BASED LEARNING ASSESSMENT SYSTEM FOR DETERMINING IMPROVEMENTS USING COLLECTED DATA FROM VARIOUS EQUIPMENT

<p>(51) International classification :G06N0020000000, G01N0021170000, A61M0016000000, G01N0033240000, G06N0003080000</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)INDIA INSTITUTE OF INFORMATION TECHNOLOGY,ALLAHABAD Address of Applicant :IIIT RD, NEAR BOYS HOSTEL, DEVGHAT, JHALWA, PRAYAGRAJ, UTTAR PRADESH-211015 INDIA -----</p> <p>2)SANTOSH KUMAR BARNWAL 3)UMA SHANKER TIWARY Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SANTOSH KUMAR BARNWAL Address of Applicant :NEW SWARDIH BASTI, SUDAMDIH, DHANBAD, JHARKHAND-828126 -----</p> <p>2)UMA SHANKER TIWARY Address of Applicant :INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, DEOGHAT, JHALWA, PRAYAGRAJ, UTTAR PARDESH-211015 -----</p>
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(57) Abstract :

The invention consists of an artificial intelligence-based learning assessment system consisting of a method for developing, tracking, and reporting individuals' achievement in educational proficiency by measuring their different learning skills. These skills are included but are not limited to, reading skill, writing skill, oral presentation skill and fluency skill. The system receives different signals generated by devices, while a user is participating in a reading/learning session. The signals, which can be live or pre-recorded, represent users' different skills performance (701). In various analysis modules, these signals are processed to generate different feature-models of respective skills (702). The system can identify the relations existing between the feature-models (703). The system also keeps track of the changing in the individuals' performance (704) and saves as models in a user database (705). The reports on skills proficiency can be sent to related stakeholders such as users, their teachers and parents (706).

No. of Pages : 33 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111038777 A

(19) INDIA

(22) Date of filing of Application :26/08/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A DUAL-CHAMBER GAS ANALYSING SYSTEM AND METHOD FOR SELECTIVE GAS SENSING

(51) International classification :B01D0053220000, G01N0033000000, A61M0016100000, C23C0016520000, G01N0031120000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention relates to a system and method for a testing chamber with a provision of selective gas separation membrane for selective gas sensing and a heating element for testing the fabricated gas sensor at different temperatures. The dual-chamber gas analyzer's comprises two chambers (1), membrane set up (4a) with gas separation membrane slot (4), to separate the selective gas from mixed gases. Inlets are arranged for thermocouple (6), electrode wire connections, and pressure gauge on top of the box. The connecting pipes (2) are provided for gas inlet and outlet. Computer-controlled pneumatic valves (3) controls flow rate of gases by controlled opening and closing the gas inlet and outlet, the vacuum creation system. The heating element (5), and thermocouple (6) are provided for measuring the temperature.

No. of Pages : 28 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111039047 A

(19) INDIA

(22) Date of filing of Application :28/08/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A CELLULOSE NANOFIBERS BASED COMPOSITE AEROGEL FOR SUPER THERMAL INSULATION

(51) International classification :C08J0009280000, C01B0033158000, B01J0020280000, A61K0008891000, B01J0013000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention relates to the cellulose nanofibers based composite aerogel and its method of preparation for super thermal insulation. The aerogel comprising in-situ synthesis of polymethylsilsesquioxane from methyltrimethoxysilane precursor, in the presence of cellulose nanofibers gel as a diluents. The said aerogel has the thermal conductivity between 18-25 mWm-1K-1.

No. of Pages : 30 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111039949 A

(19) INDIA

(22) Date of filing of Application :03/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A METHOD FOR THE SYNTHESIS OF PRIMARY AMIDES

(51) International classification :B01D0053620000, B01J0027240000, B22F0001000000, A23K0050150000, C07C0231020000

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

(87) International Publication No : NA

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

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

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2)SHUVOJIT HALDAR

Address of Applicant :Department of Chemistry, Indian Institute of Technology Roorkee, Roorkee- 247667 -----

(57) Abstract :

The present invention relates to a catalytic method for the synthesis of primary amides from various carboxylic acids derivatives in combination with inexpensive nitrogen sources. The process uses carboxylic acids in their intact form, so there are no activating agents. Urea is employed as a neutral nitrogen source which provides two nitrogen groups and CO₂ and water are formed as by-products.

No. of Pages : 30 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111039950 A

(19) INDIA

(22) Date of filing of Application :03/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NI(II)-PINCER COMPLEX FOR CATALYTIC AMINATION OF ALCOHOLS

(51) International classification :B01J0031220000, B01J0031180000, C07F0015000000, C08F0004659000, B01J0031240000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention relates to Ni(II)-pincer complex as catalyst; its method of preparation and the synthesis of various secondary amines starting from challenging alcohols using Ni(II)-pincer complex. The process does not require any activator and water is generated as side product. The complex is easy to prepare and has high reactivity towards small molecule activation.

No. of Pages : 27 No. of Claims : 6

(54) Title of the invention : ADJUSTABLE DRAIN CLEANER MACHINE

(51) International classification :E03F0009000000, B08B0009045000, B08B0003100000, E03C0001300000, E03C0001302000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
 Discloses herein an adjustable drain cleaner machine comprises L- Shape jaws (101), Timing Belt (102), Plumber block (103), Pully (104), Adjustable in the length (105), Drive (106), Container (107), a plural of Fins (108). In the present invention, inventors build a system that operates more efficiently to clear drain blockages, and the machine performs various tasks, such as producing power from water flow and cleaning the drain. This machine has a basic operating philosophy and can be adjusted to produce a higher efficiency. Most importantly, the drain is cleaned every day, reducing waste and the spread of infectious diseases. This machine comes with additional accessories in addition to sink cleaning. The link equipment uses water flow to produce energy, and the drive mechanism is driven by a solar system.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111040595 A

(19) INDIA

(22) Date of filing of Application :07/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : Academic Competency and Commitment Based Self-Assessment by Institutions Seeking Ranking in NIRF

(51) International classification :G06Q0050200000, G06Q0010100000, A61K0049000000, A61K0031404000, G06Q0010060000

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

(87) 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 :

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(57) Abstract :

The present invention relates generally to method and system to provide a self-assessment of an academic entity. The user provides various input parameters related to an academic entity, a server arrangement is configured to utilize the received parameters to evaluate ACC score. The server arrangement also calculates ACC score of the institutes which have been already ranked. A comparison is performed between both calculated ACC scores to compute ranking bracket of the academic entity.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111042007 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : BUFFALO MILK PROTEIN CONCENTRATE AND METHOD OF PRODUCTION THEREOF

(51) International classification :A61K0035320000, C07K0014470000, A61K0008970000, A23C0001160000, A23G0009040000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention relates to the milk protein concentrates and method of producing said milk protein concentrates with high solubility that can be used in the formulation of various food/ dairy products. The method of the invention is simple and easy to replicate. The method involves processing of raw milk to produce skim milk followed by refrigeration storage, pH adjustment, ultrafiltration, sonication and drying

No. of Pages : 30 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111042858 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN ELECTRO-ELECTRODIALYSIS (EED) CELL FOR PERIODIC REMOVAL OF PRECIPITATE

<p>(51) International classification :D21C0011000000, G09G0003220000, G06F0009480000, B01D0061480000, H01M0010390000</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-247667 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)PROF. SUJAY CHATTOPADHAY Address of Applicant :Department of Polymer and Process Engineering, Indian Institute of Technology Roorkee, Saharanpur Campus, Saharanpur -----</p> <p>2)PRIYABRATA MANDAL Address of Applicant :Department of Polymer and Process Engineering, Indian Institute of Technology Roorkee, Saharanpur Campus, Saharanpur -----</p> <p>3)PRIYA GOEL Address of Applicant :Department of Polymer and Process Engineering, Indian Institute of Technology Roorkee, Saharanpur Campus, Saharanpur -----</p> <p>4)BHUVANESH E. Address of Applicant :Department of Polymer and Process Engineering, Indian Institute of Technology Roorkee, Saharanpur Campus, Saharanpur-247001 -----</p> <p>5)AMIT SUHAG Address of Applicant :Department of Polymer and Process Engineering, Indian Institute of Technology Roorkee, Saharanpur Campus, Saharanpur-247001 -----</p>
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(57) Abstract :

The present invention relates to a system and method for electro-electrodialysis cell for periodic removal of precipitate. The invention provides modification of electrode compartment to remove any foulant from the EED cell without disrupting the process or dismantling the EED cell. This improves the process efficiency and overall economics besides saving energy and down time. The invention also provides a method of periodic silica removal from the anode compartment of EED setup during NaOH production from the green liquor of agro-based pulp mills.

No. of Pages : 32 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111043290 A

(19) INDIA

(22) Date of filing of Application :24/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A CLAW-SHAPED ULTRA-WIDEBAND FRACTAL ANTENNA

(51) International classification :H01Q0001360000, H01Q0001380000, H02K0021040000, H04N0019900000, H04B0001716300

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

(87) 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 :

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2)Vipul Sharma

Address of Applicant :FET, Gk(DU), Singhdwar, Haridwar, Uttarakhand, 249404, India -----

(57) Abstract :

A low-cost, multiple resonant frequency tuned, microstrip patch antenna with three semi-circular fractal cuts and a rectangular strip is disclosed. The antenna is parasitically loaded with single unit of split ring resonator (SRR) and also uses defected ground structure to obtain ultra-wideband (UWB) performance.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111043891 A

(19) INDIA

(22) Date of filing of Application :27/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AUTONOMOUS MULTIPURPOSE AGROTURTLE

(51) International classification :A01M0007000000, C05G0003600000, C05G0003000000, G01N0021840000, A01M0021040000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
 Plant growth is influenced by the conditions of the ecosystem in which it develops. Traditional methods of sowing seeds manually, as well as other practices such as ploughing, water pouring, chemical spraying, and so on, take a lot of time and are not always effective due to human error. As a result, a multipurpose machine is being used to automate the above tasks. Monitoring and detection of plant pests, managed irrigation, and controlled use of fertilizers and pesticides are also part of the responsibility of regulating and maintaining plant development from early stages to advanced harvest stages. In this invention, the wireless sensors are used to measure critical farm parameters such as humidity, ambient temperature, and soil moisture content in real time conditions. The vision-based automated disease identification system is used for detect the diseases on the plant leaves and plant flowers. This invention is combination of multitasks system with plant disease identification, growth control, and pesticide, fertilizer, ploughing, seed sowing, levelling, dig soil, level mud and pesticides spraying mechanisms for use in agriculture and plant nurseries. To accomplish this requirement, the machine is consisting of a small, lightweight, and well-founded platform that can automatically survey farmland, diagnose disease, and analyse plant growth, spraying pesticide, fertilizer, soil digging mechanism, mud levelling system and water as required.

No. of Pages : 26 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111043898 A

(19) INDIA

(22) Date of filing of Application :27/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A SYSTEM OF DIGITAL DUAL MODE RTC BASED HIGH POWER CONTROLLER

(51) International classification :H04L0029080000, G06F0001140000, H04N0001320000, H04Q0009000000, H02H0003080000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention is based on the RTC Module DS3231 and IoT for automatic on/off of any high-power electrical appliance according to the timer set. Discloses herein a system of Digital Dual Mode RTC Based High Power Controller comprises RTC based Processing Unit, IoT-based processing unit and a Switching unit; wherein said RTC based Processing Unit comprises Microcontroller, RTC Module DS3231, Relay unit, and a Display Unit; wherein said microcontroller receives the data like date and time from the RTC Module unit; and Received data is processed and analyzed by a microcontroller and then sends a command to the relay unit to switch on or off the appliance through the contactor.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111043902 A

(19) INDIA

(22) Date of filing of Application :28/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MYCOPROTEIN

(51) International classification :C12N0001140000, A01K0001015000, C12P0007140000, A23J0001160000, C12P0021000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

A mycoprotein from suitable culture of mycelial Fungi is disclosed. A continuous process for producing and isolating mycoprotein from suitable culture of mycelial Fungi wherein the mycelium fungi is Aspergillus, Fusarium or Rhizopus.

No. of Pages : 17 No. of Claims : 45

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111044047 A

(19) INDIA

(22) Date of filing of Application :28/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A DYNAMIC INTEGRATED MULTI-PERSISTENCE (DIMP) METHOD FOR ENHANCING THE PERFORMANCE OF TRADITIONAL DATABASE FOR A QUERY OPERATION

(51) International classification :G06F0016270000, G06F0016245300, G06F0016245500, G06F0016245200, G06F0016242000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention is a dynamic integrated multi-persistence (DIMP) method for enhancing the performance of a traditional database for a query operation using PHP script. The system is using external utilities namely horizontal scaling, replication, de-normalization to enhance the power of SQL by implementing features of NoSQL. This expanded external service is acting as an interface between the client and SQL Library. The method step for insert/read query operation includes matching of query request address with the address of member machine, processing of request and updating of master and corresponding slave machines with the change in the dataset. The main objective of this work is concentrated on the elimination of these business issues by exploiting the powers of NoSQL databases with the traditional database model. With this proposed architecture, the query language has been kept the same, the ACID properties can be maintained where required, which results in the scalability and reliability.

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111044130 A

(19) INDIA

(22) Date of filing of Application :29/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : BICYCLE WITH SELF-DRIVEN REAL TIME MONITORED AIR PURIFIER

(51) International classification :F24F0003160000, B01D0046420000, B01D0046000000, B62J0099000000, F24F0110500000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

Discloses herein a system of Bicycle with self-driven real time monitored air purifier comprises Bell Mouth Inlet Duct (1), Ducted Fan Propulsion Unit (2), Acrylic Plastic Chamber (3), Separator (4), Air Filters unit (5, 6), Air Quality Meter with Health Mentoring System (7), Air Flow Controller (8), Air Mask with Real Monitoring System (9), Dynamo Controller Unit with Auto Cut (10), Power Unit (11), and Bicycle (12). A combination of solid particles and chemicals in the air is referred to as air pollution. Current air purifiers are inconvenient, have a complicated configuration, and are seldom applicable to riding a bike outside; thus, it is critical for cycling enthusiasts to build a bicycle-mounted air purifier. To address these issues, A bicycle with a self-driven real time monitored air purifier is designed to provide purified air based on the cyclist's needs. This unit monitors the condition of the air in the atmosphere and regulates the flow of air to meet the needs of cyclists. Since a cyclist's air inhalation potential varies on his or her riding pace and force, a supply of air would be providing based on that potential. The ducted fan and controller system detects and supplies the amount of air needed by the cyclist.

No. of Pages : 19 No. of Claims : 8

(54) Title of the invention : IOT BASED COST EFFECTIVE DRIP MONITORING SYSTEM WITH SMS ALERT UNDER COVID-19 SITUATION

<p>(51) International classification :G06Q0050220000, G08B0021020000, G16H0050200000, G16H0040200000, A41D0013120000</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)Antim Dev Mishra Address of Applicant :Department of Electronics and Communication Engineering, Ansal University University, Gurgaon, Haryana, India ----- -----</p> <p>2)Dr. Arti Vaish 3)Dr. Monika Jain 4)Dr. Nitish Pathak 5)Neelam Sharma 6)Amit Rathi 7)Dr Vikas Singh Bhadoria 8)Dr. Garima Goswami 9)Dr. Pankaj Kumar Goswami</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Antim Dev Mishra Address of Applicant :Department of Electronics and Communication Engineering, Ansal University University, Gurgaon, Haryana, India ----- -----</p> <p>2)Dr. Arti Vaish Address of Applicant :Department of Electronics and Communication Engineering, Ansal University University, Gurgaon ----- -----</p> <p>3)Dr. Monika Jain Address of Applicant :Prof & Head- ECE, D-208, sec 122, Noida, Gautam Budh Nagar, Uttar Pradesh, 201309, 9717020158, monikajain.ieee@gmail.com ----- -----</p> <p>4)Dr. Nitish Pathak Address of Applicant :Associate Professor, Department of Information Technology, Bhagwan Parshuram Institute of Technology (BPIT), GGSIPU, New Delhi, ----- -----</p> <p>5)Neelam Sharma Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Affiliation: Maharaja Agrasen Institute of Technology (MAIT), GGSIPU, New Delhi ----- -----</p> <p>6)Amit Rathi Address of Applicant :Manipal University Jaipur, Dehmi Kalan, Near GVK Toll Plaza, Jaipur, ----- -----</p> <p>7)Dr Vikas Singh Bhadoria Address of Applicant :Department of Electrical & Electronics Engineering, ABES Engineering College, Ghaziabad, Uttar Pradesh, India ----- -----</p> <p>8)Dr. Garima Goswami Address of Applicant :Faculty of Engineering and Computing Sciences, Teerthanker Mahaveer University, Moradabad, ----- -----</p> <p>9)Dr. Pankaj Kumar Goswami Address of Applicant :Faculty of Engineering and Computing Sciences, Teerthanker Mahaveer University, Moradabad, Uttar Pradesh, India ----- -----</p>
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(57) Abstract :

We have seen a trauma of COVID-19 and strict guidelines recommend the physical distancing with each other. Under this situation, patient monitoring is a big challenge for healthcare workers. Many advanced technologies have been developed in recent years for patient care in hospitals and rapid recovery. However, there are a few areas in hospitals where manual assistance is still required, such as a patient attender who must monitor the patient's condition and medication administration. One particularly delicate area is to keep a close eye on the glucose bottle and notify the doctor or nurse before it gets empty. Because it is manual assistance, there could be possible that the attendant will forget to check the bottle level, putting the patient in danger of dying as a result of bottle air pumped into the patient's veins. An automatic drip monitoring system is developed using GSM, Arduino Uno, and a pressure sensor to avoid these situations. This novel invention under such pandemic situation will be a great boon to health care workers. They can easily monitor the patients drip level from a control room without being in close contact frequently. The systems ensure its applicability to patient health care monitoring at own home during unavailability of attendant especially in night. This system uniquely has low complexity and ease of operation. The system comprises economically balanced components units to make it cost effective.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111046070 A

(19) INDIA

(22) Date of filing of Application :09/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A METHOD OF RECOVERING SULFUR FROM INDUSTRIAL SOLID WASTES/SLUDGE

(51) International classification :C10G0067040000, C02F0001040000, B01D0001000000, C01B0017020000, C08K0003060000

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

(87) 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 :

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(57) Abstract :

The present invention relates to a method of recovering highly pure sulfur from industrial solid wastes/sludge rich in sulfur. The sulfur-rich industrial waste (2) is heated in the heating/evaporation unit (1), maintained between the melting (~119°C) and boiling point (~445°C) of sulfur. The one end of the heating/evaporation unit (1) is connected to the flow controller (4) to acquire the desired gas flow rate, and the other end is connected to the condenser (6) to cool down the evaporated sulfur vapors (Fig 1). The recovered sulfur can be directly used for various industrial and agricultural applications without any further purification.

No. of Pages : 25 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111046759 A

(19) INDIA

(22) Date of filing of Application :13/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A METHOD FOR REMOVING ACRYLONITRILE FROM AQUEOUS SOLUTION USING HETEROGENEOUS CATALYSTS

(51) International classification :C02F0001720000, A61K0031519000, B01J0035000000, C07C0253300000, B01J0037020000

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

(87) 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 ROORKEE

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Address of Applicant :Department of Chemical Engineering,
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(57) Abstract :

The present invention relates to a method for acrylonitrile degradation from acrylonitrile bearing aqueous solution by heterogeneous catalysts. The present invention is a promising treatment system LaMO₃/PMS developed for the degradation of acrylonitrile which is very efficient, economical and enviro-friendly. The system perovskite-like catalyst LaMO₃ activated with PMS has been developed for the treatment of acrylonitrile from acrylonitrile bearing aqueous solution.

No. of Pages : 28 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111047458 A

(19) INDIA

(22) Date of filing of Application :19/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DESIGN A WEARABLE SENSORS TO PROVIDE HEALTHCARE NOTIFICATION USING ML AND IOT BASED TECHNOLOGY.

<p>(51) International classification :G06Q0050220000, G16H0010600000, G16H0040200000, G16H0015000000, E04H0003080000</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)Sambit Satpathy (Assistant Professor) Address of Applicant :Department of Computer Science and Engineering Application , GLA University Mathura, UP, India --- ----- 2)Mr. Rajendra Bhimraj Madake (Assistant Professor) 3)C. S. J. M. University 4)Dr. Versha Prasad (Assistant Professor) 5)Abhilashi University 6)Dr. H.S Banyal Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Sambit Satpathy (Assistant Professor) Address of Applicant :Department of Computer Science and Engineering Application , GLA University Mathura, UP, India --- ----- 2)Mr. Rajendra Bhimraj Madake (Assistant Professor) Address of Applicant :Department of Electrical Engineering, Annasaheb DANGE College of Engineering & Technology, A/P-Ashta, Tehsil-Walwa, District-Sangli. Maharashtra India, 416301 ----- 3)Dr. Versha Prasad (Assistant Professor) Address of Applicant :School of Health Sciences, C. S. J. M. University Kanpur UP-208024, India. ----- 4)Dr. H.S Banyal Address of Applicant :Abhilashi University, Chail Chowk, Mandi, Himachal Pradesh 175045, India. -----</p>
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(57) Abstract :

Our Invention Design a Wearable Sensors to Provide Healthcare Notification Using ML and IoT Based Technology is a The last decade has seen broad exploration in the field of medical care administrations and their innovative upgradation. To be more explicit, the Internet of Things (IoT) has shown possible application in associating different clinical gadgets, sensors, and medical care experts to offer quality clinical types of assistance in a far off area. This has worked on persistent wellbeing, decreased medical care costs, improved the availability of medical services benefits, and expanded functional effectiveness in the medical services industry. The current review surrenders a to-date rundown of the potential medical care uses of IoT-(HIIoT-) based innovations. Thus, the progression of the utilization of the HIIoT has been accounted for according to the viewpoint of empowering innovations, medical care administrations, and applications in settling different medical care issues. In addition, possible difficulties and issues in the HIIoT framework are likewise examined. In aggregate, the momentum study gives a thorough wellspring of data in regards to the various fields of use of HIIoT meaning to help future scientists, who have the interest to work and make headways in the field to acquire understanding into the subject.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111048585 A

(19) INDIA

(22) Date of filing of Application :25/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AQUARITIN FOLIAR COMPOSITION

(51) International classification :H04W0084040000, C02F0001400000, A61K0009190000, A61K0008730000, H01L0051420000

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

(87) 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 :

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(72)Name of Inventor :

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(57) Abstract :

The present invention provides Aquaritin Foliar composition. The composition comprises nanoscale nutrients that enhance absorption efficiency which has a positive effect on photosynthesis efficiency as well as on plant microbiome. The composition comprises macro and 10 micro nutrients at nano scale embedded in nano silica base, which advantageously loads the nutrients (cations and anions) in a single formulation without reaction and precipitation.

No. of Pages : 22 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111048713 A

(19) INDIA

(22) Date of filing of Application :25/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD AND APPARATUS FOR ANALYTICAL CHARACTERIZATION AND IDENTIFICATION OF MATERIALS

<p>(51) International classification :A61B0005000000, G01M0007020000, G10L0017020000, G01H0017000000, G01N0021170000</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)MUNNA KHAN Address of Applicant :DEPARTMENT OF ELECTRICAL ENGINEERING, FACULTY OF ENGINEERING AND TECHNOLOGY, JAMIA MILLIA ISLAMIA, JAMIA NAGAR, NEW DELHI-110025 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MUNNA KHAN Address of Applicant :DEPARTMENT OF ELECTRICAL ENGINEERING, FACULTY OF ENGINEERING AND TECHNOLOGY, JAMIA MILLIA ISLAMIA, JAMIA NAGAR, NEW DELHI-110025 -----</p> <p>2)REZA MD QAISER Address of Applicant :DEPARTMENT OF ELECTRICAL ENGINEERING, FACULTY OF ENGINEERING AND TECHNOLOGY, JAMIA MILLIA ISLAMIA, JAMIA NAGAR, NEW DELHI-110025 -----</p> <p>3)SIRDESHMUKH SHAILA PARVEEN SYED MAQSOOD ALI Address of Applicant :DEPARTMENT OF ELECTRICAL ENGINEERING, FACULTY OF ENGINEERING AND TECHNOLOGY, JAMIA MILLIA ISLAMIA, JAMIA NAGAR, NEW DELHI-110025 -----</p> <p>4)SHERWANI KASHIF ISLAM KHAN Address of Applicant :DRDO, DEFENCE INSTITUTE OF PHYSIOLOGY AND ALLIED SCIENCES (DIPAS). TIMARPUR, DELHI-110054 -----</p> <p>5)SALHAN ASHOK KUMAR Address of Applicant :DEPARTMENT OF ELECTRICAL ENGINEERING, FACULTY OF ENGINEERING AND TECHNOLOGY, JAMIA MILLIA ISLAMIA, JAMIA NAGAR, NEW DELHI-110025 -----</p>
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(57) Abstract :
Apparatus and Method for Wound Healing is disclosed. The invention is used for analytical characterization and identification of materials in four states e.g. solid, liquid, fluid, and powder. The method comprises generating forced vibration into each identified material and then record acoustic signals. From recorded signals, distinguishing resonance features are extracted from spectrum that forms the basis for analytical characterization of materials. Based on extracted features of reference materials, a model is obtained for analytical comparison with an unknown material. A combination of acoustic resonator formed by V-shaped solid quartz strip with two attached piezoelectric transducers, signal generator, preamplifier, signal preprocessing unit, and data analysis and classification unit provide important information for characterization of material sample.

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

(54) Title of the invention : AN APPARATUS BASED ON CLOUD COMPUTING TO PROVIDE PREOPERATIVE MEASURES IN AN ACCIDENT

(51) International classification :G06N0003080000, G16H0040200000, G16H0030200000, G06F0016210000, G08B0027000000

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

(87) International Publication No : NA

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

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

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3)Nidhi Sharma
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6)Dr. Prabhat Kumar Srivastava
 Address of Applicant :Professor Computer Science and Engineering Department Babu Banarasi Das University, Lucknow -----

(57) Abstract :
 The present invention discloses an apparatus working based on cloud computing to provide preoperative measures in an accident. The system is comprised of, but not limited to, a scanning device to take a plurality of images of body injuries showing a region of body of a patient; a cloud interface to connect with a computation server for comparing and performing analytics to generate standard of procedures (SOPs) to a caretaker before reaching to any nearby helping centre or hospital. The computation server is configured with an artificial intelligence and machine learning module, and implemented with the neural network modules to perform the analytics to generate preoperative measures and standard of procedures (SOPs) in conjunction with the previously stored information on a database and a patient location identifier provided to one or more central authority systems to track the timing of arrival of the patient. The cloud interface connects the scanning device and the central authority systems according to the location and closest helping centre to the accident happened.

No. of Pages : 26 No. of Claims : 7

(54) Title of the invention : A SYSTEM FOR CUSTOMIZED VIDEO PRODUCING SERVICE USING CLOUD-BASED VOICE COMMAND AND METHOD THEREOF

<p>(51) International classification :G10L0015220000, H04N0005445000, G10L0015260000, H04N0021488000, H04N0021439000</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)Ms. Ambika Aggarwal Address of Applicant :Lecturer IT , University of petroleum and energy studies (UPES),Dehradun-248007, Uttarakhand, India -----</p> <p>2)Mr. Abhishek Kumar Pandey Address of Applicant :Assistant Professor, Department of Computer Science and Engineering Shambhunath Institute of Engineering and Technology Jhalwa, Prayagraj -211015, Uttar Pradesh, India. -----</p> <p>3)Mrs. Ritima Tripathi Address of Applicant :Lecturer IT , Government girls Polytechnic Sunderpur Varanasi- 221005 Uttar Pradesh, India. -----</p> <p>4)Mr. Vipul Narayan Address of Applicant :PhD Scholar, Computer Science and Engineering MMMUT Gorakhpur -----</p> <p>5)Mr. Pawan Kumar Mall Address of Applicant :PhD Scholar, Computer Science and Engineering MMMUT Gorakhpur, India -----</p> <p>6)Mr. Mohammad Faiz Address of Applicant :PhD Scholar, Computer Science and Engineering MMMUT Gorakhpur -----</p> <p>7)Dr. Sunil Ghildiyal Address of Applicant :Associate Professor, Uttaranchal university Prem nagar, Dehradun -248007, India -----</p> <p>8)Dr Mahip M Bartere Address of Applicant :Assistant Professor, Department of Computer Science and Engineering GH Raisonni University Amravati Maharashtra, India -----</p> <p>9)Mr. Ashutosh Bhatt Address of Applicant :Assistant Professor, Shivalik college of engineering Dehradun -248197, Uttarakhand, India -----</p> <p>10)Dr. SHACHI MALL Address of Applicant :Associate Professor Department of Computer Science and Engineering Institute of Technology and Management AL-1 Sector 7 GIDA Gorakhpur 273209 -----</p>
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(57) Abstract :

The present invention discloses a system for customized video producing service using cloud-based voice command and method thereof. The system includes, but not limited to, a unit section video separation module configured for separating the video through voice command into a plurality of unit sections based on a change in a characteristic of a voice included in the video; a script string video generation step of producing a script string corresponding to the speech by recognizing the speech included in the unit section in a cloud network; and a video caption module for recognizing a caption image included in the unit section and generating a caption string corresponding to the caption image through voice command and generating a keyword corresponding to the unit section by applying natural language processing to the script string video and the subtitle string video.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111048868 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : DISTANTLY CONTROLLED SMART SYSTEM FOR SURGICAL ROBOTS

(51) International classification :A61B0034300000, A61B0090000000, A61B0034000000, G06F0003048400, G10L0015220000

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

(87) International Publication No : NA

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

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

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(72)Name of Inventor :

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Address of Applicant :Mechanical Engineering Department, Punjab Engineering College, Chandigarh - 160012 -----

(57) Abstract :

The present invention relates to a distantly controlled smart system for surgical robots comprising an imitator module having atleast two arms (1a, 1b) flexibly approachable to a patient's body (2) for manipulating thereon plurality of voice instructions received from a distantly located operator (3), one or more equipment tray(s) (4) for alternatively choosing equipment(s), a distantly located mind mapping interface (5) used by the operator (3) to provide the voice instructions, wherein the imitator module operates the body (2) by moving the arms (1a, 1b) in exact correspondence to the voice instructions, also (5) telecasts live view of the body (2) under operation, and equips a voice sensor (7) for receiving operator's instructions and includes an action repository for recordation of those instructions, thus storing a learned set of actions for a situational robotic surgery without the operator (3).

No. of Pages : 23 No. of Claims : 9

(54) Title of the invention : A SYSTEM OF META-HEURISTIC MODEL OF FEATURE SELECTION FOR SENTIMENT ANALYSIS

<p>(51) International classification :G06N0020000000, G06K0009620000, G06Q0030020000, G06F0040300000, G06N0005000000</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)ARPITA Address of Applicant :PH.D. SCHOLAR, DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS, KURUKSHETRA UNIVERSITY, KURUKSHETRA -----</p> <p>2)Dr PARDEEP KUMAR 3)Dr KANWAL GARG Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)ARPITA Address of Applicant :PH.D. SCHOLAR, DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS, KURUKSHETRA UNIVERSITY, KURUKSHETRA -----</p> <p>2)Dr PARDEEP KUMAR Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS, KURUKSHETRA UNIVERSITY, KURUKSHETRA -----</p> <p>3)Dr KANWAL GARG Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS, KURUKSHETRA UNIVERSITY, KURUKSHETRA -----</p>
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(57) Abstract :

A huge proportion of electronic data is produced with elevated accessibility to computerized information. Accumulation of this huge amount of data although arouses the problem of scalability, yet persuade researchers to critically analyze the data with aim of extracting utmost benefits in view of wiser decisiveness. This research focuses on superintending the problem of scalability for extrication of accurate sentiment interpretations from massive content over Twitter using supervised machine learning algorithm. Towards this end, first requirement is curtailing of text to a better structured format by pre-processing of data collected through Twitter Streaming API. For this research, raw data at step of pre-processing is filtered with fine sieve of two processes i.e. cleaning and transformation. Further, it was observed that feature extraction, dimensionality reduction and feature selection were three major phases of producing reduced set of attributes. But, all three had some limitations in tackling enormous set of features. Therefore, a hybrid meta-heuristic model collaborating extraction, reduction and selection is suggested as second phase of sentiment analysis in this paper. Thereafter, for third phase of experimentation, five supervised machine learning classifiers named NB, Random Forest, SVM, Decision Tree and (LR)Logistic Regression models were applied over three secondary training datasets. First being Mixed dataset of movie reviews and news, second being Airline dataset and the final one was dataset of Amazon product reviews. Results demonstrated 52.07%, 45.63% and 50.3% reduction in feature subset for Mixed, Airline and Amazon dataset respectively without compromising the accuracy. Ultimately, Support Vector Machine which is observed to be outperforming other four classifiers for all three datasets provides a scrutiny of sentiments over tweets related to Taliban Government.

No. of Pages : 28 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111048926 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : A POLYMER ELECTROLYTE COMPOSITION AND METHOD OF PREPARATION THEREOF

(51) International classification :H01M0010056500, H01B0001120000, C04B0111000000, C08F0008300000, C08L0081060000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present disclosure relates generally to the technical field of material sciences. More specifically, the disclosure is directed to a polymer electrolyte composition comprising latex of Calotropic Gegantia and poly(vinylidene fluoride-co-hexafluoropropylene). The composition provides high ionic conductivity without using doping salts. The electrolyte composition is suitable for energy and charge storing devices. The disclosure also provides a method of preparing the polymer electrolyte composition.

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

(54) Title of the invention : SMART ORGANIC LED FARMING SYSTEM BASED ON ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING MODEL

<p>(51) International classification :F21Y0115100000, A01G0007040000, A01N0059000000, A61B0005160000, A01N0065000000</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 Kumar Koshariya Address of Applicant :Assistant Professor, Department of Plant Pathology, School of Agriculture, Lovely Professional University Jalandhar, Punjab, India ---- -----</p> <p>2)Susheel George Joseph 3)Dr. Anurag Shrivastava 4)Ashutosh Khade 5)Dr Sandeep Rout 6)Mr. Saurabh Singh 7)Dr. Yogini Dilip Borole 8)Amit Shrivastava 9)Dr. Sudhir Kumar Sharma</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr Ashok Kumar Koshariya Address of Applicant :Assistant Professor, Department of Plant Pathology, School of Agriculture, Lovely Professional University Jalandhar, Punjab, India ----- -----</p> <p>2)Susheel George Joseph Address of Applicant :Associate Professor, Department of Computer Application, Kristu Jyoti College of Management and Technology, Kurismood, Chethipuzha, Changanasery, Kottayam, Kerala, India -----</p> <p>3)Dr. Anurag Shrivastava Address of Applicant :Principal and Professor (ECE), Lakshmi Narain College of Technology and Science, Indore, Madhya Pradesh, India -----</p> <p>4)Ashutosh Khade Address of Applicant :Assistant Professor, Department of Physics, MVPS Arts Commerce and Science College, Trimbakeshwar, Nashik, Maharashtra, India ----- -----</p> <p>5)Dr Sandeep Rout Address of Applicant :Assistant Professor, Faculty of Agriculture, Sri Sri University, Cuttack, Odisha, India -754006 -----</p> <p>6)Mr. Saurabh Singh Address of Applicant :Assistant Professor, Dept of Computer Science and Engineering, Bhilai Institute of Technology, Durg, Chhattisgarh, India ----- -----</p> <p>7)Dr. Yogini Dilip Borole Address of Applicant :Assistant Professor, Department of Electronics and Telecommunications Engineering, G H Rasoni Institute of Engineering and Technology, Wagholi, Pune, Maharashtra, India -----</p> <p>8)Amit Shrivastava Address of Applicant :Assistant Professor, Department of CSE, Swami Vivekanand College of Engineering, Indore, Madhya Pradesh, India ----- -----</p> <p>9)Dr. Sudhir Kumar Sharma Address of Applicant :Professor, Department of ECE, Jaipur National University, Jaipur, Rajasthan, India -----</p>
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(57) Abstract :

The present invention relates to an organic LED (Light emitting diode) fanning using artificial intelligence is paving the way to increase crop production effectively with LED lights. Users can select specific wavelength to elicit targeted photo morphogenic, bio chemical, or physiological plant responses. LED can prevent physiological disorder that are common in indoor environments, and help reduce incidence if pest and diseases pressure in agriculture, which could ultimately increase crop production efficiency by preventing crop losses. The output response to the environment or to certain physiological parameters, energy efficiency and plant productivity can be optimized with LEDs using artificial intelligence.

No. of Pages : 8 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049037 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR RECOGNITION OF FACE AND AGE USING DISCRETE WAVELET TRANSFORM AND LOCAL BINARY PATTERN

(51) International classification :G06K0009000000, G06K0009620000, G06K0009460000, G06T0007000000, G06T0007120000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure relates to a method (100) for recognition of face and age using discrete wavelet transform and local binary pattern. The said method (100) comprises the steps of pre-processing stage of image (102), followed by detecting the image using Viola-Jones algorithm (104), then features extraction stage (106), followed by features selection stage (108) and at the end Face and Age Recognition Using RBF SVM Classification (110).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049209 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL LOADING ARRANGEMENT FOR BEARING CASING

(51) International classification :F01D0021000000, G01M0013040000, G01N0003360000, F04D0029047000, F16C0019520000

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

(87) International Publication No : NA

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

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

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2)SHOOR, Sumit

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(57) Abstract :

The present invention relates to a fatigue harmonic loading arrangement for bearing casing wherein as the cam (3) rotates, it applies the variable intensity load on the bearing. In the present invention, customized harmonic load set up is designed to apply and vary harmonic load employing the base plate 1 (8) and base plate 2 (9). The present invention enables harmonic bearing analysis which can be carried out for determining the steady-state sinusoidal response to sinusoidal changing loads at a specific frequency. Here, the bearing casing does not need to be disengaged to change the harmonic load on the bearing.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049210 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL SPRAY TO IMPROVE THE QUALITY OF MUSTARD OIL AND PROCESS THEREOF

(51) International classification :A01N0065000000, A01N0065080000, A23L0027180000, A61K0008970000, C05D0009020000

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

(87) 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 :

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(57) Abstract :

The present invention describes the combination of micronutrient along with phytohormone can leads to an improvement in the crop production. To improve the quality of mustard oil, combination of micronutrient boron and plant growth hormone cytokinin is applied in the field with the help of foliar spray and this treatment gives excellent result in terms of the quality of mustard oil. An increase in Saponification value of mustard oil can leads to a better oil yield production of the mustard crop.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049211 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL SPRAY TO ENHANCE THE TOTAL SOLUBLE PROTEIN IN BRASSICA SPECIES AND PROCESS THEREOF

(51) International classification :C12N0015820000, A23L0033175000, C05F0011100000, A23J0001000000, A61K0038020000

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

(87) International Publication No : NA

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

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

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Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----

(57) Abstract :

The present invention describes the novel composition to enhance the total soluble protein in Brassica species and process thereof. Mustard is an excellent plant protein source with good essential amino acid profile; rich in lysine, adequate amounts of methionine and cysteine that can complement cereal proteins. Sulphur is also considered as an important secondary nutrient for plant growth and development as its synthesis of different amino acids in the plant so, the use of its reliable dose or concentration can improve the total soluble proteins in the mustard leaves.

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049213 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A METHOD FOR PROVIDING ANGULAR AND PARALLEL MISALIGNMENT OF SHAFT

(51) International classification	:B60K0017160000, G01B0003220000, E06B0009170000, F16L0027053000, G01S0007400000	(71)Name of Applicant : 1)Lovely Professional University Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, 144111 -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)SumitShoor
Filing Date	:NA	Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----
(62) Divisional to Application Number	:NA	2)Manpreet Singh
Filing Date	:NA	Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----

(57) Abstract :

The present invention relates to a method for providing angular and parallel misalignment of shaft (2). The present invention consists of a bearing casing and roller bearing (1), shaft (2), coupling (3), motor (4), threaded bolts (5), base plate (6), threaded nuts (7), and dial indicator (8). In the present invention, threaded nuts (7) and bolts (5) are provided for creating the angular and parallel misalignment. The present invention eliminates the need for altering the bearing setup settings for creating misalignment of the shaft (2).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049214 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A WALL CONTROL PANEL FOR ELEVATOR

(51) International classification :B66B0001460000, B66B0005000000, B66B0013300000, H01L0029510000, B66B0001340000

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

(87) International Publication No : NA

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

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

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(72)Name of Inventor :

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4)Sumit Shoor

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5)Satnam Singh

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(57) Abstract :

The present invention relates to a wall control panel for elevator installed in long corridor (1) for providing the solution for the commuters to control the elevator from a distance. In the present invention, the user passing through the long corridor (1) gives command to the elevator through panel (4) installed at a long distance from the elevator. Here, the signal is sent by the controller (5) to make the panel (4) un-operational in case elevator is fully loaded. The present invention eliminates the need to operate the panel (3) installed right outside the elevator (2).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049215 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL BIOFERTILIZER FOR SORGHUM SSV-74 GROWTH AND PROCESS THEREOF

(51) International classification :H04W0036000000, A61K0038180000, C12N0015820000, C12P0013000000, 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 :

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2)DWIVEDI, Padmanabh

Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India 144411 -----

(57) Abstract :

The present invention describes the regulation of sorghum SSV-74 growth by salt-induced phenol-responsive factor and its responses to osmotic potential. The sorghum plant along with the application of putrescine and mycorrhiza is used for the growth of SSV-74. Osmotic potential is found to change significantly and this leads to the survival of plants in a saline environment. The phenol content is also found to change in both of the parameters, which leads to the better performance in the affected area. Ground water is also purified by the application of mycorrhiza and putrescine on the sorghum.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049216 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL BIO-FERTILIZER TO ENHANCE THE QUALITY OF ZEA MAYS AND PROCESS THEREOF

<p>(51) International classification :C12N0015820000, A01N0063300000, C05G0003000000, C05F0011080000, C05D0009000000</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)Lovely Professional University Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, 144111 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DEVI, Priyanka Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, 144111 -----</p> <p>2)KUMAR, Prasann Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, 144111 -----</p> <p>3)KAUR, Jaspreet Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, 144111 -----</p>
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(57) Abstract :

The present invention describes the novel bio-fertilizer to enhance the quality of maize plant and process thereof. Mitigation of lipid-peroxidation and enhancement of protein content caused by novel bio-fertilizer on maize plant cultivated in chromium contaminated soil have evaluated. A novel bio-fertilizer has prepared from trichoderma, rhizobium and mycorrhiza alone or in combination thereof. The combination of all the constituents of bio-fertilizer is able to mitigate lipid-peroxidation in maize plant. However, mycorrhiza alone is able to enhance the total soluble protein content in maize plant. Hence, by this quality of maize plant is improved.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049217 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A METHOD OF CONCRETING FOR UNDOING

(51) International classification :E04G0023080000, F42D0003020000, B32B0007120000, C04B0018160000, E04G0021040000

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

(87) 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 :

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Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----

(57) Abstract :

The present invention relates to a method of method that helps in easy dismantling of the concrete at the time of expiry by making bore holes with plugging at the time of concreting below the Neutral Axis and then removing the plugs and injecting quiet non explosive cement solution and re-plugging at the time of concrete expiry/ demolition. The present invention provides a sustainable concreting method as it dismantles concrete structure without any drilling.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : NOVELCOMPOSITION FOR THE TREATMENT OF NEURONAL AND COGNITIVE DEFICITS AND PROCESS THEREOF

<p>(51) International classification :A61K0031357000, A61K0031704800, A61K0036160000, A61K0031085000, C07D0207267000</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)Lovely Professional University Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SUBEDI,Bhuban Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p> <p>2)KUMAR, Bimlesh Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p> <p>3)KHURANA, Navneet Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p> <p>4)KUMAR, Shubham Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p> <p>5)SOOD, Ankita Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p> <p>6)PRASHAR, Pankaj Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p> <p>7)GAUTAM, Anamika Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p> <p>8)MELKANI, Indu Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p> <p>9)GULATI, Monica Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p> <p>10)SINGH, Sachin Kumar Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p> <p>11)PANDEY, Narendra Kumar Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p> <p>12)SHARMA, Amarish Kumar Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p> <p>13)SINGH, Amrik Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p>
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(57) Abstract :

The present invention describes the novel composition for the treatment of chronic alcohol induced neuronal and cognitive deficits and process thereof. Over consumption of alcohol can cause chronic alcohol induced neuronal and cognitive deficits. Both silymarin and rutin are flavonoids and possess anti-oxidant and neuro-protective properties. After the induction of chronic alcohol induced cognitive deficits, various behavioral test and biochemical test are incorporated to assess the effectiveness of both silymarin and rutin in alone or in combination thereof.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049219 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN IOT BASED SMART FOOD PLATE FOR MONITORING FOOD CONSUMPTION OF A CARDIAC PATIENT

<p>(51) International classification :A61B0005000000, H04L0029080000, G16H0050200000, G09B0019000000, G16H0050300000</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)Lovely Professional University, Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144411 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)RydhmBeri Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>2)Mithilesh Kumar. Dubey Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>3)Anita Gehlot Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>4)Rajesh Singh Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p>
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(57) Abstract :

The present invention is an IoT based smart food plate designed for the cardiac patients to monitor the real-time food consumption through a smart phone with a customized mobile application. The smart plate provides access to the patients health profile remotely through the cloud server which is accessible by the doctor as well. The invention provides real-time alert and messages based on the food provided is suitable for consumption by the patient or not. The cloud server creates the patients health profile which generates the health report along with the diet of the patient for further analysis.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049220 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL WATER BASED NANO ANTI FOG SPRAY

(51) International classification :A61K0036886000, A61K0036896000, G03C0007300000, A61K0047260000, A61K0008979400

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention is Sodium Palmkernelate, Sodium Palmate (8-10%), aloe vera Aloe barbadensis miller (20%) and 70% water. Stabilizers Tween 80 or tween 40 (1%) for stabilizing the solution. The said process is very economical, without any harmful chemicals and industrially scalable. The spray forms a thin layer over glass making it dust and fog proof.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049221 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A REAL-TIME BASED DEEP-LEARNING ASSISTED SYSTEM FOR EARLY PREDICTION OF A WALNUT RIPENING

<p>(51) International classification :G06N0003080000, H04L0029080000, G06N0003040000, G06K0009000000, B07C0005342000</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)Lovely Professional University Address of Applicant :Jalandhar- Delhi G.T Road, Phagwara , Punjab, India, 144411 ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Yasir Afaq Address of Applicant :Lovely professional university jalandhar delhi gt road phagwara ----- 2)Rajesh Singh Address of Applicant :Lovely professional university jalandhar delhi gt road phagwara ----- 3)Anita Gehlot Address of Applicant :Lovely professional university jalandhar delhi gt road phagwara ----- 4)Shaikh Vaseem Akram Address of Applicant :Lovely professional university jalandhar delhi gt road phagwara ----- 5)Dharam buddhi Address of Applicant :Lovely professional university jalandhar delhi gt road phagwara ----- 6)Nitin Gupta Address of Applicant :Lovely professional university jalandhar delhi gt road phagwara ----- 7)Suresh Mani Address of Applicant :Lovely professional university jalandhar delhi gt road phagwara -----</p>
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(57) Abstract :

The present disclosure herein is a deep learning based early prediction system for detection of walnut ripening in earlier stages to avoid falling from a tree through a CNN based algorithm. The system provides cloud based alert remotely through LoRa Module (104) and IoT-enabled gateway (107) for immediate attention of early ripening of the nut. The system provides pre-process the images capture from the camera in real time for classification through CNN algorithm. The system classifies multiple features which are extracted from the pre-processed images such as color, size, shape etc based with greater accuracy.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049222 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A SMART PARKING SYSTEM

(51) International classification :G08G0001140000, B60W0030060000, G07B0015020000, G06Q0020060000, 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

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(57) Abstract :

The present invention relates to a smart parking system. The present invention consists of ultrasonic sensor module, raspberry Pi processor, and a webserver. Smart Parking System is an automated interconnected system that makes parking in huge lots easy and more effective. The present invention enables connection to Parking lot's Wi-Fi, thereby notifying people through mobile and guiding them to the nearest available parking space. The present invention not only reduces the hassle of routing vehicles, but also save money and time by reducing workforce requirement and providing access to unutilized parking slots.

No. of Pages : 18 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049223 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A DEEP LEARNING ASSISTED AUTOMATED PLANT REAL-TIME MONITORING SYSTEM IN HYDROPONIC FARM

<p>(51) International classification :H04L0029080000, G06N0003080000, G08B0021180000, G16H0050200000, G05B0023020000</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)Lovely Professional University, Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab , India , 144111 ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ruhul Amin Choudhury Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. ----- 2)Mandeep Singh Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. ----- 3)Namita Kaur Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. ----- 4)Sorabh Lakhanpal Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. ----- 5)Supreet Saajan Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. ----- 6)Irtiqa Amin Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. ----- 7)Dwaraka Niranjana.P Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p>
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(57) Abstract :

The present disclosure herein isa deep learning assisted automated plant monitoring system for hydroponic farm which provides alerts to the user through a customized mobile application (107). The sensor module in the system monitors various parameters of the plant through plurality of sensor deployed in the module. The deep learning technique classifies the data for detection of any abnormal pattern of the plant health in the hydroponic farm. The cloud server creates a local database of the real-time data and generates an alert to the user through a customized mobile application. The acts as a light classifier to the plant through a smart grow light module and prevents any mold or infections. The system provides energy conservation through solar powered rechargeable batteries.

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

(54) Title of the invention : A HYBRID AUTHENTICATION SYSTEM FOR ACESsing PERSONAL DOCUMENT FOLDER

<p>(51) International classification :H04L0029060000, H04W0012060000, H04W0008000000, G06F0021310000, H04B0001382700</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)Lovely Professional University Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Shaik Vaseem Akram Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>2)Yasir Afaq Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411 -----</p> <p>3)Rajesh Singh Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411 -----</p> <p>4)Anita Gehlot Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411 -----</p> <p>5)Lovi Raj Gupta Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>6)Navjot Rathour Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>7)Nitin Gupta Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p>
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(57) Abstract :

The present disclosure herein is a hybrid secure system through machine learning assisted finger print authentication system. The system consists of a finger-print reader with a touch screen display (103), a Bluetooth module (104) for communication to the external devices , a user wearable device (105) and a customized mobile application for authentication of the user and receiving alerts upon detection of higher attempts to access which exceeds the threshold limit. The user wearable device (105) generates a vibration upon exceeding the defined distance upon failure to establish connectivity to document folder in the desired distance range of the Bluetooth module (104). The system provides two level security to protect the personal document folder by generating a detection alert upon detection of unusual number of attempts and generates warning messages.

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049225 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN IOT BASED AUTOMATIC PROTECTIVE SYSTEM FOR POLYHOUSE

(51) International classification :F24F0110100000, F24F0011300000, H04W0004800000, F21S0009030000, F24F0011620000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present disclosure herein is an automated protective system for a polyhouse which is designed to protect from extreme weather. The system provides a customized mobile application to control operation of the translucent shades through Long range communication. The sensing unit (101), detects the changes in the environmental parameters to enable and disable the shades automatically. The system provides energy conservation through solar powered rechargeable batteries.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049226 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL TRAVEL PILLOW WITH VOICE RECORDING FOR STUDENTS

(51) International classification :G06Q0010100000, G01R0031318500, H04W0004400000, A61J0007040000, B60R0025104000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention is a U shaped device with holes at the back for fitting carefully in bus, car or airport seat. The said device is having an input unit for receiving data and output unit for revealing data. The device can send reminders through mobile application and also can help travellers set alarm as per their travelling schedule by sending vibratory signals. The device has an extra feature to record voice messages and play them as per schedule.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049227 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL BRASSIER FOR HEART MONITORING

(51) International classification :A61B0005000000, A61B0005020500, A47J0037070000, A61B0005021000, G01N0021270000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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4)Dr.Prakash Kumar Sarangi
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(57) Abstract :

The present invention is a multilayer brazier for monitoring the heart condition wherein the brazier has plurality of sensors for monitoring optical sensor, blood pressure sensor, temperature sensor and oxygen sensor alone or in combination thereof. The said brazier has detectable cup for maintaining the hygiene of the wearer. The said brazier is available in attractive shapes, sizes, colours, patterns.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049236 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL FLOATING WATER LIFTING SYSTEM

<p>(51) International classification :B63B0035000000, A01G0031020000, H01B0007040000, F04D0013040000, A01G0027040000</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)Lovely Professional University Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144411 ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SHARMA, Pushpendra Kumar Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. ----- 2)SHARMA, R.L Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. ----- 3)GARG, Anshul Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. ----- 4)SHUKLA, Bishnu Kant Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p>
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(57) Abstract :

The present invention relates to a water lifting system wherein an axial mono block pump (2) is vertically fitted in the rim of wheel. In the present invention, the lower pipe (3) sucks water from reservoir and the upper pipe (4) throws the water to a considerable height. The present invention includes a flexible electric cable (6) which is used for power supply from top during fluctuations in water level in the reservoir.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049237 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL SARI FALL COLOR MATCHING SYSTEM

<p>(51) International classification :G06Q0010080000, G06K0009000000, B65G0001137000, B62J0021000000, 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 : 1)Lovely Professional University Address of Applicant :Jalandhar- Delhi road Phagwara , Phagwara, Punjab, India, 144411 ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SHARMA, Pushendra Kumar Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. ----- 2)SRIVASTAVA, Amit Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. ----- 3)SINGH, Rajesh Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. ----- 4)RATHOUR, Navjot Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p>
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(57) Abstract :

The present invention relates to a system matching color of sari fall with the fabric of the sari which consists of Raspberry Pi employed as a computing unit (100). In the present invention, the computing unit (100) employed for training the dataset of available in the warehouse is connected with the camera (102) the computing unit (100). The present invention works with the mobile application available with the person in the warehouse wherein the user enters the login credentials to get the access. Here, the mobile application shows the result in terms of exact location of the matching cloth needed for the sari/ saree once it finds a suitable match.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049238 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A SOLAR POND IRRIGATION SYSTEM

(51) International classification :F24S0010130000, H03M0013090000, A01G0025090000, A01G0025160000, F24S0010100000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention relates to an electro-mechanical pond irrigation system driven by solar energy which consists of movable frame (1), a solar panel (2), a DC Motor (3), a mono block pump (4), and two flexible pipes (5) and (6) for drawing and supplying water to the field respectively. In the present invention, the the frame is made movable for installing the system from one place to another as per user requirement. The present invention provides the solution for easy usage of the water stored in ponds.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049239 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN IOT BASED SMART DOUBLE GLAZING UNIT

(51) International classification :G06N0020000000, G06K0009620000, E06B0003670000, E06B0003660000, G02F0001137000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention relates to an IOT based smart double glazing unit. In the present invention, lighting component (1), and Argon gas (2) are sandwiched between two glass panes from both inside (4) and outside (3). Here, the sandwiched part composed of Argon gas (2) and lighting component act as barrier to transmittance of light from outside to inside. The present invention employs machine learning model which performs classification of the real-time light intensity data through classification and regression algorithm. Here,.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049240 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL DRINK FOR EMBELICA OFFICINALIS AND METHOD THEREOF

(51) International classification :C12G0003020000, B67C0007000000, C12N0001160000, A23L0033150000, C02F0001380000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present disclosure relates to method of preparation of a novel healthy fragrant drink with high vitamin c contents. The healthy drink has components like Indian gooseberry, rose petals and Saccharomyces cerevisiae. The process of the formulation comprises the following steps like collection, pressing and juice extraction, yeast inoculation, fermentation, racking and decantation, clarification, and final racking and finally bottling and corking. This invention will improve the immunity by increasing gut micro-biota. It will be economically cost effective. The invention has very less percentage of the alcohol. The invention improves the immunity by the effects of secondary metabolites.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049241 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL METHOD FOR EASY DEMOLITION OF RCC WORK

(51) International classification :E04G0023080000, E02F0003960000, E04C0005060000, E04C0005160000, G01N0027900000

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

(87) 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 :

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2)S., Ganesh

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(57) Abstract :

The present invention relates to a method of easy demolition of RCC work. In the present invention, the steel bars (3) of reinforced cement concrete are exposed and connected to a High Voltage Alternating Current Source (7). The present invention consists of the bars (3) which are connected with column reinforcement (2) to serve the purpose of earthing for discharging the extra current Here, eddy current is produced and due the short circuiting bonding of concrete with steel bars, the cracks are initiated in the concrete slab (1).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049242 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : NOVEL BIOWASTE FERTILIZER FOR GROWTH OF ORNAMENTAL PLANTS FOR WETLAND SYSTEM

<p>(51) International classification :C02F0003320000, C02F0003340000, C02F0103000000, C05F0011100000, C02F0001020000</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)Lovely Professional University Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144411 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Sharma, Mamta Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411 -----</p> <p>2)Sharma, Neeta Raj Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411 -----</p> <p>3)Kanwar, Ramesh Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411 -----</p> <p>4)Bansal, Anu Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411 -----</p> <p>5)Kaushik, Aditi Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411 -----</p>
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(57) Abstract :

The present disclosure relates to the development of novel biowaste fertilizer for the growth of ornamental plants for wetland system. In the invention the locally available low-cost materials were used to develop fertilizer for constructed wetlands. The results of the study indicated that agricultural residues can be utilized as substrate for constructed wetland and ornamental plants can survive wastewater stress and produced good flowers. In addition, treatment of the wastewater will lead to additional income source.

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049243 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : NOVELANTI-FUNGAL NAIL POLISH AND PROCESS THEREOF

(51) International classification	:A61Q0003020000, A61K0031704800, A45D0029000000, A61K0008870000, A45D0029180000	(71)Name of Applicant : 1)Lovely Professional University Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)D, Kamal Raj
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(62) Divisional to Application Number	:NA	2)YADAV, Shivika Ind
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(57) Abstract :

The present invention describesthenovel anti-fungal nail polish used for the treatment of fungal nail infection and process thereof. This anti-fungal nail polish is designed for the effective treatment of finger nail infections.It consists of solvents, film former, resins, plasticizers, pigments, pearls some additional ingredients and also several therapeutic agents such as amphotericin which is an anti-fungal compound.This anti-fungal nail polish has the ability to cure the fungal nail infection as well as also increases the beautification of the nails.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049269 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR DEVELOPING EPITOPE-BASED PEPTIDE VACCINE AGAINST CANINE CIRCOVIRUS

<p>(51) International classification :A61K0039000000, C07K0014005000, C07K0014475000, G16B0020000000, 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)Lovely Professional University Address of Applicant :Jalandhar-Delhi G.T. Road, Phagwara, Punjab, India - 144411 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)JAIN, Pankaj Address of Applicant :Jalandhar-Delhi G.T. Road, Phagwara, Punjab, India - 144411 -----</p> <p>2)AKHTAR, Nahid Address of Applicant :Jalandhar-Delhi G.T. Road, Phagwara, Punjab, India - 144411 -----</p> <p>3)JOSHI, Amit Address of Applicant :Jalandhar-Delhi G.T. Road, Phagwara, Punjab, India - 144411 -----</p> <p>4)KAUSHIK, Vikas Address of Applicant :Jalandhar-Delhi G.T. Road, Phagwara, Punjab, India - 144411 -----</p>
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(57) Abstract :

A computer implemented method (300) for developing an epitope-based peptide vaccine against a Canine Circovirus, wherein the method (300) comprising steps of: retrieving protein sequences of capsid and replicase proteins of the Canine Circovirus; determining immunogenic parameters of the retrieved protein sequences; predicting epitopes of the retrieved protein sequences; selecting one of the predicted epitopes comprising a first peptide sequence of CIAFKEFDYETGRQL, a second peptide sequence of CDPLQDRSSRSFNM, a third peptide sequence of RVRRHARASRRSYRC, a fourth peptide sequence of QVDQRGRDSRRGNPC and a fifth peptide sequence of LGGRGHFEPARGDDC; determining a secondary and tertiary structure of the selected epitopes; docking the secondary structure and the tertiary structure of the selected epitopes with canine Toll-like receptors-2 and Major Histocompatibility Complex Class-I; and developing the epitope-based vaccine comprising a final peptide sequence with the selected epitopes such that the final peptide sequence is linked with adjuvants, GPGPG linker sequences and Pan-DR Epitope sequences.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049270 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MICROSTRIP PLANAR ANTENNA FOR WIRELESS COMMUNICATION

(51) International classification :H01Q0021000000, H01Q0009040000, H01Q0001380000, H01Q0021060000, H01Q0001240000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

A microstrip planar antenna (100) comprising:a ground plane (102) to provide a support to the microstrip planar antenna (100);a Printed Circuit Board (PCB) substrate (104) having a dielectric constant of 2.2 and a loss tangent of 0.009, wherein the Printed Circuit Board (PCB) substrate (104) comprises a 44 array of patch elements (106a-106n) configured to resonate over a pre-determined frequency ranging from 12.1 Gigahertz (GHz) to 13.05 Gigahertz (GHz); and a corporate feed network (108) having a transmission feed line (110) of a pre-defined length, wherein the corporate feed network (108) is configured to feed the 44 array of patch elements (106a-106n) to achieve an operating bandwidth of 950 Megahertz (MHz) and a gain of 18 decibels relative to isotropic(dBi).

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049404 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL SPARY FOR INCREASING POD LENGTH IN BRASSICA SPS

(51) International classification :A01H0005100000, B05B0009080000, G01S0019250000, C07C0049255000, C05F0011000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention is about a novel spray for increasing the pod length of Brassica sps. The said invention is advantageous due to its easy applicability and cost effectiveness. The spray is environment friendly and does not generate chemical waste as coming from insecticides or herbicides.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049405 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL NEUTRACEUTICAL RICH SPICY CHOCOLATE AND METHOD THEREOF

(51) International classification :A61K0036540000, A61K0036185000, A61K0036670000, A01N0065080000, A23L0033175000

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

(87) International Publication No : NA

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

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

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Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----

(57) Abstract :

The present disclosure relates to method of nutraceutical rich spicy chocolate. The said preparation has cinnamon (Cinnamomum zeylanicum), nutmeg (Myristica fragrans), bay leaf (Cinnamomum tamala) powder, black pepper (Piper nigrum) powder in different quantities. The process of invention comprises of process of making said invention for the final usage. This invention has antioxidant, anti-inflammatory and antibacterial properties. It will help prevent diseases like respiratory disease, heart disease and cancer. It will be economically cost effective.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049406 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL IMMUNITY BOOSTING PAAN AND METHOD THEREOF

(51) International classification :A61K0036810000, A61K0036590000, A61K0036670000, A61K0036540000, A61K0036480000

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

(87) 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 :

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(57) Abstract :

The present disclosure relates to method of preparation of novel immunity boosting paan. The said preparation has medicinal ingredients like betel leaves (Piper betle), cardamom (Elettaria cardamomum), Tulsi (Ocimum tenuiflorum), mint (Mentha spicata), Gulkand, Katha (Senegalia catechu), eugenol, cinnamon (Cinnamomum zeylanicum), mulethi (Glycyrrhiza glabra), giloy (Tinospora cardiofolia), ashwagandha (Withania somnifera), and fennel seeds (Foeniculum vulgare) in different quantities. The process of invention comprises of preparation of raw materials and the process of making paan for the final usage. This invention will improve the immunity. It will be economically cost effective.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049409 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL SPARY FOR INCREASING LEAF INHORDEUM VULGARE

(51) International classification :A01H0005100000, B05B0009080000, G01S0019250000, C07C0049255000, C05F0011000000

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

(87) 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 :

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(57) Abstract :

The present invention is about a novel spray for increasing the pod length of Brassica sps. The said invention is advantageous due to its easy applicability and cost effectiveness. The spray is environment friendly and does not generate chemical waste as coming from insecticides or herbicides

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049412 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A HERBAL JAM AND METHOD THEREOF

(51) International classification :A23L0033105000, A61K0036420000, A61K0009000000, A61K0036000000, A23L0027120000

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

(87) 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 :

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(57) Abstract :

The present disclosure relates to method of herbal pasta. The invention comprises of removal of bitterness from the bitter gourd, preparation of syrup, addition of pectin, addition of herbal ingredients to syrup, and cooking the prepared mixture. These herbs are used for their medicinal properties anti-oxidants properties, anti-inflammatory, antihypercholesterolemic activities. This invention has also claimed to improve eye sight and increase the immunity. This invention will be very cost effective and tasty.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049413 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A MACHINE LEARNING BASED REAL-TIME MONITORING SYSTEM OF INSECTS INSIDE A RICE CONTAINER

<p>(51) International classification :A47J0047060000, G06N0020000000, A47J0047040000, G08B0021020000, 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)Lovely Professional University Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144411 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Yasir Afaq Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>2)Rajesh Singh Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>3)Anita Gehlot Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>4)Shaik Vaseem Akram Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>5)Lovi Raj Gupta Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>6)Navjot Rathour Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>7)Nitin Gupta Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>8)Aman Singh Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>9)Divya Anand Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p>
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(57) Abstract :

The present disclosure herein is a machine based real-time monitoring system to detect insects inside the rice container by prevention of loss or damage . The real-time monitoring system maintains the quality of the rice by immediately generating an alert to the user authority application through a Wi-Fi module (104) via wireless communication. The machine learning algorithm classifies the quality of the rice based on the pre-processed data in the computing unit (101). The system is detachable and easy to install inside the rice container with less complexity .

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049414 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN INTELLIGENT MONITORING SYSTEM FOR DETECTION OF HAZARDOUS GASES INSIDE THE VEHICLE

<p>(51) International classification :H04L0029080000, H04N0007180000, H04W0004800000, B60N0002000000, G08B0013196000</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)Lovely Professional University Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144111 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Rajesh Singh Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>2)Anita Gehlot Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>3)Prabin Kumar Das Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>4)Lovi Raj Gupta Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>5)Namita Kaur Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p>
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(57) Abstract :

The present disclosure herein is an IoT based system to monitor for hazardous gases and other parameters inside the vehicle through customized mobile application. The system consists of a Vehicle Unit and a Digital Services in which the vehicle unit senses the various parameters inside the vehicle and the digital services establishes communication through customized IoT servers. The system provides remote access for real-time monitoring of the sensory data inside the vehicle . The system provides enhanced security of the data through encryption and decryption access through username and password. .

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049415 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL SPRAY TO REGULATE THE TOTAL LIPID CONTENT IN BRASSICA SPECIES AND PROCESS THEREOF

<p>(51) International classification :A61K0009000000, A61Q0019000000, A61K0036886000, A61K0008970000, A61K0009120000</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)Lovely Professional University Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India 144411 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SHARMA, Monika Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>2)KUMAR, Prasann Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>3)KAUR, Jaspreet Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p>
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(57) Abstract :

The present invention describes the novel spray to regulate the total lipid content in Brassica species and process thereof. Mustard contains an adequate concentration of secondary nutrient along with plant growth hormone can improve the growth, physiology and quality yield of the mustard crop. The novel spray is prepared to regulate the total lipid profile in Brassica species. This novel spray containing phytohormone cytokinin along with aqueous extract of Aloe vera gel has prepared to regulate the lipid profile in mustard plants.

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049416 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL SURFACE MODIFIED LIPID BASED NANO COMPOSITION OF 5-FLUOROURACIL

(51) International classification :A61K0009510000, A61K0009127000, A61K0009107000, A61K0009140000, B01J0013000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present disclosure relates to nanostructured lipid carriers (NLCs) comprising a combination of solid and liquid lipid with surfactants and co-surfactants. The disclosure further relates to processes for making the NLCs, compositions comprising the NLCs, methods of delivering the NLCs and route of administration of NLCs in diabetic nephropathy.

No. of Pages : 26 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049417 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL BIO-FERTILIZER TO ENHANCE ROOTING IN PLANTS AND PROCESS THEREOF

(51) International classification :A61K0008970000, A61K0036886000, A01G0024440000, A01H0004000000, A61K0008979400

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

(87) 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 :

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(57) Abstract :

The present invention describes the novel bio-fertilizer to enhance rooting in plants and process thereof. Synthetic plant hormones and chemicals possess several adverse effects on environment. Due to this, the use of such synthetic hormones is not recommended. Use of natural bio-fertilizer or natural rooting substance is a non-chemical method of propagation and also a cheaper alternative to synthetic rooting hormone. A novel bio-fertilizer has prepared with Aloe vera gel and Coconut water (Cocos nucifera) to enhance the rooting in plant. Aloe vera gel and coconut water used in the preparation of novel bio-fertilizer in the ratio of 1:1 for the effective enhancement of rooting as well shooting in plants.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049418 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL SPRAY TO ENHANCE THE TOTAL SOLUBLE SUGAR IN BARLEY CROPS AND PROCESS THEREOF

(51) International classification :C12N0015820000, A23L0033105000, A61K0036899800, C05F0011000000, C12Q0001684400

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention describes the novel spray to enhance the total soluble sugar in barley crops and process thereof. Barley (*Hordeum vulgare*) is one of the most important crops after rice and wheat produce all over the world and consumed by both human and animals. The aqueous solution of combination of Zn-EDTA (Zinc-Ethylenediaminetetraacetic acid) and synthetic plant growth hormone, kinetin is applied on the barley crop to enhance the total soluble sugar in the plant.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049419 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A WEARABLE DEVICE FOR VISION IMPAIRED USER NAVIGATION

(51) International classification :A61B0005024000, A61B0005145500, G06K0009000000, A61B0005000000, G02C0011000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present disclosure herein is a wearable device for vision impaired user which provides vision based assistance for navigation. The device is pr-programmed with object or facial recognition by Haar cascade algorithm which provides voice based assistance through feedback to the user for navigation in real-time. The Pulse Oximeter Heart Rate Sensor, detects and monitor the real-time pulse along with heart rate of the user at regular interval. The device establishes communication through Bluetooth module along with GSM/Wi-Fi module through internet for immediate assistance of nearby police station or ambulance. The device provides energy conservation through solar powered rechargeable batteries.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049420 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL SPRAY TO ENHANCE THE TEST WEIGHT OF MUSTARD PLANTS AND PROCESS THEREOF

<p>(51) International classification :A61Q0019000000, A01N0065000000, G01G0023010000, A61Q0005080000, A61K0008368000</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)Lovely Professional University Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India, 144411 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)KUMARI, Poonam Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>2)KUMAR, Prasann Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p> <p>3)KAUR, Jaspreet Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. -----</p>
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(57) Abstract :

The present invention describes the novel spray to enhance the test weight of mustard plants and process thereof. The combination of micro-nutrients along with the salicylic acid can lead to an improvement in the crop production. To enhance test weight of mustard plant, combination of salicylic acid and nano iron EDTA is applied in the field with the help of foliar spray and the treatment gives excellent result in terms of the test weight of plant.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049422 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL GLUTEN-FREE HERBAL PASTA AND METHOD THEREOF

(51) International classification :A23L0007109000, A61K0009000000, A61K0009200000, A61K0038480000, A61K0036000000

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

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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(57) Abstract :

The present disclosure relates to method of gluten free herbal pasta. The invention comprises of preparation of herbal extract and procedure for the making of gluten free pasta. These herbs are used for their medicinal properties like anti-oxidants and anti-inflammatory. These herbs are very beneficial in celiac diseases. These herbs will improve the digestive capacity of the preparation. The usage of the herbs will enhance the taste of the preparation and it will be very cost effective.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049423 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL FERMENTED NARUNEENDI FLAVOURED WHEY BASED JELLY AND METHOD THEREOF

(51) International classification :A23C0021020000, A23L0033190000, A61K0035200000, A23C0021080000, A23C0021000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present disclosure relates to method of preparation of fermented naruneendi flavoured whey based jelly. The invention uses the fermented Whey jelly and is an innovative product in food industry. In our invention there is the proper use of whey after curdling of milk. The nutritional quality of the whey is increased in our invention. The fermented naruneendi flavored jelly can be more nutritious and health beneficial as well. It will be very cost effective

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049424 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL EDIBLE PACKAGING AND METHOD THEREOF

(51) International classification :B65D0065460000, A23P0020100000, A23L0029000000, A23L0033105000, A01N0033120000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present disclosure relates to method of nutraceutical rich spicy chocolate. The said preparation has cellulosic waste, aloevera, rose, plasticizer and distilled water. The process of invention comprises of process of making said invention for the final usage. This invention has antimicrobial property. Cellulose based film will help in conversion of waste into edible form. It will improve as well as maintain the food quality for longer time. It will boost the digestion and increase the metabolism. It will boost the immunity by providing protection to food from microbes. It will be economically cost effective

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049425 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL HERBAL COMPOSITION FOR INFLAMMATORY BOWEL DISEASE

(51) International classification :A61K0036810000, A61K0036324000, A61K0036470000, A61K0036328000, A23L0033105000

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

(87) 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 :

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(72)Name of Inventor :

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(57) Abstract :

The present disclosure relates to herbal composition for the treatment of inflammatory bowel disease. The invention comprises of extracts of bhumi amla (Phyllanthus niruri), Ashwagandha root (Withania Somnifera), Salai guggul (Boswellia serrata) and curcumin in definite quantities. These extracts are used for their strong anti inflammatory properties. The invention will also be useful as anti-oxidant, immunity booster and for improving skin and hair health and improves mental health. This invention is very cost effective.

No. of Pages : 8 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049426 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL HERBAL HEALTHY DRINK FOR HIGH CHOLESTEROL AND METHOD THEREOF

(51) International classification :A61K0036906800, A61K0036896200, A61K0036185000, A61M0001100000, A61M0001120000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present disclosure relates to herbal composition for the management of high cholesterol. The invention comprises of herbs like Arjuna bark (Terminalia arjuna), Pepal leaf (Ficus religiosa), Garlic (Allium sativum), Ginger (Zingiber officinale), Lemon (Citrus limon), Dalchini (Cinnamomum verum). The preparation will detox bad cholesterol from the human body as a result heart will pump fresh and healthy blood. It will boost human cardiovascular system as a result human / individual will live long and more proudful as well as fruitful life.

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049427 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL HERBAL COMPOSITION FOR ANTICANCER ACTIVITY

(51) International classification :A61K0036540000, A23L0033105000, A61K0031704800, A61K0036185000, A61P0035000000

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

(87) 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 :

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(72)Name of Inventor :

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(57) Abstract :

The present disclosure relates to a novel herbal composition for the anticancer activity. The aqueous cinnamon extract (*Cinnamomum zeylanicum*) is explored for the presence of procyanidins oligomers that have the said activity. The aqueous extract of cinnamon contains bioactive components that have a significant protective effect in cancer and inflammatory conditions. The green extraction methods are being explored and adapted as they are environment-friendly and safe for preparing this said composition.

No. of Pages : 8 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049428 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL GALACTOGOGUE GUMMIES AND METHOD THEREOF

(51) International classification :A61K0045060000, A61K0009000000, A23L0033150000, A23L0033105000, A61K0036732000

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

(87) 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 :

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(57) Abstract :

The present disclosure relates to composition and method of preparation of galactagogue gummies with herbal drugs. The invention comprises of preparation of juice of papaya leaves (Carica papaya) and procedure for the making of gummies for promoting lactation. These herbs are used for their other medicinal properties like anti-oxidants, anti-inflammatory, antimicrobial and immunomodulatory. These herbal gummies will improve the overall health of the lactating mother and very easy to use and cost effective.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049464 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AUGMENTED COMMUNICATION ASSISTANCE SYSTEM FOR VISUALLY IMPAIRED

(51) International classification :G09B0021000000, G02B0027010000, G10L0015260000, A61H0003060000, G06Q0030060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An augmented communication assistance system for visually impaired includes, a headpiece 1 worn by visually impaired user, wherein the headpiece 1 employed with imaging unit 2 for detecting presence of an obstacle in front of user, a microphone 3 coupled with a speech conversion module converting speech to text data, a microcontroller fetches information from a server based database for confirming availability/ costing information based on output generated by the module and generating a personalized list of products based on availability and storage location within the store, a set of gloves 6 integrated with a self-maneuvering member having reaction wheels 7 to guide hand movements by maintaining inertia in a specific direction in correlation with information provided by a navigation module and a speaker 4 with RFID reader 5 attached on the headpiece for capturing and communicating data encrypted in RFID tags of products to the user.

No. of Pages : 21 No. of Claims : 8

(54) Title of the invention : FLEXIBLE ANTENNA STRUCTURE AND ELECTRONIC DEVICE

	<p>(71)Name of Applicant : 1)Etheta Communication Technology (Shenzhen) Co., Ltd Address of Applicant :Floor 4, Independent Building, No 6, Zhangfeng Rd,Oriental Community, Songgang St., Bao'an District,Shenzhen City, Guangdong Province, China ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Huan-Chu Huang Address of Applicant :13F, No. 33, Nanchang Road, Luju District, Taoyuan City, Taiwan 338 ----- 2)Dasong Gao Address of Applicant :Floor 4, Independent Building, No 6, Zhangfeng Rd,Oriental Community, Songgang St., Bao'an District,Shenzhen City, Guangdong Province 518000 ----- ----- 3)Zhixing Qi Address of Applicant :Floor 4, Independent Building, No 6, Zhangfeng Rd,Oriental Community, Songgang St., Bao'an District,Shenzhen City, Guangdong Province 518000 ----- ----- 4)Hong Lin Address of Applicant :Floor 4, Independent Building, No 6, Zhangfeng Rd,Oriental Community, Songgang St., Bao'an District,Shenzhen City, Guangdong Province 518000 ----- ----- 5)Yanchao Zhou Address of Applicant :Floor 4, Independent Building, No 6, Zhangfeng Rd,Oriental Community, Songgang St., Bao'an District,Shenzhen City, Guangdong Province 518000 ----- -----</p>
<p>(51) International classification :H01Q0001220000, H01Q0001240000, H05K0001020000, H01Q0001380000, H01Q0001360000</p> <p>(31) Priority Document No :202111140115.7</p> <p>(32) Priority Date :28/09/2021</p> <p>(33) Name of priority country :-----</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>	

(57) Abstract :

The present disclosure discloses a flexible antenna structure and an electronic device having the same. The flexible antenna structure includes a flexible printed circuit board, a mm-Wave antenna disposed on the flexible printed circuit board and conformal with the flexible printed circuit board, and a non-mm-Wave antenna disposed on the flexible printed circuit board and conformal with the flexible printed circuit board. Compared with the existing art, by means of the flexible antenna structure provided with the mm-Wave antenna and the non-mm-Wave antenna on the flexible printed circuit board, the present disclosure realizes integration of the mm-Wave antenna and the non-mm-Wave antenna, solves a challenge of numerous antennas in the electronic device, and realizes conformation with a bent part of a shell 1, thereby increasing the space utilization rate in a limited space. Furthermore, the overall size and cost cannot be increased, thus improving the competitiveness of a product.

No. of Pages : 100 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114048880 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR STARTING APPLICATION INTERFACE, AND RELATED DEVICE

(51) International classification	:G06F0003048100, G06F0003048800, G06F0009445000, H04N0021443000, G06F0009451000	(71) Name of Applicant : 1)AUTOCHIPS INC. Address of Applicant :10F BUILDING A3, INNOVATION INDUSTRIAL PARK, NO. 800 WEST WANGJIANG ROAD, HEFEI, ANHUI, CHINA -----
(31) Priority Document No	:202110240904.1	Name of Applicant : NA
(32) Priority Date	:04/03/2021	Address of Applicant : NA
(33) Name of priority country	:-----	(72) Name of Inventor :
(86) International Application No	:NA	1)WANG, LIANGFU
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(87) 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 application provides a method for starting an application interface, and a related device. The method includes: creating an activity responsible for starting an application, wherein an activity responsible for starting a quick start application is empty or arbitrary; responding to that a desktop application receives a first trigger instruction for an icon, skipping calling an activity responsible for starting the quick start application corresponding to the icon, and directly calling a cross-process communication interface of the quick start application corresponding to the icon to superimpose a floating window on a current screen and make the floating window display interface content of a current application. By the above method, the present application can reduce time to start the application interface, and does not need to modify a code of a Launcher for managing an App icon.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117024467 A

(19) INDIA

(22) Date of filing of Application :01/06/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : OPTICAL SYSTEMS WITH AUTHENTICATION AND PRIVACY CAPABILITIES

(51) International classification	:G02B0027010000, G06K0009000000, G02B0006120000, H04N0005225000, G06F0003010000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, CA 95014 ----- Name of Applicant : NA Address of Applicant : NA
(31) Priority Document No	:63/000650	(72) Name of Inventor :
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(86) International Application No	:PCT/US2021/020321	2)PFEIFFER, Jonathan, B.
Filing Date	:01/03/2021	Address of Applicant :One Apple Park Way Cupertino, CA 95014 -----
(87) International Publication No	:WO 2021/194698	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A head-mounted electronic device may include a display with an optical combiner. The combiner may include a waveguide with first and second output couplers. The first output coupler may couple a first portion of image light at visible wavelengths out of the waveguide and towards an eye box. The second output coupler may couple a second portion of the image light at near-infrared wavelengths out of the waveguide and towards the surrounding environment. The second portion of the image light may include an authentication code that is used by a secondary device to authenticate the head-mounted device and/or may include a pattern that serves to prevent camera equipment in the surrounding environment from capturing accurate facial recognition information from a user while wearing the head-mounted device.

No. of Pages : 35 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117048729 A

(19) INDIA

(22) Date of filing of Application :25/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SPLIT-SCREEN PLAYBACK METHOD AND APPARATUS FOR SCREEN-LOCKED VIDEO, DEVICE, AND STORAGE MEDIUM

(51) International classification :H04N0021234300,
G09G0003340000,
H04N0021442000,
H04N0021845000,
H04N0007180000

(31) Priority Document No :201910374011.9

(32) Priority Date :07/05/2019

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

(86) International Application No :PCT/CN2020/079995
Filing Date :18/03/2020

(87) International Publication No :WO 2020/224337

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

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

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(57) Abstract :

The present invention provides a split-screen playback method and apparatus for a screen-locked video, a device, and a storage medium. The method comprises: monitoring whether a screen enters a screen-locked state; upon monitoring that the screen enters a screen-locked state, obtaining at least two video files; and respectively playing the video files on different display areas of the screen, wherein the number of the display areas is consistent with the number of the video files. The present invention can implement split-screen playback of a screen-locked video without changing hardware of a terminal, thereby effectively improving the playback efficiency of the video, facilitating popularization and application, and implementing good user experience.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : FOLDABLE ELECTRIC SCOOTER

(51) International classification :B62K0003000000, B62K0015000000, B62B0001000000, B62M0007120000, B62B0003020000

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

(87) International Publication No : NA

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

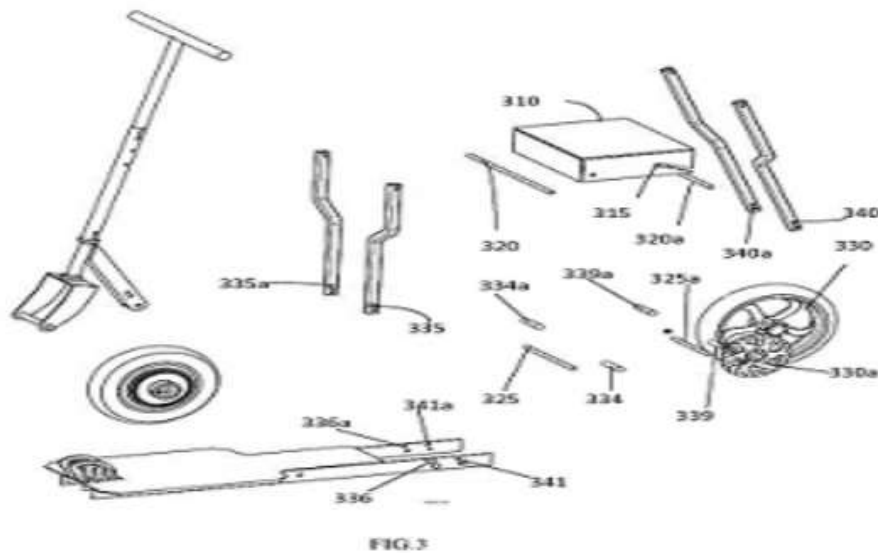
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Abstract FOLDABLE ELECTRIC SCOOTER Disclosed is a foldable electric scooter allowing the user to fold and unfold the scooter easily. The scooter has plurality of pivot points and respective links to sustain the foldable electric scooter in unfolded position. The scooter has pair of removable pins that are inserted at the respective holes to sustain the links of the scooter in unfolded position. The removal of these pins provides easement in folding the scooter about the plurality of pivot points. The seat of the scooter askew in folded position to increase compactness of the scooter. FIG. 3 (for publication)



No. of Pages : 33 No. of Claims : 20

(54) Title of the invention : GRIP APPLICATOR

(51) International classification :A63B0060140000, A63B0060160000, B01D0046000000, A45B0009000000, B23K0026080000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

A grip applicator 100 for positioning a grip over handle of a bat is disclosed having a tubular member 101, an upper grip lock 107, and a lower grip lock 108. The tubular member 101 has an upper tubular portion 102, a lower tubular portion 103, a hollow interior 104 and an outer tubular surface 106. The upper grip lock 107 is integrally attached at the upper tubular portion 102, and is adapted to prevent a rolled grip from being unrolled in an upward direction. The lower grip lock 108 is integrally attached at the lower tubular portion 103, and is adapted to releasably hold the rolled grip over the outer tubular surface 106 and allow the rolled grip to be unrolled in a downward direction beyond the lower grip lock 108. A length of the grip applicator 100 is substantially less than length of the grip or length of the handle.

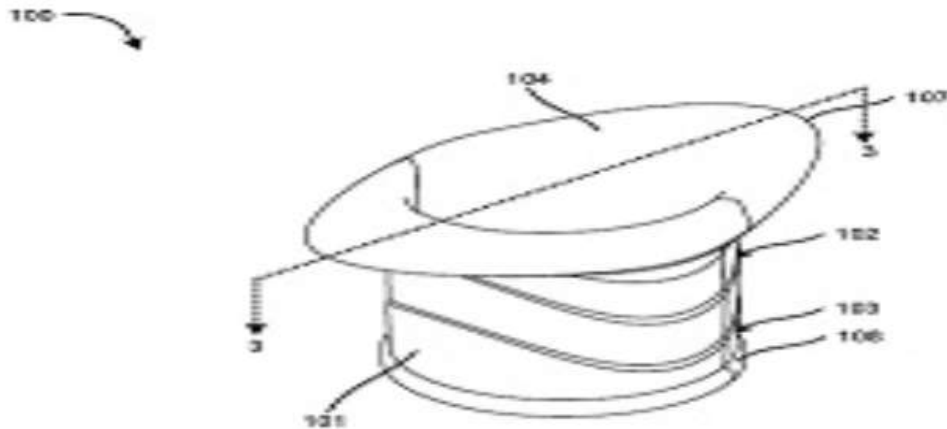


FIG. 1

No. of Pages : 31 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021045725 A

(19) INDIA

(22) Date of filing of Application :20/10/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : A PROCESS FOR THE PREPARATION OF CHLORANTRANILIPROLE

(51) International classification :A01N0043560000, C07D0401040000, C07C0231120000, C25D0005340000, C07C0051410000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A PROCESS FOR THE PREPARATION OF CHLORANTRANILIPROLE The present disclosure relates to a process for the preparation of Chlorantraniliprole. The process of the present disclosure is carried out at an ambient temperature by using an inorganic base which can be easily separated. The process is simple, efficient, environment friendly, and provides Chlorantraniliprole with high purity and high yield.

No. of Pages : 19 No. of Claims : 13

(54) Title of the invention : A DIRT INGRESS SEAL

(51) International classification :H04N0017000000, H01R0013520000, H04N0007100000, F16C0033800000, F16D0025080000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
 ABSTRACT A DIRT INGRESS SEAL The present disclosure is related to a dirt ingress seal (100) for shock absorbers and front forks. The dirt ingress seal comprising a first lip (102a) that isolates the internal space of the seal (100) from the atmosphere and external environment; first ribs (105a) formed on the inner side of the circumferential surface of the dirt ingress seal (100), the first ribs (105a) formed near the first lip (102a); a second lip (102b) provided on the inner circumferential portion near the central region of the dirt ingress seal (100); second ribs (105b) defining cavities; and cavities defined by the first ribs (105a). The cavities are configured to arrest and trap mud, dust, dirt, and particulate matter entering the sealed zone and preventing further ingress of abrasive particles into the seal zone. The seal (100) increases the sealing effectiveness and useful life of seals, shock absorber, and front forks.

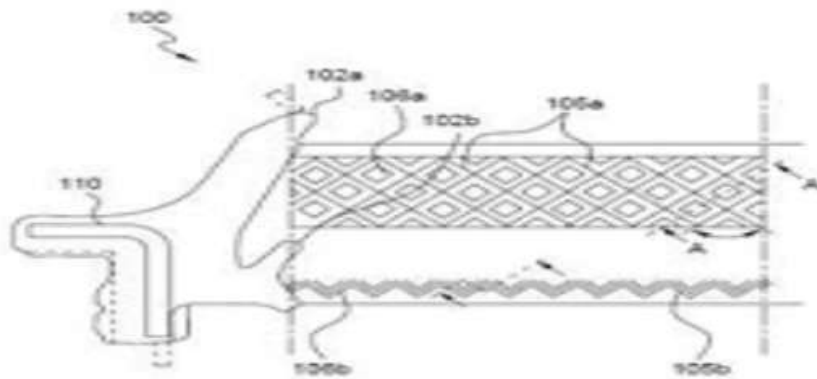


Figure 2A

No. of Pages : 21 No. of Claims : 11

(54) Title of the invention : DEVICE FOR CONVERSION OF BIOMASS WASTE INTO VALUE ADDED PRODUCTS

(51) International classification :B01J0019080000, C08H0008000000, B09B0003000000, C13K0013000000, C12M0001107000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention relates to device for conversion of biomass waste into value added products. More specifically, the present invention provides a novel device for conversion of biomass waste into value added products comprising of carrier gas cylinder, rotameter, gas pre-heater, perforated tube, electrically heated vessel, shell and tube heat exchanger, gas impinger, soap film meter. The present invention also provides simple, efficient, low cost and reliable method of thermo chemical reaction for conversion of biomass waste into valuable products.

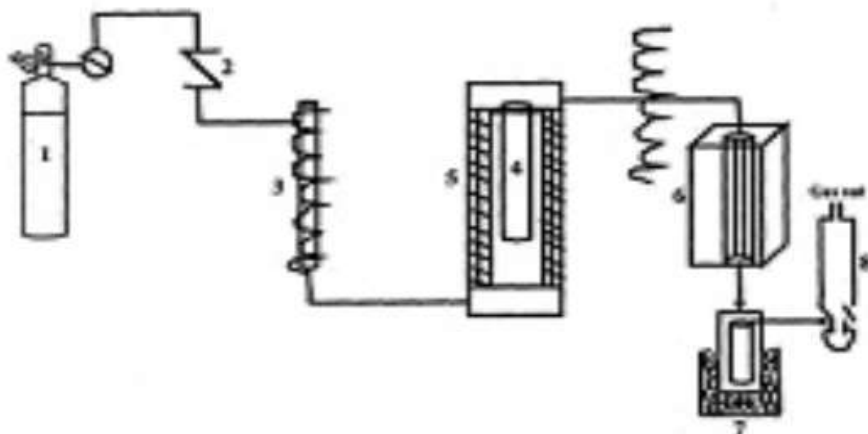


Figure 1

No. of Pages : 11 No. of Claims : 10

(54) Title of the invention : WIND ENERGY BASED AIR PURIFICATION APPARATUS WITH CONTINUOUS DRIVE

(51) International classification :F03D0003060000, B01D0046000000, E05F0015608000, B63J0003040000, F03D0009250000

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

(87) International Publication No : NA

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

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

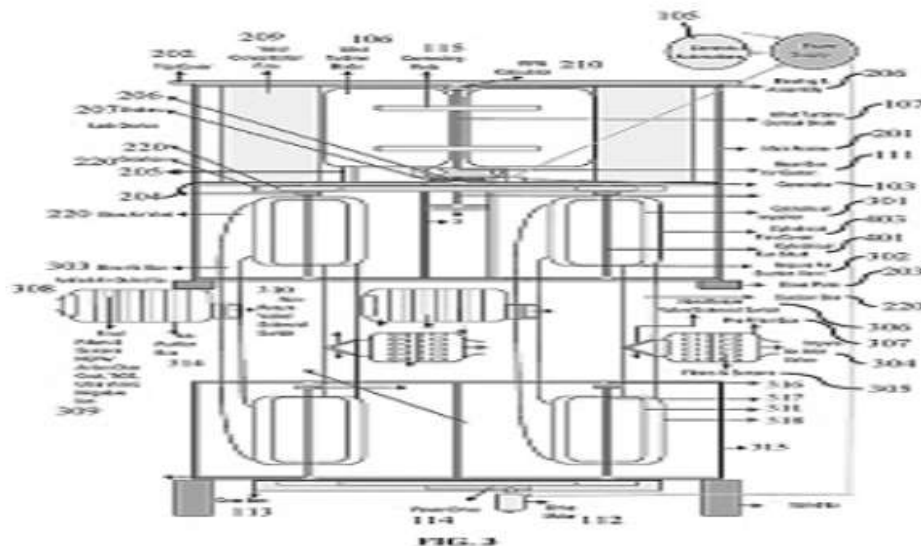
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(57) Abstract :

The present invention provides an air purification apparatus with continuous operation mechanism. The apparatus comprises a wind turbine unit, a filtration unit, a generator unit, an electrical drive unit and a monitoring and control unit (MCU). The wind turbine unit is a vertical axis wind turbine and comprises a plurality of blades connected to a central shaft. The filtration unit comprises a first set of slave gears connected to an impeller further connected to a blower unit and a suction unit. The first set of gears are driven by a central gear provided on a toe end of the central shaft. The generator unit is connected to the central shaft through an intermediate gear. The electrical drive unit comprises an electrical motor connected to a second set of slave gears through an electric drive shaft. The MCU is connected to the generator unit and comprises a plurality of sensors.



No. of Pages : 25 No. of Claims : 14

(54) Title of the invention : AUTONOMOUS VEHICLE DRIVING AND TRAFFIC SIGN IDENTIFICATION BASED ON DEEP LEARNING MODELS

<p>(51) International classification :G06K0009000000, G01C0021340000, H04N0005232000, G06N0003080000, G01C0021360000</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)Pankaj Pandey Address of Applicant :Assistant Professor, CSE, Oriental Institute of Science and Technology, Bhopal, Madhya Pradesh, India ----- 2)Atul Barve 3)Sreeja Nair 4)Dr Sanjay Kumar Sharma 5)Harita Bhargava 6)Jayant Shukla Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Pankaj Pandey Address of Applicant :Assistant Professor, CSE, Oriental Institute of Science and Technology, Bhopal, Madhya Pradesh, India ----- 2)Atul Barve Address of Applicant :Associate Professor CSE, Oriental Institute of Science and Technology, Bhopal, Madhya Pradesh, India ----- 3)Sreeja Nair Address of Applicant :Associate Professor, CSE, Oriental Institute of Science and Technology, Bhopal, Madhya Pradesh, India ----- 4)Dr Sanjay Kumar Sharma Address of Applicant :Associate Professor, CSE, Oriental College of Technology, Bhopal, Madhya Pradesh India ----- 5)Harita Bhargava Address of Applicant :Assistant Professor, CSE, Oriental Institute of Science and Technology, Bhopal, Madhya Pradesh India ----- 6)Jayant Shukla Address of Applicant :Associate Professor, EC, Corporate Institute of Science and Technology Bhopal, Madhya Pradesh, India -----</p>
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(57) Abstract :

Abstract Autonomous Vehicle driving and traffic sign identification based on deep learning models The present invention relates to the field of vehicle automation. With the increasing use of sensor-based technology and machine learning models, there is a need of more reliable and efficient vehicle automation for autonomous vehicle driving and traffic sign identification using deep learning model. The present invention mainly solves the problem in prior art. The system comprises a server equipped with deep learning model; a GPS system, a video camera system and various advanced sensors installed in the vehicle; identifying, by the GPS system, the route and location of the vehicle; determining, by the deep learning model, whether the vehicle is moving to the pre-captured route or the new route; if the identified route is pre-captured route, drive the vehicle in driver assistance mode else drive the vehicle in capturing mode; capturing images/videos continuously of the route and the vehicle conditions like steering angle, brake assist, vehicle acceleration and clutch position through various sensors; sending the captured data to deep learning model on server OTP; linking the captured images with the vehicle conditions at particular point of time for whole route; identifying and classifying the traffic signs along with location of the vehicle in the captured images; linking the action according to the identified traffic sign with the location and route of the vehicle. Further, if the vehicle video capturing system identify any unknown object on the pre-captured route, then classify the identified object and determine the action other vehicle taken for classified object and location and act accordingly. [To be published with figure 1]

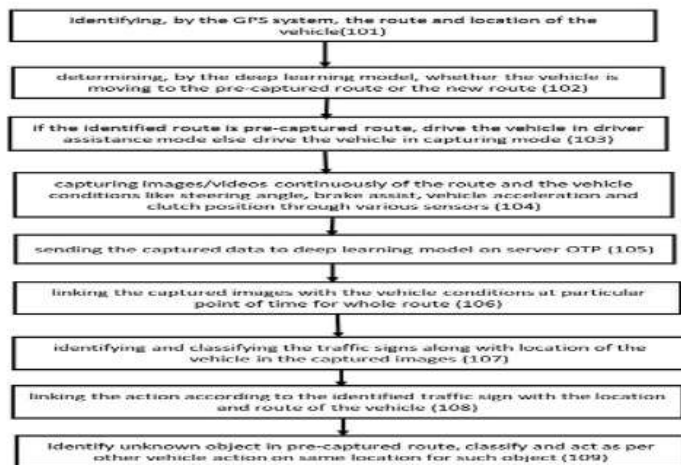


FIG. 1

(54) Title of the invention : FORMULATION AND EVALUATION OF NUTRACEUTICAL CAPSULE USING NATURAL EXTRACT OF CUCUMIS SATIVUS AND SOLANUM LYCOPERSICUM

(51) International classification :A23L0033105000, A61K0009480000, A23P0010300000, A61K0031355000, A61K0031714000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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8)Seema U. Shinde
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(57) Abstract :
The present invention relates to the formulation and evaluation of the capsule with natural extract of Cucumis sativus L. and solanum lycopersicum L. Nutraceuticals are made up mostly of nutrients, herbs and supplements, which help to preserve health, fight disease and improve overall quality of life. Nutraceutical term has ushered in a new era of medicine and health, with food industry becoming research driven sector. Isolated nutrients, herbal products, processed meals and dietary supplements in powder, capsules, tablet and other forms are all examples of nutraceuticals. The production of nutraceuticals into capsule should be carried out under strict supervision. Natural extract of solanum Lycopersicum L. and Cucumis Sativus were combined and loaded into capsules to form nutraceutical capsules. Several evaluation parameters like weight variation test, disintegration test, Phytochemical screening analysis, antioxidant test and stability study have been performed.

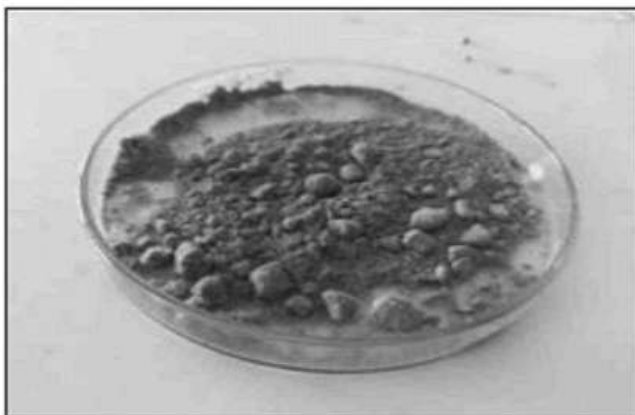


Figure 1

(54) Title of the invention : FOLDABLE WALKWAY PAVEMENTS SYSTEM FOR DIFFERENT TYPES OF WALKS

(51) International classification :E02F0003300000, A62B0001100000, H02G0001040000, A43C0011160000, H01R0012730000

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

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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(57) Abstract :
 A foldable walkway pavements system (100) for different types of walks comprising plurality of pavement (100A) connected to each other using the rope/wire (109), (109A); side jointers (106), (106A) and lower U shaped jointner (128). The system (100) pavement base assembly (123) having right side female jointner port of pavement (101), left side female jointner port of pavement (101A); left side rope female port of the pavement assembly (102), right side rope female port (102A); upper locking part (111); upper expanded part of the pavement plate (110B); left spring (123A); right spring (123B); pavement base part (123C); pavement plate extended part (124A); wherein both springs (123A) (123B) are fixed in the pavement assembly. A rope female port with tightening system (102B)(102C) of the pavement assembly having a rope/wire tightening system (102B), (102C) on both ends. When the assemblies are joined to each other using a rope tightening system fixed on the rope and tight it.

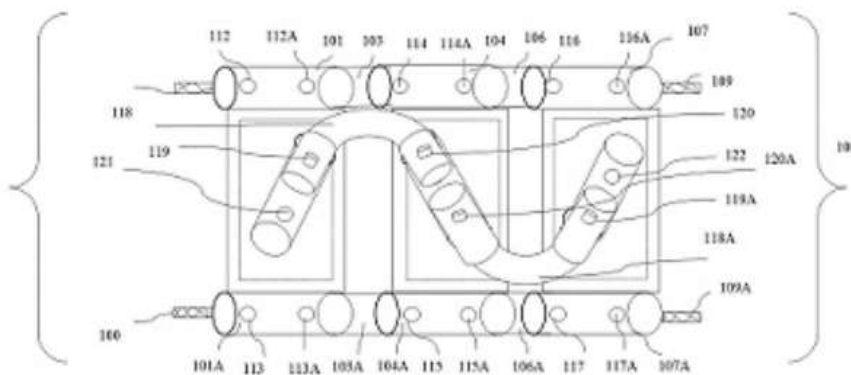


Figure 2

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

(54) Title of the invention : A SYSTEM AND A METHOD FOR ENABLING PULSE BASED DIAGNOSIS

(51) International classification :A61B0005000000, G16H0050200000, A61B0005145500, H04L0012240000, H04L0029080000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

A system (10) for enabling pulse-based diagnosis is disclosed. The system includes an internet of things (IoT) based monitoring device (20). The IoT based monitoring device includes sensors to sense vital parameters of patients. The system includes a processing subsystem (40). The processing subsystem includes a registration module (70) to register the patients. The processing subsystem includes a parameter processing module (90) to filter the vital parameters into a structured format of vital parameter data. The processing subsystem includes a diagnostic module (100) to select optimal features from the structured format of the vital parameter data to obtain attribute metric. The diagnostic module is to evaluate the attribute metric of the optimal features. The diagnostic module is to compare the attribute metric with corresponding historical attribute metric records. The diagnostic module is to identify medical conditions of the patients. The processing subsystem includes a dietary recommendation module (110) to identify dietary habit of the patients. The dietary recommendation module (110) is to provide dietary recommendations to the patients. FIG. 1

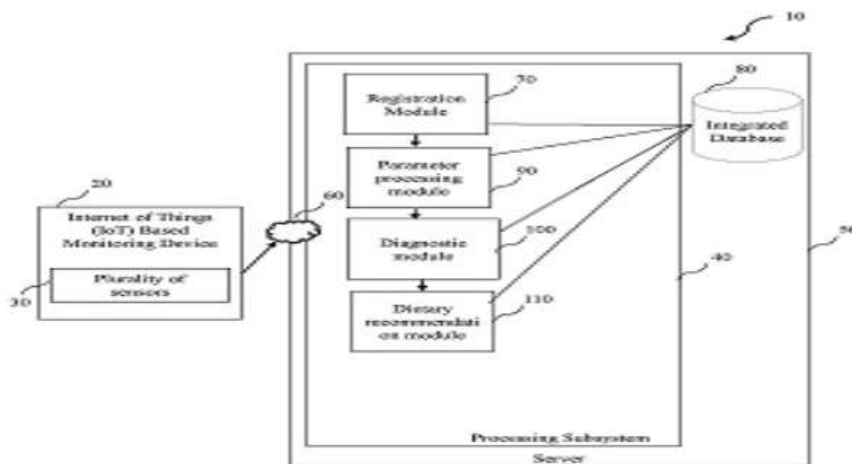


FIG. 1

(54) Title of the invention : SYSTEM AND METHOD FOR ACCESS MANAGEMENT IN AN ORGANIZATION

(51) International classification :H04L0029060000, G06F0021620000, G06F0021310000, G06Q0010060000, G06F0021330000

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

(87) International Publication No : NA

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

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

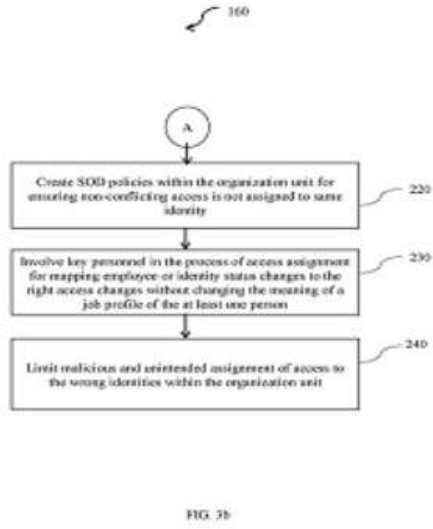
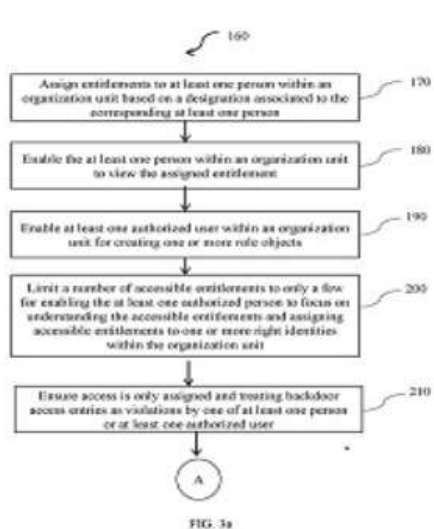
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(57) Abstract :

System and method for access management in an organization are provided. The method includes restricting users from operating unsolicited data associated to the organization; identifying violation points by the users within the organization based on violation of policies; identifying one of illegitimate assignments or back door entry access assignments; detecting one or more parameters associated with a status of the corresponding users; restricting access of data associated with the authorized entities, to the users, based on organization hierarchy; generating a score representative of a criticality level of the access of data of at one of the organization; granting an access to the user, the authorized entities, to access the data associated to the organization; revoking an access of the user, the authorized entities, upon accessing the data associated to the organization upon execution of a pre-set instructions. FIGs. 3a and 3b



No. of Pages : 40 No. of Claims : 7

(54) Title of the invention : A MECHANISM FOR DYNAMIC LOAD MEASUREMENT AND OVERLOAD PROTECTION OF A GEARBOX

(51) International classification :G01L0003160000, G01G0023000000, G01G0019080000, G01L0003040000, G01L0025000000

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

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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(57) Abstract :

A mechanism for dynamic load / torque measurement and overload protection of a gearbox is disclosed. The mechanism includes a shaft mounted gearbox (20) to enable mechanical power transmission from a prime mover (10) to a driven equipment. The mechanism includes a torque arm (50) coupled to the casing of the shaft mounted gearbox. The torque arm is to secure the casing of the shaft mounted gearbox to a rigid frame (60) to prevent the motion of the casing of the shaft mounted gearbox. The mechanism includes a load cell (40) mounted in between the rigid frame and the torque arm. The load cell is to measure the force transmitted by the torque arm to the rigid frame which is proportional to the reaction torque. The mechanism includes an electronic control module operatively coupled to the load cell. The electronic control module is to receive the force measurement from the load cell, display it dynamically, compare it with a predefined limit and disengage the prime mover from the shaft mounted gearbox when the force transmitted by the torque arm is above the predefined limit. FIG. 1

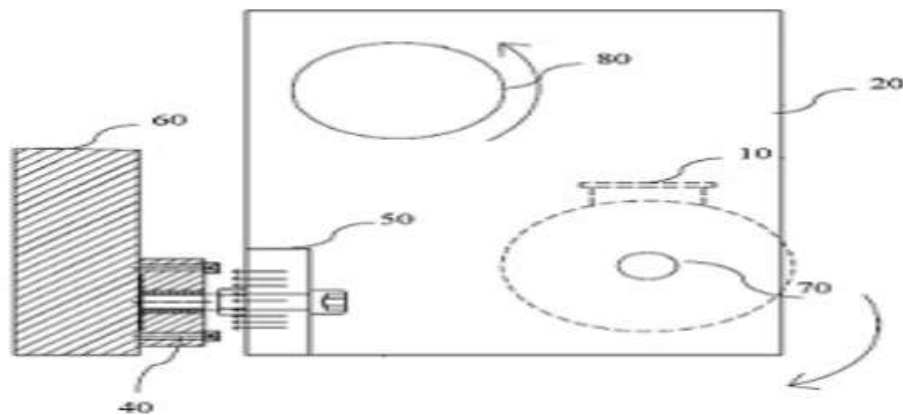


FIG. 1

No. of Pages : 14 No. of Claims : 11

(54) Title of the invention : HIGH-DENSITY, LOW-POWER NEAR-SUBTHRESHOLD CNTFET BASED 10 TRANSISTOR SRAM CELL

(51) International classification :H01L0027110000, G11C0011412000, B82Y0010000000, H01L0029100000, G11C0011160000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
 A10T (transistor) SRAM cell with 16nm CNTFET based read ports to reduce data-dependent read port leakage. The 10T SRAM with 16nm CNTFET provides enhanced read and write operation simultaneously at low supply voltage near the sub-threshold region due to improved read-write port. The 10T SRAM cell with 16nm CNTFET based read ports enable 1k cells/RBL (read-bit-line); improves read performance; reduces area; improved memory architecture design and reduce power consumption. The present CNTFET based transistors of 10T SRAM cell of the present invention achieves better power consumption, read and write delays, and better read SNM (RSNM) and write voltage margin (WVM) as compared to conventional cells. The 10T SRAM cell has small feature size with improved memory architecture; wherein as the feature size decreases the sizes of the resulting transistor and interconnect between transistors also decrease. Fig 1 depicts the architecture of 10T SRAM cell with 16nm CNTFET based read ports.

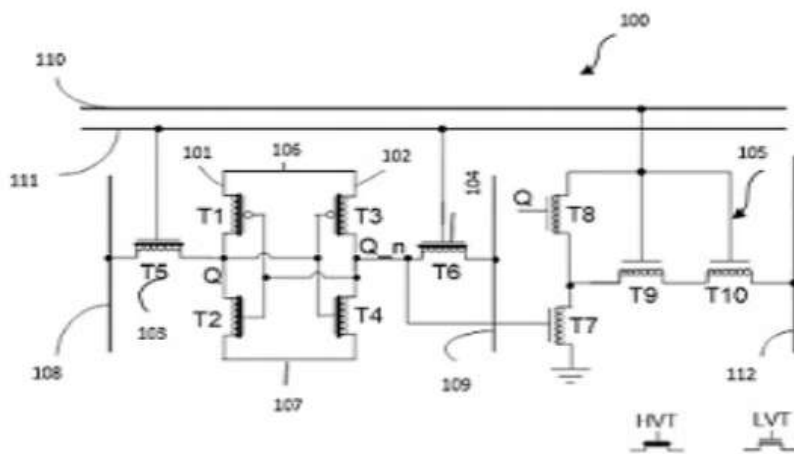


Figure - 1

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

(54) Title of the invention : HEX-GRID WITH A COMBINATION OF CELLULAR LIGHTWEIGHT CONCRETE AND PAPERCRETE TO CONSTRUCT HIGH STRENGTH LIGHTWEIGHT PARTITION WALLS.

(51) International classification :E04B0002740000, C04B0111400000, C04B0111520000, G06Q0010100000, E04C0002040000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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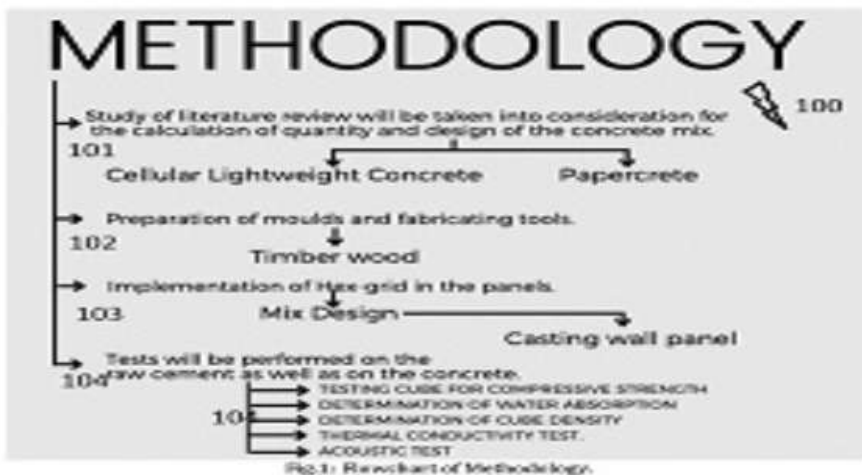
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(57) Abstract :
 ABSTRACT Dividers and Roofs are considered as the significant parts in building development. For expanded efficiency, legitimate utilization of suitable new advances, and worked on personal satisfaction, our development focuses on wide dissemination of proper and economical advances to building development. In particular, the essential driver for this is the increasing expense of development materials. The segment dividers that are assembled these days are either light-weight and feeble, or they have incredible strength characteristics however are essentially heavier in weight. According to the review, lightweight divider boards are popular to work on the personal satisfaction of individuals, financially productive, creative and nature-accommodating lodging innovations have been embraced to develop houses at reasonable expense. The inside segment dividers have a higher commitment to the material information sources when contrasted with other non-load-bearing development components in the general material contributions of the structure. The exhibition of these non-underlying parts is additionally critical to the structure framework in alleviating seismic tremors. This examination work will be an investigation on the development of light-weight high strength divider boards by consolidating two unique kinds of cement; Cellular Lightweight Concrete (CLC) and papercrete, to build light-weight parcel dividers with high strength and joining a hex framework in the focal piece to fortify the divider boards and spotlight on the diverse walling materials that can be utilized and new segment divider innovations. It will give maintainable appraisal to advancement in building innovation and for indoor parcels.



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

(54) Title of the invention : METHOD AND PROCESS MCQ EXAMINATION MANAGEMENT SYSTEM

(51) International classification :G06Q0050200000, G06Q0010060000, E04H0003240000, E02D0033000000, 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

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 --

(57) Abstract :

ABSTRACT Our Invention Strategy and Process MCQ Examination Management System is an evaluation System was imperative to detach teaching and testing. A web-based Examination System was made with C++, Java Web and ML advancements. The Advanced system gave the limits, including MCQ-question the leaders, paper age and test on the web. The Students check is ensured by a Unique Multi-Factor Authentication (UMFA) which is cultivated by outfitting a high level confirmation with Complex cryptographic token, planning with a standard mystery expression and One-Time Password 6-Digit (OTP) transported off a foreordained remote. The creation uncovers an appearance WI-FI-, correspondence the chief’s methodology subject to a capacitance screen and a wise the board structure. Regarding framework investigation and plan, strategy alludes to the documentation of approaches which are utilized to deal with exercises in a cognizant, reliable, responsible and repeatable way. Philosophy is an interaction that principally comprises of scholarly exercises typically just the ultimate objective of the system cycle is showed as the item or consequence of the actual work. A capacitance screen control terminal is coordinated, and an electronic white burden up facilitated system is organized in the capacitance screen control terminal and includes a handwriting module, an instrument module, an informational index module and synchronization gear a flexible correspondence terminal, a white burden up control site and a test structure stage are planned to achieve data collaboration with the electronic white burden up joined system.

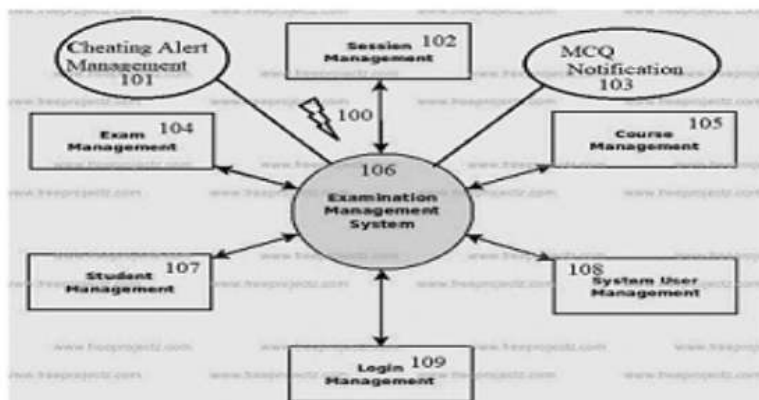


FIG.1: Method and Process MCQ Examination Management System, Flow Chart.

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

(54) Title of the invention : PERSONALIZED BLE-BASED MULTI SERVICE ADVERTISEMENT IN UBIQUITOUS COMPUTING.

(51) International classification :H04W0004800000, H04L0029080000, H04W0084180000, H04W0052020000, B29C0055000000

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

(87) International Publication No :NA

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

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(57) Abstract :
 ABSTRACT Our Invention Personalized BLE-based multi service advertisement in ubiquitous computing is a The gadget promotes administrations that are given in that premises utilizing Bluetooth Low Energy (BLE). Different administrations can be promoted utilizing single BLE gadget. The BLE-based assistance promotion can be utilized at different spots where data needs to communicate to the end clients like medical clinics, schooling firm, lodgings, enterprises and so forth. Bluetooth Low Energy (BLE) is an arising low-power remote innovation produced for short-range control and observing applications that is relied upon to be consolidated into billions of gadgets in the following not many years. This invention depicts the fundamental components of BLE, investigates its possible applications, and explores the effect of different basic boundaries on its exhibition. BLE addresses a compromise between energy utilization, dormancy, piconet size, and throughput that predominantly relies upon boundaries like Conn Interval and Conn-Slave-Latency. As indicated by hypothetical outcomes, the lifetime of a BLE gadget controlled by a coin cell battery ranges between 2.0 days and 14.1 years. The quantity of concurrent slaves per ace reaches somewhere in the range of 2 and 5,917. The base inertness for an expert to acquire a sensor perusing is 676 μs, in spite of the fact that reenactment results show that, under high piece blunder rate, normal inactivity increments by up to three significant degrees. The invention gives trial results that supplement the hypothetical and reenactment discoveries, and shows execution requirements that might diminish BLE execution.

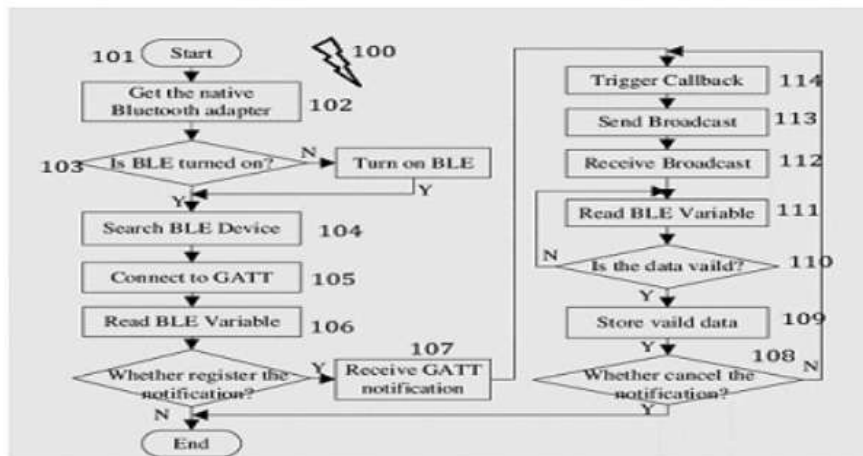


FIG.1: Bluetooth Low Energy, Flow Chart.

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

(54) Title of the invention : TRAFFIC DENSITY DETECTION: TRAFFIC DENSITY DETECTION AND AUTOMATIC SIGNAL ADJUSTMENT USING IOT BASED NOTIFICATION SYSTEM.

(51) International classification :G08G0001096700, G08G0001040000, G08G0001080000, G08G0001081000, G08G0001087000

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

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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(57) Abstract :
 ABSTRACT Our Invention Traffic Density Detection: Traffic Density Detection and Automatic Signal Adjustment using IoT based Notification System is a Clog of vehicular traffic is a significant issue in current situation. Blockage of vehicle because of gigantic measure of vehicles being used and furthermore due to over populace. Each side IR sensors are fixed at specific ranges thus that we can ready to recognize the thickness of each side all the while. This records the qualities and stores in the chip Intel Galileo Gen [2]. The sound sensor is utilized to distinguish the sound contamination in the specific region and this likewise helps us in recognizing the crisis cases dependent on the limit esteem which is fixed. So assuming the sound passes as far as possible, consequently crisis cases are recognized and afterward the sign gets adjusted and robotized in like manner. The last information from these sensors are given to the distributed storage and afterward dependent on the information refreshed the can have the option to follow the information by means of graphical portrayal. This gives the client infotainment show to think about the refreshed situation of the traffic thickness in the signs so the clog can be diminished and voyaging time gets decreased. Higher traffic thickness at one side of the intersection requests longer green time when contrasted with explicit distributed time. This traffic light framework changes the traffic light intersection timings naturally to oblige development of vehicles easily to keep away from pointless holding up time at the intersection and furthermore diminish commotion contamination.

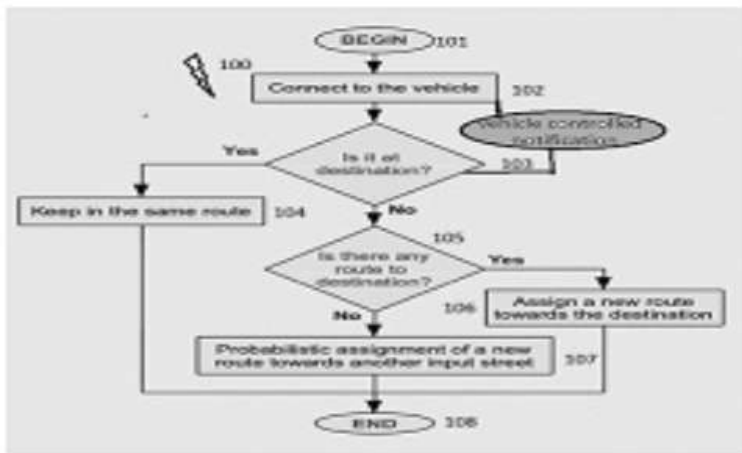


Fig. 1: Traffic Density Detection and Automatic Signal Adjustment using IoT based Notification System, Flow Chart.

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

(54) Title of the invention : SYSTEM AND METHOD FOR REVENUE GENERATION AND MANAGEMENT ON A BLOCKCHAIN PLATFORM

(51) International classification :G06Q0030060000, G06Q0030020000, G06Q0010060000, G06Q0020200000, G06Q0030040000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

A system for revenue generation and management on a blockchain platform is provided. The system includes a registration module configured to register a plurality of entities on the blockchain platform; an article publishing module configured to publish at least one article and one or more details associated to the corresponding at least one article; an article asset generation module configured to generate a value for the corresponding at least one article published by at least one of the plurality of entities; a non-fungible unique identification generation module configured to generate a unique ID for the corresponding at least one article; a revenue assessment module configured to assess a revenue for the at least one article based on the value generated; a transaction module configured to enable the plurality of entities to transact the at least one article based on a revenue assessed, wherein the transaction is achieved via NFT on the blockchain platform. FIG. 1

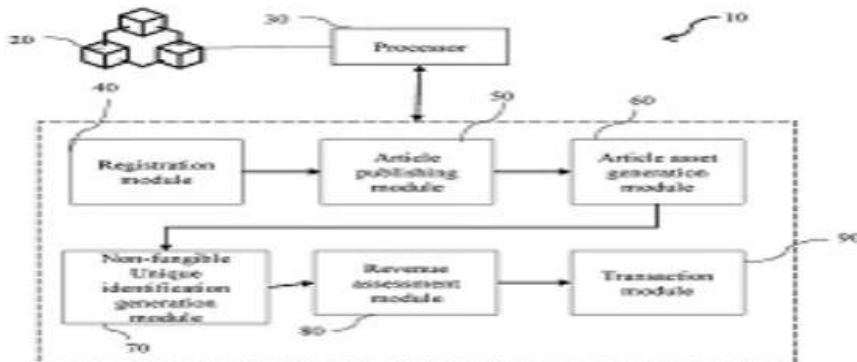


FIG. 1

(54) Title of the invention : IOT-KIT TO TRACK AND NOTIFY DOCTOR, NURSE AND MEDICAL EQUIPMENT.

(51) International classification :G06Q0050220000, A61B0005000000, G16H0015000000, G16H0010600000, A61B0005020500

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Our Invention IoT-Kit to Track and Notify Doctor, Nurse and Medical Equipment is to A his venture proposes a robotized medication box following, study, and control framework. To connect clinical medical services suppliers with a patient, IoT (Internet of Things) innovation is utilized. A clinical pack will be given to the patient, who will incorporate different sensors, a savvy medication box, and other required a portable application. This gadget tracks the Doctors/patient's wellbeing utilizing temperature, heartbeat, and oxygen sensors, which are completely connected to the New-ESP 8266 WiFi module. This permits the patient to speak with the specialist, physicist, and different clinicians. The chain framework permits a patient to get clinical consideration from anyplace on the planet, dispensing with the requirement for the patient to experience because of the distance and time taken to see a specialist consistently. The presence of affordable customer increased reality equipment enables much more researchers to focus on acumen with regularly moving spectators. Here we present a quantitative preliminary of the HTC Vive's position and heading following similarly as its beginning to end structure inaction. We report that while the exactness of the Vive's after assessments is high and its structure latency (22-ms) is low, its position and bearing assessments are given in a put together system that is moved with respect to the real ground plane.

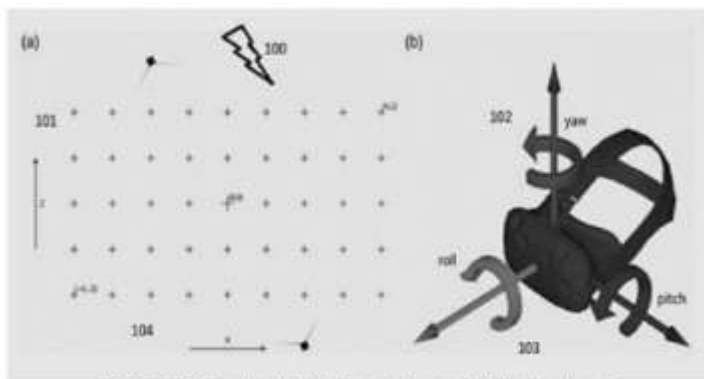


FIG. 1: IoT-Kit to Track and Notify Doctor, Nurse and Medical Equipment.

(54) Title of the invention : INTELLIGENT SEAWATER SEPARATION (SALT AND FRESH WATER) PROCESS AND PROCEDURE.

(51) International classification :C02F0103080000, F16H0047040000, B01D0036040000, C08K0005375000, C08L0023100000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 ABSTRACT Our Invention Intelligent Seawater Separation (Salt and Fresh Water) Process and Procedure is a market for coordinated breeze water desalination frameworks for metropolitan applications; plan boundaries, framework measuring, and streamlining to incorporate financial investigation and cost of water gauges for a particular district; and control gives that address the irregularity of the breeze asset, water stockpiling, and the typical consistent force usage of flow RO framework activity. The image should now rise up out of the previously mentioned depictions, that (a) gas-turbine ignition air with wide speed range (10-80 fps) cannot use mesh type filtration due to the high strain drop; (b) that it very well may have the option to use free lattice mat inside and out for low speeds (around 10-20 fps) to get enormous sums isolated down to around 5 microns; (c) that inertial-type separators can be utilized to isolate huge sums, at high efficiencies over 5-10 microns, at low tension drop, and at high speeds (50 fps in addition to); (d) that an electrostatic precipitator at restricted loadings (10 ppm) will actually want to isolate with high effectiveness and low strain drop, at sizes under 5 microns. It starts to create the impression that, assuming ocean salt in air focuses under 5 microns are not kidding, the partition should be in two phases; mechanical, and electrostatic precipitator. The first totally will be required and maybe the last mentioned.

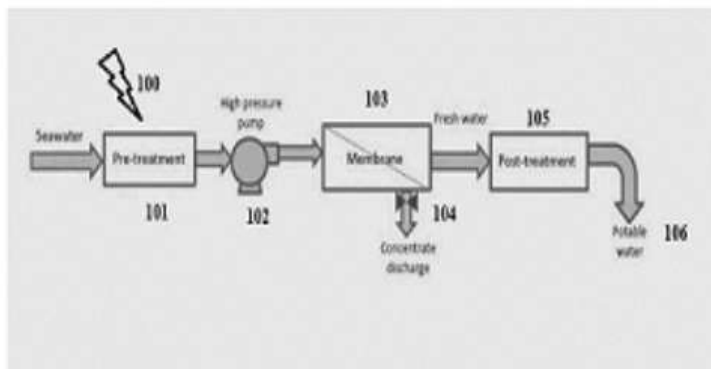


FIG.1: Intelligent Seawater Separation (Salt and Fresh Water) Process and Procedure Flow Chart.

(54) Title of the invention : SYSTEM AND METHOD FOR MEASURING COMPRESSIVE STRENGTH OF A CONCRETE BLOCK

(51) International classification :G01M0007080000, G01M0007020000, G01N0033483000, G01N0033380000, G06N0020000000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

A system (100) for measuring compressive strength of a concrete block is disclosed. The system (100) includes a concrete testing assembly (110) including a platform, wherein the platform (115) is adapted to receive a concrete block (120) overlaid on the rubber base (118). A pneumatic actuator (130) generates a definite shock wave corresponding to density of the concrete block. A vibration capturing device (140) placed on a top surface of the concrete block provided to capture data representative of response spectrum generated in the concrete block. A data processing unit (160) receives the data representative of the response spectrum captured by the vibration capturing device via a transmitter, utilizes a trained machine learning model to analyze the response spectrum captured of the concrete block, utilizes the trained machine learning model to predict the compressive strength of the concrete block overlaid on the rubber base based on a correlation of the response spectrum analysed in real-time with prestored response spectrum associated with a plurality of sample concrete blocks. FIG. 1

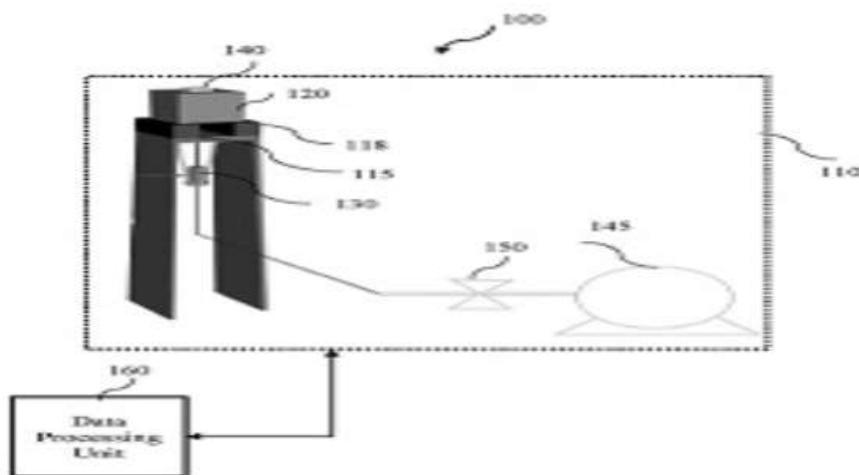


FIG. 1

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121048075 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : DESIGN OF REAL TIME SMART TRAFFIC LIGHT CONTROL SYSTEM USING MACHINE LEARNING

(51) International classification :G08G0001080000, G08G0001010000, G08G0001081000, G08G0001087000, G08G0001082000

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

(87) International Publication No : NA

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

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

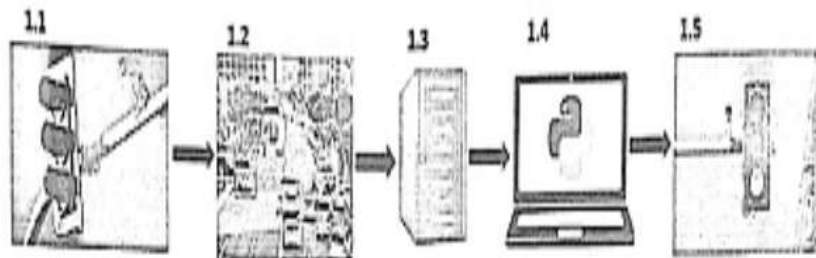
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(57) Abstract :

Traffic signals have long been a matter of discussion in urban traffic regulation. Ineffective and inflexible traffic regulation at urban intersections can frequently cause a blockage in traffic flow and will almost always result in traffic congestion. The wise control of traffic is a major difficulty in urban traffic management. If we introduce new techniques with ways of solving this problem then it will benefit the urban areas. Because traffic light systems are everywhere, changing the system would be difficult, and we would also have to overcome certain barriers to accomplish this task. Instead of changing the current system and introducing new things, we could solve this problem by making some changes to the existing software, which would eliminate many other barriers. All we have to do is add certain algorithms to the core software. With recent breakthroughs in machine learning, improved machine learning approaches for traffic signal control represent a viable answer to this challenge. The proposed method's performance is thoroughly compared to two traditional solutions for controlling traffic lights. When compared to the other methods, simulation results show that the suggested method greatly decreases total network delay. Adjacent traffic signal junctions will operate independently while also cooperating to achieve the common goal of assuring the fluency of traffic flow within the traffic network.

Drawing 1 of 3: Layout of system



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

(54) Title of the invention : FRICTIONLESS MAGNETIC LEVITATION OF WIND TURBINE

(51) International classification :F16C0032040000, F03D0001040000, H02N0015000000, B60L0013040000, F03D0009250000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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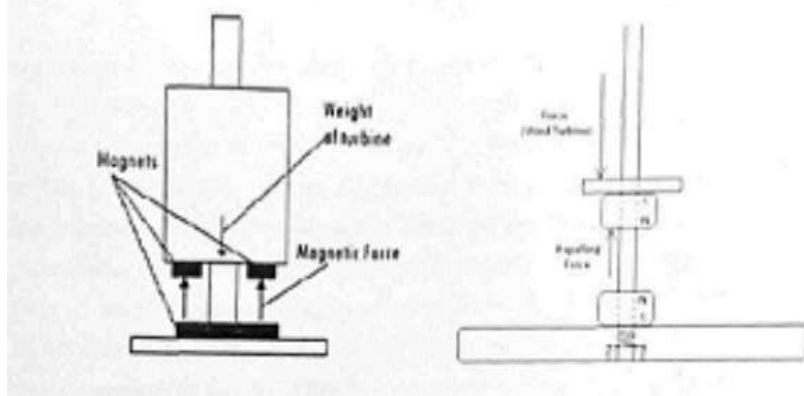
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(57) Abstract :

Magnetic levitation or maglev technology is a technique which is used to lift the objects with the help of magnetic fields only. It is used for magnetic bearings, contactless melting, maglev train etc. Essentially all types of magnets have been used to generate lift for magnetic levitation; permanent magnets, electromagnets, ferromagnetism, diamagnetism, superconducting magnets and magnetism due to induced currents in conductors. Pressure of the magnetic field is used to suppress the effect of gravitational and other forces. As wind is a form of renewable source of energy, it can be used to generate electricity by converting kinetic energy into electric energy with the help of wind turbine. The advantage of a maglev windmill over a conventional one is, mechanical friction is totally eliminated as the rotor is floating in the air due to levitation. By the principle of magnetic levitation, the friction is less in wind turbine. The system requires wind for operation and does not requires the electricity to operate because no electromagnets are involved. It can operate in wind speed as low as 1.02 m/s. This technology provides efficient output for power generation as compare to other wind turbine. There are lots of materials published about the usage of these devices internationally and the real wind turbines are being sold. However, we may see not only the advantages but also some negative sides of the so-called magnetic bearing, leading to questions – is possible for the usage in bigger turbines, and is it economically feasible Thus, the topic is actual due to the wide interest of engineers to their usage.

Drawing 1 of 2: 2-D diagram of turbine setup



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

(54) Title of the invention : WIRELESS CONTROLLED LIGHT WEIGHT ROBOTIC ARM

(51) International classification :B25J0009160000, B25J0009100000, B25J0009000000, A61B0034000000, B25J0009140000

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

(87) International Publication No : NA

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

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

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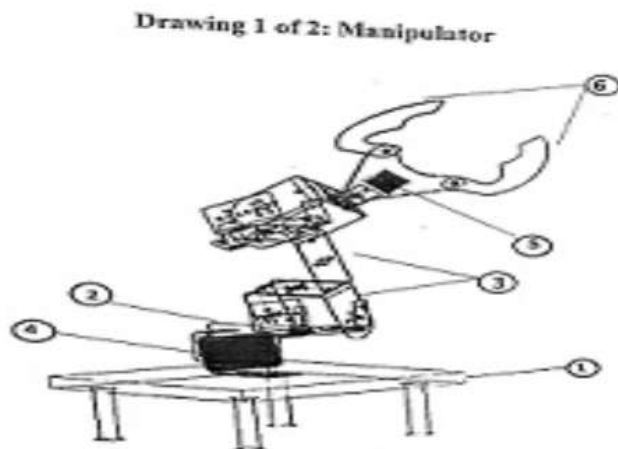
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(57) Abstract :

In currently growing industry, invention in automation provides industries advantages in efficiency, speed and manufacturing value. In the industrial revolution 4.0, robots are generally used to perform critical tasks like arc welding, assembly, painting, material handling, etc. The application of robots is widely used in the industrial work to automate processes and reduce human errors. Hence, the key emphasis of this invention is to design and develop the mechanism for robotic arm for material handling. This manipulator is made with aluminum so that the weight is reducing and strength is increased in order to lift specific loads within its range. The robotic arm is designed with four degrees of freedom and is programmed to lift a solid block and place it at the desired location within workspace. The design of the manipulator as robotic arm was done on CATIA software and analyzed for stresses in ANSYS. Here the joints of the robotic arm are coupled using servo motors, which give motion to the manipulator. The control is made simple with the utilization of a microcontroller. We are using Bluetooth module for easy wireless communication for the control of manipulator as we are innovating a prototype.



No. of Pages : 10 No. of Claims : 2

(54) Title of the invention : A ROAD VISUALIZATION SYSTEM FOR VEHICLE FOR LANE CHANGING OR OVERTAKING

(51) International classification :B60W0030180000, G08G0001160000, B60W0050100000, E01C0001000000, E01F0015000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

TITLE OF THE INVENTION: A ROAD VISUALIZATION SYSTEM FOR VEHICLE FOR LANE CHANGING OR OVERTAKING Nowadays the traffic has become major issue for the concern of driver’s safety and there is need for driver’s assistant system for avoiding accidents while changing the lane or overtaking. Current invention provides an economical and applicable road visualization system for vehicle which can be used while changing the lane or while overtaking. It has the movable camera installed inside the rod which can be operated manually or can also be automated and controlled by automobile auxiliary power or batteries of the vehicle. The live image based detection system enables the diver to take accurate decision about overtake or lane change. Refer Fig. 6



Figure 6

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : SMART GARBAGE COLLECTOR

(51) International classification :H04L0029060000, B65F0001140000, H04L0029080000, H04W0088020000, B65F0001160000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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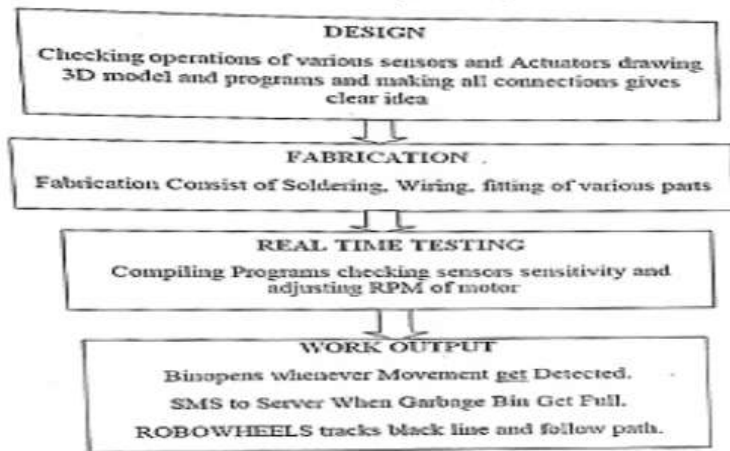
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(57) Abstract :

The scenario of cleanliness with respect to garbage management is degrading tremendously. Proper garbage management techniques are very crucial to stop the garbage menace which has spread everywhere especially in cities. With this condition of garbage crisis there is a need of applying a method that improves the garbage problems. Therefore, we are developing a framework to detect garbage level using IOT based on sensors and web applications. There will be an automatic bin, for the storage of garbage this Smart Dust-bin will automatically open when anyone approaches to it for throwing garbage, and then closes automatically. It will display the level of the garbage to easily identify about its state. If the level of the garbage in the Smart Dust-bin reaches to its maximum limit, that is, if the dustbin is full, then it will notify the user whoever is monitoring that Smart Dust-bin. The Smart Dust-bin will contain a GPRS system, which can send and receive messages. Using this system, the Smart Dust-bin will send a text message to the registered user notifying that the dustbin is full and there is a need to empty it and web applications. It will display the level of the garbage to easily identify about its state. If the level of the garbage in the Smart Dust-bin reaches to its maximum limit, that is, if the dustbin is full, then it will notify the user whoever is monitoring that Smart Dust-bin. The Smart Dust-bin will contain a GPRS system, which can send and receive messages. Using this system, the Smart Dust-bin will send a text message to the registered user notifying that the dustbin is full and there is a need to empty it. Along with it, there is wheels mounted on dustbin after user switch it on then dustbin travel with wheels mounted on which along with given path and arrives at destination when destination man dump that garbage and place dustbin on track with changing direction then it automatically travel to starting point.

Drawing 1 of 2: Layout of system



No. of Pages : 18 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121048533 A

(19) INDIA

(22) Date of filing of Application :25/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AUTOMATED BIRDS, INSECTS SCARE SYSTEM AND BUGS CONTROLLER

(51) International classification :A01M0029060000, A01M0029160000, A01M0031000000, A01M0029080000, H04L0009080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Automatic scarecrow technology is an easy and reliable way to control major avian crop pests like birds and or animals. This Scarecrow decreases crop damage by dispersing birds in a safe and human way. The main aim of the project was to design and construct a bird repellent prototype that is dynamic and play sounds of distress to disperse off the birds. Two wireless communicating devices being controlled by an Raspberry PI were developed with the help of RF modules consisting of sound producing system, rotating system and a motion sensor which were used as inputs to the microcontrollers when motion is detected, and the servo motors and the buzzer are activated. When the system design was powered the servo motors rotated, and a sound of distress was produced after motion detection. In conclusion, the technology of this modern scarecrow has many applications which include reducing financial loss due to crop damage caused by birds, reliable, human and safe agricultural bird dispersal, and the chosen bird control system for farming-industry.

Drawing 1 of 1: Layout of system



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

(54) Title of the invention : INCLUSION COMPLEX OF TELMISARTAN AND HERBAL ABSORPTION ENHANCERS FOR BIOAVAILABILITY IMPROVEMENT

(51) International classification :A61K0045060000, A61K0009200000, B82Y0005000000, A61K0031418400, A61K0047690000

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

(87) International Publication No : NA

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

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Filing Date :NA

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(57) Abstract :

INCLUSION COMPLEX OF TELMISARTAN AND HERBAL ABSORPTION ENHANCERS FOR BIOAVAILABILITY IMPROVEMENT Telmisartan is highly lipophilic in chemical nature and due to its high lipophilicity, it has advantage of tissue penetration in efficient way. Improvement in solubility and bioavailability of telmisartan complex is needed. The present invention provides an inclusion complex of telmisartan with herbal absorption enhancers for improved bioavailability. The telmisartan-inclusion complex comprises of telmisartan and bioenhancer; wherein, telmisartan and bioenhancer are present in a molar ratio of 1: (1-3). The telmisartan-inclusion complex is formulated as tablets. The process for preparing tablets of telmisartan inclusion complexes using direct compression method is also disclosed. In vitro dissolution studies and bioavailability study of telmisartan inclusion complex was performed. Telmisartan quercetin complexes in 1:3 ratios prepared by kneading method was found to have 1.45-fold increases in bioavailability.

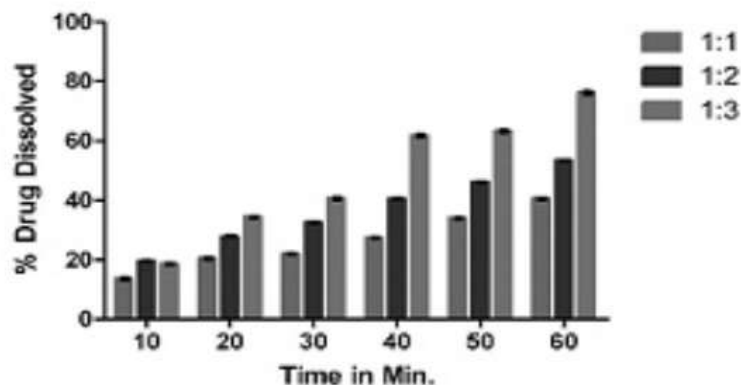


Figure 1

No. of Pages : 37 No. of Claims : 10

(54) Title of the invention : TRAFFIC MANAGEMENT AND WARNING SYSTEM FOR VEHICLES

(51) International classification :G08G0001096500, G07C0005080000, B60Q0007000000, G08G0001052000, G06Q0050300000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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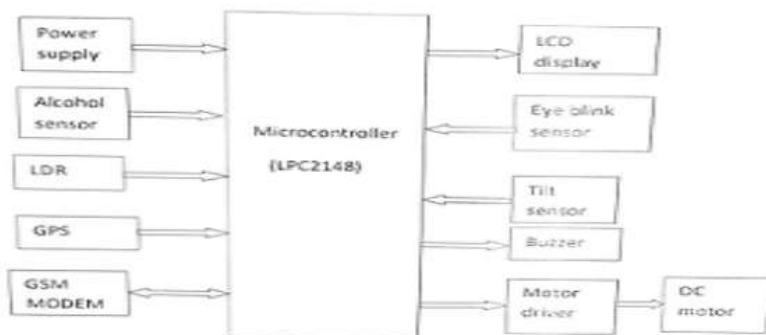
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(57) Abstract :

In the 21st century vehicles are a very important part of the human lifestyle, to stay up with the progressive world they're an awfully important source of transportation and a logo of status. The increasing population of vehicles ends up in traffic jam, increased road accidents, and one in every of the foremost reasons for mortality. In step with 2019 statistics, vehicle accidents are one in every of the most important killers within the unnatural category. Within which around 59.6% of deaths are caused because of over speeding and around 90% of them are caused thanks to human negligence. In many situations, the driving force's family isn't informed on time or the emergency services couldn't reach the victim on time resulted within the death of the driver. By utilizing on-board sensors, these vehicle accidents may be prevented and human negligence may be avoided. By providing a real-time location to the emergency services, lots of your time can avoid wasting crucial moments. The traffic density and logjam are often detected which is able to end in saving time and fuel. Breakdown of cars will be prevented and monitoring are often done by making the system more reliable and trustworthy.

Drawing 1 of 2: Previous Block Diagram for System



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

(54) Title of the invention : AN AUTOMATIC VENDING SYSTEM

(51) International classification :G06Q0050280000, G07F0011620000, G07F0017260000, G07F0007060000, G07F0007000000

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

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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(57) Abstract :

Abstract Title: An automatic vending system The present invention is to provide an automatic vending system (100). The system (100) includes a frame (110), a camera (120), a mic (130), a speaker, a focussed colored light (150), a rotating plate (160) and a robotic arm (170). The camera (120) is to recognise a user's face or articles (210), or finger pointed by the user. The mic (130) is arranged adjacent to the camera (120) for vocal communication between the user and the machine. The rotating plate (160) serves or shows the articles (210) stored within the storage compartments (200). The robotic arm (170) is for picking and placing the articles (210) from the storage compartment (200). The vending system (100) is capable of delivering the articles (210) stored within the storage compartments (200) according to the input received from the user. Figure 1

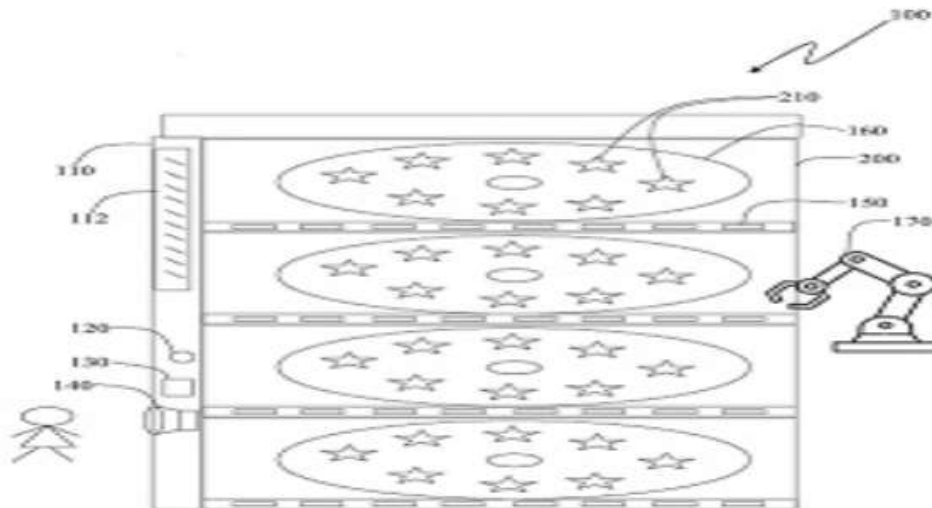


Figure 1

No. of Pages : 20 No. of Claims : 15

(54) Title of the invention : DESIGN & DEVELOPMENT OF TRIO-HYBRID BIKE

(51) International classification :B60W0010060000, G06Q0099000000, F02C0006200000, B62J0001000000, G07C0005080000

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

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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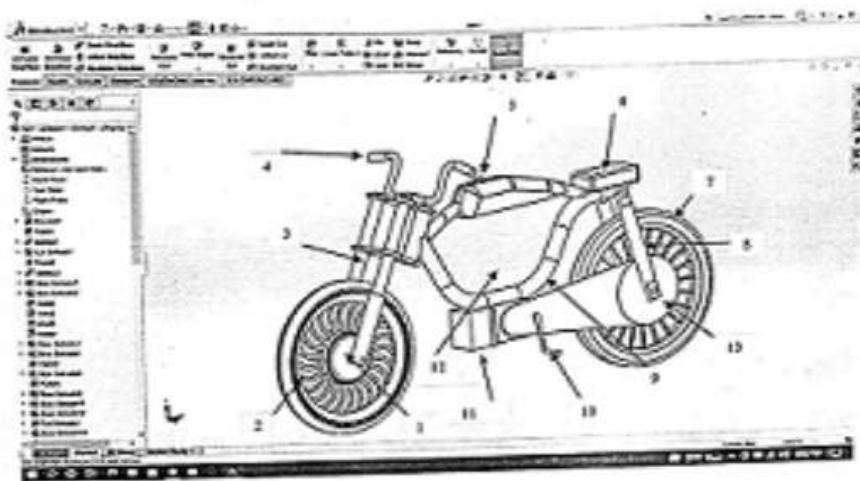
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(57) Abstract :
In automobile area, there is a requirement for elective fuel as a substitution of traditional petroleum product, because of its consumption what's more, measure of outflow has given way for new innovations like Electric vehicles. Still a great deal of progression needs to take place in these advances for commercialization. The hole between the current non-renewable energy source innovation and zero emanation vehicles can be crossed over by half breed innovation. Tri Hybrid vehicles are those which can run on at least two controlling sources. This technology maximizes the advantages of the two sources and minimizes the disadvantages of the individual. In this project work, a tri hybrid bike will be developed. In this bike it is proposed to the three power sources namely engine, electric motor and pedaling. Appropriate electric motor and battery will be selected and purchased. For pedaling new mechanism will be designed for its location according to selected bike. Developed trihybrid bike will be tested for its performance like acceleration, braking, mileage, PUC etc. and result obtained will be compared with present bike (i.e. trihybrid technology). The electrical force is utilized to accomplish either better fuel economy than a customary vehicle, better execution and it cause less contamination. Driving mode selectivity improves this framework more conservative, steady and more proficient.

Drawing 1 of 3: CAD Model of Trio Hybrid Bike



No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : ASSESSMENT OF PAVER BLOCK USING PLASTIC AND CERAMIC WASTE

(51) International classification :C04B0033132000, C04B0028040000, C04B0018160000, C04B0018040000, C04B0018120000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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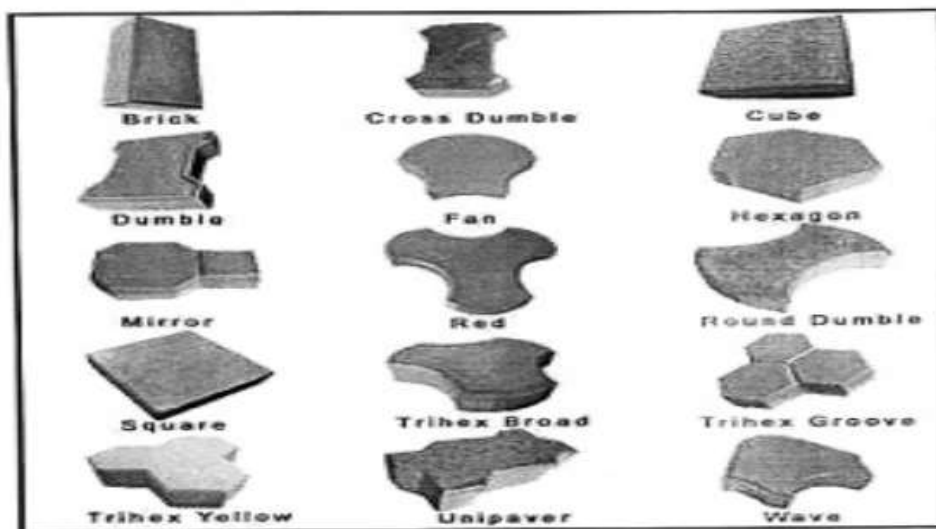
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(57) Abstract :
 Plastic waste which is increasing day by day becomes eyesore and in turn pollutes the environment, especially in high mountain villages where no garbage collection system exists. Plastics are to be effectively utilized. High-Density Polyethylene (HDPE) and Polyethylene (PE) bags are cleaned and added with sand and aggregate at various percentages to obtain high strength bricks that possess thermal and sound insulation properties to control pollution and to reduce the overall cost of construction. With increase in the demand of river sand and decrease in its availability, there is an immediate need for finding suitable alternatives which can replace sand partially or at a high proportion. Many research study investigates the effect of several waste products such as Glass sheet powder, Incinerated Sewage sludge, foundry bed waste, crushed rock flour, building demolition waste in the partial replacement of river sand. It is very essential to develop eco-friendly concrete from ceramic waste. This project deals with the experimental study on the mechanical properties of M25 grade concrete with the partial replacement of cement by plastic waste & ceramic waste. In order to analyze the mechanical properties such as compressive, water absorption, fire and hardness test the samples were casted with 20%, 30%, 40% replacement of sand using ceramic waste and tested for different periods of curing like 7 days, 14 days and 28 days.

Drawing 1 of 5: Types of Paver Blocks



No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : MULTISYSTEM BASED SMART BATTERY CHARGER PROTECTING UNIT

(51) International classification :H02J0007000000, H01M0010420000, H01M0010480000, H04M0001725000, H01M0010460000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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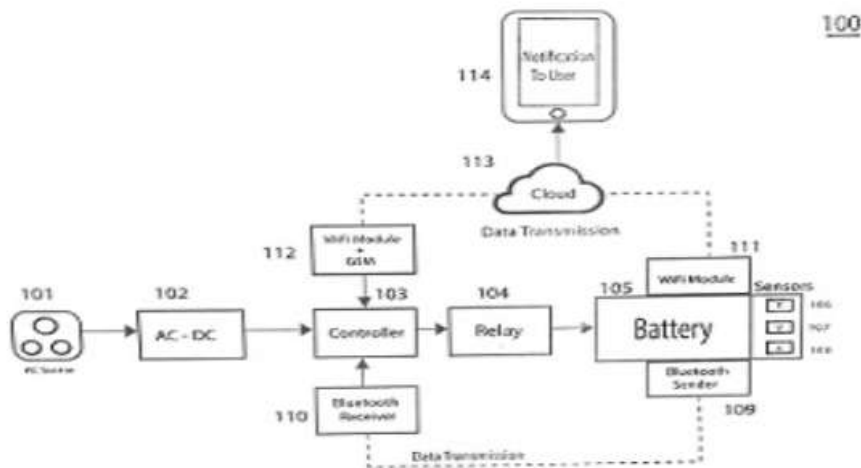
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(57) Abstract :

A modern-day Smartphone is completely reliable on its battery for the operation. Battery is the power house of such devices. With time the quality of such batteries degrades due to- constant use, irregular voltage or current supply while charging, fluctuations which we think do not hamper the quality of a battery and overcharging. Due to these reasons, the possibility of the battery to get critically damage gets higher. It may result in improper functioning of the device, heating or even blasts in many cases. To avoid this situation, a system can be introduced which can monitor all the tasks step by step. So that, the quality of the battery does not rapidly degrade and its lifespan increases resulting in reliability and risk-free condition. In this system; a relay, a Bluetooth device and a micro controller is used. The mobile device when kept on charging shows the indication of the charging. It can be traced with the help of a mobile application. When the battery charging reaches to a certain level, it will send a signal to the relay with the help of Bluetooth device. On receiving the signal, with the help of micro controller the relay breaks the circuits and thus the circuit gets open. This ensures that mobile charging gets stopped. Thereby, opposing the cause of degradation of the battery.

Drawing 1 of 4: The Overall System Block Diagram



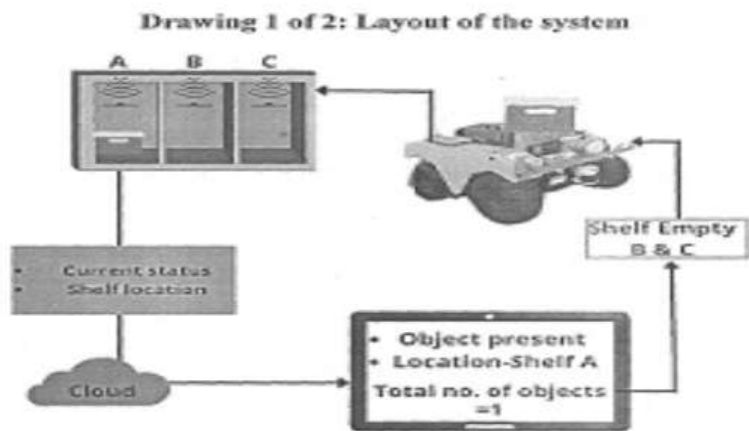
No. of Pages : 18 No. of Claims : 6

(54) Title of the invention : SMART INVENTORY MANAGEMENT SYSTEM

<p>(51) International classification :G06Q0010080000, G06Q0050280000, G06Q0030060000, G06Q0050120000, A23K0050400000</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)Prof. Dr. Bhavana Ambudkar Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p> <p>2)Mr. Prathamesh Waifalkar Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p> <p>3)Ms. Akshata Patel Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p> <p>4)Ms. Yukta Brijpuria Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p>
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(57) Abstract :

Inventory is what your business builds up whenever it buys stuff that it doesn't immediately sell. For example, when: A pet store buys a pallet of dog food from a wholesaler A restaurant orders ingredients in the morning for that evening's dinner. Good inventory management will look different depending on your industry—a Michelin-starred restaurant will manage its inventory differently than a hair salon or a car dealership. You can't manage your inventory if you can't track it. The most barebones method of tracking inventory is to set up a manual inventory or sales ledger. Small businesses can do this with a physical notebook. Any time you make a sale or a purchase, record it in the ledger. At the end of the day, use the numbers in your ledger to update your total inventory numbers manually. Managing of logistics is a significant aspect in real time scenarios. Shortage, misplacement and absence of real time tracking and tracing of goods in warehouses are some of the issues that are faced by the logistics industries which eventually leads to the delay in shipment of goods, order cancellation and hence, revenue loss. There are many challenging aspects that warehouse inventory management system must consider because in the real world as the indoor native habitats are confined by the dimensions of the zone. Accuracy illustrates us what is the fluctuation from the predicted location to the actual or original location. Thus the accuracy of the system should be high, within a precise scope. The product tracking system is built accordingly, it must work accurately even without direct line of sight. We have made use of infrared sensors to sense the presence or absence of object on the rack. After the detection of the same, it will display the information obtained on the LCD display. The same can be further extended by adjoining the automation to the inventory management software present and can also be updated to the non-cloud or cloud based database.



No. of Pages : 11 No. of Claims : 6

(54) Title of the invention : CUP AND GLASS CLEANING DEVICE

(51) International classification :A47L0015000000, A47L0001020000, B08B0003020000, B08B0009087000, A46B0005000000

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

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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(57) Abstract :
 Abstract Cup and Glass Cleaning Device is capable of cleaning cups or glasses. It is a portable and semi-automatic machine having a structure capable of cleaning the large number of cups/glasses simultaneously. By using present novel device user can clean four cup/glass simultaneously by operating single Handle (1), and cups/glasses are cleaned from both sides, inner surface gets cleaned through rotating movement of Internal surface cleaning brush (8) and outer surface gets cleaned through Outer surface cleaning brushes (23) by pressurised water and when user releases Handle (1) then Handle (1) automatically come into normal position and unclean cups/glasses enter into Cup washing area (15), on the top of sliding screw (5), and cleaned cups/glasses get collected at the top of the Cup washing area (15).

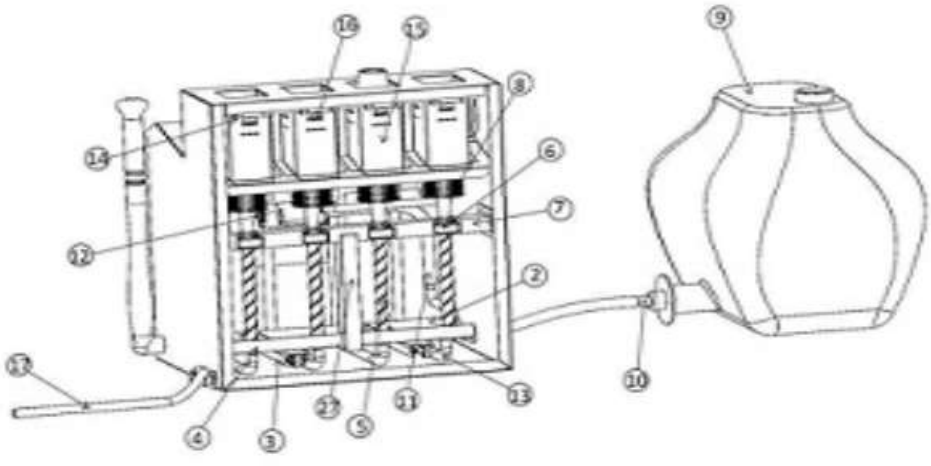


Figure 1: Cross sectional back side view

No. of Pages : 19 No. of Claims : 2

(54) Title of the invention : AN IOT BASED VALVE CONTROL SYSTEM

(51) International classification :F16K0037000000, H04L0029080000, H04W0008040000, F16K0031122000, 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

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(57) Abstract :
ABSTRACT AN IOT BASED VALVE CONTROL SYSTEM The present invention relates an IOT based valve control system. The object of the proposed invention is to reduce physical efforts of farmers. The system consists of two subsystems; actuating system is physical subsystem consisting of valve actuating mechanism, valves and moisture measurement system. It is installing in the field itself and virtual control system is the virtual subsystem which consists of mobile application or website. It is installing in operator's mobile phone. Wi-Fi (Wireless Fidelity) or GSM (Global system for mobile) based signal system connects actuating and virtual control system. Following invention is described in detail with the help of Figure 1A of sheet 1 illustrates circuit diagram of proposed invention.

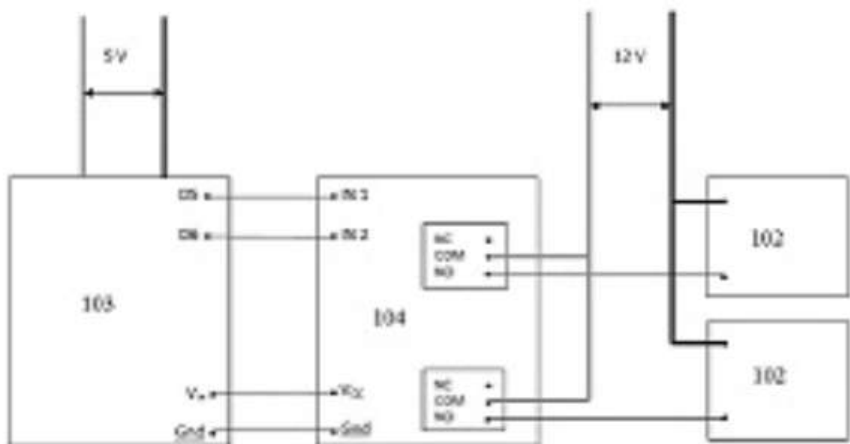


Figure 1A

No. of Pages : 11 No. of Claims : 3

(54) Title of the invention : A SYSTEM AND A METHOD FOR LOCKING AND UNLOCKING A VEHICLE

(51) International classification :G07C0009000000, G07C0009370000, G07F0017000000, B60R0025230000, E05B0081560000

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

(87) International Publication No : NA

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

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

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 -

(57) Abstract :
 Abstract Title: A system and a method for locking and unlocking a vehicle The present invention is to provide a system (100) for locking and unlocking a vehicle. The system (100) includes atleast one sensor (110), a mechanism (120), a control unit (130), a communication module (140) and a user interface (150). The atleast one sensor (110) is for detecting the position of the vehicle, the sensor (110) ensures a predefined position of the vehicle. When the vehicle is in the predefined position the control unit (130) actuates the mechanism (120) to lock the vehicle, wherein the user is prompted to enter a mobile number to generate a unique identity number in the control unit (130) which is transmitted to the terminal through the communication module (140). Upon entering the unique identity number through the user interface (150), the control unit (130) matches with the generated unique identity number to authenticate the user thereby actuating the mechanism (120) to unlock the vehicle.

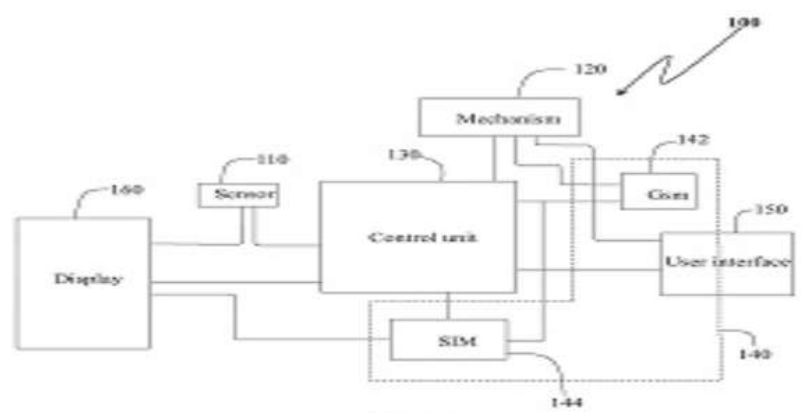


Figure 1

No. of Pages : 23 No. of Claims : 9

(54) Title of the invention : MACHINE LEARNING BASED SYSTEM TO ACCURATELY DETECT THE ADULTERATION IN SPICES

(51) International classification :G06N0020000000, G01N0021640000, G01N0021880000, G06T0007000000, G06K0009200000

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

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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(57) Abstract :
 ABSTRACT MACHINE LEARNING BASED SYSTEM TO ACCURATELY DETECT THE ADULTERATION IN SPICES In an aspect, the present invention discloses an adulteration detection apparatus for powdered spices. The apparatus includes a powdered target illuminated with one or more radiative light sources, a camera capturing a plurality of spectral images; a photodetector recording reflectance spectral signature; and a cloud based machine learning model to classify level of adulteration. Figure 1

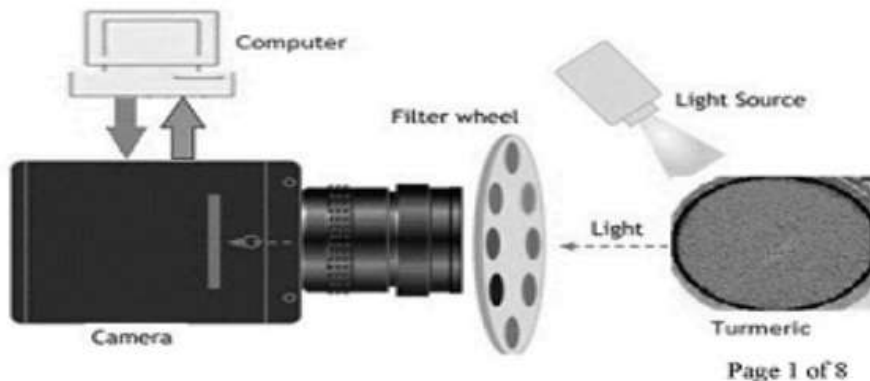


Figure 1

No. of Pages : 19 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121049229 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE AND IOT BASED METHOD FOR PREVENTION OF SECURITY ATTACK ON CLOUD MEDICAL DATA

(51) International classification :G16H0010600000, H04L0009320000, G16H0010650000, G16H0050200000, H04W0012000000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention relates to an artificial intelligence and IOT based method for prevention of security attack on cloud medical data. The usage of cloud computing for storage and retrieval of electronic health records (EHRs) have seen a steep rise In past few years. This Invention proposes an efficient attack prevention mechanism from unauthorized user to the electronic health records stored in cloud. Also effective secured electronic health record retrieval mechanism is also proposed. Health record signals are been stored and processed for the predetermined health function or parameters to define value in the abnormal range.

No. of Pages : 7 No. of Claims : 4

(54) Title of the invention : FILTRATION OF COMPOSITE LEACHATE AT DOMESTIC LEVEL BY NATURAL FILTER BEDS

<p>(51) International classification :C02F0003300000, C02F0003040000, C02F0001520000, C02F0103440000, A23L0002040000</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)Mrs. Ramatai Somwanshi Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p> <p>2)Ms. Bhamre Bhagyashri Bapurao Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p> <p>3)Ms. Chabukswar Tanaya Sunil Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p> <p>4)Ms. Sakhare Manorama Mallikarjun Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p>
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(57) Abstract :

A leachate is any liquid that is the course of passing through matter, extracts soluble or suspended solids, or any other component of the material through which has passed. Domestic leachate contains a large amount of biological materials generally from kitchen waste. When water percolates through waste, it promotes and it assists the process of decomposition by bacteria and fungi. These processes in turn release by-product of decomposition and rapidly use up any available oxygen, creating anoxic environment. The main objective of this study is to make reuse of wastewater as many places faces problems related to water. And, also to improve a soil fertility for this purpose. Leachate water is treated with different tests like dissolved solids test, turbidity, BOD, etc. Also by filtering sample by using filter beds consist of different materials like river sand, coal, crushed bricks and foam. After treatment the water becomes useful for various purposes like car washing gardening and other household purposes.

Drawing 1 of 1: Block Diagram for work



No. of Pages : 12 No. of Claims : 3

(54) Title of the invention : ARTIFICIAL INTELLIGENCE ENABLE BOAT TO COLLECT FLOATING PLASTIC TRASH FROM WATER BODIES

(51) International classification :E02B0015040000, C02F0103000000, C02F0007000000, C02F0003200000, C02F0001500000

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

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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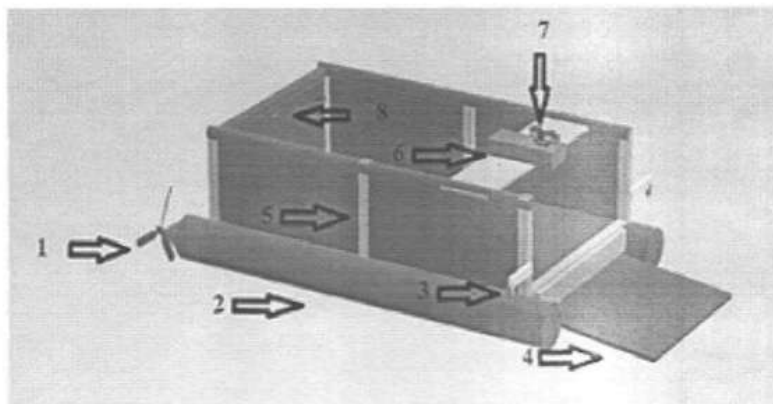
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(57) Abstract :

Water has always been an important natural resource vital for all forms of life on this planet. Even though many countries are blessed with huge amounts of water bodies, most of the water bodies are polluted. All life began with water has been a known fact. Thus, water cleanliness is an important for survival of life on Earth. But the evolution of science has led a catastrophic effect on Water bodies. Most of these pollutants are toxic and are affecting adversely the water resources (wells, lakes, rivers, and sea etc.), and hampering the life of aquatic animal and all dependent organisms and make their life in danger. Human negligence is one of the factors for responsible for the increase in the amount of waste dumped in the water bodies. To clean the water bodies manually with labor, consumes a lot of money, energy & time. To address this, the proposed work aims at developing intelligent solution towards automating the waste removal from water bodies. It would be an alternative for surface water trash collection and maintaining cleanliness of the water with low cost and minimum human effort.

Drawing 1 of 3: Layout of system



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

(54) Title of the invention : GAS LEAKAGE, EXPLOSION, DETECTION AND FIRE ALERT SYSTEM WITH ADVANCE SECURITY USING GSM TECHNOLOGY

(51) International classification :F17D0005020000, G08B0021160000, F17C0013120000, F23N0005240000, F17D0005000000

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

(87) International Publication No : NA

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

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

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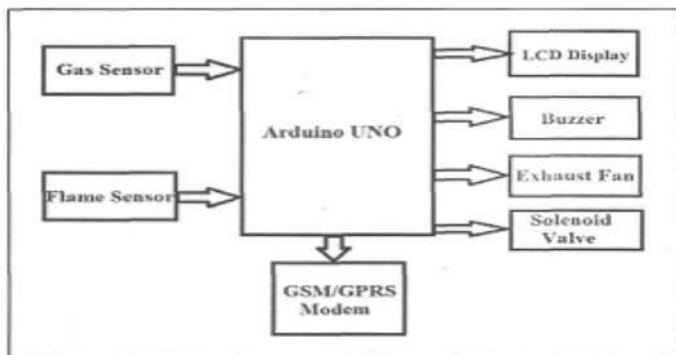
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(57) Abstract :

Gas leakage and gas cylinder explosion is a regular problem in today’s world, especially in developing countries. If the gas leakage can’t be detected fast and no action is taken, may lead to explosion and cause severe damages to life and environment. The previous leakage detection systems only use alarms for warning. There is nothing about the protection. In this paper, a system is proposed that can detect not only gas leakage, it can detect explosion, and fire as well. And can take some protective steps. It is equipped with gas sensor to detect the leaked gas and flame sensor to detect the explosion and fire. It has exhaust fan system to clear the leaked gas and solenoid valve to inlet the water or carbon dioxide gas (CO2) if explosion and fire occurs. The explosion security system response individually when there is only a fire with no relation to gas leakage. If any incident occurs, that information is sent to owner through wireless media, a display shows the alert message and buzzer makes the alarm. It is equipped with Global System for Mobile communications (GSM) modem as wireless media to send information to owner through Short Message Service (SMS). This ensures preventive actions immediately even in the absence of people on-site. A prototype of this system has been developed and tested with Liquefied Petroleum Gas (LPG) and Fire as well. The experimental results show that the system can detect the gas leakage, explosion and fire. It is also able to take protective steps quickly. This life saving system is low-cost and useful. It can protect people from burning alive.

Drawing 1 of 2: Layout of system



No. of Pages : 11 No. of Claims : 8

(54) Title of the invention : IMPACT OF CONSTRUCTIVIST DIGITAL LEARNING HEUTAGOGY (CDLH MODEL) ON POSITIVE EDUCATION OF STUDENTS: AN INTERVENTION OUTCOME

(51) International classification :G06Q0050200000, G09B0019000000, G09B0005060000, G09B0007000000, G09B0023000000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT Impact of Constructivist Digital Learning Heutagogy (CDLH Model) on Positive Education of Students: An Intervention Outcome This invention is related to the field of Education. The present-day school system curtails children’s natural growth and interferes with their freedom to explore. It is here that teachers have an opportunity to engage meaningfully with the student community, and make them and society aware of the importance to explore and become self determined and autonomous learners. The objective of the idea is to contribute a technique which works in the online mode for an improved learning. This invention throws light on CDLH (Constructivist Digital Learning Heutagogy) model. CDLH model has been validated and has been found to be reliable. Findings show that the intervention of CDLH Model had significant impact on the key indicators of Positive Education

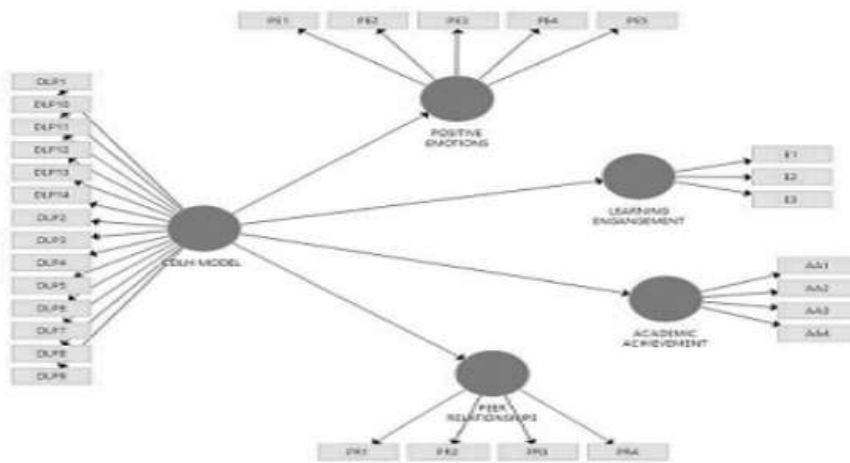


Fig 1 : Conceptual framework

No. of Pages : 11 No. of Claims : 3

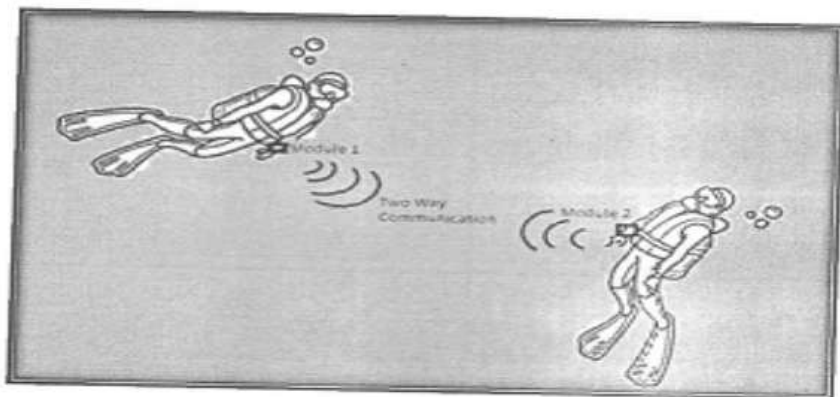
(54) Title of the invention : WIRELESS UNDERWATER COMMUNICATION SYSTEM

<p>(51) International classification :H04B0013020000, H04B0011000000, B63C0011260000, G01D0021000000, H04W0028180000</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. (Mrs) Mahua Bhowmik Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p> <p>2)Neha M Vinchankar Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p> <p>3)Tanisha V Rao Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p> <p>4)Mohit S Sharma Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune - 411018 -----</p>
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(57) Abstract :

Over the past decades heavy cables were used to establish high speed communication between remote end and the surface. To overcome such difficulties underwater wireless communication has come into existence. Underwater communication is a rapidly growing field of research and engineering as the applications include military, collection of scientific data record, data transmission between divers as it is very difficult to communicate underwater so divers use white boards to communicate. Wireless communication eliminates physical connection of wires and enables reliable communication between two bodies. The wireless underwater communication system helps to overcome such problems, it transmit and receive data using Radio Frequency. The wireless underwater communication system comprises of two communication modules for duplex transmission which transmit and receive data using Radio Frequencies module. Each system has a keyboard connected to the controller to input the data which has to be transmitted. Effective information can be transmitted using RF TX and RF RX receiver. This project will outline the recent investigations regarding underwater communication. The application is cost effective and simple to operate for data generation and transmission. Due to several shortcomings of every technology used, the project has combined all the advantages to make it more reliable efficient and the components used are easy to replace and maintain also the system is adaptable to surface and water environment due to its constructional application.

Drawing 1 of 4: Two way Communication System



No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : CAP TYPE SOLAR PARABOLIC TROUGH RECEIVER

(51) International classification :F24S0023740000, F24S0010400000, H01L0031022400, F24S0030425000, F24S0025000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

CAP TYPE SOLAR PARABOLIC TROUGH RECEIVER The present invention discloses a cap type solar parabolic trough receiver 10. Parabolic trough collectors consist of a reflector plate 18 of a parabolic shape, receiver (absorber) mounted at the focus of the reflector 5 and provided with concentric type glass cover 20. With the presence of vacuum in the glass, heat loss from the absorber tube reduces. However, to maintain a vacuum is difficult and any mechanical damage will lose the vacuum and heat losses will increase. Figure 5

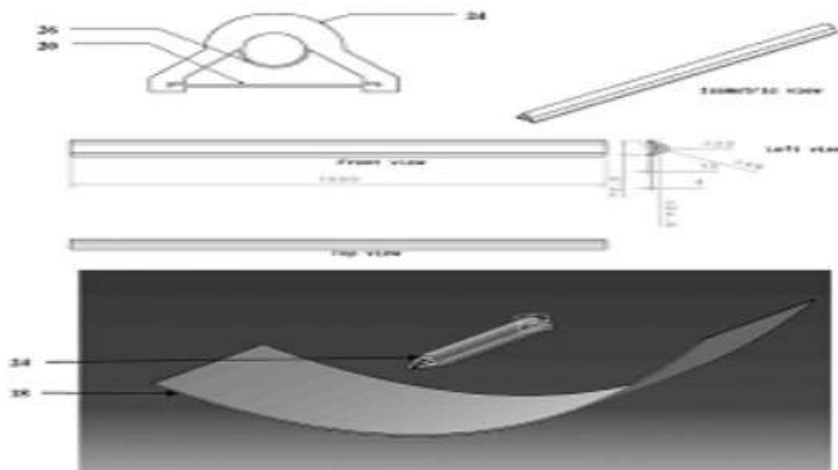


Figure 5

No. of Pages : 10 No. of Claims : 5

(54) Title of the invention : SYSTEM AND METHOD OF MEASURING SHEAR FORCE FOR HYPERSONIC MODELS

(51) International classification :G01H0011080000, G01N0033500000, H01R0013506000, G11B0005600000, F28F0009020000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :
Filed on :01/01/1900

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

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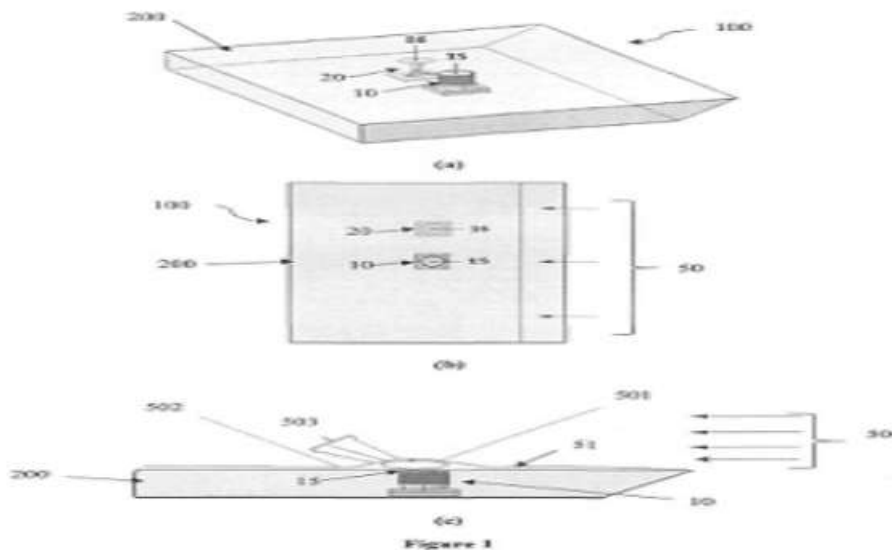
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Address of Applicant : NA

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2)Prof. Viren Menezes
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(57) Abstract :

The present invention discloses a system (100) for measuring shear-force on a surface of an object (200) of hypersonic model. The system comprises a measurement unit (10) and an acceleration unit (20), both placed in two separate hollow portions of the object (200). The measurement unit (10) comprises a first cantilever beam (40) and an enclosing (13). A shear sensitive component (11) is attached on the first cantilever beam (40). The shear sensitive component (11) is configured to be exposed to a flow (50) parallel to a flat surface of the object (200). The shear sensitive component (11) comprises a first floating head (15) and a damping mechanism (12) placed between the first floating head (15) and the enclosing (13). The acceleration unit (20) comprises a second cantilever beam (40) configured to be unexposed to the flow (50). Reference Figure: Figure 1



No. of Pages : 30 No. of Claims : 12

(54) Title of the invention : A POLYMER COMPOSITION AND PROCESS FOR COATING WOODEN PALLET WITH THE POLYMER COMPOSITION

(51) International classification :F16B0015000000, B65D0019310000, C08L0075020000, C08L0079080000, C08L0071020000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :
 Filed on :01/01/1900

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

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(57) Abstract :

A POLYMER COMPOSITION AND PROCESS FOR COATING WOODEN PALLET WITH THE POLYMER COMPOSITION
 ABSTRACT A polymer composition for coating wooden pallet is provided. The polymer composition includes a mixture of at least one of polyurea, polyurethane, silicon elastomer, and combination thereof in a predefined ratio. The polymer composition imparts desired properties such as high impact and abrasion resistance, elongation strength, and anti-static property along with flexural strength to the wooden pallet. The present invention also provides the process for coating the polymer composition onto the wooden pallet. The matrix coating process provides much stronger bonding due to overlap of coating of the polymer composition on the sides of the wooden pallet and reduces the wastage of the polymer composition during the coating of the wooden pallet. The present invention also provides the wooden pallet coated with the polymer composition. The wooden pallet coated with the polymer composition possesses the properties such as high impact resistance, abrasion resistance, and anti-static property. FIG. 1

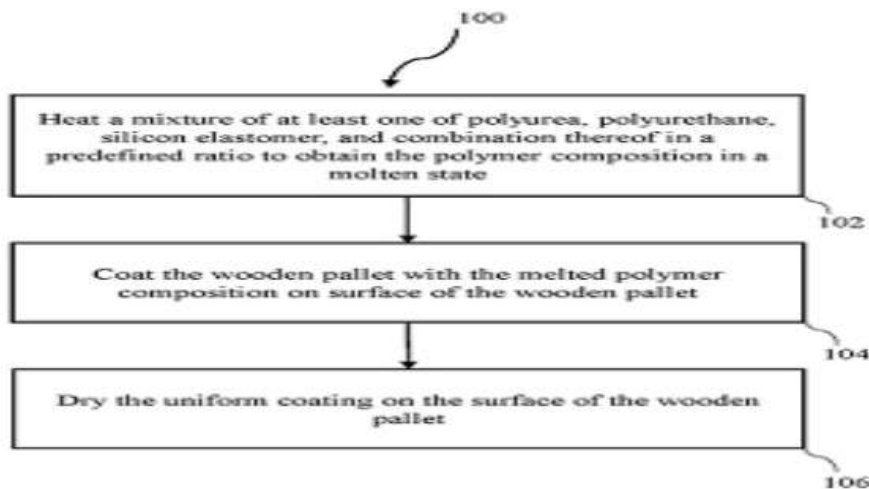


FIG.1

No. of Pages : 19 No. of Claims : 22

(54) Title of the invention : ELECTROCHEMICAL DEVICE AND ELECTRONIC DEVICE COMPRISING ELECTROCHEMICAL DEVICE

<p>(51) International classification :H01M0010052500, H01M0004620000, H01M0004505000, H01M0004525000, H01M0004131000</p> <p>(86) International Application No :PCT/CN2020/081846 Filing Date :27/03/2020</p> <p>(87) International Publication No :WO 2021/189477</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)NINGDE AMPEREX TECHNOLOGY LIMITED Address of Applicant :No.1 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)LIU, Junfei Address of Applicant :No.1 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>2)ZHANG, Shuirong Address of Applicant :No.1 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>3)TANG, Chao Address of Applicant :No.1 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>4)ZHENG, Jianming Address of Applicant :No.1 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p>
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(57) Abstract :

Disclosed are an electrochemical device and an electronic device comprising the electrochemical device. The electrochemical device comprises a positive electrode, a negative electrode, a separator located between the positive and negative electrodes, and an electrolyte solution, wherein the positive electrode comprises a positive electrode current collector and a positive electrode active material layer arranged on the positive electrode current collector. The positive electrode active material layer contains a positive electrode active material, wherein the positive electrode active material comprises element A selected from at least one of Al, B, Ca, Mg, Ti, Cu, Nb, Si, Zr, Y or W. The electrolyte solution contains at least one of 1,3-propane sultone or a derivative thereof. The mass ratio of the element A in the positive electrode active material to a compound of formula (I) is 1:0.2 to 1:50. The electrochemical device can exhibit an excellent electrochemical performance, especially in terms of reducing gas production and improving the cycling stability of the electrochemical device.

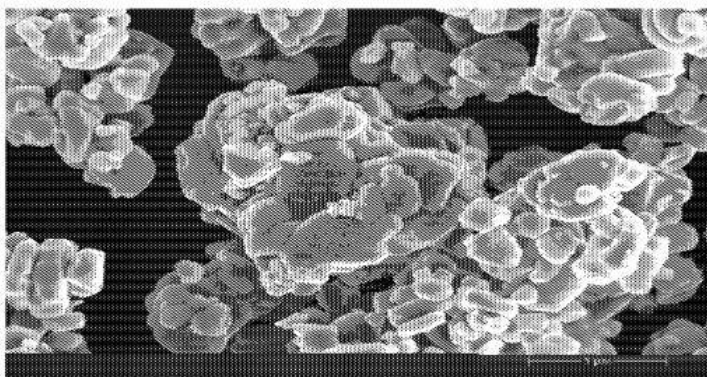


图 1B

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041048428 A

(19) INDIA

(22) Date of filing of Application :05/11/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN IMPROVED PROCESS FOR THE PREPARATION OF TRIGONELLINE OR PHARMACEUTICALLY ACCEPTABLE SALTS THEREOF

(51) International classification :A61K0031455000, A61K0045060000, C12P0017160000, C07D0311760000, C07D0513020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT AN IMPROVED PROCESS FOR THE PREPARATION OF TRIGONELLINE OR PHARMACEUTICALLY ACCEPTABLE SALTS THEREOF The present invention generally relates to an improved process for the preparation of Trigonelline or pharmaceutically acceptable salts thereof and to processes for its purification.

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : Donepezil Loaded Lipid Coated Nanoceria for Effective Management of Alzheimer Disease

(51) International classification :A61K0031445000, A61K0033240000, A61K0038220000, C07D0211320000, A61K0047550000

(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

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 -

(57) Abstract :
 The present invention describes a Donepezil Loaded Lipid Coated Nanoceria from Effective Management of Alzheimer’s Disease. Accordingly, the invention describes a process wherein Cerium Oxide nanoparticles (CNP) was selected as drug carrier because of its unique radical scavenging property and Donepezil loaded CNP were synthesized by chemical precipitation method and surface modified with lipid coating. The prepared Donepezil loaded CNP was subjected to in-vitro and in-vivo neuroprotective evaluation. The results indicate that Donepezil loaded CNP is a promising and effective formulation for AD. The free radical scavenging activity of CNP and anti-acetyl cholinesterase property of Donepezil maybe attributed for synergistic activity which enhances the neuroprotective and cognitive enhancement activity in Alzheimer’s Disease.

No. of Pages : 25 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041057514 A

(19) INDIA

(22) Date of filing of Application :31/12/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : Intelligent Power Over Ethernet IoT-Based Preterm Birth Detector

(51) International classification :A61B0005000000, H04L0029080000, A61B0005030000, A61B0008000000, A61B0008080000

(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

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(57) Abstract :

The preterm birth detection using IoT (209) has will be designed such that patient can avail detection facility at home and the patient need not visit the hospital frequently. The device is non-invasive, painless and patient friendly. Also, the usage of MEMS sensor (205) avoids the need of ultrasound signals which is introduced to the womb. Because the vibration signals (206) are taken from the surface of the lower abdomen this method will not stress the patient and offers ease of use. The present detector is highly useful and offers reliability. (Refer Fig. 1 and 2)

No. of Pages : 12 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041057521 A

(19) INDIA

(22) Date of filing of Application :31/12/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : ZINC AIR BATTERY FOR RURAL ELECTRIFICATION

(51) International classification	:H01M0012060000, H01M0010052500, A47G0029120000, G06F0008700000, H01M0010056800	(71)Name of Applicant : 1)RMD Engineering College Address of Applicant :RMD Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Tiruvallur, Tamil Nadu 601 206, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72)Name of Inventor :
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(87) 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 objective of the present invention focusses on indigenous production of rechargeable zinc air battery storage system that can provide power in those remote areas at a lower cost than lithium counterparts. As an initial initiative, the present investigation focus on the assembly of primary zinc air batteries with continuous optimization of battery design, electrolyte and electrode materials.

No. of Pages : 14 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141004011 A

(19) INDIA

(22) Date of filing of Application :29/01/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A HEAT SINK FOR RAPID HEAT DISSIPATION

(51) International classification :F21V0029770000, F21Y0115100000, B01J0019240000, H02K0005180000, H01L0023373000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

ABSTRACT A HEAT SINK FOR RAPID HEAT DISSIPATION The invention provides a heat sink for rapid heat dissipation. The heat sink includes a base having a flat surface and a curved surface. The curved surface has a varying thickness with respect to the flat surface. Perforated fins are radially arranged over the curved surface. The thickness of the curved surface with respect to the flat surface is in a ratio of 1:3 to 1:6. The Perforated fins are formed at a position where the ratio is 1:6. The duration of time required for dissipation of heat is in the range of 150 to 350 Reynolds number. The perforated fins shapes can be in the form of circular shape, a triangular shape, a square shape, a hexagonal shape, and a club shape. FIG.1 (a)

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141040816 A

(19) INDIA

(22) Date of filing of Application :08/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A RENEWABLE ENERGY GENERATING SYSTEM FOR CHARGING BATTERY OF ELECTRIC VEHICLE AND ELECTRIC DEVICES

(51) International classification :B60L0053300000, B60L0053140000, B60L0053800000, H02J0007000000, B60L0055000000
(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

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(57) Abstract :

ABSTRACT A RENEWABLE ENERGY GENERATING SYSTEM FOR CHARGING BATTERY OF ELECTRIC VEHICLE AND ELECTRIC DEVICES An energy generating system (100) for charging the battery of an electric vehicle (155) 10 and/or electrical devices (160) comprises a user (120) with electric vehicle (155) and/or electrical devices (160) having battery (105) installed thereon, a battery swapping station, an energy provider (115), an energy generating station (110). In particular, an energy provider (115) facilitates the communication between an energy generating station (110), a battery swapping station and the user (120). 15 Fig. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141041041 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : DESIGN AND FABRICATION OF PNEUMATICALLY ENGINEERED ANTHROPOMORPHIC CARRIER EXOSKELETON (P.E.A.C.E)

<p>(51) International classification :B25J0009000000, A61H0003000000, A61H0001020000, A41D0013002000, B25J0005000000</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. Jegadeeswaran N Address of Applicant :Professor, School of Mechanical Engineering, REVA University. -----</p> <p>2)Dr. Raju B S</p> <p>3)Dr. Manjunath L H</p> <p>4)Dr. B Somasundaram</p> <p>5)Dr. Raju B T</p> <p>6)Mr Parag Paekh</p> <p>7)Mr Parishith K H</p> <p>8)Mr Sugosh A Kulkarni</p> <p>9)Mr Vaibhav Rathnakumar</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Jegadeeswaran N Address of Applicant :Professor, School of Mechanical Engineering, REVA University. -----</p> <p>2)Dr. Raju B S Address of Applicant :School of Mechanical Engineering, REVA University -----</p> <p>3)Dr. Manjunath L H Address of Applicant :School of Mechanical Engineering REVA University -----</p> <p>4)Dr. B Somasundaram Address of Applicant :School of Mechanical Engineering REVA University -----</p> <p>5)Dr. Raju B T Address of Applicant :School of Applied Science, REVA University. -----</p> <p>6)Mr Parag Paekh Address of Applicant :School of Mechanical Engineering REVA University -----</p> <p>7)Mr Parishith K H Address of Applicant :School of Mechanical Engineering REVA University -----</p> <p>8)Mr Sugosh A Kulkarni Address of Applicant :School of Mechanical Engineering REVA University. -----</p> <p>9)Mr Vaibhav Rathnakumar Address of Applicant :School of Mechanical Engineering REVA University -----</p>
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(57) Abstract :

Abstract: The exoskeleton-type system is a brand new type of man-machine intelligent system. It fully combines human intelligence and machine power so that machine intelligence and human operator's power are both enhanced. Therefore, it achieves a high-level performance that neither could separately. The main function of a powered exoskeleton is to assist the wearer by boosting their strength and endurance. They are commonly designed for military use, to help soldiers carry heavy loads both in and out of combat. In civilian areas, similar exoskeletons could be used to help firefighters and other rescue workers survive dangerous environments. The medical field is another prime area for exoskeleton technology, where it can be used for enhanced precision during surgery, or as an assist to allow nurses to move heavy patients.

No. of Pages : 9 No. of Claims : 2

(54) Title of the invention : METHOD OF TREATMENT ON POLYPROPYLENE NON WOVEN FABRIC SHEETS WITH AQUEOUS HOMOGENOUS FORMULATIONS FO

(51) International classification :C11D0001940000, A61K0008650000, B01D0039160000, C11D0003480000, C11D0001000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

Abstract The present invention related to home care products developed in Polypropylene Non-Woven Fabric Sheets form fused with ultra-concentrated pre-measured biodegradable ingredients, wherein the aqueous formulation can include at least about 25% by weight of water based on the total weight of the aqueous formulation, surfactants, organic fatty amides, preservatives, emulsifiers, builder comprising potassium carbonate or sodium carbonate, polyether compounds, oxidizing agents, moisturizers and fragrance oil of natural origin. Surfactants can be cationic, anionic, ionic or zwitterionic in nature. The surfactants, organic fatty amides, oxidizing agents and moisturizers can be present in a combined total amount of about 20% to about 70% percent by weight or about 40% to about 48% by weight, based on the total weight of the aqueous formulation. In the present invention, the treatment on the aforesaid polypropylene non-woven fabric sheets is divided into 3 stages of varied temperature and time duration cycles, wherein the temperature and time duration in 1st stage, 2nd stage, and 3rd stage are 45T-60°C for 5-7 minutes, 60°C-75°C for 10-14 minutes, and 75°C-95°C for 15-20 minutes, followed by complete drying under fans for 10-20 minutes. The above mentioned time durations may vary depending on the external climatic conditions. The aqueous formulation is capable of remaining homogeneous over a relatively wide temperature range, such as during the treatment phase at varied temperature cycles. After drying, the sheet is sent to nearby local textile cutter for final cutting. Wherein the sheet(s) are cut into desired shape and size, preferably rectangle in shape with length of about 50-200mm and width of about 50-110mm The finished product are lightweight which leads to less transportation fuel consumption and carbon emissions compared to traditional powder/liquid cleaners packed in rigid plastic containers. Moreover, the usage of the end product has been simplified by just adding the number of sheets to prescribed volume of water to attain the final cleaning solution thus eliminating messy measurements, excess/over usage and spillage, also helping towards elimination of single use plastic which typically end up in a landfill thus polluting the environment.

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

<p>(51) International classification :G06Q0050060000, B60L0050530000, H02J0007350000, B62B0003000000, H02K0007140000</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.M.MARIMUTHU Address of Applicant :Department of Electrical & Electronics Engineering, Saranathan College of Engineering, Venkataswara Nagar, Panjappur, Trichy, Tamil Nadu, India 620012. -</p> <p>-----</p> <p>2)DR.S.VIJAYALAKSHMI 3)AR.DANILA SHIRLY 4)DR.R.RAMYA 5)DR.S.USHA 6)DR.R.SHENBAGALAKSHMI 7)R.VENUGOPAL 8)DR.MV. SUGANYA DEVI 9)C.PEARLINE KAMALINI 10)N.GAYATHRI</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR.M.MARIMUTHU Address of Applicant :Department of Electrical & Electronics Engineering, Saranathan College of Engineering, Venkataswara Nagar, Panjappur, Trichy, Tamil Nadu, India 620012. -</p> <p>-----</p> <p>2)DR.S.VIJAYALAKSHMI Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering, Saranathan College of Engineering, Venkateswara Nagar, Panjappur, Trichy, Tamil Nadu, India 620012. -----</p> <p>3)AR.DANILA SHIRLY Address of Applicant :Assistant Professor, Department of Electrical Engineering, Loyola-ICAM College of Engineering and Technology, Chennai, Tamilnadu, India 600034. -----</p> <p>-----</p> <p>4)DR.R.RAMYA Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai, Tamil Nadu, India 603203. -----</p> <p>5)DR.S.USHA Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chennai, Tamil Nadu, India 603203. -----</p> <p>6)DR.R.SHENBAGALAKSHMI Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering, Sinhgad Institute of Technology, Pune, Maharashtra, India 410401. -----</p> <p>-----</p> <p>7)R.VENUGOPAL Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering, Saranathan College of Engineering, Venkateswara Nagar, Panjappur, Trichy, Tamilnadu, India 620012. -----</p> <p>8)DR.MV. SUGANYA DEVI Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering, Saranathan College of Engineering, Venkateswara Nagar, Panjappur, Trichy, Tamilnadu, India 620012. -----</p> <p>9)C.PEARLINE KAMALINI Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering, Saranathan College of Engineering, Venkateswara Nagar, Panjappur, Trichy, Tamilnadu, India 620012. -----</p> <p>10)N.GAYATHRI Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering, Saranathan College of Engineering, Venkateswara Nagar, Panjappur, Trichy, Tamilnadu, India 620012. -----</p>
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(57) Abstract :

A solar-powered mobile vending cart with BLDC fed motor drive set is a device that is used to carry vegetables and fruits by vendors. Usually, unmotORIZED mobile vending machine arrangement is operated manually in streets for selling fruits and vegetables. A manually operated vending cart is quite disadvantageous since it requires that the person expends a large amount of energy in pushing the cart itself. It becomes more difficult for an aged person in case of crossing the bridges. Moreover, managing climatic changes is a serious concern, since there is no ambience shadow during sunny days, no light or fan can be attached to the cart during night hours. A vendor would expend the whole of his energy by pushing the cart itself without even getting as much as the benefit he expected. To address these issues motorized mobile cart is introduced to carry at least 50 kg of vegetables and fruits. The cart consists of a BLDC electric motor powered by solar panels mounted on the top of the mobile vending cart. The speed control mechanism with brake arrangement is provided for moving the cart at a different speed as required by the seller. The cart houses a battery storage arrangement which in turn drives the motor. A solar panel mounted on the top of the cart charges the battery. Further, the cart is provided with a light and, fan arrangement which enables the vendor to sell vegetables and fruits even during night time. Solar energy is available throughout the day and in-country like India it is available throughout the year. This arrangement is so beneficial as the energy thus generated is sustainable and carbon-free. It is helpful for the vendor in such a way that he can push the cart at ease without spending much of his energy and at the same time very much easy for him to handle during both sunny days and rainy days. He can use it during morning time as well as at night time. Further the proposed vending machine is attached with public addressing system for playing pre-recorded voice regarding the vegetable/fruits rates. The advantages of motorized mobile solar-powered vending cart for greengrocers are: it is highly economic, social and eco-friendly, energy-efficient, user-friendly, requires less running cost, and there is no maintenance cost since it does not consume power from the commercial Electricity Board.

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141042413 A

(19) INDIA

(22) Date of filing of Application :20/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD, SYSTEM AND DEVICE FOR CROP DETECTION

(51) International classification :G06K0009000000, G01N0033000000, G08B0021180000, G16H0040400000, G06F0016583000

(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

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(57) Abstract :

METHOD, SYSTEM AND DEVICE FOR CROP DETECTION ABSTRACT In one aspect, a crop detection system for detecting a crop comprising, a crop detection device, a database and an external server. The crop detection device is capable of monitoring and capturing one or more sensor data values from one or more sensors at a specific location. The database is capable of storing one or more datasets and sending at least one of dataset to the external server. The external server is capable of receiving, processing and comparing sensor data values from the crop detection device, with one or more datasets from the database. In an embodiment, the crop detection device is placed in the soil. In another embodiment, the sensor data values include at least one of pH value, moisture value, temperature & humidity value. In another embodiment, the external server identifies at least one crop name and its information when the sensor data values equal at least one data set from the database. [FIG. 1]

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : IOT BASED PATIENCE HEALTH DATA MONITORING AND MAINTENANCE WITH FOG COMPUTING

<p>(51) International classification :H04L0029060000, H04L0012260000, H04W0084180000, H04W0004700000, H04L0009060000</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)R.M.D. Engineering College, Kavaraipettai – 601206. Address of Applicant :R.M.D. Engineering College, Kavaraipettai – 601206. -- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.S.Muthusundari Address of Applicant :Associate Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipettai – 601206 ----- ---- 2)Dr.P.Ezhumalai Address of Applicant :Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipettai – 601206. ----- 3)Dr.M.A.Berlin Address of Applicant :Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipettai – 601206 ----- 4)Dr.C.S. Anita Address of Applicant :Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipettai – 601206 ----- 5)Dr.D.Rajalakshmi Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipettai – 601206 ----- ---- 6)Dr. A.K.Jaithunbi Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipettai – 601206 ----- ---- 7)M.Vedaraj Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipettai – 601206 ----- ---- 8)Dr.A.Gnanasekar Address of Applicant :Associate Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipettai – 601206 ----- ---- 9)K.Padmapiya Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipettai – 601206 ----- ---- 10)L. Sherin Beevi Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipettai – 601206 ----- ----</p>
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(57) Abstract :
Fog computing allows data to be processed on the network edge without reaching the cloud infrastructure to reduce latency and network bandwidth. However, it is not without its security challenges as existing security protocols, implemented in the fog, do not fully cater for the mobility and heterogeneity of the fog, especially on resource-constrained fog nodes. As such, this increases latency and overhead on those nodes which also affects the fog. This project investigates the possibility of creating a One- Time Pad-based encryption protocol with no packet loss; lesser time and energy overheads as compared to protocols that have been proposed by existing research. The protocol will be tested on wireless sensor nodes, which are resource constrained, and the outcome monitored. The One-Time Pads will be generated using a Random Number Generator within the nodes. Outcomes are positive and can be implemented on resource-constrained fog nodes.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141042417 A

(19) INDIA

(22) Date of filing of Application :20/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : REDUCTION ON 230KV TRANSMISSION LINE TRIPPING AT POLLUTED ENVIRONMENT DUE TO INSTALLATION OF POLYMER TYPE INSULATORS

<p>(51) International classification :H02G0007000000, G01R0031120000, H01B0017000000, H01B0017320000, H01B0017480000</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.M.S.Sivagama Sundari Address of Applicant :Assistant Professor, Electrical and Electronics Engineering, Amrita College of Engineering & Technology, Nagercoil, Tamil Nadu, India 629901. ----- -----</p> <p>2)Dr.M.Germin Nisha 3)Dr.M.John Robert Prince 4)Mr.K.Siva Subramanian Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.M.S.Sivagama Sundari Address of Applicant :Assistant Professor, Electrical and Electronics Engineering, Amrita College of Engineering & Technology, Nagercoil, Tamil Nadu, India 629901. ----- -----</p> <p>2)Dr.M.Germin Nisha Address of Applicant :Associate Professor, Electrical and Electronics Engineering, St.Xavier's Catholic College of Engineering, Chunkankadai, Nagercoil, Tamil Nadu, India. ----- -----</p> <p>3)Dr.M.John Robert Prince Address of Applicant :Professor, Department of Civil Engineering, St.Thomas College of Engineering and Technology, Chengannur, Kerala, India. ----- -----</p> <p>4)Mr.K.Siva Subramanian Address of Applicant :Assistant Professor, Electrical and Electronics Engineering, Amrita College of Engineering & Technology, Nagercoil, Tamil Nadu, India 629901. ----- -----</p>
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(57) Abstract :

In the proposed work, the main drawback in power system is the damage to the modern high voltage transmission lines due to degradation of the insulators. This work discuss about the merits of polymer type insulators and how it is affordable to polluted' environment in reducing flashovers and transmission line tripping's with remedial measures, because the composite polymeric insulators are the most important part of the high voltage transmission lines in a country to develop Ultra high voltage transmission lines, when compared to conventional old type porcelain insulators. Developing Ultra high voltage transmission lines in a country is possible to research and develop the insulators for better reliable and economical solution to the environmental pollution flashover of insulators.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141042419 A

(19) INDIA

(22) Date of filing of Application :20/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PREPARATION OF FOOD FROM CREOSOTE FUEL

<p>(51) International classification :A23B0004044000, A23L0003020000, A23L0003015000, A47J0037000000, F23J0015000000</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.M.John Robert Prince Address of Applicant :Professor, Civil Engineering, St.Thomas College of Engineering & Technology, Chengannur, Kerala, India 689521. -----</p> <p>2)Dr.M.Germin Nisha 3)Dr.M.S.Sivagama Sundari 4)Mr.K.Siva Subramanian Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.M.John Robert Prince Address of Applicant :Professor, Civil Engineering, St.Thomas College of Engineering & Technology, Chengannur, Kerala, India 689521. -----</p> <p>2)Dr.M.Germin Nisha Address of Applicant :Associate Professor, Electrical and Electronics Engineering, St.Xavier's Catholic College of Engineering, Chunkankadai, Nagercoil 629003, Tamil Nadu, India. -----</p> <p>3)Dr.M.S.Sivagama Sundari Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, Amrita College of Engineering and Technology, Erachakulam, Nagercoil 629901, Tamil Nadu, India. -----</p> <p>4)Mr.K.Siva Subramanian Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, Amrita College of Engineering and Technology, Erachakulam, Nagercoil 629901, Tamil Nadu, India. -----</p>
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(57) Abstract :

ABSTRACT OF INVENTION Preparation of food from Creosote fuel Small business provides the most conducive environment for women empowerment. The best way for women to meet their own needs is women entrepreneurship. The demand for energy is being increasing in our day to day lives, thereby the fuel demand is rising at a high peak. Even though there are more fuels that can be used for fire for preparing food, the usage of creosote is still challenging. Using creosote can be time efficient and the process is profitable too. The process includes preparing food by using creosote as fuel at considerable control and safe measures. The work mainly aims at providing a better fuel out of waste. In the process creosote is used as fuel instead of firewood or gas cylinders. Creosote is made into long logs in about 9 to 10 inches and ignited, the heat liberated is used in the cooking of smoked food and other double boiling cook foods, making sure that the cooking container is fully closed. The smoke produced as a result of ignition of the creosote is filtered by means of ESP and the air is treated by air treatment. The filtered treated smoke is then allowed to smoke the food or made to pass through a chimney. In this process the heat ignited is at a high temperature of about 1500 to 2000 degree F. Since the temperature is high, the heat given by the fire remains for a long time even after the fire is put out. This is the main advantage in the process, as smoked food and the double boiled food prepared in closed vessels require heat for its interior to get well cooked, These food can be sold in highly crowded public areas at about noon or evening time in trolley truck tent shops. Trolley truck tent shops are a good platform for small businesses especially for food. The entire process of cooking and selling can be done by a woman herself or by two women. The process does not require much labour once the setup is done. The overall setup of this process can be done in about Rs.28000 to Rs.35000 of investment. The cost of smoked food like smoked meat, smoked BBQ chicken etc. and double boiled soups and food is very high, it ranges about Rs.480 to Rs.990 per kg. If every single food for every single person as per their needs is sold for a low cost about Rs.50 to Rs.100 and if nearly 50 to 100 people buy food each day, then the women gets . an amount of minimum Rs.2500 to maximum Rs.10000 per day. If approximately the women gets Rs.3000 per day and if she save Rs.1000 per day then she can get back the amount she invested in about one month or one and half month. This is profitable too.

No. of Pages : 10 No. of Claims : 2

(54) Title of the invention : A NOVEL APPROACH FOR VIEWING BLUE PRINT OF THE BUILDING USING AVR CONSTRUCT APP

<p>(51) International classification :G06T0019000000, G06F0003010000, G02B0027010000, G06N0003000000, G06T0011000000</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. G. VENNIRA SELVI Address of Applicant :Department of Computer Science and Engineering, Global Institute of Engineering and Technology, Vellore, Tamilnadu, India 632509. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. G. Vennira Selvi Address of Applicant :Department of Computer Science and Engineering, Global Institute of Engineering and Technology, Vellore, Tamilnadu, India 632509. -----</p> <p>2)S. Prabavathy Address of Applicant :Department of Computer Science and Engineering, Global Institute of Engineering and Technology, Vellore, Tamilnadu, India 632509. -----</p> <p>3)R. Felista Sugirtha Lizy Address of Applicant :Department of Computer Science and Engineering, Global Institute of Engineering and Technology, Vellore, Tamilnadu, India 632509. -----</p> <p>4)Bharathi Anbarasan Address of Applicant :Department of Computer Science and Engineering, Global Institute of Engineering and Technology, Vellore, Tamilnadu, India 632509. -----</p> <p>5)G. Jeya Sutha Perciya Address of Applicant :Department of Computer Science and Engineering, Global Institute of Engineering and Technology, Vellore, Tamilnadu, India 632509. -----</p> <p>6)P. Roselin Address of Applicant :Department of Computer Science and Engineering, Global Institute of Engineering and Technology, Vellore, Tamilnadu, India 632509. -----</p> <p>7)A. Sahaya Arthy Address of Applicant :Department of Computer Science and Engineering, Global Institute of Engineering and Technology, Vellore, Tamilnadu, India 632509. -----</p> <p>8)S.M. Jainul Rinocha Address of Applicant :Department of Computer Science and Engineering, Global Institute of Engineering and Technology, Vellore, Tamilnadu, India 632509. -----</p>
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(57) Abstract :

Abstract: AVR CONSTRUCT is an android application that helps people plan out how they want their dream home to be built. A live, interactive simulation of a physical, real-world environment in which computer-generated sensory input augments the environments characteristics is known as Augmented Reality (AR). With the introduction of personal mobile devices capable of creating interesting augmented reality experiences, augmented realitys enormous potential has begun to be explored. This application builds a three-dimensional (three-dimensional) model of the building, allowing the user to obtain a sense of how the house will look and make changes if desired. Civil engineers can use this application to promote their expertise in creating houses by showing how they look in real life and how the interior looks. The usage of augmented reality (AR) and virtual reality (VR) allows people lo experience and feel as if they are living in their home before it is created.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141042451 A

(19) INDIA

(22) Date of filing of Application :20/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DUAL-TONE MULTI-FREQUENCY CONTROLLED ROBOT

<p>(51) International classification :G06F0009380000, H04W0012040000, H04M0001725000, B25J0009160000, H04M0001500000</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.IdrisHaddi Salih Assistant Professor Chairman Board of Trustees Tishk International University Erbil KRG Iraq Address of Applicant :100 meters Street, Near Filkey Baz, Erbil, KRG, Iraq -----</p> <p>2)Mr.Ganesh Babu Loganathan Assistant Professor Mechatronics Engineering Tishk International University Erbil KRG Iraq</p> <p>3)Dr. Mohammad Mustafa Othman Dzayi Assistant Professor Physical Department University of Salahaddin College of Education Erbil KRG Iraq Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.IdrisHaddi Salih Assistant Professor Chairman Board of Trustees Tishk International University Erbil KRG Iraq Address of Applicant :100 meters Street, Near Filkey Baz, Erbil, KRG, Iraq -----</p> <p>2)Mr.Ganesh Babu Loganathan Assistant Professor Mechatronics Engineering Tishk International University Erbil KRG Iraq Address of Applicant :100 meters Street, Near Filkey Baz, Erbil, KRG, Iraq -----</p> <p>3)Dr. Mohammad Mustafa Othman Dzayi Assistant Professor Physical Department University of Salahaddin College of Education Erbil KRG Iraq Address of Applicant :Karkuk street, Near Ministry of Higher Education and Scientific Research, Erbil, KRG, Iraq. -----</p>
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(57) Abstract :

A dual-tone multi-frequency controlled robot for detecting obstacles, comprises of a first mobile phone connected to a customer and a second mobile phone connected to a robot. The customer's phone is the order (instruction) transmitter and the second phone on the robot serves as the collector unit. The client may use extraordinary keys on the mobile keyboard to manage the movement of the robot and the dual-tone multiple frequency decoder ensures capturing and decoding the instructions. The decoded data is transferred to a microcontroller. The system uses sensors for metal identification and obstacle detection. When the metal finder distinguishes the metal present, the microcontroller transmits a high message to stop the robot movement.

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

(54) Title of the invention : COVID-19 PATIENT ASSISTING AND MONITORING ROBOT

<p>(51) International classification :G05D0001000000, G06Q0010060000, G06Q0050300000, B60W0040080000, B60W0050140000</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)Nawin Narayan S Address of Applicant :Department of Electronics and Communication Engineering, Chennai Institute of Technology, Sarathy Nagar, Kundrathur, Chennai — 600069, Tamil Nadu. -----</p> <p>2)Vinothram S</p> <p>3)Priyadharshini N</p> <p>4)G Vishnu Vardhan</p> <p>5)B. Nivedha Viehnu Priya</p> <p>6)Dr. J. Venkatesh</p> <p>7)Dr. R. Dhanagopal</p> <p>8)Sivabalan A</p> <p>9)A Tamilselvi</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Nawin Narayan S Address of Applicant :Department of Electronics and Communication Engineering, Chennai Institute of Technology, Sarathy Nagar, Kundrathur, Chennai — 600069, Tamil Nadu. -----</p> <p>2)Vinothram S Address of Applicant :Department of Electronics and Communication Engineering, Chennai Institute of Technology, Sarathy Nagar, Kundrathur, Chennai — 600069, Tamil Nadu. -----</p> <p>3)Priyadharshini N Address of Applicant :Department of Electronics and Communication Engineering, Chennai Institute of Technology, Sarathy Nagar, Kundrathur, Chennai — 600069, Tamil Nadu. -----</p> <p>4)G Vishnu Vardhan Address of Applicant :Department of Electronics and Communication Engineering, Chennai Institute of Technology, Sarathy Nagar, Kundrathur, Chennai — 600069, Tamil Nadu. -----</p> <p>5)B. Nivedha Viehnu Priya Address of Applicant :Department of Electronics and Communication Engineering, Chennai Institute of Technology, Sarathy Nagar, Kundrathur, Chennai — 600069, Tamil Nadu. -----</p> <p>6)Dr. J. Venkatesh Address of Applicant :Professor, Center for System Design, Chennai Institute of Technology, Sarathy Nagar, Kundrathur, Chennai — 600069, Tamil Nadu. -----</p> <p>7)Dr. R. Dhanagopal Address of Applicant :Associate Professor, Center for System Design, Chennai Institute of Technology, Sarathy Nagar, Kundrathur, Chennai — 600069, Tamil Nadu. -----</p> <p>8)Sivabalan A Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Chennai Institute of Technology, Sarathy Nagar, Kundrathur, Chennai — 600069, Tamil Nadu. -----</p> <p>9)A Tamilselvi Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Chennai Institute of Technology, Sarathy Nagar, Kundrathur, Chennai — 600069, Tamil Nadu. -----</p>
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(57) Abstract :

1. A robotic rover vehicle with six wheels mounted with several kinds of sensors for the purpose of monitoring the status of Covid-19 patients in the hospital, that is controlled by a human driver via cloud server. 2. As claimed in Claim 1, the robotic rover has a mobile camera for visually monitoring the status of the patients in the hospital wing and to facilitate for the pilot to drive the rover that can be controlled via Wi-Fi or can be controlled from any part of the world via the cloud based on the programming used in the PCB.

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

(54) Title of the invention : TOPICAL ANESTHETIC GEL COMPRISING BETEL LEAF EXTRACT

(51) International classification :A61K0009000000, A61K0036889000, A61K0047100000, A61K0009060000, A61K0036670000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
 The present invention is to provide a topical gel comprising betel leaf extract for the prevention and/or treatment of pain.

No. of Pages : 14 No. of Claims : 3

(54) Title of the invention : A METHOD FOR QUANTIFYING DOXYCYCLINE IN HUMAN PLASMA USING MINOCYCLINE AS THE INTERNAL STANDARD

<p>(51) International classification :A61K0031650000, G01N0033960000, G01N0030020000, G01N0030040000, G01N0030860000</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. Kumaraswamy.Gandla Address of Applicant :Professor, Department of Pharmacy, Chaitanya deemed to be university, Hanamkonda, Warangal Urban (Dist.) 506001, Telangana, India. -----</p> <p>2)Kona Shailaja 3)Dr.R.Suthakaran 4)Dr. Somnath De 5)Dr. Anil Kumar Veeragoni 6)Kishore Konam 7)Dr.Venu Madhav Katla 8)Santhosh Illendula 9)Sayed Sana 10)Teja Kumar Reddy Konatham</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Kumaraswamy.Gandla Address of Applicant :Professor, Department of Pharmacy, Chaitanya deemed to be university, Hanamkonda, Warangal Urban (Dist.) 506001, Telangana, India. ----</p> <p>2)Kona Shailaja Address of Applicant :Research Scholar, Career Point University, National Highway 52, Opp:Alaniya Mata Ji Mandir, Alaniya, Kota, Rajasthan-325003, India. -----</p> <p>3)Dr.R.Suthakaran Address of Applicant :Professor and Principal, Department of Pharmaceutical Chemistry, Vijaya College of Pharmacy, Munaganoor (V),Hayath Nagar (M), Hyderabad, 501511, Telangana, India. -----</p> <p>4)Dr. Somnath De Address of Applicant :Professor, St. Pauls College of Pharmacy, Turkayamjal (v), Nagarjuna sagar Road, R. R Dist.Hyderabad-501510 -----</p> <p>5)Dr. Anil Kumar Veeragoni Address of Applicant :Professor and HOD, Department of Pharmaceutical Analysis, Sahasra Institute of Pharmaceutical Sciences, Aarepally, Warangal Urban-506007 Telangana, India -----</p> <p>6)Kishore Konam Address of Applicant :Assistant Professor, Vignan institute of Pharmaceutical Sciences, Vignan hills, near Ramoji film city, Deshmukhi-508284, Telangana, India. -----</p> <p>7)Dr.Venu Madhav Katla Address of Applicant :Professor, St. Pauls College of Pharmacy, Turkayamjal (v), Nagarjuna sagar Road, R. R Dist.Hyderabad-501510, India. -----</p> <p>8)Santhosh Illendula Address of Applicant :Research Scholar,Shyam university campus, Dehlaal-Deedwana, Lalsot Bypass, NH-11A Extension, TehLalsot, Dist,Dausa, Rajasthan-303511,India. -----</p> <p>9)Sayed Sana Address of Applicant :Assistant Professor, Max institute of Pharmaceutical Sciences, Velugumatla, Khamman, Telangana -507318, India. -----</p> <p>10)Teja Kumar Reddy Konatham Address of Applicant :Research Scholar, University college of Technology, Osmania university, Amberpet Hyderabad -500007,Telangana, India -----</p>
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(57) Abstract :
ABSTRACT A METHOD FOR QUANTIFYING DOXYCYCLINE IN HUMAN PLASMA USING MINOCYCLINE AS THE INTERNAL STANDARD The present disclosure relates to a method (100) for quantifying doxycycline in human plasma using minocycline as the internal standard. The said method (100) comprises the steps of preparing (102) calibration curve standards, followed by making (104) quality control samples, followed by forming (106) of a plurality of test samples using Minocycline as the internal standard, followed by conducting (108) chromatography of the plurality of test samples and finally calculating (110) the amount of Doxycycline from the results of chromatography. (Fig. 1 will be the reference figure)

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

(54) Title of the invention : ADVANCED FOPID CONTROLLER ELEMENTS USING ARTIFICIAL INTELLIGENCE

<p>(51) International classification :G05D0001060000, B01J0008180000, G06F0016904000, A61B0005021000, G06F0017100000</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. N. Yuvaraj Address of Applicant :Manager, Training & Research, ICT Academy, ELCOT Complex, 2-7 Developed Plots, Industrial Estate, Perungudi, Chennai, Tamil Nadu 600096, India. ----- ----- 2)Dr. Ajay Kaushik 3)Prof. K. Ramkumar 4)Mr. Yash Dutt 5)Dr. N. V. Kousik Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. N. Yuvaraj Address of Applicant :Manager, Training & Research, ICT Academy, ELCOT Complex, 2-7 Developed Plots, Industrial Estate, Perungudi, Chennai, Tamil Nadu 600096, India. ----- ----- 2)Dr. Ajay Kaushik Address of Applicant :Associate Professor, Department of Computer Science and Engineering, SRM University, Delhi-NCR, Sonapat, Haryana-131029. ----- ----- 3)Prof. K. Ramkumar Address of Applicant :Associate Dean (Engineering & Technology), Professor, Department of Computer Science and Engineering, SRM University, Delhi-NCR, Sonapat, Haryana-131029. ----- ----- 4)Mr. Yash Dutt Address of Applicant :Student Researcher, Professor, Department of Computer Science and Engineering, Sonapat-131001. ----- ----- 5)Dr. N. V. Kousik Address of Applicant :Associate Professor, Department of School of Computing Science and Engineering, Galgotias University, Plot No. 2, Yamuna Expy, Opposite, Buddha Internation Circuit, Sector 17A, Greater Noida, Uttar Pradesh 203201. ----- -----</p>
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(57) Abstract :

ABSTRACT ADVANCED FOPID CONTROLLER ELEMENTS USING ARIFICIAL INTELLIGENCE This research uses meta heuristic techniques called Student Psychology Based Optimization to improve the efficiency of FOPID controller elements (SPBO). SPBO is are volutionary fast-converging algorithm that has been applied to a wide range of applications. To our knowledge, the SPBO meta heuristic method has never been employed in this sector. The proposed study tackles two distinct issues: the Continuous Stirred Tank Reactor (CSTR)and aircraft pitch angle control. The study employs 15-20 normal benchmark functions and 10-15 CEC2020/2021 routines for FOPID controller components. Because SPBO has a greater convergence rate, we will depict the result in terms of mean convergence rate and convergence graph, mean value, median value, standard deviation, wilcoxon and t-test. The proposed hybrid method is characterised by great performance and speed when addressing various optimization tasks. It is really obvious, both in terms of definition and execution. Ona variety of well-known test-optimization challenges, the approach was put to the test. On output indices like ISE, 1AE, 1TAI7., overshoot, settling lime, and rise time, the suggested method surpasses any of the more recent algorithms in this domain.

No. of Pages : 22 No. of Claims : 3

(54) Title of the invention : TRIPOD SUSPENSION BASED SYSTEM FOR PASSENGER SAFETY

(51) International classification :F23G0005500000, B60R0021203000, F16M0011120000, G01N0021900000, D06F0037220000

(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

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(57) Abstract :

A tripod suspension based system for ensuring passenger safety is disclosed. The system comprises a seating arrangement with a three-spring damper configuration, wherein in the three-spring damper configuration each of three springs is installed in a vertical plane such that each of the three springs are located at an angle of 60 degree to the vertical plane, and at 120 degree along a circumference to each other.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141042654 A

(19) INDIA

(22) Date of filing of Application :21/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A METHOD AND A SYSTEM FOR DETECTING ODOURLESS AND HAZARDOUS GAS EMISSION FROM CLOSED DRAINAGE STORAGE LOCATIONS

<p>(51) International classification :G01N0033000000, E02D0029140000, G08B0021140000, G08B0021160000, G01N0027120000</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.KCK. Vijayakumar Principal Address of Applicant :Principal, Vivekanandha College of Engineering for Women (Autonomous), Elayampalayam, Tiruchengode, Tamil Nadu, India 637205. ----- 2)Dr.R.Saravanakumar 3)Dr.P.T. Kalaivaani 4)Dr.T.S.JeyaliLaseetha 5)Dr.M.Malathi 6)Dr.S.Kokila, 7)Dr.R.Nirmala 8)Dr.E.Kamalavathi Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.KCK. Vijayakumar Principal Address of Applicant :Principal, Vivekanandha College of Engineering for Women (Autonomous), Elayampalayam, Tiruchengode, Tamil Nadu, India 637205. ----- 2)Dr.R.Saravanakumar Address of Applicant :Professor-ECE, Vivekanandha College of Engineering for Women (Autonomous), Elayampalayam, Tiruchengode, Tamil Nadu, India 637205. ----- 3)Dr.P.T. Kalaivaani Address of Applicant :Associate Professor & Head - ECE, Vivekanandha College of Engineering for Women (Autonomous), Elayampalayam, Tiruchengode, Tamil Nadu, India 637205. ----- 4)Dr.T.S.JeyaliLaseetha Address of Applicant :Professor-ECE, Vivekanandha College of Engineering for Women (Autonomous), Elayampalayam, Tiruchengode, Tamil Nadu, India 641048. ----- 5)Dr.M.Malathi Address of Applicant :Assistant Professor-ECE, Vivekanandha College of Engineering for Women (Autonomous), Elayampalayam, Tiruchengode, Tamil Nadu, India 641048. ----- 6)Dr.S.Kokila, Address of Applicant :Assistant Professor-ECE, Vivekanandha College of Engineering for Women (Autonomous), Elayampalayam, Tiruchengode, Tamil Nadu, India 637205. ----- 7)Dr.R.Nirmala Address of Applicant :Assistant Professor-ECE, Vivekanandha College of Engineering for Women (Autonomous), Elayampalayam, Tiruchengode, Tamil Nadu, India 637205. ----- 8)Dr.E.Kamalavathi Address of Applicant :Professor-ECE, Vivekanandha College of Engineering for Women (Autonomous), Elayampalayam, Tiruchengode, Tamil Nadu, India 637205. -----</p>
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(57) Abstract :

ABSTRACT A system for detecting the presence of hazardous and odourless poisonous gases inside a sewer and manhole normally closed by a manhole cover, said system comprising a detection system operable to detect the presence of a volatile, odourless and hazardous gas in the vicinity below the cover and to produce an alarm when the presence of such gas is detected inside the sewer and manhole; a processing system for receiving the signals from the detection system and to output the status inside the sewer manhole; an audible and visual indication and alarm system to warn the presence of such hazardous gases and an air sucking pump for sucking out the hazardous gases from the inside of the sewer and manholes. The system further comprises a LCD and buzzer alarm for providing visual and audible alerts and the detection system further comprises MQ8 sensor to detect hydrogen sulphide gas, MQ7 sensor for detecting carbon monoxide gas, MQ4 sensor to detect methane gas inside the said manhole.

No. of Pages : 19 No. of Claims : 4

(54) Title of the invention : HYBRID MEMORY CUBE ORIENTED IMAGE CLASSIFICATION USING A MACHINE LEARNING TECHNIQUE

(51) International classification :G06K0009620000, G06N0003040000, G06N0003080000,
G06N0020000000, G11C0007100000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
 ABSTRACT HYBRID MEMORY CUBE ORIENTED IMAGE CLASSIFICATION USING A MACHINE LEARNING TECHNIQUE In this present invention, the host processor present in the HMC is configured with machine learning algorithm that reduces the deep queues while processing the HMC for image classification. The main learning in host processor reduces the complex scheduling of task while carrying out the classification task. It offers high reordering of tasks and enables maximized performance. The integration of Artificial Neural Network host processor offers flexibility of scheduling, reduced timing constraints and prevents overrun. It has the ability to process the task without reducing the high volume DRAM. It offers increased improvement in case of random request stream, and act as a potential responders for a typical request.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141042658 A

(19) INDIA

(22) Date of filing of Application :21/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MULTILAYER SOAP

(51) International classification :B32B0027080000, H01G0004232000, B32B0027320000, B29L0009000000, B29C0049220000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

ABSTRACT MULTI-LAYER SOAP The present invention provides a multi-layered soap consisting of a face layer and a body layer. Said soap consists of at least two layers which has at least a face washing soap layer with pH level of 5.2 and a body washing soap layer with a level pH of 6.1. Said multi-layer soap (1) consists of 10 to 30 percentage of face layer portion (2) and remaining 70 to 90 percentage of body layer portion (3). The multi-layer soap (1) formation through moulding consists the processes such as extrusion moulding, compression moulding and cast moulding. FIG -1

No. of Pages : 22 No. of Claims : 3

(54) Title of the invention : IMPLEMENTATION OF REALTIME MULTI OBJECT DETECTION (MOT) BY SPEED K210 AI PROCESSOR

(51) International classification :H04N0007180000, G06K0009000000, G08B0013196000, G06K0007140000, G06T0007254000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 Real Time Multiple-Object Tracking (MOT) is an emerging technology in video surveillance, video tracking and object detection. In modern world, real time uses of MOT system is limited. So, the proposed system gives the real time application of object detection with the help of AI processor. The performance of AI processor with MOT system is measured by using these techniques. The proposed system is an automated moving object detecting device. It consists of AI camera, TFT display embedded in an AI processor which keep user under observation at all the time. The paper proposed a portable device as a TFT display which is automatically-activated when camera is on. The camera is checking the object AI based and displays the name of the object in the display in real time. The proposed protocol in multiple object detection gives high speed on giving the systems original efficiency. The AI processor is nothing but, a processor consists of inbuilt wi-fi module and GPIO for interaction with the outside world.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141042669 A

(19) INDIA

(22) Date of filing of Application :21/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : BOAT LOCALISATION & LINE OF ACTUAL CONTROL FOR BORDER IDENTIFICATION

<p>(51) International classification :H04B0017318000, H04W0074080000, H04W0024100000, H04W0088020000, H04L0012260000</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. B. GOPI Address of Applicant :11A/25, SWAMI SIVANANDA SALAI, RASIPURAM, TAMIL NADU, INDIA, 637 408 ----- -----</p> <p>2)Dr. KURUVIKULAM CHANDRASEKARAN ARUN Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1) Dr. B. GOPI Address of Applicant : 11A/25, SWAMI SIVANANDA SALAI, RASIPURAM - 637408, TAMIL NADU. ----- -----</p> <p>2)Dr. KURUVIKULAM CHANDRASEKARAN ARUN Address of Applicant :LECTURER, FORENSIC AND CYBER SECURITY RESEARCH CENTER, SCHOOL OF TECHNOLOGY, ASIA PACIFIC UNIVERSITY OF TECHNOLOGY AND INNOVATION, TECHNOLOGY PARK, BUKIT JALIL, KUALA LUMPUR, MALAYSIA, 57000 ----- -----</p>
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(57) Abstract :

The technology proliferation of Received Signal Strength Indication (RSSI) is used to provide location-based positioning and time details in all climatic conditions and even anywhere any time. In telecommunications, received signal strength indicator (RSSI) is a measurement of the power present in a received radio signal. RSSI can be used internally in a wireless networking card to determine when the amount of radio energy in the channel is below a certain threshold at which point the network card is clear to send (CTS). Once the card is clear to send, a packet of information can be sent. The end-user will likely observe a RSSI value when measuring the signal strength of a wireless network through the use of a wireless network monitoring tool like Wireshark, Kismet or Insider. To become a revolutionizing tool for fisherman boats border crossing issues. The proposed system coins a low cost border crossing alert system that amalgamating the potency of RSSI device. It continuously monitoring, tracking, alerting and controlling the fishermans activity from the remote station located on the shore.

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

(54) Title of the invention : MACHINE LEARNING BASED ROBOT FOR WASTE COLLECTING FROM WATER

<p>(51) International classification :E01H0001000000, B01J0020240000, C02F0001320000, B01D0003100000, C02F0007000000</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. LAKSHMI PRIYA NARENDRUNI Address of Applicant :7-01, Divya Nagar, Kachavani Nagaram, Narapally, Hyderabad, Telangana, India 500 088. ----- ----- 2)Dr. RAJASEKHAR TURAKA 3)Dr L K SRAVANTHI POTTI 4)Mr. NAGESWARA RAO MALISETTI 5)Dr DASARI MADHAVI 6)Mr. BONAGIRI KOTESWAR RAO 7)Mrs. N SUJATA GUPTA Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. LAKSHMI PRIYA NARENDRUNI Address of Applicant :7-01, Divya Nagar, Kachavani Nagaram, Narapally, Hyderabad, Telangana, India 500 088. ----- ----- 2)Dr. RAJASEKHAR TURAKA Address of Applicant :Korremula X Road, Chowdariguda (Vil), Ghatkesar (M), Ranga Reddy (District), Hyderabad, Telangana, India 500 088. ----- ----- 3)Dr L K SRAVANTHI POTTI Address of Applicant :Near Rangani Gudi, Ananthagiri Road, Suryapet District, Kodad, Andhra Pradesh, India 508 206. ----- ----- 4)Mr. NAGESWARA RAO MALISETTI Address of Applicant :NH-9, Vijayawada - Hyderabad Highway, Kanchikacherla, Andhra Pradesh, India 521 180. ----- ----- 5)Dr DASARI MADHAVI Address of Applicant :V.N.Pally, Near Gandipet, R.R. District, Hyderabad, Telangana, India 500 075. ----- ----- 6)Mr. BONAGIRI KOTESWAR RAO Address of Applicant :Dundigal, Medchal(District), Hyderabad, Telangana, India 500 043. ----- ----- 7)Mrs. N SUJATA GUPTA Address of Applicant :Kacharam, Shamshabad, Hyderabad, Telangana, India 501218. -----</p>
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(57) Abstract :
Abstract Water is a fundamental need for all living beings; cleanliness and sanitation of water is . necessary to preserve. Water is contaminated because of various factors, such as industrial waste, waste, wastewater, etc. water from lakes and ponds are cleaned by traditional methods. Technology must be incorporated to ensure cleanup is performed safely and efficiently. We regard that as a serious problem and begin to investigate. Cleaning of floating water such as plastic bottles contends with friction on the surface of the water in developed countries and a small drag force causes garbage to drift downstream. The aim of this study is to build and collect a robot that replaces the human force for the collection of floating waste. The waste collected is stored in a container.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141042687 A

(19) INDIA

(22) Date of filing of Application :21/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : STUDY OF ELECTRICAL PROPERTIES OF (80wt% PEO+20wt% PVDF)+ 7.5wt% NaClO₄ +16wt% Fe₂O₃ NANOCOMPOSITE POLYMER ELECTROLYTE FOR THE APPLICATION OF SODIUM-ION BATTERY

(51) International classification :H01M0010054000, G01N0027020000, G01N0023200000, C04B0035453000, G01Q0030020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

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

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

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(57) Abstract :

The current invention is meant for synthesizing and characterizing Nanocomposite Polymer Electrolyte (NCPE) films based on a blend of two polymers poly (ethylene oxide) (80wt%PEO) and poly (vinylidene fluoride) (20wt%PVDF) complexed with sodium perchlorate (7.5wt%NaClO₄) salt and Nano-filler iron oxide (xwt%Fe₂O₃) (i.e., (0.8PEO/0.2PVDF)+ 7.5wt%NaClO₄+ xwt%Fe₂O₃ where x = 4, 8, 12, 16, and 20). The prepared NCPE films are subjected to X-Ray Diffraction (XRD) and Scanning Electron Microscopy (SEM) characterization techniques for finding complexation and surface morphology respectively. In order to study the Na-ion transport, dielectric relaxation and electric modulus behaviour of the films Electrochemical Impedance Spectroscopy (EIS) is carried out in the frequency range from 10 Hz to 4 MHz. Investigation has been made on Na-ion transport, dielectric relaxation and ionic conductivity and the influence of Fe₂O₃ Nano-filler concentration (Fe₂O₃wt%) on them. Jonscher's power law is applied to know the compatibility of AC conductivity of prepared films. The bulk resistance (R_b) of films is used to compute DC ionic conductivity values and found consistent with the values calculated from the nonlinear curve fit of Jonscher's power law. It is also found from the empirical study that the temperature-dependent ionic conductivity of the films is in tune with Arrhenius rule between 303 and 333 K. The highest ionic conductivity 1.13x10⁻⁴ S/cm is observed for (0.8PEO/0.2PVDF) +7.5wt%NaClO₄ +16wt%Fe₂O₃ NCPE film at ambient temperature. The current invention is useful for different stakeholders such as battery manufacturers, users of power storage and energy supply gadgets, researchers, nano technology scientists and academia. It has potential to have high impact on various real world products and applications associated with batteries.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141042720 A

(19) INDIA

(22) Date of filing of Application :21/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A SATELLITE DISPENSING SYSTEM FOR CUBESAT

(51) International classification :B64G0001100000, B64G0001640000, E05B0047000000, E05B0077540000, E05B0079200000
(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
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(57) Abstract :

The present invention relates to a satellite dispensing system for cubesat. The system comprising: a structure having multiple canisters for storing the satellites, a door assembly removeably adapted at the opening side of the canister; a door lock and release mechanism disposed inside the door assembly to lock and release the door; a wire unit connected with the door lock and release mechanism at one end and to a fuse at another end; and a control unit having an actuator unit connected with the fuse, the control unit is configured to release each satellite from the canister into a predefined orbit upon receiving an actuation command signal in a predetermined fraction of time.

No. of Pages : 34 No. of Claims : 19

(54) Title of the invention : IOT BASED SMART BIN MONITORING SYSTEM FOR SMART CITIES

(51) International classification :H04L0029080000, B65F0001140000, G06F0012020000, G06Q0050260000, B65F0001000000

(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
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(57) Abstract :
 ABSTRACT IOT BASED SMART BIN MONITORING SYSTEM FOR SMART CITIES In the present scenario, the massive rise in the human population generates unsanitary atmosphere for the citizen of a society with respect to waste generation. This fast generation of waste centrals to different types of contagious diseases spread in our society. Demanding labor works and its financial needs to achieve and screen waste bins in the form of real time. To achieve society cleanliness along with the real-time screening of garbage bins, a novel system applicable through smart bin mechanism (SBM) applied for smart metropolises is proposed in this research which is completely established based on the Artificial Intelligent of things (AIoT). Along with SBM works on the Recycle, Reduce, and Reuse (3R concept). The SBM has the key to display a real-time data on individual bins and helps in avoiding overloading wastes of these bins. Thus the proposed invention decline the employment cost and avoids time and energy of the labor systems. Overall, in this present invention in this research we propose a garbage collector which tends to utilize of the smart technologies including IoT and Cloud Storage for developing effective solid waste management in municipal cities with over populations.

(54) Title of the invention : A METHOD FOR PRODUCTION OF CINNARIZINE TRANSDERMAL PATCH

(51) International classification :A61K0009700000, A61K0031495000, A61L0031140000, A61K0031522000, A61K0047120000

(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

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(57) Abstract :

ABSTRACT A METHOD FOR PRODUCTION OF CINNARIZINE TRANSDERMAL PATCH Cinnarizine is an antihistamine and calcium channel blocker drug that is to be introduced into the human circulatory system. Transdermal Patches are a method of drug delivery. The present disclosure relates a method (100) for production of Cinnarizine Transdermal Patch, wherein said method (100) comprises the steps of preparing (102) a solution of Cinnarizine, mixing (104) of the Cinnarizine solution to a plurality of polymers, adding (106) a solvent mixture to the mixture of Cinnarizine and polymers, setting aside (108) the solvent, Cinnarizine solution and polymer mixture, introducing (110) a plasticizer to the prepared mixture and drying (112) of the mixture. (Fig. 1 will be the reference figure)

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

(54) Title of the invention : A SYSTEM FOR AUTOMATIC PALLET CHANGER IN WAREHOUSE BY USING MACHINE LEARNING.

(51) International classification :B23Q0007140000, G06Q0050280000, H04N0021431000, B65G0001040000, G06Q0010080000

(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

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(57) Abstract :
 The system for automatic pallet changer in warehouse by using machine learning comprising to automatic pallet changer in warehouse. More particularly present invention relates to the automatic pallet changer using by machine learning system and technique by use of its supporting members and also receiving actual-time robotics information and using the real-time robotics statistics to decide an amount of time to rearrange the pallets to the premier layout and determine out the most reliable controlled-get admission to dense grid layout to which to set up the pallets is further based totally on predetermined pallet locations in the warehouse for precise pallets, and in which, within the most suitable managed-get entry to dense grid format, the particular pallets are located on the predetermined pallet places also most appropriate deep lanes format, pallets having objects expected to be shipped out of the warehouse within a threshold period of time from a present date.

No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : QUINOXALINE-SULFONYL-1,2,4-TRIAZOLE HYBRIDS AND PREPARATION THEREOF AS ANTICANCER AGENTS

<p>(51) International classification :C07C0255600000, C07D0249120000, C07D0249140000, C07C0049255000, C07K0005060000</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)Chaitanya (Deemed to be University) Address of Applicant :H. No: 5-11-43, Kishanpura, Hanamkonda -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Ravinder Manchal Address of Applicant :Professor, Department of Chemistry, Chaitanya (Deemed to be University), H. No: 5-11-43, Kishanpura, Hanamkonda, 506001 -----</p> <p>2)Gouthami Dasari Address of Applicant :Research Scholar, Department of Chemistry, Chaitanya (Deemed to be University), H. No: 5-11-43, Kishanpura, Hanamkonda, 506001 -----</p> <p>3)Vinitha Badithapuram Address of Applicant :Research Scholar, Department of Chemistry, Chaitanya (Deemed to be University), Kishanpura, Hanamkonda, 506001 -----</p> <p>4)Dr. Satheesh Kumar Nukala Address of Applicant :Associate Professor, Department of Chemistry, Chaitanya (Deemed to be University), H. No: 5-11-43, Kishanpura, Hanamkonda, 506001 -----</p> <p>5)Dr. Narasimha Swamy Thirukovela Address of Applicant :Associate Professor, Department of Chemistry, Chaitanya (Deemed to be University), H. No: 5-11-43, Kishanpura, Hanamkonda, 506001 -----</p> <p>6)Dr. Narsimha Sirassu Address of Applicant :Associate Professor, Department of Chemistry, Chaitanya (Deemed to be University), H. No: 5-11-43, Kishanpura, Hanamkonda, 506001 -----</p> <p>7)Dr. Srinivas Bandari Address of Applicant :Professor, Department of Chemistry, Chaitanya (Deemed to be University), H. No: 5-11-43, Kishanpura, Hanamkonda, 506001 -----</p>
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(57) Abstract :

QUINOXALINE-SULFONYL-1,2,4-TRIAZOLE HYBRIDS AND PREPARATION THEREOF AS ANTICANCER AGENTS The present invention provides quinoxaline-sulfonyl-1,2,4-triazole hybrids of Formula I, Formula I wherein R is hydrogen, 4-nitro, 4-methyl, 4-methoxy, 4-bromo, 2,4-dimethyl, 4-cyano, 4-fluoro, 3,5-dichloro-4-difluoro methoxy, 3,4-dichloro, 2,5-dimethoxy, 3,5-dichloro-4-fluoro, 3,5-dibromo, 3-nitro group, their process for preparation and composition. The quinoxaline-sulfonyl-1,2,4-triazole hybrids of Formula I were screened for their in vitro anticancer activity against four human cancer cell lines viz. HepG2 (liver cancer cell line), A 549 (lung cancer cell line) MCF-7 (breast cancer cell line), and DU-145 (prostate cancer cell line). The results revealed that the five compounds namely 5j, 5g, 5d, 5b and 5k exhibited promising activity against all cell lines. Predominantly, the compound 5j displayed higher activity over HepG2, A549, MCF-7 and DU-145 with IC50 values of 2.20±0.28 µM, 3.02±1.31, 2.03±0.22 µM and 1.95±1.34µM respectively than standard Etoposide. The kinase inhibitory assay against the tyrosine kinase EGFR for the potent compounds (5b, 5d, 5g, 5j and 5k) supported the observed in vitro anticancer activity. Fig. 1

No. of Pages : 24 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141042811 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : ULTRA-CONCENTRATED NON-TOXIC AQUEOUS HOMOGENOUS FORMULATIONS FOR CLEANING NEEDS

(51) International classification :C11D0003200000, C11D0001940000, C11D0017040000, C11D0003480000, C11D0001900000

(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

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(57) Abstract :

The present invention relates to home care products developed in ultra-concentrated solution with biodegradable ingredients, wherein the aqueous formulation can include at least about 10% by weight of water based on the total weight of the aqueous formulation, surfactants, organic fatty amides, preservatives, emulsifiers, builder comprising potassium carbonate or sodium carbonate, polyether compounds, oxidizing agents, moisturizers and fragrance oil of natural origin. Surfactants can be cationic, anionic, ionic or zwitterionic in nature. The surfactants, organic fatty amides, oxidizing agents and moisturizers can be present in a combined total amount of about 20% to about 90% percent by weight, based on the total weight of the aqueous formulation. The products of this invention i.e., ultra-concentrated non-toxic aqueous homogenous formulation is easy to prepare, eco-friendly, biodegradable and economical. The products of this invention show disinfection, anti-bacterial, anti-fungal, and anti-microbial properties. The finished products are ultra-concentrated and hence can be packed in 15-100ml recycled bottles which are lightweight which leads to less transportation fuel consumption and carbon emissions compared to traditional powder/liquid cleaners packed in huge rigid plastic containers. Moreover, the usage of the end product has been simplified by just adding the number of drops to prescribed volume of water to attain the final cleaning solution thus eliminating messy measurements, excess/over usage and spillage, this reducing the use of plastic by almost 80% as the present inventions' concentration levels ranges from 1:100 to 1:2666 and are packed in compact bottles ranging from 15ml-100ml depending on the market acceptability.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141042868 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : POTENTIAL RESOURCE RECOVERY FROM MUNICIPAL SOLID WASTE USING REFUSED DERIVED FUEL

(51) International classification :B09B0003000000, C10L0005460000, B03B0009060000, C12P0005020000, F23G0005080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT The municipal solid waste (MSW) is processed to improve the physical and chemical properties of solid waste. During the process non-combustible material such as glass and metals are removed. Refuse Derived Fuel (RDF) technology provides an alternative means for safe and eco-friendly disposal of municipal solid waste of the village panchayat. This technology also provides another source of energy. Many studies show that RDF can be an efficient alternative to the coal. It is initiated to assess the potential of power generation from refuse derived fuel from MSW in order to reduce the dependency on fossil fuels. Using RDF technology will be helpful for achieving the aim of clean and healthy India..

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

(54) Title of the invention : MANUFACTURE OF PLASTIC BLOCKS - PLOX

<p>(51) International classification :B09B0001000000, E04C0001400000, E04D0001300000, E04B0002040000, B28B0023000000</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)M. Sivaranjani Address of Applicant :Department of Civil Engineering, Sri Sai Ram Engineering College, Sai Leo Nagar, West Tambaram, Chennai, Tamilnadu, India 600044. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)M. Sivaranjani Address of Applicant :Department of Civil Engineering, Sri Sai Ram Engineering College, Sai Leo Nagar, West Tambaram, Chennai, Tamilnadu, India 600044. -----</p> <p>2)R. Pamila Address of Applicant :Department of Civil Engineering, Sri Sai Ram Engineering College, Sai Leo Nagar, West Tambaram, Chennai, Tamilnadu, India 600044. -----</p> <p>3)A. Sujaatha Address of Applicant :Department of Civil Engineering, Sri Sai Ram Engineering College, Sai Leo Nagar, West Tambaram, Chennai, Tamilnadu, India 600044. -----</p> <p>4)S. Sivakumar Address of Applicant :Department of Civil Engineering, Sri Sai Ram Engineering College, Sai Leo Nagar, West Tambaram, Chennai, Tamilnadu, India 600044. -----</p> <p>5)R. Subalakshmi Address of Applicant :Department of Civil Engineering, Sri Sai Ram Engineering College, Sai Leo Nagar, West Tambaram, Chennai, Tamilnadu, India 600044. -----</p>
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(57) Abstract :

ABSTRACT PLOX are plastic blocks which are interlocked with each other to form building structures. Plox require less time for construction and can be used immediately eliminating the hardening which is essential in conventional brick construction technique. Plox get interlocked due to the Protrusion and Depression provided in the blocks and is produced from the scrap plastics which are available abundantly due to the increased population and industrial growths. It has also been estimated that annual waste generation will likely increase to 165 million tonnes by 2030 which means that 66,000 hectares of land will be required to set up a landfill site that is 10 meters high. The Required scrap plastic is first Collected, Melted with the appropriate additives and then Poured into the mould to obtain the PLOX of specific dimensions. One single PLOX box produced costs lesser than that of the standard brick.

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

(54) Title of the invention : Method to Improve Renewable Energy System Efficiency by Smart Grid

<p>(51) International classification :H02J0003380000, G06Q0050060000, H02J0003000000, G06F0001320300, G06F0030200000</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.B.V.S.Achryulu Address of Applicant :Dr.B.V.S.Achryulu ,Professor , Department of Electrical & Electronics Engineering , Lendi Institute of Engineering and Technology, Jonnada (Village), Denkada (Mandal), Vizianagaram-535005, Andhra Pradesh, India, acharyulu201@yahoo.com, 9989364605 -----</p> <p>2)Dr.M. K.Loganathan 3)Dr. P. Rama Mohan 4)Dr. B. M. Manjunatha 5)Mr.RakeshRanjan 6)Mr. Praveen Kumar 7)Mr. Nitish Kumar Choudhary</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.B.V.S.Achryulu Address of Applicant :Dr.B.V.S.Achryulu ,Professor , Department of Electrical & Electronics Engineering , Lendi Institute of Engineering and Technology, Jonnada (Village), Denkada (Mandal), Vizianagaram-535005, Andhra Pradesh, India, acharyulu201@yahoo.com, 9989364605 -----</p> <p>2)Dr.M. K.Loganathan Address of Applicant :Dr.M. K.Loganathan, Professor, Department of Mechanical Engineering, The Assam Kaziranga University, Jorhat, Assam- 785006, India. -----</p> <p>3)Dr. P. Rama Mohan Address of Applicant :Dr. P. Rama Mohan, Associate Professor, Department of Electrical & Electronics Engineering, Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal - 518501, Andhra Pradesh, India. -----</p> <p>4)Dr. B. M. Manjunatha Address of Applicant :Dr. B. M. Manjunatha, Associate Professor, Department of Electrical & Electronics Engineering, Rajeev Gandhi Memorial College of Engineering and Technology, Andhra Pradesh-518501, India. -----</p> <p>5)Mr.RakeshRanjan Address of Applicant :Mr.RakeshRanjan, Lecturer, Department of Electrical, Government Polytechnic Jehanabad,NearSaiMandir besides New government polytechnic Patna 13, Patliputra Patna 800013Bihar,India. -----</p> <p>6)Mr. Praveen Kumar Address of Applicant :Mr. Praveen Kumar, Assistant Professor, Department of Electrical Engineering, BITSindri, Dhanbad Jharkhand - 828123 ,India. -----</p> <p>7)Mr. Nitish Kumar Choudhary Address of Applicant :Mr. Nitish Kumar Choudhary, Lecturer, Department of Electrical, Government Polytechnic Jehanabad, Near SaiMandir besides New government polytechnic Patna 13, Patliputra Patna, Bihar,800013,India. -----</p>
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(57) Abstract :
A Microgrid development at a power supply system in which energy, control, and communication infrastructure are all intertwined. Both conventional production of electricity from far and power that's not a conventional generation in close affinity to the weights are used for power processing, and power electronic devices and systems are used for actuation. It's a challenging effort to create an engaging, reliable, and long-term model. It is a unique modeling and control prototype for integrating renewable energy sources into intelligent grids. As the idea is evolutionary, more sources of energy can be added as necessary to meet design requirements.

No. of Pages : 12 No. of Claims : 3

(54) Title of the invention : AI BASED SMART CLOUD COMPUTING 8K VIDEO CODEC

(51) International classification :H04L0029060000, H04N0007140000, H04N0019610000, H04N0021234300, H04N0019179000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
 Abstract: - In the current digital era the need of video communication is gradually rising due to the transformation of user towards video. This videos used by users are increasing in one side, on the other hand the preference of video by the users are focused towards high resolution videos. Due to this the Video data is expected to account for over 90% of the global internet traffic by 2022 due to the modern ultra-high density videos. So in this condition better video codecs are needed to reduce the bandwidth and storage as well as processing space requirements. The general compression characteristics of a video codec are critical for encoding UHD videos at low bit rates. So there requires significant changes to be carried out in the place of video codecs. Currently codec have been developed to handle 4K Videos, the next future video be 8K video. Considering this the new innovative codec have been developed to handle UHD 8K videos. This work is meant to provide insights regarding choice of the video codec to handle 8K and higher version of UHD videos.

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE IN COGNITIVE IMPRINTING OF INFORMATION AND SKILL DOMAINS

(51) International classification :G06N0020000000, G06K0009620000, G09B0005060000, H04L0012801000, H04W0056000000

(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

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(57) Abstract :
 [038] The present invention discloses student assessment using a machine learning system, 5 which can be implemented on the computer/Field Programmable Gate Arrays (FPGAs)/Standalone system that implemented a training system for anticipating and powerfully adjusting the most suitable substance and instructing systems that help singular understudy learning. Framework and techniques are in view of an intellectual model that coordinates new data with what the understudy definitely knows. A program of study is 10 anticipated by the extraordinary intellectual necessities of the person understudy associated with collected understudy information history utilizing an Artificial Intelligence Engine (AI Engine). Said framework also, techniques then, at that point powerfully adjust the underlying intellectual model to the understudies continuous advancement utilizing customized Programming Agents. Said framework and techniques incorporate a computer network that 15 joins a worker side AI Engine and an assortment of customer side Software Agents exemplified as energized characters. The program associates new data to earlier information and afterward fortifies these associations through committed learning Activities, modified to the understudy, to guarantee that compelling, and genuine, learning happens. Accompanied Drawing [FIG. 1]

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

(54) Title of the invention : CONSTRUCTION OF CHEAP VERBALIZED ROBOTIC HAND FOR SPECIFIC ADHERENCE

<p>(51) International classification :B25J0009160000, B25J0015000000, B25J0009040000, B25J0009000000, B25J0009100000</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)Mr. Ramesh Kurbet Address of Applicant :Mr. Ramesh Kurbet, Assistant Professor, Department of Mechanical Engineering P E S College of Engineering, Mandya-571401.Karnataka. rameshkurbet031@gmail.com Phone No.: 8123829195 -----</p> <p>2)Dr. Mohammad Rafi H Kerur</p> <p>3)Dr. Lakshmi Narasimha Murthy H R</p> <p>4)Ms. Roopa Marulasiddappa Nerlige</p> <p>5)Mr. Siddesh Kumar N M</p> <p>6)Mr. Nouman khan</p> <p>7)Mr. Talluri Nikhil</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr. Ramesh Kurbet Address of Applicant :Mr. Ramesh Kurbet, Assistant Professor, Department of Mechanical Engineering P E S College of Engineering, Mandya-571401.Karnataka. rameshkurbet031@gmail.com Phone No.: 8123829195 -----</p> <p>2)Dr. Mohammad Rafi H Kerur Address of Applicant :Dr. Mohammad Rafi H Kerur, Assistant Professor, Department of Mechanical Engineering, P E S College of Engineering, Mandya-571401.Karnataka. -----</p> <p>3)Dr. Lakshmi Narasimha Murthy H R Address of Applicant :Dr. Lakshmi Narasimha Murthy H R, Assistant Professor, Mechanical Engineering, Department of Mechanical Engineering, P E S College of Engineering, Mandya-571401.Karnataka. -</p> <p>4)Ms. Roopa Marulasiddappa Nerlige Address of Applicant :Ms. Roopa Marulasiddappa Nerlige, #404/85 Jayanagara B Block S S Hospital Road Davangere -577004 Karnataka. ---</p> <p>5)Mr. Siddesh Kumar N M Address of Applicant :Mr. Siddesh Kumar N M, Assistant Professor, Mechanical Engineering, Department of Mechanical Engineering, P E S College of Engineering, Mandya-571401.Karnataka. -----</p> <p>6)Mr. Nouman khan Address of Applicant :Mr. Nouman khan, Assistant Professor, Mechanical Engineering, Mechanical Engineering dept, PES College of Engineering, Mandya-571401.Karnataka. -----</p> <p>7)Mr. Talluri Nikhil Address of Applicant :Mr. Talluri Nikhil, Student, Mechanical Engineering, Department of Mechanical Engineering, PES College of Engineering, Mandya-571401 Karnataka. -----</p>
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(57) Abstract :

The Design & Fabrication of a Choice Compatibility Expressed Robot Hand is the subject of this study (SCARA). Due to their excellent precision & natural stiffness, SCARA robots are one of the most commonly utilized robots in the industry. Robots are growing more widespread which has had a great deal of success in recent years, but mechanization is expensive, not everybody can manage to convert their units from manually to automate. The development's major aim is to create a cheap robotic hand that could be utilized during pick & place activities. NEMA-17 Stepper Motors & an Arduino UNO were used to operating the robotic in this project. The robots have four degrees of freedom and could be operated using a Visual Interface which allows both for upwards and reverse mechanics. The robot may be utilized in a variety of tasks by modifying its software of something like the end-effector, although is most commonly employed in mechanized production lines.

No. of Pages : 13 No. of Claims : 2

(54) Title of the invention : SALT WATER DESALINATION USING PCM TO STORE SOLAR ENERGY

<p>(51) International classification :C02F0103080000, C02F0001140000, F28D0020020000, C09K0005060000, F24S0060000000</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. KONDA SWATHI Address of Applicant :ASSOCIATE PROFESSOR. INSTITUTE OF PHARMACEUTICAL TECHNOLOGY SRI PADMAVATI MAHILA VISVAVIDYALAYAM, PADMAVATHI NAGAR,TIRUPATI, ANDRA PRADESH 517502 -----</p> <p>2)Dr. V.RAMAKRISHNA 3)Mrs. B NIKITHA 4)Ms. MITTA MALLESWARI 5)Mrs. T. NAGESWARI 6)Mrs. P. UMA MAHESHWARI 7)Mrs. B. PAVANI</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. KONDA SWATHI Address of Applicant :ASSOCIATE PROFESSOR. INSTITUTE OF PHARMACEUTICAL TECHNOLOGY SRI PADMAVATI MAHILA VISVAVIDYALAYAM, PADMAVATHI NAGAR,TIRUPATI, ANDRA PRADESH 517502 -----</p> <p>2)Dr. V.RAMAKRISHNA Address of Applicant :ASSISTANT PROFESSOR SCHOOL OF ENGINEERING AND TECHNOLOGY SRI PADMAVATI MAHILA VISVAVIDYALAYAM, PADMAVATHI NAGAR,TIRUPATI, ANDRAPRADESH 517502 -----</p> <p>3)Mrs. B NIKITHA Address of Applicant :Ph.D RESEARCH SCHOLAR INSTITUTE OF PHARMACEUTICAL TECHNOLOGY SRI PADMAVATI MAHILA VISVAVIDYALAYAM, PADMAVATHI NAGAR,TIRUPATI, ANDRAPRADESH 517502 -----</p> <p>4)Ms. MITTA MALLESWARI Address of Applicant :STUDENT INSTITUTE OF PHARMACEUTICAL TECHNOLOGY SRI PADMAVATI MAHILA VISVAVIDYALAYAM, PADMAVATHI NAGAR,TIRUPATI, ANDRAPRADESH 517502 -----</p> <p>5)Mrs. T. NAGESWARI Address of Applicant :Ph.D RESEARCH SCHOLAR INSTITUTE OF PHARMACEUTICAL TECHNOLOGY SRI PADMAVATI MAHILA VISVAVIDYALAYAM, PADMAVATHI NAGAR,TIRUPATI, ANDRAPRADESH 517502 -----</p> <p>6)Mrs. P. UMA MAHESHWARI Address of Applicant :STUDENT INSTITUTE OF PHARMACEUTICAL TECHNOLOGY SRI PADMAVATI MAHILA VISVAVIDYALAYAM, PADMAVATHI NAGAR,TIRUPATI, ANDRAPRADESH 517502 -----</p> <p>7)Mrs. B. PAVANI Address of Applicant :STUDENT INSTITUTE OF PHARMACEUTICAL TECHNOLOGY SRI PADMAVATI MAHILA VISVAVIDYALAYAM, PADMAVATHI NAGAR,TIRUPATI, ANDRAPRADESH 517502 -----</p>
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(57) Abstract :
ABSTRACT SALT WATER DESALINATION USING PCM TO STORE SOLAR ENERGY The only nearly inexhaustible sources of water are the oceans, which is of high salinity. However, the separation of salts from seawater requires large amounts of energy which, when produced from fossil fuels, can cause harm to the environment. Therefore, there is a need to employ environmentally friendly energy sources in order to desalinate saltwater. We designed a solar still, which can be used for water desalination Probably, they are considered the best solution for water production in remote, arid to semiarid, small communities, where fresh water is unavailable. The purpose of this invention is to study the effect of using Phase change materials in a solar still, and thus enhance the productivity of water. In present work phase change material (Bitumen) is used to store the solar thermal energy in the form of latent heat, we can get heat in the night time for Desalination.

No. of Pages : 19 No. of Claims : 6

(54) Title of the invention : A SYSTEM AND METHOD FOR CONTROLLING DEPLOYMENT OF IOT DEVICES OVER WIRELESS NETWORKS WITH AN ADAPTIVE GATEWAY

<p>(51) International classification :H04L0029080000, H04L0012140000, H04W0088160000, H04L0012240000, H04W0084180000</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.S.V.Vasantha Address of Applicant :Associate Professor, Department of IT, Maturi Venkata Subba Rao (MVSR) Engineering College, Hyderabad, Telangana, India. Pin Code:501510 ----- ----- 2)Ms.Maniza Hijab 3)Dr.B.Kiranmai 4)Dr. Medikonda Swapna 5)Dr.Fahmina Taranum 6)Ms.Afreen Sultana 7)Dr.Kotari Sridevi 8)Ms.Fouzia Sayeedunnisa 9)Ms.Afshan Kaleem 10)Ms.S.Yamuna Rani Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.S.V.Vasantha Address of Applicant :Associate Professor, Department of IT, Maturi Venkata Subba Rao (MVSR) Engineering College, Hyderabad, Telangana, India. Pin Code:501510 ----- ----- 2)Ms.Maniza Hijab Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Muffakham Jah College of Engineering and Technology, Hyderabad, Telangana, India. Pin Code:500034 ----- ----- 3)Dr.B.Kiranmai Address of Applicant :Associate Professor, Department of CSE, Keshav Memorial Institute of Technology, Hyderabad, Telangana, India. Pin Code: 500029 ----- ----- 4)Dr. Medikonda Swapna Address of Applicant :Associate Professor, Department of CSE, Keshav Memorial Institute of Technology, Hyderabad, Telangana, India. Pin Code: 500029 ----- ----- 5)Dr.Fahmina Taranum Address of Applicant :Professor, Department of Computer Science and Engineering, Muffakham Jah College of Engineering and Technology, Hyderabad, Telangana, India. Pin Code: 500034 ----- ----- 6)Ms.Afreen Sultana Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Muffakham Jah College of Engineering and Technology, Hyderabad, Telangana, India. Pin Code:500034 ----- ----- 7)Dr.Kotari Sridevi Address of Applicant :Associate Professor, Department Computer Science and Engineering, Muffakham Jah College of Engineering and Technology, Hyderabad, Telangana, India. Pin Code: 500034 ----- ----- 8)Ms.Fouzia Sayeedunnisa Address of Applicant :Associate Professor, Department of IT, Muffakham Jah College of Engineering and Technology, Hyderabad, Telangana, India. Pin Code: 500034 ----- ----- 9)Ms.Afshan Kaleem Address of Applicant :Assistant Professor, Department of ECE, Muffakham Jah College of Engineering and Technology, Hyderabad, Telangana, India. Pin Code: 500034 ----- ----- 10)Ms.S.Yamuna Rani Address of Applicant :Assistant Professor, Department of Computer Science, Governmet Degree College, Malkajgiri, Hyderabad, Telangana, India. Pin Code:500056 ----- ----- -</p>
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(57) Abstract :
[034] The present invention discloses a system and method for controlling deployment of IoT devices over wireless networks with an adaptive gateway. The system includes, but not limited to, a network readable media provided to read the deployment of IoT devices over wireless networks; a gateway module having broadcast facility on different channels in multiple time slots of a time interval; a plurality of sensors connected with the gateway module to receive a response from the multiple time slots of a time interval. Further, the gateway module is configured to transmit data to one or more processing units, which is connected in a computer network, and further, a memory is communicatively coupled with and readable by the one or more processing units and having stored therein processor-readable instructions which, when executed by the one or more processing units. Accompanied Drawing [FIG. 1]

No. of Pages : 25 No. of Claims : 8

(54) Title of the invention : With Solar Water Boiling Systems, Increase Thermoelectric Capacity

<p>(51) International classification :C09K0005100000, F24S0010500000, H01L0031052000, H01L0031048000, H01L0023473000</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. Siddesh Kumar N M Address of Applicant :Mr. Siddesh Kumar N M, Assistant Professor, Mechanical Engineering, Department of Mechanical Engineering, P E S College of Engineering, Mandya-571401 Karnataka. -----</p> <p>2)Ms. Roopa Marulasiddappa Nerlige</p> <p>3)Dr. S Ghanaraja</p> <p>4)Mr. Ganapathy Bawge</p> <p>5)Mr. Avinash M</p> <p>6)Mr. P Samrar</p> <p>7)Ms. Dhruthi</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Siddesh Kumar N M Address of Applicant :Mr. Siddesh Kumar N M, Assistant Professor, Mechanical Engineering, Department of Mechanical Engineering, P E S College of Engineering, Mandya-571401 Karnataka. -----</p> <p>2)Ms. Roopa Marulasiddappa Nerlige Address of Applicant :Ms. Roopa Marulasiddappa Nerlige, #404/85 Jayanagara B Block SS hospital road near BSNL, tower , Davangere - Karantaka-India -577004 Karnataka. -----</p> <p>3)Dr. S Ghanaraja Address of Applicant :Dr. S Ghanaraja, Professor & Head, Department of Mechanical Engineering, P E S College of Engineering, Mandya-571401 Karnataka. -----</p> <p>4)Mr. Ganapathy Bawge Address of Applicant :Mr. Ganapathy Bawge, Assistant Professor, Department of Mechanical Engineering, P E S College of Engineering, Mandya-571401 Karnataka. -----</p> <p>5)Mr. Avinash M Address of Applicant :Mr. Avinash M, Assistant Professor, Mechanical Engineering , P E S College of Engineering, Mandya-571401 Karnataka. -----</p> <p>6)Mr. P Samrar Address of Applicant :Mr. P Samrar, Student , Mechanical Engineering, P E S College of Engineering, Mandya-571401 Karnataka. -----</p> <p>7)Ms. Dhruthi Address of Applicant :Ms. Dhruthi, Student, Mechanical Engineering, P E S College of Engineering, Mandya-571401 Karnataka. -----</p>
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(57) Abstract :

Overall thermal efficiency of a solar energy system was tested using freshwater as the foundation fluid and focused physical and chemical hybrid nanofluid in this study. Because of its better thermal characteristics, Chitosen was already utilized as a biological nanofluid in solar energy systems, while Aluminium oxide has been an artificial nanofluids. Tests were conducted on 3 days during April at Mahabalipuram, Tamil Nadu, India, for every type of material. In a solar energy system, the estimated daily output liquid temperature for Chitosen, Al₂O₃, and water as the liquid was achieved. The heat extraction coefficient was determined using the Chitosen, Al₂O₃, and water displacement power factors. Eventually, Chitosen, Al₂O₃, and liquid test performance were determined. Chitosen and Al₂O₃ nanofluid exhibit greater results when match with water as a working medium. The measured data can be matched to the expected value obtained using the ASHRAE guideline.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141043299 A

(19) INDIA

(22) Date of filing of Application :24/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PRESSURE ULCER RISK ASSESSMENT DEVICE

(51) International classification :A61G0007057000, A61F0013060000, G16H0050300000, A61B0005000000, A61F0013000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

ABSTRACT A pressure ulcer is a localized injury to the skin or underlying tissue as a result of unrelieved pressure which can be intrinsic or extrinsic in nature. Prevention of pressure ulcer is a prime requisite for any immobile patients as it can worsen the health situations and can even lead to mortality. In the context of Indian scenario, this issue is quite ignored either due to the lack of awareness of its implications or because of the absence of adequate preventive measures. Pressure ulcer often called as bed sores is a common issue prevalent in the immobile bed ridden, especially the old age people and the vulnerable patients with chronic medical conditions. There are several factors which add on to the severity of chances of pressure ulcer occurrence. It is to be ensured that any preventive measure should not be an additional burden to the care takers as well the patients. In order to prophecies the chance of occurrence of pressure ulcer, various other attributes like the nutrition, medical history are also taken into consideration with emphasis on minimal or no discomfort for the users. This monitoring device for pressure ulcer prevention efficiently helps the care takers and the medical professionals to adopt instant remedial measures to avoid pressure ulcers.

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

(54) Title of the invention : COCONUT SORTING MACHINE AND AN ARTIFICIAL INTELLIGENCE BASED METHOD FOR EVALUATING THE QUALITY OF

<p>(51) International classification :A23N0005030000, G06K0009320000, G01J0003460000, G01N0033020000, B07C0005360000</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. N. SUBA RANI Address of Applicant :ASSISTANT PROFESSOR (SG)/CSE, DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY, UDUMALAI ROAD, POLLACHI, TAMILNADU, INDIA - 642 03. -----</p> <p>-----</p> <p>2)Dr. A. NOBLE MARY JULIET 3)Dr. M.L. VALARMATHI 4)Dr. N. SENTHIL MADASAMY 5)Dr. N. GOBI 6)Dr. J. BHAVITHRA 7)Dr. M. PANDI Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1) Dr. N. SUBA RANI Address of Applicant :ASSISTANT PROFESSOR (SG)/CSE, DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY, UDUMALAI ROAD, POLLACHI, TAMILNADU, INDIA - 642 03. -----</p> <p>-----</p> <p>2)Dr. A. NOBLE MARY JULIET Address of Applicant :ASSISTANT PROFESSOR (SG)/CSE, DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY, UDUMALAI ROAD, POLLACHI, TAMILNADU, INDIA - 642 003. -----</p> <p>-----</p> <p>3)Dr. M.L. VALARMATHI Address of Applicant :PROFESSOR/CSE, DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY, UDUMALAI ROAD, POLLACHI, TAMILNADU, INDIA - 642 003. -----</p> <p>4)Dr. N. SENTHIL MADASAMY Address of Applicant :ASSISTANT PROFESSOR /CSE, DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY, UDUMALAI ROAD, POLLACHI, TAMILNADU, INDIA - 642 003. -----</p> <p>5)Dr. N. GOBI Address of Applicant :ASSISTANT PROFESSOR (SS)/CSE, DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY, UDUMALAI ROAD, POLLACHI, TAMILNADU, INDIA - 642 003. -----</p> <p>-----</p> <p>6)Dr. J. BHAVITHRA Address of Applicant :ASSISTANT PROFESSOR (SG)/CSE, DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY, UDUMALAI ROAD, POLLACHI, TAMILNADU, INDIA - 642 003. -----</p> <p>-----</p> <p>7)Dr. M. PANDI Address of Applicant :ASSISTANT PROFESSOR (SG)/CSE, DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY, UDUMALAI ROAD, POLLACHI, TAMILNADU, INDIA - 642 003. -----</p> <p>-----</p>
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(57) Abstract :

The present invention discloses a coconut sorting machine and an Artificial Intelligence based method for evaluating the quality of coconuts. The coconut sorting machine (1) consists of a sorting apparatus (31) and said apparatus (31) comprises of plurality of IR sensors (32), a weight sensing means (33), an image sensing means (35), a scanning means (36), a detector (37), a three dimensional scanning means (38), a memory unit (41), a transceiver (42), a battery (43), a switch (44) connected to a processing unit (40). This sorting machines helps to sort the coconuts based on the kernel thickness, water content, weight and colour of the Coconuts.

No. of Pages : 22 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141043317 A

(19) INDIA

(22) Date of filing of Application :24/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : Design of battery powered eco-friendly two wheeler

(51) International classification :B60L0050600000, G02F0001133300, B62K0005027000, B62M0006600000, B62K0005050000

(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

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(57) Abstract :

The proposed invention discloses a design of two wheeler that is driven by electric energy from the rechargeable batteries. The disclosed two wheeler uses rechargeable battery to transmit power to the rear wheel through an assembly of sprocket and chain. All the components of the rechargeable batteries are mounted at the bottom of the chassis or at the middle of the chassis. The disclosed e-bike consists of a flat handle mounted with light at the front. Spring based suspension system is used to arrest the vibrations at the rear wheel and hydraulic based suspension system is arranged at the front wheel during the movement of the bike.

No. of Pages : 17 No. of Claims : 4

(54) Title of the invention : AN EFFICIENT PREDICTION AND ASSESSMENT OF VEHICLES IN REAL TIME TRAFFIC

(51) International classification :G06N0003040000, G06K0009620000, A01K0011000000, H04N0005760000, G08G0001017000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
 Our invention will be used to find the vehicles and the detailed information about it like date, place, and Registration and owner information. In traffic each and every vehicles will be monitored and that information is converted from image to text and QCR code. That code will be stored in a database. Using this stored information, we can retrieve the any vehicles information, registration and owner's information. EPV model which applies SVM to separate the videos into frames and store it all in one place and it will be processed and retrieved by the deep learning classification methods.

No. of Pages : 8 No. of Claims : 6

(54) Title of the invention : DESIGN OF DEFEATED GROUND STRUCTURED FERMI TAPERED ANTENNA FOR FUTURE GENERATION COMMUNICATION

(51) International classification :H01Q0001380000, H01Q0009040000, H01Q0001480000, H01Q0023000000, H01Q0001360000

(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
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(57) Abstract :
 Abstract The Scope of this work is to Design of Defeated Ground Structured Fermi tapered Antenna for SG Application, which is operated at 26GHZ frequency. The position of defeated ground structure (DGS) is at P the ground plane (i.e.) bottoming layer, and made up of Copper or Aluminum materials. Above the DGS structure Rogger 5880 dielectric material is sandwiched between ground plane & radiating element. Top layer of our model is a Fermi tapered design provides a high flexibility to enhance the antenna characteristics. A Low - cost, high gain and directive corrugated Fermi tapered structure is well suitable for licensed millimeter ware ISM band application for future Wireless Communication.

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

(54) Title of the invention : Secured Automated Contactless Vehicle Door Access System based on Thermal Mechanism of Sensory Devices

<p>(51) International classification :G01J0005000000, E05F0015730000, G08B0013190000, G01V0008100000, G06K0017000000</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.S.Balakrishnan, Sri Krishna College of Engineering and Technology, Coimbatore. Address of Applicant :Professor, Department of Computer Science and Business System, Sri Krishna College of Engineering and Technology, Coimbatore. Tamilnadu, India. 641008 -----</p> <p>2)Dr.M. Balasubramanian, Vivekananda Institute of Professional studies, Delhi. 3)Mr. Onkar Bagaria, Vivekananda Global University, Jaipur. 4)Dr. Chandra Prakash Lora, Vivekananda Global University, Jaipur. 5)Dr. Ravi Kumar Poluru Institute of Aeronautical Engineering, Hyderabad 6)Mr. M.Manicka Raja Hindusthan Institute of Technology, Coimbatore 7)Mr. Anshul Saxena Christ University India</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.S.Balakrishnan, Sri Krishna College of Engineering and Technology, Coimbatore. Address of Applicant :Professor, Department of Computer Science and Business System, Sri Krishna College of Engineering and Technology, Coimbatore. Tamilnadu, India. 641008 -----</p> <p>2)Dr.M. Balasubramanian, Vivekananda Institute of Professional studies, Delhi. Address of Applicant :Vivekananda Institute of Professional studies, AU Block, Pitampura, Delhi -110034. -----</p> <p>3)Mr. Onkar Bagaria, Vivekananda Global University, Jaipur. Address of Applicant :Assistant Professor, Faculty of Engineering and Technology, Vivekananda Global University, Jaipur. -----</p> <p>4)Dr. Chandra Prakash Lora, Vivekananda Global University, Jaipur. Address of Applicant :Assistant Professor, Faculty of Basic and & Applied Sciences, Vivekananda Global University, Jaipur. -----</p> <p>5)Dr. Ravi Kumar Poluru Institute of Aeronautical Engineering, Hyderabad Address of Applicant :Associate professor Department of Information Technology, Institute of Aeronautical Engineering, Hyderabad -----</p> <p>6)Mr. M.Manicka Raja Hindusthan Institute of Technology, Coimbatore Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Hindusthan Institute of Technology, Coimbatore – 641 032 -----</p> <p>7)Mr. Anshul Saxena Christ University India Address of Applicant :Assistant Professor Institute of Management Studies Christ University India -----</p>
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(57) Abstract :

Automatic entrance/exit door control is widely used in public places such as grocery stores, businesses, transportation stations, airports, and wholesale department stores to eliminate the need of manually opening and closing actions in this pandemic outbreak. Contemporary sensor based automatic door control technologies include infrared, ultrasonic/radio, or other wireless sensing methods. In this work, we designed a smart device which helps to perform a contact less temperature sensing door opening system. This reduces the dependency of people on the guard and ensures the safety of the guards and also speeds up the process. And also this work will provide the detailed explanation of contact less door opening mechanism and the benefits of using the same. This system uses Thermal sensor, ultrasonic sensor, Temperature sensor, PIR sensor along with Arduino. The Temperature sensor uses IR energy to detect the temperature of an object and ultrasonic sensor which is used in this system to measure the distance. PIR sensor also detects any change in heat, and whenever it detects any change, its output PIN becomes HIGH. They are also referred to as Pyroelectric or IR motion sensors.

No. of Pages : 5 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141043353 A

(19) INDIA

(22) Date of filing of Application :24/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SMART JACKET FOR ALL WEATHER CONDITIONS

(51) International classification :F24F0130100000, H04B0010112000, A41D0003000000, F24F0130000000, C09D0005140000

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

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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(57) Abstract :

A smart jacket for all weather conditions comprising of a flexible TEC (9) is constructed by connecting an alternative bismuth telluride p-type/n-type TE legs (1) in series with a flexible copper foil electrodes (2) and embedding the system in a flexible matrix (3) made up of silicone polymer. The flexible TEC (9) is then integrated into a wearable garment by sandwiching it between a bottom Nickel copper conductive fabrics (7) and a top Nickel copper conductive fabrics (8) which are attached to the flexible TEC with thermally conductive paste and separated by a non-conductive cellulose layer (6) in areas which are not covered by the flexible TEC (9). The said produces hot and cold junctions on top and bottom layer when current is passed through it with a portable battery pack (10) connecting the TEC module at a positive terminal of TEC (4) and a negative terminal of TEC (5). The said wearable TEC setup is placed in economically selected locations on a jacket (11) which can cool or warm the user depending on their preference.

No. of Pages : 21 No. of Claims : 5

(54) Title of the invention : ISOLATION OF BIOACTIVE MOLECULES FORM THE OPERCULUM OF MURICIDAE GASTROPOD AGAINST BONE CANCER

<p>(51) International classification :G01N0021350000, G01N0033500000, A01N0065000000, B05D0001180000, C08J0003240000</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. G.CHELLADURAI Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ZOOLOGY BISHOP HEBER COLLEGE (AUTONOMOUS) VAYALUR RD, PUTHUR, TIRUCHIRAPPALLI, TAMIL NADU 620017 -----</p> <p>2)Dr. PRICILLA SURESH 3)Dr. B.MAKESH KUMAR 4)Dr. R.KALAIVANI 5)Dr. K.A.JEYANTHI Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. G.CHELLADURAI Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ZOOLOGY BISHOP HEBER COLLEGE (AUTONOMOUS) VAYALUR RD, PUTHUR, TIRUCHIRAPPALLI, TAMIL NADU 620017 -----</p> <p>2)Dr. PRICILLA SURESH Address of Applicant :ASSISTANT PROFESSOR AND HEAD DEPARTMENT OF ZOOLOGY BISHOP HEBER COLLEGE (AUTONOMOUS) VAYALUR RD, PUTHUR, TIRUCHIRAPPALLI, TAMIL NADU 620017 -----</p> <p>3)Dr. B.MAKESH KUMAR Address of Applicant :ASSISTANT PROFESSOR AND HEAD DEPARTMENT OF BOTANY G.VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS) SH 44, NEWAPPANERI, KOVILPATTI THOOTHUKUDI – 628 502, TAMILNADU, INDIA. -----</p> <p>4)Dr. R.KALAIVANI Address of Applicant :ASSISTANT PROFESSOR AND HEAD DEPARTMENT OF BIOTECHNOLOGY THANTHAI HANS ROEVER COLLEGE (AUTONOMOUS) ELAMBALUR – PERAMBALUR TAMIL NADU 621212 -----</p> <p>5)Dr. K.A.JEYANTHI Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF BIOTECHNOLOGY THANTHAI HANS ROEVER COLLEGE (AUTONOMOUS) ELAMBALUR – PERAMBALUR TAMIL NADU 621212 -----</p>
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(57) Abstract :

ABSTRACT ISOLATION OF BIOACTIVE MOLECULES FORM THE OPERCULUM OF MURICIDAE GASTROPOD AGAINST BONE CANCER The Murrcidae gastropod operculum has a wide range of actions and applications in ayurveda, including cancer, gastric, hepatic, cardiovascular, and immunological issues. The operculum extract of Chicoreus ramosus was examined for functional groups and chemical components using FTIR, GC-MS and HNMR. FTIR analysis of the operculum extract revealed nine significant groups, including amines, esters, and aromatic combinations. There were 11 dynamic combinations found in the total operculum rough concentrate. The IC50 of the extract revealed by this cytotoxicity assay was around 100 µg/ml. As a result of these bioactive substances in the operculum extracts, C. ramosus can be used to treat bone cancer and may lead to the development of new drugs.

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141043479 A

(19) INDIA

(22) Date of filing of Application :24/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : Smart Farming Cultivation Employ with Arduino Uno R3 Microcontroller through IoT

(51) International classification :H04L0029080000, G06N0020000000, A01H0001040000, G01D0009000000, G06Q0010060000

(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

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(57) Abstract :

Abstract: Farming is the mainstay of the economic system, and it is the systematic mechanism for occupation. Millions of people around the world rely on agriculture for their everyday lives. About 70% of the Indian population relies on agriculture, and this area provides numerous crops in India. The cultivation needs to be handled by technology that is new and also productive. As a result, we apply IoT innovation to Farming's core challenge. The previous approach of integrating an effective water supply system with a clever concept. Here, we use IoT devices to meet vital components of cultivation. One such work develops on from an earlier technique that showcased significant advances in water treatment, especially in regards to the control and sharpness of continuous water-level readings, which regulated temperature, humidity, and soil wetness of a particular crop. PCs would monitor all of these activities with the use of the Internet and sensors connected to Arduino. Decisions will be made based on the outcomes of the observations.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141043520 A

(19) INDIA

(22) Date of filing of Application :25/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PRAZOSIN CHEWABLE TABLET AND PREPARATION METHOD THEREOF

(51) International classification :A61K0009200000, A61K0009000000, A23P0010280000, A61K0031517000, A23G0003360000

(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

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(57) Abstract :

PRAZOSIN CHEWABLE TABLET AND PREPARATION METHOD THEREOF Chewable tablets for the treatment of hypertension are in need to overcome the problem of swallowing, bitterness taste and pleasant tasting in chewable tablets. The present invention provides a prazosin chewable tablet. The chewable tablet comprises of prazosin, mannitol, micro crystalline cellulose, aspartame, reddish brown colorant, citric acid, orange flavour, silicon dioxide, and magnesium stearate. The present invention also provides a process for preparing prazosin chewable tablet by direct compression method. The prazosin chewable tablet of present invention is useful for treatment of hypertension.

No. of Pages : 11 No. of Claims : 8

(54) Title of the invention : INTELLIGENT SYSTEM & METHOD FOR SMOKE DETECTION AND LOCALIZATION BASED ON CLOUD COMPUTING

(51) International classification :H04L0029080000, G08B0017113000, G06K0009620000, G08B0017100000, G01C0021300000

(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

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(57) Abstract :
 The present invention relates to Intelligent system & method for smoke detection and localization based on cloud computing. The objective of the present invention is to solve the problems in the prior art technologies related to smoke detection and control using advance sensor and cloud computing.

No. of Pages : 26 No. of Claims : 4

(54) Title of the invention : A novel medicinal energy beverage composition and preparation method thereof

(51) International classification :A61K0031185000, A23K0020163000, A23L0033105000,
A61K0009140000, A23L0033175000

(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

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(57) Abstract :

The active chemicals caffeine and Taurine and other inert compounds are combined in a dry formulation to provide an alertness-inducing effect. The oral combination of caffeine and Taurine eliminates the need to consume large amounts of fluids or sweets. As an outcome of this innovation, a human's attention and arousal may be increased more quickly and easily than previously thought possible. To take advantage of the synergistic benefits of Taurine, an amino acid, and caffeine, a stimulant, combined, it is administered orally to increase an individual's arousal level. Most of the time, this is an effective way to increase arousal without consuming significant quantities of fluids, sugar, carbs, or active substances.

No. of Pages : 22 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141043590 A

(19) INDIA

(22) Date of filing of Application :26/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DUAL SLOPE SOLAR DISTILLATION SYSTEM

(51) International classification :C02F0001140000, C02F0103080000, C02F0001040000, B01D0001000000, C02F0001000000

(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

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(57) Abstract :

Solar distillation is a process in which the energy of the sun is directly used to evaporate freshwater from sea or brackish water. The process has been used for many years, usually for small-scale applications. The present invention is about a two-slope distillation system having a central square basin with two stepped stills attached on either side in opposite direction. The steps are filled with wick materials in order to retain the maximum amount of heat. The entire setup is placed on a stand and dimensions in the setup of the solar basin are scalable as per the user requirements. Solar distillation is the best option to meet the portable water requirement of a family in arid and semi arid regions where pure drinking water availability is very low as it is pollution free and environment friendly.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141043592 A

(19) INDIA

(22) Date of filing of Application :26/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : RETINAL IMAGE CLASSIFICATION BY SELF-SUPERVISED FUZZY CLUSTERING NETWORK FOR DIABETIC RETINOPATHY

<p>(51) International classification :G06K0009620000, G16H0050200000, G06T0007000000, G06N0020000000, A61B0003120000</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 V P GLADIS PUSHPARATHI Address of Applicant :18 Rajeswari Nagar Sipcot Pudukkottai ----- ----- 2)Dr.W.Gracy Theresa 3)Dr.K.Chinnusamy 4)Dr. A. Bhuvaneswari 5)Dr.N.Hemavathy 6)Dr. Makarand M Jadhav 7)Dr.S.Varalakshmi Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr V P GLADIS PUSHPARATHI Address of Applicant :18 Rajeswari Nagar Sipcot Pudukkottai ----- ----- 2)Dr.W.Gracy Theresa Address of Applicant :Associate Professor Panimalar Institute of Technology Panchetti Chennai ----- 3)Dr.K.Chinnusamy Address of Applicant :Professor Department of Electronics and Engineering Velammal Institute of Technology Panchetti Chennai ----- ----- 4)Dr. A. Bhuvaneswari Address of Applicant :Asst. Professor (Sr.Grade) School of Computer Science Engineering Vellore Institute of Technology Chennai ----- ----- 5)Dr.N.Hemavathy Address of Applicant :Assistant Professor (Grade III) Department of ECE Velammal Engineering College Chennai ----- 6)Dr. Makarand M Jadhav Address of Applicant :Assistant Professor NBN Sinhgad School of Engineering, Pune ----- 7)Dr.S.Varalakshmi Address of Applicant :Associate Professor Department of Electronics and Communication Engineering Adhi College of Engineering and Technology Kancheepuram, Tamil Nadu. -----</p>
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(57) Abstract :

Diabetic retinopathy is a complication of diabetes that affects the eyes. It is caused by blood vessel damage to the photosensitive tissue at the back of the eye (retina). At first, diabetic retinopathy may cause no symptoms or only minor vision problems. Eventually, it may cause blindness. Compared with the number of patients in India, the number of doctors is quite small, causing delays in the diagnosis of various diseases. However, the late diagnosis of diabetic retinopathy can cause irreversible damage to the eyes, resulting in its total and permanent blindness. This disease is treatable, but its damage is not completely reversible. To avoid this situation, we decided to use machine learning to automate the diagnosis process. The increase in 4,444 cases of diabetes limits the ability of the current 4,444 manual tests. New algorithms for assisting diagnosis are becoming very important today. Early detection of diabetes can help all patients and limit negative health consequences such as blindness, so we use the support vector machine (SVM) algorithm to classify the extracted histogram. A histogram grouping scheme is proposed to represent features. Experimental results show that LESH is the best performing technology, and the accuracy obtained by using SVM with radial basis function kernel (SVMRBF) is 0.904.

No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : A one-place solution to your Mental Health and Workload

(51) International classification :H04L0012580000, G06Q0050220000, G16H0080000000, G16H0010200000, G06N0020000000

(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

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(57) Abstract :
 ABSTRACT A one-place solution to your Mental Health and Workload Mental health is as important as our physical health. So, keeping this in view, this innovation: A ONE-PLACE SOLUTION TO YOUR MENTAL HEALTH AND WORKLOAD is an Artificial-Intelligence, Internet of Things based Chatbot software integrated with both web and mobile applications which makes it possible to access functionalities anywhere and anytime. Our empathetic chatbot would be there for the person when that person does not feel like talking or sharing with any other person. The bot will communicate with person, guide for better health, connect with anonymous individuals with similar issues, provide first aid resolutions during panic attacks and tremors, recommend professionals and related blogs and also keep a check on targeted work set by user. This chatbot works as a motivator and assistant that will ensure if user is in good state or not and reassure that mental health is not dwindling.

No. of Pages : 12 No. of Claims : 10

(54) Title of the invention : A PORTABLE IOT BASED SMART HAIR BAND FOR WOMEN SAFETY

<p>(51) International classification :H04L0029060000, A61B0005024000, G06Q0050260000, H04M0003436000, A45D0008360000</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)S.Hariram Address of Applicant :Communication Protocol Lab, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India 638401. ----- 2)J.R.Giry Vaasan 3)G.Gathiravan 4)G.K.Gowtham 5)R.Gururaj 6)M.Leeban Moses 7)C.Raju 8)S.Karthikeyan Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)S.Hariram Address of Applicant :Communication Protocol Lab, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India 638401. ----- 2)J.R.Giry Vaasan Address of Applicant :Communication Protocol Lab, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India 638401. ----- 3)G.Gathiravan Address of Applicant :Communication Protocol Lab, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India 638401. ----- 4)G.K.Gowtham Address of Applicant :Communication Protocol Lab, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India 638401. ----- 5)R.Gururaj Address of Applicant :Communication Protocol Lab, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India 638401. ----- 6)M.Leeban Moses Address of Applicant :Communication Protocol Lab, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India 638401. ----- 7)C.Raju Address of Applicant :Communication Protocol Lab, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India 638401. ----- 8)S.Karthikeyan Address of Applicant :Communication Protocol Lab, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India 638401. -----</p>
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(57) Abstract :

ABSTRACT: In Today's World the safety of women is endangered especially in India. The rate of crimes against women is not decreasing but in fact increasing at an alarming rate especially harassment, molestation, eve-teasing, rape, kidnapping and domestic violence. Many preventive measures have been taken by the government to stop these misbehaving activities but still has not affected the growing rate of these crimes and has remained unaffected. The problem of sexual harassment in the workplace is increasingly coming out day-by-day. Sexual harassment at a workplace is unwanted behavior of a person that causes discomfort, offense or distress to the other. Majority of such cases are happened to women by men working at high position in an organization. The Smart hair band consists of seven modules. The first module deals with pulse rate. It detects the heart pulse rate at the carotid artery in the neck and the output is in the form of electrical signals. In nature heart rate increases at certain situations. The second module deals with the detection of sweat beneath the user's hair, it reports how much a person is sweating. The third module deals with the angle of the user's neck with respect to the spinal cord. It provides valuable information about both the horizontal and vertical inclination tilt. At certain situations the neck may reach an angle which is unusual. The fourth module deals with vibrations. It provides output whenever there is a vibration in the user's body. The fifth module deals with temperature. It detects the user's body temperature all along. So, all the above five modules are monitored through raspberry pie. The sixth module is used to send messages and mail to whomever necessary. The seventh module shares the location of the user to whomever necessary. After thorough analysis of the outputs of the first five modules, the micro controller unit comes to a conclusion. If the decision is satisfied sixth, seventh modules are called and vice-versa. We use an eighth module for connectivity to the user's device. Thus, the smart hair band consists of all the above modules. It gives better security and immediate rescue operation for the user by sending location to the police department and whomever the user wants to share.

No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : ANTI HELMET THEFT PROTECTION AND IMPLEMENTATION USING MULTI-BIO RECOGNIZE SYSTEM

(51) International classification	:A61B0005000000, A42B0003040000, A61B0005010000, H04N0007180000, G06Q0020400000	(71)Name of Applicant : 1)Dr. SAKATHISUDHAN KARUPPANAN Address of Applicant :Dr. N.G.P Institute of Technology, Professor, Kalapatti Road, Coimbatore, Tamil Nadu, India 641048. -----
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(57) Abstract :
 ABSTRACT A system for authenticating the vehicle ignition through the dual bio-signals captured from the physiochemical properties of a cutaneous surface and thumb impression comprises a customized wearable helmet to protect the head and facial regions of the end user that includes at least three pH ion sensors affixed on the inner surface of the said helmet for measuring the facial skin pH at three different locations of the end users face and at least two bio sensors for capturing the right and left thumb impressions of the end user. The system further includes a micro controller / microprocessor for receiving the said measured and captured bio-signals for comparison with the stored bio-signals in the database for authenticating the veracity of the end user and a wireless communication module for wirelessly communicating the signals between the helmet, micro controller and the vehicle ignition system. FIG. 1

No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : A NOVEL APPROACH FOR VIEWING BLUE PRINT OF THE BUILDING USING AVR CONSTRUCT APP

<p>(51) International classification :H04W0084180000, H04W0040240000, H04L0029080000, H04L0012701000, H04W0040020000</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. S.A.KALAISELVAN Address of Applicant :Department of Computer Science and Engineering, TKR College of Engineering and Technology, Meerpet, Telangana, India 500097. ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)S. A. Kalaiselvan Address of Applicant :Department of Computer Science and Engineering, TKR College of Engineering and Technology, Meerpet, Telangana, India 500097. ----- 2)Dr. S. Sathya Address of Applicant :Department of Computer Science and Engineering, TKR College of Engineering and Technology, Meerpet, Telangana, India 500097. ----- 3)Dr. J. Senthil Murugan Address of Applicant :Department of Computer Science and Engineering, TKR College of Engineering and Technology, Meerpet, Telangana, India 500097. ----- 4)M. Lenin Kumar Address of Applicant :Department of Computer Science and Engineering, TKR College of Engineering and Technology, Meerpet, Telangana, India 500097. ----- 5)CH. Pallavi Address of Applicant :Department of Computer Science and Engineering, TKR College of Engineering and Technology, Meerpet, Telangana, India 500097. ----- 6)V. Parthasarathy Address of Applicant :Department of Computer Science and Engineering, TKR College of Engineering and Technology, Meerpet, Telangana, India 500097. ----- 7)Teena Joseph Address of Applicant :Department of Computer Science and Engineering, TKR College of Engineering and Technology, Meerpet, Telangana, India 500097. ----- 8)R. Geetha Address of Applicant :Department of Computer Science and Engineering, TKR College of Engineering and Technology, Meerpet, Telangana, India 500097. -----</p>
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(57) Abstract :

Abstract: The main purpose of an underwater wireless sensor network (UWSN) is to collect information about ocean conditions and to route that information to sink nodes. For higher data reliability, multi-hop communication is preferred in various ways for routing data between UWSN nodes and the sink. For communication between the sink and the seabed sensors, researchers devised a number of routing protocols, even though more number of research works were explored in the past literature review, still it has issues related to energy saving data sending etc., to address this issue. FBDFR protocol has been proposed to minimize power consumption in the underwater sensors. Furthermore, improving UWSN routing protocols remains an open research topic for improved surveillance and monitoring.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141043671 A

(19) INDIA

(22) Date of filing of Application :27/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DECENTRALIZED HEALTH PASSPORT

(51) International classification

:G16H0010600000, G06F0021620000, G06Q0050220000, G06F0021600000, G06F0021640000

(86) International Application No

:NA

Filing Date

:NA

(87) International Publication No

: NA

(61) Patent of Addition to Application Number

:NA

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(57) Abstract :

Abstract: In healthcare, Electronic Health Records (EHR) plays an important role, So to secure and manage the health record using the blockchain. Where Access control is an essential mechanism for controlling EHR in order to safeguard EHR protection and privacy. This paper proposes to secure the HR using the Ethereum Blockchain which provides a tamper-proof log of access events. Where it maintains the single version of the truth. The patient has complete control over their medical records across more than one medical department such as hospitals, laboratories, pharmacies, and other healthcare organizations. Where they can request permission to access the medical records to serve their purpose and the patient can decide to give permission, once the patient has agreed with their request, the requestor is able to record the transaction on the digital ledger.

No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : FRAMEWORK FOR SALES FORCE COMPETENCE MODEL

(51) International classification :G06Q0010060000, G06Q0030060000, G06Q0010100000, G06Q0050200000, G09B0023280000

(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

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(57) Abstract :
 ABSTRACT FRAMEWORK FOR SALES FORCE COMPETENCE MODEL The present research investigates a Sales Force Effectiveness Framework (SFEF) that categorizes the intricacies of sales administrations, if a complete tactic to outlining and evaluating sales force efficiency. Sales specialists can custom the framework to spot sales force concerns and progress multi-dimensional elucidations, whichever reacting to exterior and interior actions or when motivated to progress. Sales investigators can practice the framework to determine paths to inflate their investigation attention to get profit experts. Thus the present framework is sustained by an portfolio of sales force efficiency concerns from sales leaders and current speculative publications. There's hardly a organized preparation plot for training the fresh workforces. Appraising prior papers and case readings of how sales establishments progress a training idea establishes that the procedural method frights with the documentation of proficiency paradigms from literature review, manuscript exploration and interrogating, progress of enactment metrics to classify ranges of upgrading and design an exploit strategy.

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141043674 A

(19) INDIA

(22) Date of filing of Application :27/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : EFFECTIVE INVESTIGATION OF EVOLUTION OF VORTEX RING IN THE POLYMER SOLUTION

<p>(51) International classification :C08F0008440000, H01M0010056000, C08G0065320000, C08G0065331000, A61L0015220000</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. M. JOGENDRA PRASAD Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT: MECHANICAL ENGINEERING VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE (AUTONOMOUS) VIJAYAWADA MACHILIPATNAM HIGHWAY, CHALASANI NAGAR, KANURU, VIJAYAWADA, ANDHRA PRADESH 520007 ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. M. JOGENDRA PRASAD Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT: MECHANICAL ENGINEERING VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE (AUTONOMOUS) VIJAYAWADA MACHILIPATNAM HIGHWAY, CHALASANI NAGAR, KANURU, VIJAYAWADA, ANDHRA PRADESH 520007 ----- -----</p>
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(57) Abstract :

ABSTRACT EFFECTIVE INVESTIGATION OF EVOLUTION OF VORTEX RING IN THE POLYMER SOLUTION Long molecular elements reproductions are performed for weaken arrangements of ring poly(ethylene oxide) (PEO) particles in networks of straight PEO chains where we methodically shift the sub-atomic length of the ring and host chains. This invention is on the impact of direct chain size on tiny construction, conformity, and elements of the visitor ring particles, and how these properties shift with the relating ones in the unadulterated ring liquefies. Ring particles are observed to be altogether enlarged in all ring-linear mixes reenacted. Ring enlarging is more articulated in frameworks of extremely short direct chains (molecular weight around 2.2 kg/mol) because of abundance, chain-end free-volume impacts. In these extremely short direct has, all PEO rings recreated (molecular weight in the range of 4 and 12 kg/mol) diffuse quicker than in their own melts. In any case, as the size of the host straight chains increments over the entrapment sub-atomic weight, the diffusivity of rings diminishes significantly. Threading's, which are evaluated exhaustively in our examination, are additionally seen to cause solid changes in the immediate compliance of the host direct chains, hence affecting their normal measurements. Present work gives solid proof that ring-linear threading's the key component administering the size, the compliance, and the dynamic conduct of ring-linear polymer mixes.

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

(54) Title of the invention : A CONNECTOR MODULE FOR A VLSI CIRCUIT WITH A BATTERY PACK

(51) International classification :G02B0006420000, H05K0007200000, H01R0012880000, H01R0013660000, G02B0006360000

(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

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(57) Abstract :
 [034] The present invention discloses a connector module for a VLSI circuit with a battery pack. The system includes, but not limited to, a plug configured to VLSI circuit port module be communicatively coupled to the receptacle to be electrically/electronically connected to the receptacle; a coupling unit having a coupling section provided on the VLSI circuit having a shape protruding in a direction in which the external connector module for VLSI circuit is located and having coupling guide ribs, which is configured to guide a coupling position of the connector module for the VLSI circuit by being inserted into the receiving groove when the external device connector module is connected to the connector module of the VLSI circuit. Further, the coupling unit configured to be coupled with the coupling section, enabling the coupling section is movable within a predetermined distance range of the VLSI circuit, and a part, which is further configured to be fixed to the internal electronic / electrical device. Accompanied Drawing [FIG. 1]

No. of Pages : 22 No. of Claims : 9

(54) Title of the invention : RUTA GRAVEOLENS L. ESSENTIAL OIL NANOCAPSULE AND PROCESS THEREOF

(51) International classification :A61K0009510000, A61K0036750000, A61K0009500000, A61K0038290000, A61K0038460000

(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

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(57) Abstract :
 ABSTRACT: The present invention relates to the field of orthopaedics. More specifically, it relates to an encapsulated composition and/or nanoparticle comprising Ruta graveolens L. essential oil of aerial parts having activity in order to prevent and or treatment of bone and joint disorders including osteoporosis, bone remodelling, which is important for growth, repair, maintaining normal bone strength, optionally a pharmaceutically acceptable carrier is disclosed. The process involving, drying, pulverisation and sieve, hydro distillation, encapsulation.

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141043881 A

(19) INDIA

(22) Date of filing of Application :28/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : POISONING ATTACK AWARE INTERNET OF HEALTHCARE THINGS NETWORK FOR A WIRELESS BODY AREA NETWORK SYSTEM

(51) International classification :G06Q0050220000, A61B0005000000, H04L0009300000, A61B0005024000, G16H0040200000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

Abstract: Within the recent advancements in Technology, there is a tremendous growth in digital healthcare technologies for refining and transmuting healthcare which takes the account of; plummeting human miscalculations, enlightening clinical consequences, facilitating care coordination, humanizing practice efficiencies, with the help of integrated approaches so-called Internet of Healthcare Things (IoHT) or Internet of Medical Things (IoMT). To create a more effective and safer health care environment in the places where there is no medical health care facility, IoMT can provide a Tele medical room with a 5G infrastructure. The Tele medical room contains a smart chair facility, where in the data of patient denotes Heart rate of the patient, Electrocardiography, Blood Pressure of the patient and Body temperature of the patients can be monitored remotely and the assistance can be provided by the doctors through remote conferencing. The 5G enabled communication environment is created to withstand higher data transmission in the remote correspondence interface. However, IoHT transfers IoT data via IP-centric Internet, which has implications for security and privacy. To address this issue, in this paper, we suggest using named data networking (NDN), a future Internet model that is well suited for mobile patients and caregivers. As the IoHT contains a lot of personal information about a user's physical condition, which can be detrimental to users' finances and health if leaked, therefore, data protection is important in the IoHT. Also, doing computing-intensive tasks leads to slower response times, which further worsens the performance of IoHT. We are trying to resolve such an error, so a new NDN-based certificate less signcryption scheme is proposed for IoHT using the security hardness of the hyper elliptic curve cryptosystem. 10 Claims, 5 Figures.

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

(54) Title of the invention : THE ORGNAIC COMPOSITION AND PREPARATION OF HERBAL CHOCOLATE

(51) International classification :A23G0001360000, A61Q0019000000, A23G0001000000,
A61K0036906800, A61K0031690000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT THE ORGNAIC COMPOSITION AND PREPARATION OF HERBAL CHOCOLATE The present invention relates to a novel and synergistic composition comprising chocolate and organic herb and a process for preparation thereof. The present invention further relates to a use of the chocolate composition as a natural immune booster.

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

(54) Title of the invention : LUNG PULMONARY DISEASE WITH CORONAVIRUS (COVID-19) INFECTION IDENTIFICATION AND CLASSIFICATION USING

<p>(51) International classification :G06T0007000000, G06N0003040000, G06K0009620000, A61B0006030000, A61B0006000000</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. B. SURESH CHANDER KAPALI Address of Applicant :Assistant Professor, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu, India 600089. -----</p> <p>2)Dr. G. BABU</p> <p>3)Ms. K. SHRUTHI</p> <p>4)P. BINI PALAS</p> <p>5)Ms. S. UMA MAHESWARI</p> <p>6)Ms. K. P. REVATHI</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. B. SURESH CHANDER KAPALI Address of Applicant :Assistant Professor, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu, India 600089. -----</p> <p>2)Dr. G. BABU Address of Applicant :Associate Professor, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu, India 600089. -----</p> <p>3)Ms. K. SHRUTHI Address of Applicant :Assistant Professor, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu, India 600089. -----</p> <p>4)P. BINI PALAS Address of Applicant :Assistant Professor, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu, India 600089. -----</p> <p>5)Ms. S. UMA MAHESWARI Address of Applicant :Assistant Professor, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu, India 600089. -----</p> <p>6)Ms. K. P. REVATHI Address of Applicant :Assistant Professor, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu, India 600089. -----</p>
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(57) Abstract :

Abstract The entire lung image, including the pulmonary images, is acquired from the efficient Computed Tomography (CT) device plays a vital role in early lung disease diagnosis and treatment based on the real-time application. Convolutional Neural Network (CNN) based analysis and classification of the deadly lung pulmonary disease using the CT medical images employing the Deep Learning (DL) tools. The lung tissue contrast of morphological structures of the thoracic images helps the specialists in diagnosing and treating all lung diseases more effectively. This image processing model consists of the deep learning classifier with the training datasets stored in the database are compared to the testing samples. The COVID-19 infection is identified using the temperature sensor embedded with Internet of Things (IoT) cloud and the image processor. Since the symptoms of the pulmonary disease are same as the coronavirus except that of the temperature raise added to COVID-19 infection is predicted earlier and shall proceed to further treatment.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141044012 A

(19) INDIA

(22) Date of filing of Application :28/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : An Advanced reliable control system for Projection and Spot Welding Machine.

(51) International classification :B23K0011110000, B23K0011360000, B23K0009160000, B23K0011000000, B23K0101060000

(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

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(57) Abstract :

Welding is widely used in manufacturing processes for metal joining process. An advanced control system for Projection and Spot Welding Machine comprises a micro controller, data server, machine control switch and plurality of sensors such as Weld pressure sensor, Hall Effect probe clipped around the cable, Safety sensor Units, Alignment Position sensor. The device controls the machine and ensures the worker safety and machine tool efficiency. This device is portable and stands alone. This invention is to provide a control for Projection and Spot Welding Machine towards weld pressure and weld force, subsequently, the system executes continuous measuring towards the compressed air, safety execution and work piece dislocation. Overwhelming pressure and work piece positioning are monitored continuously to preserve the sealing compounds. As a result, the device ensures the effective working process and safety measures.

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141044055 A

(19) INDIA

(22) Date of filing of Application :29/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : Hybrid Flying Car

(51) International classification :B64C0029000000, B60F0005020000, B64C0037000000, B64C0027100000, B64C0027080000
(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

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(57) Abstract :

This invention discloses a Hybrid flying car that addresses the lack of endurance of a Flying car powered by battery. In helicopter configuration flying cars are not stable as multi-rotor configuration flying car. In case of fixed wing flying car it needs run way to take off and landing. In order to increase the stability and vertical take-off landing capability this invention discloses a design of the Flying car in co-axial quad configuration. To increase the Flight time and to provide continuous power supply for the required for motors, the invention is designed to be powered with DC- Generators and battery for emergency landing and to start the generator.

No. of Pages : 18 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141044056 A

(19) INDIA

(22) Date of filing of Application :29/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : Seaweed tablet for controlled release of fertilizer and preparation method thereof

(51) International classification :C05G0003000000, C05G0003800000, C05G0001000000, C05G0005400000, C05D0009000000

(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

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(57) Abstract :

The proposed invention is related to the field of agriculture. The invention discloses a compact plant food and fertilizer. It is designed to deliver in slowly available form. The major raw material is seaweed powder. It is enriched with some micro elements which is a vital substance of the organic plant nutrients with tablet technology. The tablet form of material is readily broken up by water. This reduces the loss of fertilizer and improves soil profile.

No. of Pages : 18 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141044103 A

(19) INDIA

(22) Date of filing of Application :29/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : BIG DATA ANALYSIS ON A SPECIFIC TASK WITH A FOCUS ON HEALTH CARE

<p>(51) International classification :G06Q0050220000, G16H0050200000, G16H0040200000, G16H0010600000, G16H0040630000</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. NAGA MADHAVI LATHA KAKARLA Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, SIR CRR College of Engineering, Eluru, Andhrapradesh- 534007 ----- 2)Mr. S MOHAN BABU CHOWDARY 3)Dr. BANDRAPALLI DEEVENA RAJU Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. NAGA MADHAVI LATHA KAKARLA Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, SIR CRR College of Engineering, Eluru, Andhrapradesh- 534007 ----- 2)Mr. S MOHAN BABU CHOWDARY Address of Applicant :Senior Assistant Professor, Department of Computer Science and Engineering, SIR CRR College of Engineering, Eluru, Andhrapradesh- 534007 ----- 3)Dr. BANDRAPALLI DEEVENA RAJU Address of Applicant :Assistant Professor, Department of Data Science and Artificial Intelligence, IcfaiTech, IFHE(Deemed to be University), Donthanapally, Shankarapally Road, Hyderabad- 501203 -----</p>
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(57) Abstract :

[021] In this work, we described the specifics of health data, found out the 5 respondents' opinion on the deployment of Big Data technology and gave examples of the use of Big Data in health care, which mean new challenges for further use of Big Data. From the above examples, it is clear that they bring benefits to physicians, medical facilities and, above all, the patients themselves. Big Data helps to create genetic analyzes, can help with the diagnosis of the disease, but also in determining 10 the most appropriate treatment option. Big Data is also provided to physicians' information about the patient for 24 hours, which allows help to the patient as soon as his condition worsens. Even greater benefits can be achieved by connecting different scientific disciplines and modern technologies. Accompanied Drawing [FIG. 1]

No. of Pages : 26 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141044117 A

(19) INDIA

(22) Date of filing of Application :29/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD AND SYSTEM FOR COGNITIVELY ANALYZING CONDITIONS OF SKIN LESIONS IN AN INDIVIDUAL

<p>(51) International classification :A61B0005000000, A61K0045060000, G06T0019000000, H04L0012741000, G16B0025000000</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) ARATI B. SUDHAKAR Address of Applicant :ARATI B. SUDHAKAR, #651/B, SHREE NAGAR BELAGAVI, KARANTAKA, INDIA-590016 - -----</p> <p>2)Dr. PRASHANT P. PATAVARDHAN Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1) ARATI B. SUDHAKAR Address of Applicant :ARATI B. SUDHAKAR, #651/B, SHREE NAGAR BELAGAVI, KARANTAKA, INDIA-590016 ----- -----</p> <p>2)Dr. PRASHANT P. PATAVARDHAN Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICAITON ENGINEERING, RV INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BANGALOR, KARNATAKA, INDIA-560076 -----</p>
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(57) Abstract :

Aspects of the present disclosure involve systems, devices, and methods for analyzing conditions of skin lesions in an individual; more particularly it relates to detection of rate of spread of skin lesions. The systems, devices, and methods use Augmented Reality (AR) display systems (3) and digital twin simulations (4) to help dermatologist to visualize lesion spread patterns to understand the criticality of the skin conditions to suggest precautions.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141044123 A

(19) INDIA

(22) Date of filing of Application :29/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MOLECULARLY IMPRINTED CONDUCTING POLYMER BASED ELECTROCHEMICAL SENSOR FOR 4-HEXYLRESORCINOL IN SHRIMPS

(51) International classification :G01N0027300000, G01N0027327000, G01N0033180000, C12Q0001682700, G01N0027480000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

ABSTRACT The invention discloses the fabrication of an electrochemical sensor using a molecularly imprinted conducting polymer, which is an extraordinarily proficient and practical electrochemical sensor for quantitative detection of 4-hexylresorcinol (4-HR) in shrimps. 2-aminothiazole (AT) was electropolymerized on the surface of a carbon fibre paper electrode (CFP) in the presence of 4-HR imprinted polymer sheets. To provide precise imprinting sites and control the release of 4-hexylresorcinol templates, bulk-electrolysis was employed. The synthesised conducting polymer exhibits exceptional electroactivity towards 4-HR and permits fast electron transfer kinetics, which is favourable for conventional electro-sensing applications, according to a voltametric investigation. For 4-HR, this MIP sensor has a detection limit of 6.03 nM. Due to its extensive binding via intermolecular hydrogen bonding, the modified CFP electrode has been proven to be very selective for the determination of 4-HR in shrimp samples.

No. of Pages : 12 No. of Claims : 9

(54) Title of the invention : A DEEP LEARNING SYSTEM FOR BRAIN TUMOR RADIO GENOMIC CLASSIFICATION AND METHOD THEREOF

(51) International classification :C12Q0001688600, G06K0009620000, G16B0020000000, A61K0049000000, G06N0003000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
 Glioblastoma is most common form of brain cancer in adults and the one with the worst prognosis, with median survival being less than a year. The presence of a specific genetic sequence in the tumor known as MGMT promoter methylation has been shown to be a favorable prognostic factor and a strong predictor of responsiveness to chemotherapy. In earlier works, Genetic analysis of cancer requires surgery to extract a tissue sample. Then it can take several weeks to determine the genetic characterization of the tumor. Depending upon the results and type of initial therapy chosen, a subsequent surgery may be necessary. If an accurate method to predict the genetics of the cancer through imaging (i.e., radio genomics) alone could be developed, this would potentially minimize the number of surgeries and refine the type of therapy required. In order to minimize the number of surgeries and refine the type of therapy ResNet50 and Xception model is used as the pretrained transfer learning model to classify the presence of Glioblastoma using the MGMT value along with Long short-term memory due to the presence of temporal information in the dataset. The proposed is capable of achieving the better accuracy in the prediction of glioblastoma from MGMT value with low cost and faster diagnosis time.

No. of Pages : 6 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141044448 A

(19) INDIA

(22) Date of filing of Application :30/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SMART IRRIGATION AND STREET LIGHT MONITORING USING DUAL AXIS SOLAR TRACKER

(51) International classification :H02S0020320000, F24S0030000000, F24S0050200000, G01S0003786000, F24S0030425000

(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

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(57) Abstract :

ABSTRACT SMART IRRIGATION AND STREET LIGHT MONITORING USING DUAL AXIS SOLAR TRACKER This invention is related to the field of renewal energy. The invention discloses a dual axis solar tracking system based on microcontroller. This solar tracker operation costs and maintenance cost are comparatively low. Here the use of stepper motors in solar trackers enables accurate tracking of the sun and light dependent resistor are used to determine the solar light intensity. An additional aspect of this invention is that Information from a plantation will be captured for temperature and humidity, both from air and soil. Based on those data a Farm Bot will decide the right amount when the plantation should receive heat and water. The invention allows manual intervention of an operator in order to control a water pump and an electric lamp to generate heat for the plantation.

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141044513 A

(19) INDIA

(22) Date of filing of Application :01/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : Multi Label Deep Learning Classification Approach for False Data Injection Attacks in Smart Grid

(51) International classification :G06N0003040000, G06K0009620000, G06N0003080000, G06K0009000000, H04L0029060000

(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
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(57) Abstract :

Multi Label Deep Learning Classification Approach for False Data Injection Attacks in Smart Grid The objective of the present invention is to develop a deep learning tool for location detection of False Data Injection Attacks (FDIA). It links a deep-neural network (104) with a typical FDD detector (103), referred to as the Convolutional Neural Network - Locational Detection (CNN-LD) architecture which can apply to the range of hidden attacks and topology models with updated network parameters. The FDIA location detection problem as a multi-label classification problem is formulated and use CNN as a classifier to extract power flow correlation functionality and increase location detection ability. Fig. 1

No. of Pages : 16 No. of Claims : 3

(54) Title of the invention : ARTIFICIAL INTELLIGENCE-ENABLED ADAPTIVE LEARNING SYSTEMS

<p>(51) International classification :G09B0005000000, G09B0007000000, G09B0007040000, G09B0007080000, G09B0007020000</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)Mr. Mohan M Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Panimalar Engineering college, Chennai. -----</p> <p>2)Dr. Aparna D 3)Dr. Swapna.H.R 4)Mr. T. Ch. Anil Kumar 5)Dr.D.Stalin David 6)Mr.D.Saravanan 7)Ms.K.Kiruba 8)Dr.MK Jayanthi Kannan 9)Mr.A.Ranjeeth 10)Dr. Srinivasan K Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr. Mohan M Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Panimalar Engineering college, Chennai. -----</p> <p>2)Dr. Aparna D Address of Applicant :Associate Professor, Department of Management, The Oxford College of Business Management, Bengaluru, 560102. -----</p> <p>3)Dr. Swapna.H.R Address of Applicant :Professor, School of Commerce, PG - Studies, JAIN (Deemed-to-be University), Bengaluru. -----</p> <p>4)Mr. T. Ch. Anil Kumar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Vignan's Foundation for Science Technology and Research, Vadlamudi, Guntur Dt., India - 522213. -----</p> <p>5)Dr.D.Stalin David Address of Applicant :Assistant Professor, Department of CSE, IFET College of Engineering, Villupuram, 605108. -----</p> <p>6)Mr.D.Saravanan Address of Applicant :Associate Professor, Department of CSE, IFET College of Engineering, Villupuram, 605108. -----</p> <p>7)Ms.K.Kiruba Address of Applicant :Assistant Professor, Department of CSE, IFET College of Engineering, Villupuram, 605108. -----</p> <p>8)Dr.MK Jayanthi Kannan Address of Applicant :Professor, Department of Computer Science Engineering, Faculty of Engineering and Technology, JAIN (Deemed-To-Be University), Bangalore - 562 112. -----</p> <p>9)Mr.A.Ranjeeth Address of Applicant :Assistant Professor, Department of CSE, IFET College of Engineering, Villupuram, 605108. -----</p> <p>10)Dr. Srinivasan K Address of Applicant :Vice Principal, Cresta School of Management, Science and Arts, Mysore -----</p>
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(57) Abstract :

To maximize automated learning efficiency, an improved adaptive learning system and technique (ALS) is provided. With AI. A student's speed and accuracy of response in answering a series of questions, completing a series of classification tasks, or conducting several procedures are constantly monitored by the optimum sequencing technique, which changes the sequencing of the items given based on these factors. Techniques such as this one have as one of their primary objectives teaching material in the lowest amount of time feasible. Perceptual learning and hinting techniques have been revealed, and they may be utilized in combination with the optimum sequencing method or as a standalone technique.

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

(54) Title of the invention : SENSOR BASED INTELLIGENT WEARABLE HELMET FOR EARLY DETECTION OF STROKE IN PATIENTS

(51) International classification :A61B0005000000, A61B0005020500, G16H0050300000, G16H0050700000, A61B0005047600

(86) International Application No :PCT/
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
 Every year nearly 50 million people suffer from stroke, within which 5 million people become permanently disabled. Early detection of stroke and right time of hospitalization of patients increases the chances of complete recovery. Proposed is a sensor based intelligent wearable helmet for early detection of stroke in patients. The proposed helmet allows real-time monitoring and simultaneous analysis of health parameter of patients, the affected parts of brain and cardio vascular system. The indicators of cardio vascular system are closely connected to increased risk of stroke. This information is important for preventing recurrent occurrence of stroke in patients and would also provide efficient analysis of the collected data. Doctors' visual information about the brain tissue is an important input for detection of stroke. The device is portable and allows patients to make measurements from home during rehabilitation. Doctors can access data from the cloud, and take timely decisions for treatment methods of stroke. Th electromagnetic waves are primary source of input that could easily penetrate the skull and reach the brain. These electromagnetic measurements are processed using signal processing techniques. Machine Learning Algorithm is applied for pattern recognition and efficient diagnosis of stroke.

(54) Title of the invention : DETECT INCONSISTENCIES AND ATTACKS IN A COMPUTING NETWORK USING MACHINE LEARNING FOR CYBER SECURITY

<p>(51) International classification :H04L0029060000, G06N0020000000, G06F0021550000, G06F0021570000, H04L0012580000</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.T.Arumuga Maria Devi Address of Applicant :Dr.T.Arumuga Maria Devi,Assistant Professor, Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli, Tamilnadu -627012. arumugamariadevi@msuniv.ac.in , 8667899606. -----</p> <p>2)Mrs.Thangaselvi P</p> <p>3)Dr.V.Harsha Shastri</p> <p>4)Dr.R.Nandhakumar</p> <p>5)Prof. Ambresh Bhadrashetty</p> <p>6)Dr. Anurag Verma</p> <p>7)Dr. Om Prakash Yadav</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.T.Arumuga Maria Devi Address of Applicant :Dr.T.Arumuga Maria Devi,Assistant Professor, Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli, Tamilnadu -627012. arumugamariadevi@msuniv.ac.in , 8667899606. -----</p> <p>2)Mrs.Thangaselvi P Address of Applicant :Mrs.Thangaselvi P, Research Scholar, Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli-627012, Tamilnadu. -----</p> <p>3)Dr.V.Harsha Shastri Address of Applicant :Dr.V.Harsha Shastri, Assistant Professor, Department of Computer Systems and Engineering, Loyola Academy, Secunderabad, Telangana, 500010. -----</p> <p>4)Dr.R.Nandhakumar Address of Applicant :Dr.R.Nandhakumar, Assistant Professor, PG and Research Department of Computer Science and Applications, Vivekanandha College of Arts and Sciences for Women (Autonomous), Tiruchengode, Namakkal, Tamilnadu-637 205 -----</p> <p>5)Prof. Ambresh Bhadrashetty Address of Applicant :Prof. Ambresh Bhadrashetty, Assistant Professor, Department of MCA, Visvesvaraya Technological University, Centre for PG Studies, Kusnoor Road, Kalaburagi-585105, Karnataka. -----</p> <p>6)Dr. Anurag Verma Address of Applicant :Dr. Anurag Verma, Assistant Professor, Electrical Engineering Department, Institute of Engineering & Technology, Lucknow, Uttar Pradesh-226021. -----</p> <p>7)Dr. Om Prakash Yadav Address of Applicant :Dr. Om Prakash Yadav, Assistant Professor, Electronics and Instrumentation Engineering Department, Institute of Engineering and Technology, Lucknow-226021, Uttar Pradesh. -----</p>
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(57) Abstract :

Cybercrime is now on the rise worldwide, taking advantage of every weakness inside the computing system. Cybersecurity professionals are still more concerned with identifying weaknesses and suggesting mitigation strategies. Inside the realm of cyber defense, the implementation of efficient approaches was a pressing need. Almost majority of today's modern IDS approaches were incapable of dealing with both the dynamic and complicated type of cyber on networked computers. According to the efficacy of machine learning technology in data/cyber security concerns, machine learning technology for data/cyber security has lately become such a hot topic. Anomaly detection, infection categorization & recognition, spam filtering, and spoofing identification are just a few of the main difficulties in data/ cyber security which have been tackled with machine learning techniques. Though computer vision cannot completely automate data/cyber security systems, it can assist detect data/cyber security risks faster than that of other application-oriented techniques, easing the strain on data/cybersecurity experts. As either a consequence, adapt to new situation approaches, such as machine learning approaches, can lead to higher diagnostic accuracy, reduced detection accuracy, and cheaper computing and networking costs. Our major objective is to show that the challenge of detecting assaults is radically different from all other technologies, rendering it far more difficult for the intrusion prevention industry to properly use machine learning technology.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : INTEGRATED APPROACH BY IMAGE PROCESSING AND NEURAL NETWORK TO IDENTIFY HEALTH OF THE PLANT

<p>(51) International classification :G06N0003040000, G06N0003080000, G06T0007136000, C12N0015820000, G06T0007194000</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. Neelamegam D Address of Applicant :Dr. Neelamegam D,Associate Professor, Department of Electronics and Communication Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, 400 Feet outer ring road, avadi, chennai – 600062.Tamilnadu. drdneelamegam@veltech.edu.in, 9790580118. ----- ----- 2)Mr. Lalit Kumar 3)Mr.Mohd. Aquib Ansari 4)Mr. Amrendra Singh Yadav 5)Mr. Suresh Palarimath 6)Ms.Bably Dolly 7)Mr.Abdul Ahad Abro Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Neelamegam D Address of Applicant :Dr. Neelamegam D,Associate Professor, Department of Electronics and Communication Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, 400 Feet outer ring road, avadi, chennai – 600062.Tamilnadu. drdneelamegam@veltech.edu.in, 9790580118. ----- ----- 2)Mr. Lalit Kumar Address of Applicant :Mr. Lalit Kumar, Research Scholar, CSED, MNNIT Allahabad, Prayagraj-211004, Uttar Pradesh, India ----- 3)Mr.Mohd. Aquib Ansari Address of Applicant :Mr.Mohd. Aquib Ansari, Research Scholar, CSED, MNNIT Allahabad, Prayagraj-211004, Uttar Pradesh, India ----- 4)Mr. Amrendra Singh Yadav Address of Applicant :Mr. Amrendra Singh Yadav, Research Scholar, CSED, MNNIT Allahabad, Prayagraj-211004, Uttar Pradesh, India . ----- 5)Mr. Suresh Palarimath Address of Applicant :Mr. Suresh Palarimath, Lecturer Department of Information Technology, University of Technology and Applied Sciences, Salalah Oman – 211. ----- 6)Ms.Bably Dolly Address of Applicant :Ms.Bably Dolly, Research Scholar, Department of Computer Science, Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh- 226025. ----- 7)Mr.Abdul Ahad Abro Address of Applicant :Mr.Abdul Ahad Abro , Researcher , Department of Computer Engineering , Ege University, Erzene Mahallesi Ege University Merkez Yerleskesi, 35040 Bornova/Izmir, Turkey-35040. -----</p>
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(57) Abstract :
Farming is India's primary source of food, especially in the south. Crops are responsible for Economic growth. However, certain important illnesses, including blasting, leaf spots, and bacterial leaf blight, reduce plant development, which has a significant impact on food production. Producers use ineffective pesticides based on their poor understanding, which somewhat degrades crop productivity but then also degrades soil health. Vision System methodologies based on deep neural networks are utilized in the suggested protocol to identify plant development or illnesses suggested by leaflet abnormality. When segregate impacted regions, image analysis methods including such K means grouping were utilized. Color Coherence Factor (CCF), as well as Gabor Binary Diagram Order (GBDO), are being used to extract characteristics from segmentation pictures of the plant leaves. When categorizing the sick leaves, these collected characteristics are loaded into backpropagation networks

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141044822 A

(19) INDIA

(22) Date of filing of Application :04/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PREDICTION OF BREAST CANCER BY ARTIFICIAL INTELLIGENCE

(51) International classification :G06K0009620000, G06N0020000000, C12Q0001688600, G06N0005040000, G06N0005020000

(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

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(57) Abstract :
 Breast cancer illness is the most frequently diagnosed cancer among ladies, and this is one of the leading causes of death in ladies. Because traditional detection of such an illness takes a lot of time and methods aren't always available, and automated diagnostics method for cancers initial diagnosis is needed. For such breast-image identification job, sophisticated development of naturalistic image processing techniques & Artificial Intelligence (AI) approaches were mainly employed. Segmentation, as well as data gathering approaches, are an excellent approach to submitted, while machine learning techniques make a significant contribution to the creation of this technology. Researchers utilized a machine learning algorithms approach to classify malignant and benign tumors, whereby the model learns from historic information and therefore can anticipate the categorization of incoming information. Here on Breast Cancer Wisconsin set of data points, this report is a comprehensive analysis on the development of algorithms utilizing Support Vector Machine (SVM) with Naive Bayes. The overall effectiveness of every method is analyzed and compared in terms of reliability, resolution, responsiveness, selectivity, the margin of error, as well as f1 rate. SVM outperforms the Naive Bayes approach in predictive modeling, according to research tests. SVM is such a well technique for forecasting, according to this research

No. of Pages : 18 No. of Claims : 4

(54) Title of the invention : CONTROL ON POLLUTION LEVELS OF PETROL ENGINE WITH LOW COST CATALYTIC CONVERTER

<p>(51) International classification :F01N0003280000, F01N0003080000, C10L0010020000, C10L0001182000, F23D0014140000</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)Chaitanya Bharathi Institute of Technology Address of Applicant :Gandipet, Hyderabad, Telangana-500075, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)M. V. S. Murali Krishna Address of Applicant :Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana-500075, India -----</p> <p>2)Ipsita Mohanty Address of Applicant :Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana-500075, India -----</p> <p>3)Ch. Indira Priyadarshini Address of Applicant :Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana-500075, India -----</p> <p>4)S. Narasimha Kumar Address of Applicant :Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana-500075, India -----</p>
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(57) Abstract :

The present invention provides a catalytic converter for controlling exhaust emission in internal combustion engines to reduce the amount of harmful emissions of carbon monoxide (CMO), partially un-burnt hydro carbons (PBHC) and oxides of nitrogen (NOx) exhausted into the atmosphere. The catalytic converter has an aluminium oxide coating on the inside portion; the inner and intermediate cylinders of the catalytic converter contain 25 mm diameter holes on the periphery of the cylinders; and the catalyst used in the catalytic converter is selected from tungsten, molybdenum, sponge iron and manganese ore. The catalytic converter for stationary Spark Ignition (SI) Engine with neat gasoline as a fuel having brake power 7.5kW at a rotational speed of 50 RPS provided with air injection controls harmful emissions of CMO, PBHC and NOx.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141044969 A

(19) INDIA

(22) Date of filing of Application :04/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : CONTROL OF EXHAUST EMISSIONS OF AUTO RICKSHAW ENGINE RUN WITH DIESEL FUEL

(51) International classification :B01D0053940000, F01N0003200000, F01N0013000000, F01N0009000000, B01D0045160000
(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

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(57) Abstract :

The present invention provides a system and method for controlling exhaust emissions in diesel-run auto rickshaw engine. Especially, the present invention provides a cyclonic separator for controlling particulate matter (PM) exhaust emissions in diesel-run auto rickshaw engines, and a selective catalytic reduction technique (SCRT) for controlling NOx emissions in diesel-run auto rickshaw engines.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141044970 A

(19) INDIA

(22) Date of filing of Application :04/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : INSULATED PARTIALLY ADIABATIC DIESEL ENGINE OPERATED WITH METHANOL AND VEGETABLE OIL

<p>(51) International classification :F02B0003060000, F02F0007000000, F02B0075160000, F02B0023060000, C10L0001182000</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)Chaitanya Bharathi Institute of Technology Address of Applicant :Gandipet, Hyderabad, Telangana-500075, India ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)M. V. S. Murali Krishna Address of Applicant :Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana-500075, India ----- 2)N. Janardhan Address of Applicant :Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana-500075, India ----- 3)R. P. Chowdary Address of Applicant :Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana-500075, India ----- 4)V. V. R. Seshagiri Rao Address of Applicant :Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana-500075, India -----</p>
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(57) Abstract :

The present invention provides a single cylinder partially adiabatic diesel engine (PADE) equipped with an insulated piston having stainless steel crown, the body of the piston made of aluminium alloy, and an insulated liner having a stainless steel insert. The crown of the piston is attached to the body of the piston by threading, and the insert of the liner is attached to the body of the liner by screwing. The single cylinder PADE operates with carburetted methanol and cottonseed oil. The single cylinder partially adiabatic diesel engine (PADE) with carbureted CH₃OH and injected cottonseed oil reduce particulate emissions by 60%, and NO_x levels by 30% with regulated injection pressure at maximum load in comparison to normal diesel engine.

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

(54) Title of the invention : DEVELOP OF ANTIMICROBIAL BASED CHITASAN SHEET USING GINGERLY OIL AND BACTERIUM LACTOCOCCUS LACTIS

<p>(51) International classification :G01N0021350000, A61K0008920000, B82Y0030000000, G01N0030740000, G01N0021357700</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.Swati Sinha Address of Applicant :Dr.Swati Sinha, Research Assistant, Department of Biotechnology, Kumaun University, Bhimtal Campus, Bhimtal, Nainital-263136,Uttarakhand,India swati1444.09@bitmesra.ac.in, +91- 7017891651 -----</p> <p>2)Dr Mohd Ayub Ansari 3)Dr. Sweta Singh 4)Dr. Kapil Kumar 5)Dr.Muhammad Nauman Aftab 6)Dr N T Pramathesh Mishra 7)Dr. Vipin Maurya Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.Swati Sinha Address of Applicant :Dr.Swati Sinha, Research Assistant, Department of Biotechnology, Kumaun University, Bhimtal Campus, Bhimtal, Nainital-263136,Uttarakhand,India swati1444.09@bitmesra.ac.in, +91- 7017891651 -----</p> <p>2)Dr Mohd Ayub Ansari Address of Applicant :Dr Mohd Ayub Ansari, Associate Professor, Department of Chemistry , Bipin Bihari College , Jhansi-284001 Uttar Pradesh. -----</p> <p>3)Dr. Sweta Singh Address of Applicant :Dr. Sweta Singh, Assistant Professor, Department of Agricultural Engineering,College of Agriculture, Bharatpur, S.K.N Agriculture University, Jobne, Rajasthan-303329. -----</p> <p>4)Dr. Kapil Kumar Address of Applicant :Dr. Kapil Kumar,Assistant Professor,Department of Food Technology,Subharti Institute of Technology Engineering, Jagatpuri, Shahdara, Delhi - 110093 -----</p> <p>5)Dr.Muhammad Nauman Aftab Address of Applicant :Dr.Muhammad Nauman Aftab, Professor, Institute of Industrial Biotechnology, Government College University Lahore, Katchery Road-54000, Pakistan. -----</p> <p>6)Dr N T Pramathesh Mishra Address of Applicant :Dr N T Pramathesh Mishra, Assistant Professor, Department of Pharmacology, Hygia College of Pharmacy, Lucknow, Uttar Pradesh -226020. -----</p> <p>7)Dr. Vipin Maurya Address of Applicant :Dr. Vipin Maurya, Assistant Professor, Department of Livestock Production Management, Faculty of Veterinary & Animal Sciences, I.Ag.Sc., RGSC- Banaras Hindu University, Barkachha, Mirzapur -231001, Uttar Pradesh. -----</p>
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(57) Abstract :

At different dosages, the antibacterial impact of chitasan edible coatings including gentle oils was evaluated to that of standard food preservatives Potassium Sorbate (PS) & Bacteriocin Nisen (N). That action was put to the test versus germs that cause food poisoning. Physical and mechanical characteristics were determined, as well as substituents connections between both the matrices and additional agents using Fourier Transform Infrared (FTIR). Gingerly oils, up to a specific amount of chitasan, were said to have antibacterial action.Such films proved structurally satisfactory at some of these tiers of visual, structural, & physiological features. Because it had no interactions with both the functional groups of chitasan as determined by FTIR, gently oil ingredients did not influence the health and structural characteristics of chitasan coatings.

No. of Pages : 12 No. of Claims : 5

(54) Title of the invention : MECHANICAL MOVEMENT BASED EXTRA LOWER DOOR STEP IN BUS FOR EASY ACCESS DESIGNED FOR ELDERLY PEOPLE

(51) International classification :B60R0003000000, A61B0005110000, B60R0003020000, G11B0027100000, A61K0031198000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
 An autonomous floor cleaning robot includes a cleaning assembly for cleaning a surface using vacuum and a fluid area to mop the surface. The main robot body houses a drive system to cause movement of the robotic cleaner and an Arduino UNO board to control the movement of the robotic cleaner. Two modes are used here. Mode 1 is used to clean the floor surface using the vacuum and in the Mode 2 function is meant for mopping which is located at the bottom of the drive system. The obstacles in the floor are detected by PIR sensor. If any obstacle is detected, the drive system rotates 90 degree and the process is continued (either Mode 1 or 2). The entire system is controlled by a rechargeable battery which provides the power supply to the entire electronic module present in the system. A detachable brush is attached at the end of the design to make the wet floor into dry.

No. of Pages : 6 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141045152 A

(19) INDIA

(22) Date of filing of Application :05/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD AND SYSTEM FOR UTILIZING MACHINE LEARNING (ML) MODELS FOR DETERMINING OPTIMAL TRAVEL ROUTES FOR ELECTRIC VEHICLES (EV)

<p>(51) International classification :G06N0020000000, G01C0021340000, G06K0009620000, H04W0004800000, B60W0050000000</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)MRS. MEENA DESHPANDE (ASSISTANT PROFESSOR) Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION AMC ENGINEERING COLLEGE, BANGALORE-560083- KARNATAKA STATE. -----</p> <p>2)DR. SAVITA PATIL (ASSOCIATE PROFESSOR)</p> <p>3)DR. BHOOMIKA AWASTHI</p> <p>4)DR. VIJAYALAXMI KADROLLI (ASSISTANT PROFESSOR)</p> <p>5)DR. VARSHA BODADE (PROFESSOR)</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)MRS. MEENA DESHPANDE (ASSISTANT PROFESSOR) Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION AMC ENGINEERING COLLEGE, BANGALORE-560083- KARNATAKA STATE. -----</p> <p>2)DR. SAVITA PATIL (ASSOCIATE PROFESSOR) Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION AMC ENGINEERING COLLEGE, BANGALORE 560083- KARNATAKA STATE. -----</p> <p>3)DR. BHOOMIKA AWASTHI Address of Applicant :DEPARTMENT ELECTRONICS AND COMMUNICATION ENGINEERING AMC ENGINEERING COLLEGE, BANGALORE 560083- KARNATAKA STATE. -----</p> <p>-----</p> <p>4)DR. VIJAYALAXMI KADROLLI (ASSISTANT PROFESSOR) Address of Applicant :DEPARTMENT OF INFORMATION TECHNOLOGY TERNA ENGINEERING COLLEGE, NERUL (WEST) NAVI MUMBAI-400706 STATE-MAHARASHTRA -----</p> <p>-----</p> <p>5)DR. VARSHA BODADE (PROFESSOR) Address of Applicant :DEPARTMENT OF INFORMATION TECHNOLOGY TERNA ENGINEERING COLLEGE, NERUL (WEST) NAVI MUMBAI-400706 STATE: MAHARASHTRA -----</p> <p>-----</p>
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(57) Abstract :
METHOD AND SYSTEM FOR UTILIZING MACHINE LEARNING (ML) MODELS FOR DETERMINING OPTIMAL TRAVEL ROUTES FOR ELECTRIC VEHICLES (EV) The present invention provides an approach for utilizing machine learning models for determining optimal travel routes for electric vehicles. The present inventions relate to method and system for identifying and routing one or more electric vehicles from source location to destination location. The invention comprises specifically programmed machine leaning (ML) models integrated with battery energy management and navigation route control. ML models disclosed in the present invention compares the current EV stored battery energy to one or more defined thresholds. If the battery energy is less than a selected threshold, information is transmitted from the EV to one or more cloud or remote computer/database processing systems.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141045273 A

(19) INDIA

(22) Date of filing of Application :05/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DUAL POLARIZED SUB-GHz 5G BASE STATION ANTENNA FOR LOW MOBILITY n-URBAN APPLICATIONS

(51) International classification :H01Q0021000000, H01Q0001240000, H01Q0025000000, H01Q0001500000, H01Q0021260000

(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

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(57) Abstract :

Exemplary embodiments of present disclosure directed towards a dual polarized sub-GHz 5G base station antenna for low mobility n-Urban/Rural area applications at 700MHz, comprising: radiating elements are beveled and folded at ends of radiators with half circular discs are grounded by a reflecting surface, the radiators are developed to receive signals from a feeding network and radiate them into a free space, to the fullest extent without sending the signals back to a signal source, the orthogonal radiators are drilled and are grounded by a reflecting surface with holes with dual feeding mechanisms at one quarter wavelength from the radiators to create stable and highly directional radiation characteristics; SMA connectors are connected to the feed lines to give radio frequency input to the radiators, the feed lines are configured to excite the radiating elements, the feed lines are soldered with the SMA connectors and radiating elements are connected to the ground plane to make an electrical contact.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141045309 A

(19) INDIA

(22) Date of filing of Application :05/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : IoT-enabled tool for online education system in the developing trend of smart education

(51) International classification :G06Q0050200000, G09B0019000000, G09B0005140000, G09B0007000000, G09B0005060000

(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
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(57) Abstract :

The technological issue to be addressed in one embodiment of the present invention is to connect a variety of learning material requested by a student with a smart education application, thus offering video clips, pictures, live broadcasts, and problem banks as learning content. Consequently, a smart education system according to one embodiment is disclosed, including a smart education server to which an administrator or an instructor uploads a plurality of learning content items and which provides a service for learning content such as video clips, images, a live broadcast and learning material; a student terminal on which the smart education application is loaded and connected to the smart education server with IoT enabled technology.

No. of Pages : 22 No. of Claims : 3

(54) Title of the invention : A machine learning-based Platform for Distributed IoT Systems

(51) International classification :H04L0029080000, H04L0029060000, H04W0004700000, H04L0012240000, 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

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(57) Abstract :
 [035] The present invention discloses a machine learning based platform for distributed IoT system and method thereof. The system includes, but not limited to, a plurality of IoT devices having a dedicated processing unit connected in an IoT network; a plurality of logical standards of processing in a hierarchy, with each level handling level to level processing, wherein each of the level of processing resides in one or more edge controllers provided at distributed networks, and each edge controller being in communicatively coupled for supervising one or more IoT devices by using a machine learning interface. Each of the level of processing resides in a plurality of terminal aggregator units, wherein further each of the terminal aggregator unit is being in communicatively coupled for supervising each of the edge controllers. Accompanied Drawing [FIG. 1]

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141045390 A

(19) INDIA

(22) Date of filing of Application :06/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A SECURE UNIVERSAL MEDICAL DATABASE

(51) International classification :G16H0010600000, G16H0040200000, G06F0009451000, G16H0010650000, A61B0050300000

(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

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(57) Abstract :

ABSTRACT A SECURE UNIVERSAL MEDICAL DATABASE It is human nature to dump the records of past that are of no use in present. Similarly, no stress is laid upon maintaining a database of such records of patient's medication on a large scale. Although, Hospitals keep a record of all patients they have treated. So, keeping this in mind, the proposed invention A SECURE UNIVERSAL MEDICAL DATABASE aims at providing help in such distress situations. The application is designed to store and maintain records of patients, hospital working and associated aspects with it on a global scale ensuring that everyone has access to the application including hospital administrators, doctors and patients.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141045506 A

(19) INDIA

(22) Date of filing of Application :06/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A Novel Approach for Blood Antigens Estimation Using Microelectronics

(51) International classification :G01N0033490000, G01N0033800000, A61M0001360000, A61B0008000000, A61B0005145000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
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(57) Abstract :

With the raise in pandemic blood pathology lab for blood testing are increasing and thriving hard to support mankind , the complexity of handling blood strips, needles , storing data's are getting complicated .My research is the primary foundation for the blood detection diseases The MEMS technology supports my research in non-invasive way of analyzing the blood group of the person sensor with optical data analyzed by high fidelity MEMS sensor .The sensors bombard on the skin surface with the reflection coefficient obtained from the reflected wave that is the optical characteristic of the blood filtering other blood components like WBC , plasma and platelets .The Rh factor with Antigens for Positive and Negative has a peak operating point as it is frequency dependent .The MEMS interface technology with ML using python is coded to decoded the blood group .The non-Invasive technique is the benchmark for all the future blood disease detection technique which becomes faster and reliable .

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

(54) Title of the invention : METHOD AND SYSTEM FOR PROVIDING OPTIMAL AGRICULTURAL PLANTING USING INTERNET OF THINGS (IOT)

(51) International classification :H04L0029080000, G01N0033500000, H04L0029060000, G06N0020000000, G06F0009455000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
 METHOD AND SYSTEM FOR PROVIDING OPTIMAL AGRICULTURAL PLANTING USING INTERNET OF THINGS (IOT) The present invention provides an approach for optimal agricultural planting. The invention relates to utilizing plurality of IOT sensors for obtaining data in real-time and utilizing Artificial Intelligence (AI) based algorithms for analyzing and automatically adjusting and achieving optimal agricultural planting. The present invention also utilizes one or more AI based algorithms for determining soil and seed characteristics and analyzing the same upon receiving the data from IOT sensors. FIG.1

(54) Title of the invention : A New Direction of Arrival Estimation Technique for Smart Antenna without Source Number Information in Fully Coherent Environments

<p>(51) International classification :H01Q0003260000, G01S0003140000, G01S0003740000, H01Q0021000000, H04B0007100000</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. Veerendra Dakulagi Address of Applicant :Associate Professor, Dept. of E&CE, Guru Nanak Dev Engineering College, Bidar, Karnataka, INDIA. Mobile Phone: +91-8296721601 Email: veerendra@ieee.org -----</p> <p>-----</p> <p>2)Dr. Ravindra Eklarker 3)Nirmalkumar S Benni Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Veerendra Dakulagi Address of Applicant :Associate Professor, Dept. of E&CE, Guru Nanak Dev Engineering College, Bidar, Karnataka, INDIA. Mobile Phone: +91-8296721601 Email: veerendra@ieee.org -----</p> <p>-----</p> <p>2)Dr. Ravindra Eklarker Address of Applicant :Guru Nanak Dev Engineering College, Mailoor Road, Bidar , Karnataka, INDIA, 585403 Mobile Phone: 9448336042 Email: reklarker@gmail.com -----</p> <p>3)Nirmalkumar S Benni Address of Applicant :School of ECE, REVA University, Bangalore-560064. -----</p>
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(57) Abstract :

Recently, symmetric uniform linear arrays (ULA) are deployed in mobile communication for estimating the coherent direction-of-arrival (DOA) of user signals. The key principle behind this technique is making use of odd-numbered antenna elements. Firstly, for the high-resolution estimation of user signals, $(2N + 1)$ antenna elements are required. This means, approximately (fundamentally) more than double antenna elements are required for estimating the DOAs of source signals. As an example, symmetric ULA composed of 11-antenna elements is processed as if it is an array composed of five antennas. This will double the front-end and the antenna cost, making the communication system expensive and larger. Second, in practical scenarios, a symmetric antenna array will estimate only N source signals using any available DOA approaches. To circumvent these issues related to the symmetric ULA, we exploit the joint diagonalization structure of Toeplitz matrix for estimating the DOAs without knowing the source number information in a fully coherent environment. The following strategy can be applied to estimate when the number of narrowband signals exceeds or equal to the number of sensors. If an array receives both uncorrelated and a group of coherent sources from far-field. Firstly, uncorrelated sources can be estimated using classical subspace techniques, and then we exploit the joint diagonalization structure of Toeplitz matrix using a symmetric ULA to resolve the coherent sources. We use a 1-dimensional (1-D) search to plot both uncorrelated and coherent source signals. Experimental results discussed in the complete specifications of this patent demonstrate the efficacy of the novel DOA technique.

No. of Pages : 13 No. of Claims : 3

(54) Title of the invention : WIRELESS SENSOR NETWORKS APPLIED IN INTELLIGENT TRANSPORTATION SCHEMES

(51) International classification :H04W0084180000, H04N0007180000, H04L0009080000, G06Q0050300000, H04L0029080000

(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

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(57) Abstract :
 ABSTRACT WIRELESS SENSOR NETWORKS APPLIED IN INTELLIGENT TRANSPORTATION SCHEMES Wireless Sensor Networks (WSNs) offer the possibility to essentially work on the effectiveness of existing transportation frameworks. At present, gathering traffic, information for traffic arranging and the board is accomplished for the most part through wired sensors. The gear and support cost and tedious establishments of existing detecting frameworks forestall enormous scope arrangement of constant traffic checking and control. Little remote sensors with coordinated detecting, figuring, and remote correspondence capacities offer huge benefits in minimal expense and simple installation. In this invention, we first overview existing WSN innovations for shrewd transportation frameworks (ITSs), including sensor advancements, energy-effective systems administration conventions, and utilizations of sensor networks for parking garage.

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141045809 A

(19) INDIA

(22) Date of filing of Application :08/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : STOCK MARKET AND MUTUAL FUNDS FOR FARMS

<p>(51) International classification :G06Q0040020000, G06Q0040060000, G06Q0040000000, G06Q0040040000, G06Q0050020000</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)Rishabh Kumar Address of Applicant :Vellore Institute of Technology, Vellore, Tamil Nadu ----- 2)Devina Varshney 3)Navya Saxena Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Rishabh Kumar Address of Applicant :Vellore Institute of Technology, Vellore, Tamil Nadu ----- 2)Devina Varshney Address of Applicant :Vellore Institute of Technology, Vellore, Tamil Nadu ----- 3)Navya Saxena Address of Applicant :Vellore Institute of Technology, Vellore, Tamil Nadu -----</p>
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(57) Abstract :

ABSTRACT STOCK MARKET AND MUTUAL FUNDS FOR FARMS Investments have always been high in cities in comparison to villages because of many factors. Farmers have always faced shortage of funds in gaining access to necessary equipment and machinery to produce optimum output and maximize their profits through farming. Government has taken several steps in order to ensure funds are provided to farmers for farming through various policies and loan facilities but still a large section of farmers don't have enough funds. So, keeping this in mind, the proposed Invention STOCK MARKET AND MUTUAL FUNDS FOR FARM aims at building a platform consisting of an application and a website which will help potential investors in exploring various farms to invest their money in. The proposed innovation is an application-based model that is dually beneficial; helping farmers by providing them alternate source of acquiring loan other than illegitimate source and allows investors in exploring a whole new genre of investment.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141045922 A

(19) INDIA

(22) Date of filing of Application :08/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : UNIQUE RIGID NETWORK (CLIENT AND DEVICE) IDENTIFIER HASH, IDENTIFICATION, AND AUTHENTICATION

(51) International classification :H04L0029060000, H04L0009320000, H04L0009060000, A61G0017080000, G06K0019060000

(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
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(57) Abstract :

Unique Rigid Network Identifier Hash (URNID) introduces simple but highly dependable paradigm for network device identification and authentication, at a fairly high precision level. The concept of URNID uses multiple (preferred) hashed identifiers hashed together, to create one single identifier. URNID hash uses a one-way or two-way hash for a URN like schema consisting of multiple unique 'private' identifiers internally that can be used for identifying network devices with higher precision by comparing the hash with the client's identifiers. The URNID schema used for hashing looks like following: [separator][separator]... The motivation behind URNID Hash based Identifier Creation, and Identification/Authentication process is that URNID Hash increases the complexity of hacking/authenticating unknown systems into network systems, reducing the possibility of breaches; mainly due to complexity of forging/ mocking/ hacking/ spoofing all identifiers in the hash. This document does not obsolete rfc3406 or rfc8141 but builds on the URN schema into network systems (hashed) identifiers (URNID) to identify and authenticate devices with higher precision.

No. of Pages : 31 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141046009 A

(19) INDIA

(22) Date of filing of Application :08/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : IMPLEMENTATION OF SOURCE AND SUCCESSOR LOGIC AND ARCHITECTURE IN IMPLEMENTATION OF COMPUTER SOFTWARE PRODUCTS

(51) International classification :G06F0008200000, G06F0003038000, G09B0019000000, G06F0009451000, G06F0008100000

(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

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(57) Abstract :

Implementation of source and successor logic and architecture in implementation of computer software products is introduced. A software product undergoes the process of implementation with an implementation method. Here, software is the programs and other operating information used by a computer. Software types are system software, application software. A process is a series or set of activities that interact to produce a result; it may occur once-only or be recurrent or periodic. In an implementation process, strategies and plans are converted into actions to attain objectives and goals. An implementation methodology, is the method of implementing projects in the technical and operational field, is chosen to implement a software product. With this, a new process of implementation is introduced and the computer system environment is enhanced. The reference numerals of the drawings are, 100, 101, 102, 103, 104, 201, 202, 203-1, 203-2, 204-1, 204-2, 206, 301, 302, 303, 304.

No. of Pages : 33 No. of Claims : 10

(54) Title of the invention : AN INNOVATIVE METHOD FOR INTRODUCING MULTIPLE DATA RELATIONSHIPS INTO THE SVM OPTIMIZATION PROCESS

<p>(51) International classification :G06F0017100000, G06K0009620000, G01N0021350400, G06F0021620000, G06K0009520000</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.K.Ramash Kumar Address of Applicant :Professor, Department of Electrical and Electronics Engineering, Dr.N.G.P Institute of Technology, Coimbatore-641 048 ----- ----- 2)Dr.S.Malarvizhi 3)Sanal Kumar S 4)Dr.M.Mohanraj 5)Nishant Kumar Singh 6)Dr. Devadutta Indoria 7)Parul 8)Dr. K Devi 9)L. Vetrivendan 10)Kalidass S Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.K.Ramash Kumar Address of Applicant :Professor, Department of Electrical and Electronics Engineering, Dr.N.G.P Institute of Technology, Coimbatore-641 048 ----- ----- 2)Dr.S.Malarvizhi Address of Applicant :Assistant Professor, Department of Computer Science, Thiruvalluvar Government Arts College, Rasipuram - 637 401 . ----- 3)Sanal Kumar S Address of Applicant :Assistant Professor Department of Instrumentation, NSS College, Nemmara, Palakkad, Kerala 678508. ----- 4)Dr.M.Mohanraj Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Kumaraguru College of Technology, Saravanampatti, Coimbatore – 641035. ----- 5)Nishant Kumar Singh Address of Applicant :Assistant Professor, Department of CSE, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad (U.P.) ----- -- 6)Dr. Devadutta Indoria Address of Applicant :Assistant Professor & Hod, PG Department of Commerce, Vikram DEB Government Autonomous College, Jeypore, Odisha. ----- ---- 7)Parul Address of Applicant :Research Scholar, Baba Mastnath University Rohtak Haryana, India. ----- 8)Dr. K Devi Address of Applicant :Lecturer & HOD, Department of Commerce, DAV Autonomous College, Titilagarh, Odisha. ----- 9)L.Vetrivendan Address of Applicant :Assistant Professor, School of Computing Science and Engineering, Galgotias University, Greater Noida, Uttar Pradesh. 203201. ----- ----- 10)Kalidass S Address of Applicant :Assistant Professor, School of Computing Science and Engineering, Galgotias University, Greater Noida, Uttar Pradesh. 203201. ----- -----</p>
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(57) Abstract :

[018] This work describes an innovative methodology that incorporates the multiplicity of data relationships into the SVM optimization process. Multiplicity is encoded in multiple graph structures, containing relationships in pairs, each of which corresponds to a specific property. This information is entered into a differentiated optimization problem. As a result, the resulting superplane leads to directions where emphasis is placed on the most distinctive properties of the data, as described in the corresponding graphs. It is mathematically illustrated that the solution of the proposed problem is defined in a space, where the similarity between the data is calculated from a graphical combination of graphical-normalized kernel tables. In addition, it is shown that the MKL and GE-SVM Methods can be considered as sub-cases of the proposed optimization process, from now on. Finally, the proposed method leverages and extends the findings of method families, increasing the available kernel function options for MKLs and limiting the need for exhaustive override configuration for GE-SVMs.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141046048 A

(19) INDIA

(22) Date of filing of Application :08/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SOLAR POWERED REFRIDGERATION SYSTEM

(51) International classification :H02J0007350000, F25D0029000000, H02S0020300000, A61K0039000000, F25B0027000000

(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

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(57) Abstract :

The invention disclosed is a Solar-powered refrigeration system that operates on electricity provided by solar energy. This system is capable of storing vaccines at their appropriate temperature or freezing any food items without the need for electricity from a national grid. It comprises of a solar array, panel support structure, control wiring or hardware and a fridge without the usage of a battery or a charge controller. The equipment can be constructed as a Solar Direct Drive Refrigerator (without freezer compartment) or Solar Direct Drive Combined Refrigerator/Freezer comprising two compartments or Solar Direct Drive Freezer Waterpacks freezer designed for the purpose of water pack freezing. The equipment shall be customized as per the user requirement. Solar powered vaccine refrigeration systems are now widely used nowadays. They are sometimes the only available solution in areas hard to reach or remote, where no reliable conventional energy supply is available.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141046050 A

(19) INDIA

(22) Date of filing of Application :08/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : Waste water treatment using hydrodynamic cavitation technique

(51) International classification :C02F0103300000, C02F0101300000, C02F0001780000, H04N0001000000, C02F0001720000

(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

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(57) Abstract :

[017] The treatment of water, subsoil and sewage is a very serious problem in our society today and over time it will become more and more important. Thus, the need for a more prudent management of existing stocks becomes imperative, while in the modern production process they aim at as little waste production as possible and therefore at the lowest environmental burden. In particular, the textile industry is facing the challenge of effective waste management. Dye residues released from both colored fabrics and textile printing machines end up in the waste. As already mentioned, a significant group of dyes in dyehouses are reactive dyes, which due to their superiority in the dyeing process, have been used extensively in recent years, although as environmentally harmful they are among the most polluting agents among textile waste. This work attempts to find the viability of hydrodynamic cavitations in the degradation of dyes and the impact of various parameters on degradation rate. In addition, the effect of orifice plates and cavitation number on decolorization is also analysed.

No. of Pages : 26 No. of Claims : 6

(54) Title of the invention : INTELLIGENT SYSTEM FOR AUTOMATIC HEEL ADJUSTMENT IN WOMEN SHOES USING IOT & DEEP LEARNING

<p>(51) International classification :G06N0003080000, H04L0029080000, G06F0016735000, H04N0005760000, H04N0021238700</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. Syed Jahangir Badashah Address of Applicant :Professor, Department of ECE, Sreenidhi Institute of Science and Technology, Hyderabad, Telangana, India ----- 2)Dr. Shaik Shafiulla Basha 3)Dr. B P Santosh Kumar 4)Dr. Punit Kumar Dwivedi 5)Dr. Jayalakshmi 6)Dr. P. Mohana 7)Dr. Shraddha Awasthi 8)Dr. Devesh Bathla 9)Mr. Dinkar Kumawat 10)Ms. Akanksha Gupta 11)Mr. Ankit Tyagi Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Syed Jahangir Badashah Address of Applicant :Professor, Department of ECE, Sreenidhi Institute of Science and Technology, Hyderabad, Telangana, India ----- 2)Dr. Shaik Shafiulla Basha Address of Applicant :Assistant Professor, Department of ECE, Y S R Engineering College of Yogi Vemana University, Proddutur, Andhra Pradesh, India ----- 3)Dr. B P Santosh Kumar Address of Applicant :Assistant Professor, Department of ECE, Y S R Engineering College of Yogi Vemana University, Proddutur, Andhra Pradesh, India ----- 4)Dr. Punit Kumar Dwivedi Address of Applicant :Professor & Group Director, Modern Institute of Professional Studies, Indore, Madhya Pradesh, India ----- 5)Dr. Jayalakshmi Address of Applicant :Assistant Professor & Head, Department of Commerce, Chellammal Women's College, Chennai, India ----- 6)Dr. P. Mohana Address of Applicant :HOD, Department of MAHRM, Madras School of Social Work, Egmore, Chennai, India ----- 7)Dr. Shraddha Awasthi Address of Applicant :Associate Professor, Department: Chitkara Business School, Chitkara University, Punjab, India ----- 8)Dr. Devesh Bathla Address of Applicant :Associate Professor, Department: Chitkara Business School, Chitkara University, Punjab, India ----- 9)Mr. Dinkar Kumawat Address of Applicant :Assistant Professor, Department of Fashion & Design, SGT University, Gurugram, Haryana, India ----- 10)Ms. Akanksha Gupta Address of Applicant :Academic Associate, Department of Fashion & Design, SGT University, Gurugram, Haryana, India ----- 11)Mr. Ankit Tyagi Address of Applicant :Assistant Professor, Department of Mechanical Engineering, SGT University, Gurugram, Haryana, India -----</p>
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(57) Abstract :
The present invention relates to Intelligent system for automatic heel adjustment in women shoes using IoT & deep learning. The objective of the present invention is to solve the problems in the prior art technologies related to automatic heel adjustment in shoes. The objective of the invention to present user controlled.

No. of Pages : 29 No. of Claims : 7

(54) Title of the invention : The Mediating Role of Artificial Intelligence on the Association between Work Life Balance and Employee Performance in IT industry

<p>(51) International classification :G06Q0010060000, G06Q0010100000, H04L0029060000, G06N0020000000, G06F0021620000</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)Franklin John Selvaraj Address of Applicant :Department of Marketing, Vignana Jyothi Institute of Management, Hyderabad, Telangana, India -----</p> <p>2)Shahanawaj Ahamad</p> <p>3)Dr. K. Santhana Lakshmi</p> <p>4)Dr. Nethravathi K</p> <p>5)DR G ALEX RAJESH</p> <p>6)Zarrarahmed Z Khan</p> <p>7)Malik Bader Alazzam</p> <p>8)Sonu Kumar</p> <p>9)Josephine Florence Sheeba James</p> <p>10)Dr Abdul Razak</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Franklin John Selvaraj Address of Applicant :Department of Marketing, Vignana Jyothi Institute of Management, Hyderabad, Telangana, India -----</p> <p>2)Shahanawaj Ahamad Address of Applicant :College of Computer Science and Engineering, University of Hail, Saudi Arabia -----</p> <p>3)Dr. K. Santhana Lakshmi Address of Applicant :Associate Professor, College of Management, SRM Institute of Science and Technology, Chennai, Tamilnadu, India -----</p> <p>4)Dr. Nethravathi K Address of Applicant :Assistant Professor, BMS-FS, JAIN (Deemed-to-be University), Bangalore, Karnataka, India -----</p> <p>5)DR G ALEX RAJESH Address of Applicant :Professor, MBA Department, Sri Venkateswara Institute of Information technology and Management, Boluvampatti, Tamil Nadu, India -----</p> <p>6)Zarrarahmed Z Khan Address of Applicant :Assistant Professor, Anjuman I Islam Kalsekar Technical Campus, Mumbai University, Maharashtra, India -----</p> <p>7)Malik Bader Alazzam Address of Applicant :Faculty of Computer Science and Informatics, Amman Arab University, Jordan, Amman -----</p> <p>8)Sonu Kumar Address of Applicant :National Level Coordinator, Ignite, Bhumi, Chennai, Tamil Nadu, India -----</p> <p>9)Josephine Florence Sheeba James Address of Applicant :PhD Research Scholar, Department of MBA, Cms Institute of Management Studies, Coimbatore, Tamilnadu, India -----</p> <p>10)Dr Abdul Razak Address of Applicant :Assistant Professor, School of Business, Sr University, Warangal, Telangana, India -----</p>
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(57) Abstract :

The Mediating Role of Artificial Intelligence on the Association between Work Life Balance and Employee Performance in IT industry The present invention provides an identification of mediating role of artificial intelligence on the association between work life balance and employee performance in it industry. The findings establish prominent adverse impacts of the adoption of AI, namely, information security, data privacy, drastic changes resulting from digital transformations and job risk and insecurity brewing in the employee psyche. This is followed by a hierarchy of factors comprising the positive impacts, namely, work-related flexibility and autonomy, creativity and innovation and overall enhancement in job performance.

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

(54) Title of the invention : ISOXAZOLE DERIVATIVES OF NILUTAMIDE AND PREPARATION THEROF AS ANTICANCER AGENTS

<p>(51) International classification :A01N004380000, C07D0261180000, C07D0413040000, C07D0261080000, C07D0263260000</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)Chaitanya (Deemed to be University) Address of Applicant :H. No: 5-11-43, Kishanpura, Hanamkonda, Telangana State, pin code; 506001, India ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Ravinder Manchal Address of Applicant :Professor, Department of Chemistry, Chaitanya (Deemed to be University), H. No: 5-11-43, Kishanpura, Hanamkonda, Telangana State, India, 506001 ----- -----</p> <p>2)Mrs. Ashwini Nagaraju Address of Applicant :Research Scholar, Department of Chemistry, Chaitanya (Deemed to be University), H. No: 5-11-43, Kishanpura, Hanamkonda, Telangana State, India, 506001 ----- -----</p> <p>3)Dr. Narasimha Swamy Thirukovela Address of Applicant :Associate Professor, Department of Chemistry, Chaitanya (Deemed to be University), H. No: 5-11-43, Kishanpura, Hanamkonda, Telangana State, India, 506001 ----- -----</p> <p>4)Dr. Narsimha Sirassu Address of Applicant :Associate Professor, Department of Chemistry, Chaitanya (Deemed to be University), H. No: 5-11-43, Kishanpura, Hanamkonda, Telangana State, India, 506001 ----- -----</p> <p>5)Dr. Satheesh Kumar Nukala Address of Applicant :Associate Professor, Department of Chemistry, Chaitanya (Deemed to be University), H. No: 5-11-43, Kishanpura, Hanamkonda, Telangana State, India, 506001 ----- -----</p> <p>6)Dr. Srinivas Bandari Address of Applicant :Professor, Department of Chemistry, Chaitanya (Deemed to be University), H. No: 5-11-43, Kishanpura, Hanamkonda, Telangana State, India, 506001 ----- -----</p>
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(57) Abstract :

ISOXAZOLE DERIVATIVES OF NILUTAMIDE AND PREPARATION THEROF AS ANTICANCER AGENTS The present invention provides isoxazole derivatives of nilutamide of Formula 5a-5o, Formula 5a-5o wherein R is phenyl, tolyl, 3,5-dimethylphenyl, 4-methoxyphenyl, 3,5-dimethoxyphenyl, 4-bromophenyl, 4-chlorophenyl, 4-fluorophenyl, 4-cyanophenyl, 4-nitrophenyl, 3,5-dibromophenyl, 3,5-dichlorophenyl, 3,5-difluorophenyl, 2,3-dicyanophenyl, 3,5-dinitrophenyl substituents. A composition of compound of Formula 5a-5o with pharmaceutically acceptable carriers is also provided. The present invention also provides process for preparation of isoxazole derivatives of nilutamide of Formula 5a-5o by operationally simple, readily available and efficient method. The isoxazole derivatives of nilutamide of Formula 5a-5o are useful as anticancer agents.

No. of Pages : 27 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141046128 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : DEEP LEARNING ASSISTED METHOD FOR BEARING FAULT DIAGNOSTICS

(51) International classification	:G01M0013045000, G06N0003040000, G06N0003080000, G05B0023020000, G01H0001000000	(71)Name of Applicant : 1)Dr.P.Parthiban Address of Applicant :Associate Professor Department of Production Engineering National Institute of Technology, Tiruchirappalli -----
(86) International Application No	:PCT//	2)Dr.R.Dhanalakshmi
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(87) International Publication No	: NA	Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
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Filing Date	:NA	2)Dr.R.Dhanalakshmi
		Address of Applicant :Associate Professor Department of Computer Science and Engineering Indian Institute of Information Technology Tiruchirappalli -----

(57) Abstract :

[038] A smart industrial plant consists of digitation of the production facility that depend on smart manufacturing facility. The efficient bearing fault diagnosis is important for the continuous operation of the mechanical system. Conventional fault detection method is very complex and require long optimization method. But customized deep neural network depends on is faster learning process, hence a cascaded feed-forwarded network is proposed to detect the fault in the bearings. Many kinds of examination have been done and distributed utilizing both open-source and closed source datasets, executing the deep learning calculations. Accompanied Drawing [FIG. 4 and 5]

No. of Pages : 20 No. of Claims : 9

(54) Title of the invention : The Overall Impact of Machine Learning on the Relationship between Quality of Work Life and Employee Engagement

<p>(51) International classification :G06N0020000000, G06Q0010100000, G06Q0010060000, G06N0007000000, G06N0005040000</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)Maneesh P Address of Applicant :Assistant Professor, Department of Arts (Economics), KL University, Vaddeswaram, Vijayawada, Andhra Pradesh ----- 2)Nidhi Singh 3)Dr. D. RANJITH KUMAR 4)Dr. M. K. Mohan Maruga Raja 5)Nagendra Prasad Krishnam 6)Poonam vitthal koli 7)Dr Geetha M 8)Vijesh Chaudhary 9)Dr. Sujay Mugaloremutt Jayadeva 10)Dr K Mahammad Rafi Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Maneesh P Address of Applicant :Assistant Professor, Department of Arts (Economics), KL University, Vaddeswaram, Vijayawada, Andhra Pradesh ----- 2)Nidhi Singh Address of Applicant :Research Scholar, G.D. Goenka University, Gurugram, Haryana, India ----- 3)Dr. D. RANJITH KUMAR Address of Applicant :Assistant Professor and Head, Department of Corporate Secretaryship, Guru Nanak College (Autonomous), Affiliated to University of Madras, Chennai, Tamilnadu, India ----- 4)Dr. M. K. Mohan Maruga Raja Address of Applicant :Associate Professor, Parul Institute of Pharmacy & Research, Parul University, Vadodara, Gujarat, India. ----- 5)Nagendra Prasad Krishnam Address of Applicant :Assistant Professor, Seshadripuram Institute of Management Studies, Bangalore, Karnataka, India ----- 6)Poonam vitthal koli Address of Applicant :Marketing Pre-sales Associate, Byju's - Think & Learn pvt ltd, Bangalore, Karnataka, India ----- 7)Dr Geetha M Address of Applicant :Assistant Professor School of Business, SR University, Warangal, Telangana, India ----- 8)Vijesh Chaudhary Address of Applicant :Assistant professor, Gian Jyoti College of Education, Rajol, Himachal Pradesh (affiliated to Himachal Pradesh University), Himachal Pradesh, India ----- 9)Dr. Sujay Mugaloremutt Jayadeva Address of Applicant :Department of Health System Management Studies, Jss Academy of Higher Education & Research, Mysuru, Karnataka, India ----- ----- 10)Dr K Mahammad Rafi Address of Applicant :CEO, InnoGen Research Services Pvt Ltd., Hyderabad, Telangana, India -----</p>
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(57) Abstract :
The Overall Impact of Machine Learning on the Relationship between Quality of Work Life and Employee Engagement The present invention provides methodology for identification of the Overall Impact of Machine Learning on the Relationship between Quality of Work Life and Employee Engagement. Dealing with employees emotions using different machine learning techniques is one of the phenomenal researches in today's world. Machine learning algorithms build a model based on sample data, known as training data, in order to make predictions or decisions without being explicitly programmed to do so. This study aims at finding out the individual abilities to manage their emotions in order to perform well.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141046152 A

(19) INDIA

(22) Date of filing of Application :11/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DEVELOPMENT OF AN AUTOMATED DECOMPOSTER

(51) International classification :B09B0003000000, C05F0009000000, C12P0003000000, C05F0003000000, C05F0017050000

(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

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(57) Abstract :

This present invention to the breakdown of organic waste using microbiological chips that digest and remove a range of organic waste, thus decreasing the weight of organic waste and increasing decomposition and disposing performance by maintaining an environment conducive for microorganism development. The breakdown of organic waste is explained using a method and approach. Without the use of enzymes, chemicals, or microorganisms, the method dissociates organic waste in a decompost chamber. In one aspect, the technology decomposes organic waste within 7-15 days(varies on the size of the decomposter)while also deodorising it. This technique generates sufficient heat and operating conditions for the evaporation of the water from organic waste without igniting it. Organic waste as a byproduct is a lot more homogenous material than organic waste after breakdown. The system reuses or recycles some of the water and heat it utilizes for other system operations. The system is a combination of a blower that distributes moisture throughout the system.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141046270 A

(19) INDIA

(22) Date of filing of Application :11/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN IOT ENABLED MOVABLE SEED GERMINATOR

(51) International classification :G06N0020000000, H04L0029080000, G06N0003080000, A01C0001020000, G06N0007000000
(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

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(57) Abstract :

[031] The present invention discloses an IoT enabled movable seed germinator. The system includes, but not limited to, one or more input devices connected in an IoT network provided with the machine learning & artificial intelligence interface for receiving a plurality of parameters such as temperature, humidity, and water supply for germination and seedling of the crop. Further, the input device is further connected with a processing unit to generate predicted crop cultivation and seed germination time and other characteristics with respect to provided input, and further crop and seed characteristics for any particular input parameters on a user device. Accompanied Drawing [FIG. 1]

No. of Pages : 21 No. of Claims : 5

(54) Title of the invention : GRAPHIC PARTITIONING APPROACH BY SEQUENCING SMALL GRAPHS

<p>(51) International classification :G06F0016901000, G06F0017140000, G06T0011200000, B29K0105060000, A61B0005083000</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. K. Renuka Address of Applicant :Dr. K. Renuka, Assistant Professor, Department of Mathematics Dr. N.G.P Arts and Science College Dr. N.G.P. Nagar, Kalapatti Road, Coimbatore-641048, Tamil Nadu, math.renuka@gmail.com ,Phone no: 9942096110 -----</p> <p>2)Dr. P. Shyamala Anto Mary</p> <p>3)Dr. K.Kalaiarasi</p> <p>4)Dr. Chitaranjan Dalai</p> <p>5)Dr. P Hema</p> <p>6)Dr.R.Nagarathinam</p> <p>7)Mrs Jenifer Deepan</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. K. Renuka Address of Applicant :Dr. K. Renuka, Assistant Professor, Department of Mathematics Dr. N.G.P Arts and Science College Dr. N.G.P. Nagar, Kalapatti Road, Coimbatore-641048, Tamil Nadu, math.renuka@gmail.com ,Phone no: 9942096110 -----</p> <p>2)Dr. P. Shyamala Anto Mary Address of Applicant :Dr. P. Shyamala Anto Mary, Assistant Professor SRM Trichy Arts and Science College SRM Nagar, Trichy- Chennai Highway , Irungalur, Trichy 621105, Tamilnadu. -----</p> <p>3)Dr. K.Kalaiarasi Address of Applicant :Dr. K.Kalaiarasi Designation: Assistant Professor College Name: Cauvery College For Women (Autonomous) Address: Annamalai Nagar, Trichy. Pin:620018 Tamilnadu -----</p> <p>4)Dr. Chitaranjan Dalai Address of Applicant :Dr. Chitaranjan Dalai Junior Research Fellowship, School of water resource Indian Institute of Technology Kharagpur, West Bengal Pin:-721302 -----</p> <p>5)Dr. P Hema Address of Applicant :Dr. P Hema, Assistant Professor, Department of Mathematics, R.M.K. College of Engineering and Technology, RSM Nagar, Gummidipoondi Taluk, Pudukovoyal, Thiruvallur, Tamil Nadu 601206. -----</p> <p>6)Dr.R.Nagarathinam Address of Applicant :Dr.R.Nagarathinam, Assistant Professor, Department of Mathematics, Dr.MGR Educational and Research Institute,Maduravoyal, Chennai, Tamil Nadu 600095. -----</p> <p>7)Mrs Jenifer Deepan Address of Applicant :Mrs Jenifer Deepan , Lecturer II , School of Basic studies, P.O BOX 406, DMI St John The Baptist University, Mangochi, The Republic of Malawi , Central Africa -----</p>
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(57) Abstract :

This based segmentation issue entails separating given map's vertex onto groupings with predetermined lengths with fewer connections crossing among them. Several significant neither academic nor industrial topics include the N's - hard optimization issue. Its breakdown of data types enabling simultaneous processing, computing positioning of circuitry parts, including computing reordering dense matrices calculations is also notable instances. We present a multilevel algorithm for graph partitioning in which the graph is approximated by a sequence of increasingly smaller graphs. That shortest network was subsequently divided via another spectrum technique, while that division gets transmitted further up its network structure. Sometimes, a new version and its Kernighan-Lin (KL) procedure were used that rest compute this division. This complete process may be made into run within a total period proportionate half that underlying chart's length. Studies show demonstrated this multilayer process delivers elevated divisions for a very reasonable price when compared with more sophisticated techniques.

No. of Pages : 15 No. of Claims : 4

(54) Title of the invention : Portable Potentiostat for Detection of Heavy Metals in Water

(51) International classification :G01N0027480000, G01N0027416000, G01N0033180000, G01N0027300000, G01N0027490000

(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

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(57) Abstract :

The invention is a portable detector for detecting heavy metals in water using an electrochemical technique that employs three-pole detection and can detect the concentration of various metals. The portable detector comprises a microprocessor module, and a power supply module, a keystroke handling module, a potentiostat module, a stirrer, a driving module, a display module and an interface module, which are connected to the microprocessor module. A three-electrode electro-chemical sensor with a working electrode, an auxiliary electrode, and a reference electrode is used in the potentiostat module. The reference electrode is connected to the input end of an open-loop amplifier via a first tracker, and the output end of the open-loop amplifier is connected to the auxiliary electrode; and, the working electrode is connected to the input end of a second tracker via a reverse proportional amplifier, and the output end of the second tracker is connected to the input end of the microprocessor module via an A/D conversion module. The portable detector has the capability of capturing the imprint of possible concentrations of several metals. The portable detector is simple to use, portable, and easy to transport.

No. of Pages : 10 No. of Claims : 3

(54) Title of the invention : A METHOD FOR DEVELOPMENT AND VALIDATION OF DACARBAZINE USING RP-HPLC METHOD

<p>(51) International classification :A61K0031655000, G01N0030020000, B01D0015400000, G01N0030060000, C12N0007000000</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. Kumaraswamy.Gandla Address of Applicant :Professor & Head Department of Pharmaceutical Analysis, Chaitanya deemed to be university, Hanamkonda, Warangal Urban (Dist.) 506001, Telangana, India. -----</p> <p>2)Dr.Anandakumar Karunakaran 3)Dr. R. Vijayalakshmi 4)Dr.M.Lakshmi Surekha 5)Dr. Senthil Kumar Raju 6)Dr.M.Jagadeeswaran 7)Kokilambigai K S 8)Seetharaman R 9)Kavitha J 10)Dr.B.Thangabalan Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Kumaraswamy.Gandla Address of Applicant :Professor & Head Department of Pharmaceutical Analysis, Chaitanya deemed to be university, Hanamkonda, Warangal Urban (Dist.) 506001, Telangana, India. -----</p> <p>2)Dr.Anandakumar Karunakaran Address of Applicant :Professor & Head Department of Pharmaceutical Analysis, Swamy Vivekanandha College of Pharmacy, Elayampalayam, Tiruchengode, Namakkal Dt., Tamilnadu- 637205, India -----</p> <p>3)Dr. R. Vijayalakshmi Address of Applicant :Professor and Head, Department of Pharmaceutical Analysis, GIET School of Pharmacy, NH 16. Chaitanya Knowledge City. Rajahmundry -533296 E. G. (Dist.), Andhra Pradesh, India -----</p> <p>4)Dr.M.Lakshmi Surekha Address of Applicant :Professor & Head, Department of Pharmaceutical Analysis, A.M Reddy Memorial college of Pharmacy, Petturivaripalem, Narasaraopet, Guntur (Dist.)- Andhra Pradesh, India -522601, -----</p> <p>5)Dr. Senthil Kumar Raju Address of Applicant :Professor & Head, Department of Pharmaceutical Chemistry, Swamy Vivekanandha College of Pharmacy, Elayampalayam, Tiruchengode, Namakkal (Dt.), Tamilnadu- 637205, India -----</p> <p>6)Dr.M.Jagadeeswaran Address of Applicant :Professor, Department of Pharmaceutical Analysis, Nandha College of Pharmacy, Koorapalayam Pirivu, Perundurai Road, Erode - 638 052, Tamil Nadu, India -----</p> <p>7)Kokilambigai K S Address of Applicant :Associate Professor, Department of Pharmaceutical Analysis, SRM College of Pharmacy, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu (District), Tamil Nadu-603203, India -----</p> <p>8)Seetharaman R Address of Applicant :Associate Professor, Department of Pharmaceutical Analysis, SRM College of Pharmacy, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu (District), Tamil Nadu -603203, India -----</p> <p>9)Kavitha J Address of Applicant :Associate Professor, Department of Pharmaceutical Analysis, SRM College of Pharmacy, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu (District), Tamil Nadu -603203, India -----</p> <p>10)Dr.B.Thangabalan Address of Applicant :Professor, Department of Pharmaceutical Analysis, Sri Venkateshwara College of Pharmacy, RVS Nagar, Tirupati Road, Chittoor, Andhra Pradesh-517127 -----</p>
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(57) Abstract :

ABSTRACT A METHOD FOR DEVELOPMENT AND VALIDATION OF DACARBAZINE USING RP-HPLC METHOD The present disclosure relates to a method (100) for development and validation of Dacarbazine using RP-HPLC method (100) and its stress stability studies. The said method (100) comprises the steps of preparing of standard solution of the Dacarbazine (102) , followed by preparing of a mobile phase solution for chromatographic conditions (104), preparing of calibration curve standards (106), followed by conducting forced degradation studies under different stress conditions on the work standard solution (108). (Fig. 1 will be the reference figure)

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : INTELLIGENT AGRICULTURE – SMART IOT SYSTEM TO ASSIST FARMERS IN EFFECTIVE DECISION MAKING USING DATA SCIENCE

(51) International classification	:H04L0029080000, G06Q0050020000, G06Q0010040000, G06Q0010060000, A01G0009140000
(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
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(57) Abstract :
Research studies shows that the current world population of 7.3 billion is expected to increase to 9.3 billion by the ear 2050. In order to feed the increasing population, Food and Agricultural Organization (FAO), plans to increase the crop cultivation by 70%. Recent days have seen a steep rise in the adoption of IoT to various factors affecting agriculture like climate change monitoring, greenhouse automation, crop cultivation and management, cattle monitoring and management, precision farming, agricultural drones, predictive analysis for smart farming and many more. This invention discloses a Data-driven smart IoT system to help farmers for effective decision making on the choice of the crop to be cultivated in the given time. IoT sensors are capable to predict the humidity in the soil, nature of chemical resources that are apt for cultivation and weather forecasting. These data from IoT sensors are communicated to real-time dashboards and plug-ins using HTTP/COAD/MQTT protocol. Data Science is applied to data from the dashboard and analytics framework is generated. The analytics framework provides suggestions of the choice of the crop the farmer can cultivate and the predicted time to harvest the crop. The data analytics assists farmers for effective decision making during the phases of pre-harvest, farming and post-harvest.

(54) Title of the invention : A DEVICE TO RECOGNIZE FUNGAL DISEASES USING IMAGE PROCESSING AND ANN APPROACH IN PLANTS

<p>(51) International classification :G06N0003080000, G06T0007000000, G06Q0050020000, G06K0009000000, G06T0007136000</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 Ashok Kumar Koshariya Address of Applicant :Dr Ashok Kumar Koshariya, Assistant Professor, Department of Plant Pathology, School of Agriculture, Lovely Professional University, Jalandhar, Punjab, India. ashokkoshariya@gmail.com ,+ 91 83198 93461 -----</p> <p>2)Ms.Bably Dolly 3)Mr.Avadhesh Kumar Dixit 4)Dr. Harish Rajak 5)Mr. Dattatray G. Takale 6)Dr Ramakant Bhardwaj 7)Dr. Ravi Shankar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr Ashok Kumar Koshariya Address of Applicant :Dr Ashok Kumar Koshariya, Assistant Professor, Department of Plant Pathology, School of Agriculture, Lovely Professional University, Jalandhar, Punjab, India. ashokkoshariya@gmail.com ,+ 91 83198 93461 -----</p> <p>2)Ms.Bably Dolly Address of Applicant :Ms.Bably Dolly, Research Scholar, Department of Computer Science, Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh -226025. -----</p> <p>3)Mr.Avadhesh Kumar Dixit Address of Applicant :Mr.Avadhesh Kumar Dixit, Assistant professor, Computer Science and Engineering, Dr. Rammanohar Lohia Avadh University, Ayodhya-224001, Uttar Pradesh, India. -----</p> <p>4)Dr. Harish Rajak Address of Applicant :Dr. Harish Rajak, Assistant Professor, Department of Pharmacy, Guru Ghasidas University, Bilaspur-495009 (Chhattisgarh) -----</p> <p>5)Mr. Dattatray G. Takale Address of Applicant :Mr. Dattatray G. Takale, Post: Research Consultant, Swapndeeep Infotech Baramati, 310 Tarangan Jalochi Road Baramati, Maharashtra - 413102. -----</p> <p>6)Dr Ramakant Bhardwaj Address of Applicant :Dr Ramakant Bhardwaj ,Associate Professor, Amity University WB, Post Doctrate Scholar for Doctor of Science in Mathematics, AwadheshPratap Singh University Rewa ,Madhy Pradesh-486003,India. -----</p> <p>7)Dr. Ravi Shankar Address of Applicant :Dr. Ravi Shankar, GuestTeacher,Vill. Dumarha, P.O. - Khapari (Kala), Block- Lormi, District- Mungeli (CG), Chhattisgarh, CG - 495115 -----</p>
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(57) Abstract :

Artificial Intelligence (AI) technologies including digital image processing & Artificial Neural Networks (ANN) have now become widely used in plant disease identifies systems. Within the study, an automated sensor for identifying 2 types of fungus that attack pumpkin plantlets were devised & produced. Through sensing indicators on a plant leaf, such a gadget was capable of recognizing fungal infections in vegetation. Through analyzing the picture characteristics of pumpkin plants infected using various fungus particles, the number of hours after infection could be estimated. The darkened room, a CCD video recorder, a thermal camera, light-sensitive resistors brightening modules, and just a desktop computer were all incorporated in the gadget. An image analysis method ANN was used to develop the suggested software for accurate illness identification. Three textural characteristics including two heat variables are collected & standardized first from the resulting pictures. By using back propagation training algorithm controlled instructional strategies as well as inspections information, the effectiveness of the ANN model was evaluated for illness detection and identifying HPI in pictures. Throughout agriculture farmlands, such computer vision technology might be employed in robotics AI technologies to develop an innovative farmer's companion.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141046632 A

(19) INDIA

(22) Date of filing of Application :13/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : An Intelligent Shopping Cart System and Method Thereof

(51) International classification :G06Q0030060000, B62B0003140000, G06Q0030020000, G06Q0030040000, A61B0005000000

(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

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(57) Abstract :

ABSTRACT: Title: An Intelligent Shopping Cart System and Method Thereof The present disclosure proposes an intelligent shopping cart system. The system comprises a sensor unit 101, a billing counter monitoring unit 102 and a billing counter estimation unit 103. The intelligent shopping cart system determines the optimal billing counter for a user to reduce waiting time for billing is provided. The intelligent shopping cart system aids the user by estimating the waiting time for each counter and directing the user to the billing counter with the least waiting time. The proposed system utilizes cameras and sensors in a store to respond to real-time changes such as refilling or re-arrangement or pricing of various products. The proposed system minimizes the requirement of labor to check and maintain stocks of products in stores and aids in efficient management of stock, pricing and promotional compliance of various products.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : CLOBETASOL LOADED SOLID LIPID NANOPARTICLES AND NANOSTRUCTURED LIPID CARRIERS FOR TOPICAL TREATMENT OF PSORIASIS

<p>(51) International classification : A61K0031573000, A61K0009000000, A61K0009510000, A61K0031704000, A61K0049000000</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. Ramesh Reddy Kudamala Address of Applicant :Krishna Teja Pharmacy College, Chadalawada Nagar, Tirupati, Andhra Pradesh- 517520 ----- 2)Chand Basha Shaik 3)Dr. Jayasankar Reddy Veeram 4)Dr. Kishore Babu Medarametla 5)Dr. Balaji Anna 6)Dr. Madhusudhana Chetty Challa 7)Dr. Girish Chiruthanur 8)Dr. Bharath Rathna Kumar Ponnaiah 9)Dr. Venu Priya Ranganatham 10)Dr.Sucharitha Palagati Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Ramesh Reddy Kudamala Address of Applicant :Krishna Teja Pharmacy College, Chadalawada Nagar, Tirupati, Andhra Pradesh- 517520 ----- 2)Chand Basha Shaik Address of Applicant :Annamacharya College of Pharmacy, Rajampet, Ysr Kadapa Dist., Andhra Pradesh - 516126 ----- 3)Dr. Jayasankar Reddy Veeram Address of Applicant :Krishna Teja Pharmacy College, Chadalawada Nagar, Tirupati, Andhra Pradesh- 517520 ----- 4)Dr. Kishore Babu Medarametla Address of Applicant :Krishna Teja Pharmacy College, Chadalawada Nagar, Tirupati, Andhra Pradesh- 517520 ----- 5)Dr. Balaji Anna Address of Applicant :Sree Vidyanikethan College of Pharmacy Sree Sainath Nagar, Ranganpet, Tirupati, Andhra Pradesh - 517102 ----- 6)Dr. Madhusudhana Chetty Challa Address of Applicant :Santhiram College of Pharmacy, Nandyala, Andhra Pradesh 518112 ----- 7)Dr. Girish Chiruthanur Address of Applicant :S.V.U. College of Pharmaceutical Sciences, S.V.University,Tirupati, Andhra Pradesh - 517502 ----- 8)Dr. Bharath Rathna Kumar Ponnaiah Address of Applicant :Anwarul Uloom College of Pharmacy,Hyderabad - 500028 ----- 9)Dr. Venu Priya Ranganatham Address of Applicant :Anwarul Uloom College of Pharmacy,Hyderabad-500028 -- ----- 10)Dr.Sucharitha Palagati Address of Applicant :Seven Hills College of Pharmacy, Venkatramapuram, Tirupati, Andhra Pradesh 517561 -----</p>
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(57) Abstract :

The present invention relates to the development of SLNs and NLCs by using Clobetasol (CP) as a model drug. Size, polydispersity index (PDI), zeta potential (ZP), drug entrapment efficiency (%EE), scanning electron microscopy (SEM), transmission electronic microscopy (TEM), differential scanning calorimetry (DSC), drug release and stability of SLNs, and NLCs were compared... NLCs demonstrated faster drug release than SLNs at low drug-loading, whereas there was no significant difference in drug release from SLNs and NLCs at high drug-loading. However, sustained/prolonged drug release was observed from both formulations. The anti-psoriatic efficacy in BALB/c mice (evaluated on basis of cytokine levels and skin morphology) highlighted potential of drug-loaded NLCs significantly higher as compared to drug loaded SLNs and marketed formulation. The study demonstrated that Clobetasol loaded NLCs gel had higher efficacy in psoriatic management.

No. of Pages : 22 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141046792 A

(19) INDIA

(22) Date of filing of Application :13/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD OF ELIMINATING PULL-IN INSTABILITY AND HYBRID MEMS ACTUATOR INCORPORATING THE METHOD

(51) International classification :H02N0001000000, B81B0003000000, H02K0026000000, A61B0005000000, H04W0036140000

(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

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(57) Abstract :
See attachment

No. of Pages : 31 No. of Claims : 14

(54) Title of the invention : SYSTEM AND METHOD FOR AUTOMATIC CALIBRATION AND ALIGNMENT OF FUNDUS CAMERA DEVICE

(51) International classification :A61B0003140000, A61B0003120000, G06T0007800000, H04N0013239000, H04N0017000000

(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

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(57) Abstract :
 ABSTRACT SYSTEM AND METHOD FOR AUTOMATIC CALIBRATION AND ALIGNMENT OF FUNDUS CAMERA DEVICE The present invention provides a system, device and method for automatic alignment and calibration of a fundus camera device. A stereo camera, fundus camera, movable platform, illumination source and multi-planar calibration target are employed. The stereo camera, mounted on the movable platform captures the images of planes of the multi-planar calibration target. The multi-planar calibration target is embedded with fiducial markers to calibrate the intrinsic and extrinsic properties of the stereo camera. An illumination source is configured to calibrate position of the fundus camera relative to location of the eye calibration target. The axes system of the movable platform and the stereo camera are calibrated. The alignment of the fundus camera image sensor is validated. A fast validation of all components is performed prior to use. The fundus camera device can automatically align if the error values of various components are within the predefined threshold value. Ref drawing: FIG. 1

No. of Pages : 57 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141047024 A

(19) INDIA

(22) Date of filing of Application :18/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MACHINE LEARNING BASED INTELLIGENT SENSOR FRAMEWORK TO ASSIST FARMERS IN WEATHER FORECASTING FOR APPROPRIATE CROP CULTIVATION

<p>(51) International classification :A01G0025160000, G01W0001100000, G06Q0050020000, G06N0007000000, G06N0020000000</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</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)Dr.S.Balamurugan Address of Applicant :No.21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India -----</p> <p>2)DR.K A JAYABALAJI 3)DR.MD TABREZ NAFIS 4)SWATI JAIN 5)MR. KARTHICK S 6)DR.ARUL KUMAR N 7)DR.DIMPLE CHAWLA 8)DR.SUSHMA JAISWAL 9)TARUN JAISWAL 10)DR.RAJA SARATH KUMAR BODDU 11)DR.ABHISHEK AGRAWAL 12)DR. SUDHANSHU MAURYA 13)DR.PAVITHRA G 14)DR.T.C.MANJUNATH 15)MRS.M. SOWMIYA Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.S.Balamurugan Address of Applicant :No.21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India -----</p> <p>2)DR.K A JAYABALAJI Address of Applicant :Associate professor, Department of data analytics, Kongunadu arts and science college, Doctor's Colony, Jagir Ammapalayam, Mallamooppampatti, Coimbatore, Tamil Nadu 636302, India -----</p> <p>3)DR.MD TABREZ NAFIS Address of Applicant :Assistant Professor, JAMIA HAMDARD(Deemed University), Mehrauli - Badapur Rd, near Batra Hospital, Block D, Hamdard Nagar, New Delhi, Delhi 110062, India -----</p> <p>4)SWATI JAIN Address of Applicant :Vivekananda Institute of Professional Studies, GGSIPU, Pitampura, Delhi -110085, India -----</p> <p>5)MR. KARTHICK S Address of Applicant :Department of Computer Science and Engineering, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, Uttar Pradesh, India-201204 -----</p> <p>6)DR.ARUL KUMAR N Address of Applicant :Assistant Professor, Department of Computer Science, CHRIST (Deemed to be University), Bangalore, Karnataka 560029, India -----</p> <p>7)DR.DIMPLE CHAWLA Address of Applicant :Assistant Professor, Vivekananda School of Information Technology, Vivekananda Institute of Professional Studies AU Block, Pitampura, Delhi -110085, INDIA -----</p> <p>8)DR.SUSHMA JAISWAL Address of Applicant :Assistant Professor, Department of Computer Science & Information Technology (CSIT), Guru Ghasidas Vishwavidyalaya, (A Central University), Koni, Bilaspur, (C.G.), India, 495009 -----</p> <p>9)TARUN JAISWAL Address of Applicant :Research Scholar, Department of Computer Application, National Institute of Technology (NIT) G.E. Road, Raipur (C.G), Chhattisgarh, Pin 492010, India -----</p> <p>10)DR.RAJA SARATH KUMAR BODDU Address of Applicant :Dr. Raja Sarath Kumar Boddu, Professor and Principal, Department of CSE, Lenora College of Engineering, Rampachodavaram, Andhra Pradesh- 533288, India. iamsarathphd@gmail.com -----</p> <p>11)DR.ABHISHEK AGRAWAL Address of Applicant :Assistant Professor, Dept of Mechanical Engg., University Institute of Technology-RGPV Bhopal, Gandhi Nagar, Bhopal, Madhya Pradesh 462033, India -----</p> <p>12)DR. SUDHANSHU MAURYA Address of Applicant :Assistant Professor, School of Computing, Graphic Era Hill University, Bhimtal Campus, Uttarakhand-263156, India -----</p> <p>13)DR.PAVITHRA G Address of Applicant :Associate Professor, Electronics & Communication Engg Dept. (ECE), Dayananda Sagar College of Engg. (DSCE), Block No. 17, Room No. 17205, Kumaraswamy Layout, Shavigemalleshwara Hills, Bangalore- 560078, Karnataka, India. -----</p> <p>14)DR.T.C.MANJUNATH Address of Applicant :Professor & Head of the Dept. Electronics & Communication Engg Dept. (ECE), Dayananda Sagar College of Engg. (DSCE), Block No. 17, Room No. 208 Kumaraswamy Layout, Shavigemalleshwara Hills, Bangalore-560078, Karnataka, India. -----</p> <p>15)MRS.M. SOWMIYA Address of Applicant :Assistant Professor, Department of Information Technology, M.Kumarasamy college of Engineering, Karur, Thalavapalayam, Tamil Nadu 639113, India -----</p>
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(57) Abstract :
Weather forecasting is an important factor in agricultural sector that aid farmers for sowing and reaping appropriate crops. The day-to-day weather forecast aid farmers to decide upon the type of irrigation, time of yield, choice of the crop to be cultivated that ultimately leads to profit/loss business decision in agriculture. For profitable and successful farming and harvesting the farmer has to be aware of several factors affecting the agriculture such as temperature, humidity, UV radiation, wind direction, solar radiation, barometric pressure and rainfall. Proposed is a machine learning based intelligent sensor framework to forecast weather for appropriate crop cultivation. A set of sensors that are deployed at a focused operating distance in the farm is capable to provide weather analytics report to farmers. The analytics is performed using machine learning algorithms for data processing. The group of sensors are placed at different agroclimatic stations and it collects variables about weather. The collected data is transmitted through LORA/RF/XBEE for processing and stored using cloud server to generate warning signals. Historical weather charts along with appropriate warning signals help farmers for effective decision making regarding crop cultivation.

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

(54) Title of the invention : A Stable Denture Cleansing Effervescent Tablet Formulation and a Process Thereof

<p>(51) International classification :A61K0036185000, A61Q0011020000, A61K0009460000, A61Q0011000000, A61K0008365000</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)JSS Academy of Higher Education and Research Address of Applicant :Bannimantap Road, Sri Shivarathreeshwara Nagara, Bannimantap A Layout, Bannimantap, Mysuru – 570 015, Karnataka, India. ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Meenakshi S Address of Applicant :Department of Prosthodontics, JSS Dental College and Hospital, Bannimantap Road, Sri Shivarathreeshwara Nagara, Bannimantap A Layout, Bannimantap, Mysuru – 570 015, Karnataka, India. ----- -----</p> <p>2)D.V.Gowda Address of Applicant :Department of Pharmaceutics, JSSCP, Bannimantap Road, Sri Shivarathreeshwara Nagara, Bannimantap A Layout, Bannimantap, Mysuru – 570 015, Karnataka, India. ---- -----</p> <p>3)Raghunath N Address of Applicant :Department of Orthodontics, JSS Dental College and Hospital, Bannimantap Road, Sri Shivarathreeshwara Nagara, Bannimantap A Layout, Bannimantap, Mysuru – 570 015, Karnataka, India. ----- -----</p>
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(57) Abstract :

Denture cleanliness is vital to prevent malodour and accumulation of plaque/calculus, which have pretty deleterious effects on the oral mucosa leading to stomatitis or periodontitis. To circumvent the above problem, the present disclosure provides a stable denture cleansing effervescent tablet formulation of a synergistic herbal composition comprising extracts of triphala and nutmeg along with pharmaceutically acceptable and compatible excipients. Most importantly, badam extract acts as a fixative/ binder. The effervescent tablet formulation when added to a glass of water, loaded with a denture to be cleaned, it dissolves in 4.3 to 8.6 minutes to form a non-foamy and oxygen-effervescent solution. It is the effervescence that produces cleansing action on the dentures to make it free from microorganisms (biofilm), plaque, deposited food particles, with no impact on the quality of the denture material per se. Figure 1, is the representative figure.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141047108 A

(19) INDIA

(22) Date of filing of Application :18/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A DECENTRALIZED LIVE VIDEO STREAMING PLATFORM ON ETHEREUM BLOCKCHAIN

(51) International classification :G06Q0020380000, H04N0021218700, H04L0029060000, G06Q0020060000, 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
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(57) Abstract :

ABSTRACT A DECENTRALIZED LIVE VIDEO STREAMING PLATFORM ON ETHEREUM BLOCKCHAIN The present invention discloses a decentralized live video streaming platform based on ethereum blockchain. The platform includes a creator's wallet, a receiver's wallet, a one-to-many live video streaming infrastructure, a payment collection gateway, and a storage medium. The infrastructure includes streaming of live content to simultaneous viewers at once. The storage medium includes a distributed network of nodes. The content is split into chunks and storing thereof in a distributed manner across different node operators and outsourcing therefrom. The payment collection gateway includes transferring money from the receiver's wallet to the creator's wallet. The transferred money unlocks content access. The payments are transparent and are viewable from a viewer's dashboard. Figure 1

No. of Pages : 19 No. of Claims : 6

(54) Title of the invention : FORMULATION AND EVALUATION OF SUSTAINED RELEASE MICROSPHERES OF ACECLOFENAC

(51) International classification :A61K0031216000, A61K0009160000, A61K0008978900, A61K0009240000, A23L0029300000

(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

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(57) Abstract :
 ABSTRACT FORMULATION AND EVALUATION OF SUSTAINED RELEASE MICROSPHERES OF ACECLOFENAC The present disclosure relates to a method (100) for formulation and evaluation of sustained release microspheres of aceclofenac (100). The said method (100) comprises the steps of preparing a standard stock solution of the Aceclofenac (102), followed by preparing of a physical mixture (104), then preparing of final formulation of mixture (106) which shall be filtered with the help of Whatman filter paper and dried in the tray dryer for 600C for 2hrs, followed by conducting evaluation tests on dried microspheres (108). (Fig. 1 will be the reference figure)

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

(54) Title of the invention : AN IMAGE PROCESSING SYSTEM WITH CONVOLUTIONAL NEURAL NETWORK MODULES AND METHOD THEREOF

(51) International classification :G06N0003040000, G06N0003080000, G06K0009000000, G06K0009620000, G06T0001600000

(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

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(57) Abstract :
 [035] The present invention discloses an image processing system with convolutional neural network modules and method thereof. The system includes, but not limited to, one or more processing units connected with a memory unit for receiving an image processing data by using a state of the convolutional neural network and consisting a plurality of textures representing one or more neural network variables, wherein the plurality of textures further comprises a texture with two-dimensional addressing, and represents a neural network variable having a predetermined weight function with addressing of multiple dimensions which has been flattened into two dimensional addressing, and defining addresses of values represented in the texture with two-dimensional addressing through linear combinations of x-axis and y-axis offset coordinates from the upper-left corner of an output texture. Accompanied Drawing [FIG. 1]

No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : MACHINE LEARNING TECHNIQUE AND SYSTEM FOR SOLVING A PREDICTION PROBLEM

(51) International classification :G06N002000000, G06F0016245500, G11B0020000000, G06N0003000000, G06Q0010040000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 Using machines learning to solve issues with either a positive or a negative outcome (the event happened or did not occur) when the likelihood of a positive result is extremely low and the implications of a positive result are substantial. A portion of the training data is extracted and used in a machine learning system. It's important to note that in this set of data, records that correspond to the positive result are included together with their closest neighbors and records that correlate to the opposite outcome. After several cycles, the machine learning system utilizes a co-evolutionary method to develop a rule set for forecasting outcomes. The machine system makes use of a fitness function tailored to the issue at hands, such as one based on the rules' sensitivity and positive predictive value. All of the training data is used to verify the rules.

No. of Pages : 27 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141047319 A

(19) INDIA

(22) Date of filing of Application :19/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PORTABLE FIREFIGHTING UNIT

(51) International classification :A62C0035680000, A62C0003020000, A62C0031000000, A62C0035200000, E03B0009020000

(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
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(57) Abstract :

A portable firefighting unit 100 for fighting a fire is provided. The portable firefighting unit 100 includes a diesel engine pump 102 that pumps fluid from a reservoir and throws the fluid at a speed ranging from 3000 to 3600 revolution per minute (RPM) for firefighting, a feeder line 104 that receives the fluid, a branch pipe nozzle 106 that sprays the fluid during firefighting, and a header unit 108 including a fire hydrant valve 110, an air release valve 112 and a fire monitor 114. The fire hydrant valve 110 provides fluid at a hydrant pressure ranging from 5 to 6 kgs for fighting the fire. The air release valve 112 releases air pockets from the pressurized feeder line 104. The fire monitor 114 rotates at 360 degree angle to fight fire on all sides when the portable firefighting unit 100 throws the water or foam at the speed ranging from 3000 to 3600 revolution per minute (RPM).

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : Nanoparticulate formulation for diagnosis and/or treatment of cancer

<p>(51) International classification :A61K0009510000, A61K0047690000, A61K0031337000, A61K0031470000, B05D0003020000</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 SK.Shahul Hussain Address of Applicant :Professor, Department of Pharmaceutics, Swathi College of Pharmacy, SPSR Nellore, Andhra Pradesh, India, Pincode: 524004 -----</p> <p>2)Dr. K. Karthikeyan 3)Mrs. M. Rashmi 4)Mr. T.Ch. Anil Kumar 5)Dr.D.Pradhhabhan 6)Mr. G Sujithkumar 7)Dr.M. Manoranjani 8)Mr. Adabala Kumar Sanjay 9)Mrs. Divya Sanganabhatla 10)Dr.R.Gayathri 11)Mr. Nellore Manoj Kumar 12)Dr. G. Adilakshmi Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr SK.Shahul Hussain Address of Applicant :Professor, Department of Pharmaceutics, Swathi College of Pharmacy, SPSR Nellore, Andhra Pradesh, India, Pincode: 524004 -----</p> <p>2)Dr. K. Karthikeyan Address of Applicant :Associate Professor , Department of Pharmacology, Sri Balaji Vidyapeeth Deemed to be University School of Pharmacy, Pondicherry, India Pincode: 607402 -----</p> <p>3)Mrs. M. Rashmi Address of Applicant :Assistant Professor, Department of Physics, St.Joseph's College of Arts and Science for Women, Hosur, Krishnagiri, Tamilnadu, India Pincode-635109 -----</p> <p>4)Mr. T.Ch. Anil Kumar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Vignan's Foundation for Science Technology and Research (Deemed to be University) Vadlamudi, Guntur, Andhra Pradesh, India Pin Code:522213 -----</p> <p>5)Dr.D.Pradhhabhan Address of Applicant :Assistant Professor & Head-Physics, Dr.SNS Rajalakshmi College of Arts and Science ,Coimbatore, Tamil Nadu, India Pincode: 641049 -----</p> <p>6)Mr. G Sujithkumar Address of Applicant :M.Sc., PGDCA, Department of Physics, Sir Ramakrishna Mission Vidyalaya College of Arts and Science (Autonomous), SRKV, Periyanaickenpalayam, Coimbatore, Tamilnadu Pincode: 641020 -----</p> <p>7)Dr.M. Manoranjani Address of Applicant :Associate Professor & HOD, Department of Chemistry , PB Siddhartha College of Arts & Science, Vijayawada, Andhra Pradesh, India Pincode: 520010 -----</p> <p>8)Mr. Adabala Kumar Sanjay Address of Applicant :Assistant Professor , Department of Mining, Godavari Institute of Engineering and Technology (A), Rajahmundry, Andhra Pradesh, India Pincode: 533296 -----</p> <p>9)Mrs. Divya Sanganabhatla Address of Applicant :Research Scholar, University College of Technology, Osmania University, Hyderabad, Telangana, India Pincode-500007 -----</p> <p>10)Dr.R.Gayathri Address of Applicant :Assistant Professor, Department of Physics, Cauvery College for Women(Autonomous), Tiruchirappalli, Tamilnadu, India Pincode:620018 -----</p> <p>11)Mr. Nellore Manoj Kumar Address of Applicant :15-356, Gollapalem, Venkatagiri, SPSR Nellore District, Andhra Pradesh, India Pincode -524132 -----</p> <p>12)Dr. G. Adilakshmi Address of Applicant :Woman Scientist 130/D, Vengalarao Nagar Hyderabad, Telangana, India Pincode-500038 -----</p>
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(57) Abstract :

Compositions including nanoparticles of a drug, such as a hydrophobic drug derivative, and a carrier protein are provided by the present invention. Additionally, the compositions may be used to cure illnesses (such as cancer) and come in kits and unit doses.

No. of Pages : 28 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141047419 A

(19) INDIA

(22) Date of filing of Application :19/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : IoT-BASED INTELLIGENT CONSOLE SYSTEM AND METHOD FOR EXTENDING CONSOLE ACCESS TO A NETWORK OPERATIONS CENTER

<p>(51) International classification :H04L0012240000, H04L0029080000, H04L0029060000, H04L0012100000, H04W0004700000</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)SRINIVASA CHARY MUSALOGU Address of Applicant :#205, Pioneer White Orchid, Manipal county Road, Singasandra, Bangalore 560068 ----- 2)KONDAPA NAIDU BOLLINENI 3)MUSALOGU SANTHOSHI Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SRINIVASA CHARY MUSALOGU Address of Applicant :#205, Pioneer White Orchid, Manipal county Road, Singasandra, Bangalore 560068 ----- 2)KONDAPA NAIDU BOLLINENI Address of Applicant :Plot #1, Sri Sai Raghavendra Colony, Fathullaguda, GSI Bandlaguda Nagole, Hyderabad, Telangana 500068, India. ----- 3)Musalogu Varun Address of Applicant :#205, Pioneer White Orchid, Manipal county Road, Singasandra, Bangalore 560068. ----- 4)Vani kalluru Address of Applicant :Plot #1, Sri Sai Raghavendra Colony, Fathullaguda, Gsi Bandlaguda Nagole, Hyderabad, Telangana 500068 ----- 5)MUSALOGU SANTHOSHI Address of Applicant :#205, Pioneer White Orchid, Manipal county Road, Singasandra, Bangalore 560068. ----- 6)Pranav Bollineni Address of Applicant :Plot #1, Sri Sai Raghavendra Colony, Fathullaguda, Gsi Bandlaguda Nagole, Hyderabad, Telangana 500068 -----</p>
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(57) Abstract :

Exemplary embodiments of an IoT-based intelligent console system for extending console access to a network operations center and troubleshoot IoT devices from the central network operations center, comprising: edge devices configured to connect a central network operations center through a network, the edge devices operated by users who work in field of a troubleshooting network, the edge devices comprising a pre-configuration that connects with a central network management station and establish a secure socket shell tunnel using a secure connectivity to the central network management station, the edge devices configured to bring routing functions and wireless access points in a client mode and are flexible to activate and deactivate, and general-purpose input and output pins configured to connect IoT devices, the edge devices to configured to enable the users to remotely control the IoT devices. FIG. 1

No. of Pages : 36 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141047443 A

(19) INDIA

(22) Date of filing of Application :19/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A SOAKING PREVENTION DEVICE FOR AUTOMOBILES

<p>(51) International classification :F24S0023700000, C08L0077000000, C08L0033060000, H02G0003040000, A61B0005048800</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. S. RAJALAKSHMI Address of Applicant :S2, A Block, Papas Brindhavan, Vaithiyalingam Nagar, Nanmangalam, Chennai - 600117, Tamil Nadu, India ----- 2)MRS. S. MEENA 3)DR. INDHU. R Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. S. RAJALAKSHMI Address of Applicant :S2, A Block, Papas Brindhavan, Vaithiyalingam Nagar, Nanmangalam, Chennai - 600117, Tamil Nadu, India ----- 2)MRS. S. MEENA Address of Applicant :2/428, Jyothi Nagar, Mambakkam, Chennai - 600127, Tamil Nadu, India ----- 3)DR. INDHU. R Address of Applicant :5/181, Swamy Nagar, II Street, Mohanur Road, Namakkal, 637001, Tamil Nadu, India -----</p>
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(57) Abstract :

A soaking prevention device for parked automobiles is disclosed. Said soaking prevention device broadly comprises: an at least a buoyancy member (11); an at least a protective member (12); a plurality of sensing members (14); an at least a control member (15); an at least an inflating member (16); and an at least a power source. When the at least one buoyancy member (11) is inflated by the at least one inflating member (16), the at least one protective member (12) also gets inflated. Said at least one protective member (12) prevents an automobile (20) from falling, when the soaking prevention device is floating on water (21). The disclosed system offers at least the following advantages: light in weight; floatable; occupies less space when not in use; rechargeable; can be used for any automobile; simple in construction; and cost-effective.

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : A MECHANISM OF HYDROPHILIC MATRIX BASED FOR CONTROLLING THE RELEASE DRUG

(51) International classification :A61K0009200000, A61K0009280000, A61K0009240000, A61K0008020000, A61Q0019080000

(86) International Application No :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

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(57) Abstract :
 ABSTRACT A MECHANISM OF HYDROPHILIC MATRIX BASED FOR CONTROLLING THE RELEASE DRUG The present disclosure relates to, a hydrophilic matrix based mechanism (100) for controlling the release dosage of tablet. After ingested the tablets, the surface of tablets will wet as it becomes immersed in aqueous media. The first layer of tablet consisting of an inner immediate-release layer containing an active ingredient and two outer layers containing swellable polymers. this hydrophilic matrix based mechanism (100) for controlling the release dosage, wherein comprises step of: wetting the tablet polymer initially (102); for hydrating the polymer. hydration of the polymer after wetting forms a gel layer (104); for releasing some part of drug. formation of the gel layer after the hydration of the polymer (106); swelling of the gel through permeation of water into the tablet releases the drug dosages at desired rate (108); erosion of a tablet core through the swelled gel at the concentrate (110). This process continues in patient body at desired rate. (FIG. 1 will be the reference figure)

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141047510 A

(19) INDIA

(22) Date of filing of Application :20/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : HADOOP MAPREDUCE BASED BIG DATA CLASSIFICATION MODEL FOR IDENTIFYING FRAUDULENT TRANSACTION IN BANKING SECTOR

<p>(51) International classification :G06K0009620000, G06Q0020400000, G06Q0040020000, G06N0005020000, G06N0003120000</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. P. Kirankumar Address of Applicant :Flat No 206, Gayathri Plaza, Road no 1, FCI Colony, Tadepalligudem, ----- 2)Dr. M. V. S. S. Nagendranath 3)Dr. Subhash Bhagavan Kommina 4)Dr. K. S. N. Prasad 5)Dr. A. V. S. Siva Rama Rao 6)Mr. P. Rambabu 7)Mr. P. Sivakumar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. P. Kirankumar Address of Applicant :Flat No 206, Gayathri Plaza, Road no 1, FCI Colony, Tadepalligudem, ----- 2)Dr. M. V. S. S. Nagendranath Address of Applicant :Flat No 101, Mytri Enclave, Road no 1, FCI Colony, Tadepalligudem, ----- 3)Dr. Subhash Bhagavan Kommina Address of Applicant :Dr-No:1-9-29, Lingampalli, Nidadavole 1st Ward, Nidadavole, West Godavari District, Andhra Pradesh, India. ----- ----- 4)Dr. K. S. N. Prasad Address of Applicant :Associate Professor, Dept. of Computer Science and Engineering, Sasi Institute of Technology & Engineering, Tadepalligudem ----- 5)Dr. A. V. S. Siva Rama Rao Address of Applicant :Associate Professor, Dept. of CSE, Sasi Institute of Technology and Engineering, Tadepalligudem, ----- 6)Mr. P. Rambabu Address of Applicant :Associate Professor, Dept. of CSE, Sasi Institute of Technology & Engineering, Tadepalligudem ----- 7)Mr. P. Sivakumar Address of Applicant :Department of CSE, Sasi Institute of Technology and Engineering , Kadakatla, Tadepalligudem -----</p>
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(57) Abstract :

In recent times, big data classification becomes a hot research topic in various domains such as healthcare, e-commerce, finance, etc. Mostly the banking section is under a huge threat. Everyday lakhs of fraudulent transactions attempt are happening among millions of transactions. So, there is a need of novel solutions, to protect customers. So in this case we are working on identify best feature , which leads to classify the transactions as fraudulent or Non-Fraudulent. The inclusion of feature selection process helps to improvise the big data classification process and can be done by the use of metaheuristic optimization algorithms. This study focuses on the design of big data classification model using Modified Crow Search Optimization (MCSO) based feature selection with optimal deep belief network (DBN) model. The proposed model is executed on the Hadoop MapReduce environment to manage the big data. Initially, the MCSO algorithm is applied to pick out a useful subset of features. In addition, the Bacterial Foraging Optimization (BFO) based deep belief network (DBN) model is derived as a classifier to allocate appropriate class labels. The design of BFO algorithm to tune the hyperparameters of the DBN model assist to boost the classification performance. For examining the superiority of the presented technique, a series of simulations were performed and the results are inspected under various dimensions. The resultant values highlighted the supremacy of the presented technique over the recent techniques.

No. of Pages : 7 No. of Claims : 1

(54) Title of the invention : AN AIOT BASED WATER TOXICITY PREDICTION SYSTEM FOR FRESH WATER FISH FARMING EFFICACY

(51) International classification :A01K0063040000, A01K0063000000, G01N0033180000, A01K0061000000, A01K0061100000

(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

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(57) Abstract :

Fresh water fish farming in large aquariums and private ponds has become the bread and butter as well as hobby of many for several years. The rise of unemployment and lock down at homes for months due to pandemic attacks increased the rapid expansion of fish farming industry in recent times. The growing demand of home delivery of fresh fish along with effective utilization of free time for healthy living has led people to actively invest time and money in aquaculture. Farmers often maintain high density of fish in small bodies in order to increase the production efficacy. This may lead to the increased toxicity of water by various types of minerals, ions, metals and bacteria from factors such as large quantities of excretions which in turn can increase their susceptibility to low immunity and illness or ultimately death. An inspection system for the water quality monitoring is in high demand in this situation. The methods currently in use are time consuming and devices used for this purpose may not be economical. The proposed methodology is an attempt to develop an efficient sensor based water quality prediction system for healthy maintenance of aquatic life. The system can continuously monitor the levels of pH, Dissolved Oxygen, various minerals, ions and toxic metals presence, consolidate readings for fixed durations, employ machine learning/deep learning techniques to train and test data and finally alarm the unhealthy stages so that the farmers can ensure the healthy living of fish. Since intelligent decisions are given to the web API, the system can also be used to effectively help integrated remote maintenance of osmotic equilibrium.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141047633 A

(19) INDIA

(22) Date of filing of Application :20/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : FLOATING TYPE AERATION SYSTEM AND METHOD FOR AERATING WATERBODY TO TREAT WASTEWATER OR DEGRADE ORGANIC-WASTE

(51) International classification :B01F0003040000, C02F0003200000, C02F0003120000, C02F0003300000, B01F0015000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

Exemplary embodiments of a floating type aeration system for treating wastewater across water-body, comprising: a badge or jetty configured to take load of the floating type aeration system along with spares, operators, and safety equipment's with adequate safety margins; aspirator-type aerators configured to operate in a mixing mode and an aeration mode, the aspirator-type aerators comprising an electric motor and a regenerative blower located above the surface of the water-body; and a shaft configured to drive a mixing propeller and a ring-type diffuser beneath the water surface to disperse the air as fine bubbles into the water-body, the mixing propeller configured to maximize oxygen transfer and mixing characteristics, the aspirator-type aerators equipped with the ring-type diffuser comprising concentric rings of differing diameters fixed to a diffuser body; the aspirator-type aerators configured to aerate at the water-body to treat wastewater or degrade the organic waste. FIG. 1

No. of Pages : 29 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141047827 A

(19) INDIA

(22) Date of filing of Application :21/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A WET GRINDER FOR ACHIEVING HIGHER QUALITY OF BATTER IN QUICKER TIME WITH IMPROVED EFFICIENCY

(51) International classification :B03B0005200000, A47J0031420000, B02C0017160000, B28D0007040000, A47L0007000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

A wet grinder for grinding of rice and lentils mixture in pre soaked condition is provided for achieving of batter for preparing South Indian breakfast dishes like Idly, dosa etc. The wet grinder is incorporated with stone shaft mandrel wherein, the clearance between stone shaft mandrel and stone bore is minimum –conical type of stone or cylindrical type of stone (conical and cylindrical stone).. This makes grinding time of batter and quality improves. Further, the time for achieving of batter by this type of wet grinder is observed to be 40 % lesser than that of the conventional wet grinders with flat shaped of stone arrangements for grinding. The batter thus achieved by this type of wet grinder, is more fluffier and enhances the taste of the breakfast items. By using this type of stone shaft mandrel arrangement, the wear and tear of the wet grinder and components is reduced.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141047883 A

(19) INDIA

(22) Date of filing of Application :21/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : CAMERA AND INTELLIGENT UNIT EMBEDDED WITH THE COGNITIVE UNIT-BASED USER-SPECIFIC SMART BLOOD PRESSURE MONITOR

(51) International classification :A61B0005000000, A61B0005021000, G06K0009000000, G06Q0050220000, A61B0005020000

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

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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(57) Abstract :

The main purpose of the present invention is to check the user's blood pressure level and pulse rate are normally based on age, gender, and female user's pregnancy status using an intelligent unit. The main design of our present invention discloses the camera and intelligent unit embedded with the cognitive unit-based user-specific smart blood pressure monitor. Initially, when the user starts the smart blood pressure monitor, the camera starts to capture the image of the user. Then, the classification unit predicts the user's age and gender based on the captured image. It also predicts the pregnancy status if the user is a female. After that, the intelligent unit checks the user's blood pressure level is normal or not based on the predicted information and measured pressure level. Finally, the spectrum sensing passes the information to the secondary users such as a guardian, doctor, and medical database via the cognitive network. [To be published with Figure.1]

No. of Pages : 19 No. of Claims : 6

(54) Title of the invention : DEEP LEARNING WITH ELEPHANT HERD OPTIMIZATION ALGORITHM BASED CYBERBULLYING DETECTION FRAMEWORK FOR ONLINE SOCIAL NETWORKS

<p>(51) International classification :H04L0029080000, H04L0012580000, H04W0004020000, G06F0021550000, G06N0003040000</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. Subhash Bhagavan Kommina Address of Applicant :Dr-No:1-9-29, Lingampalli, Nidadavole 1st Ward, Nidadavole, West Godavari District, Andhra Pradesh, India. Postal Pincode534301. -----</p> <p>2)Dr. P. Kirankumar</p> <p>3)Dr. M. V. S. S. Nagendranath</p> <p>4)Dr. A. V. S. Siva Rama Rao</p> <p>5)Mr. P. Rambabu</p> <p>6)Dr. K. S. N. Prasad</p> <p>7)Mr. P. Sivakumar</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Subhash Bhagavan Kommina Address of Applicant :Dr-No:1-9-29, Lingampalli, Nidadavole 1st Ward, Nidadavole, West Godavari District, Andhra Pradesh, India. Postal Pincode534301. -----</p> <p>2)Dr. P. Kirankumar Address of Applicant :Flat No 206, Gayathri Plaza, Road no 1, FCI Colony, Tadepalligudem, 534101. -----</p> <p>3)Dr. M. V. S. S. Nagendranath Address of Applicant :Flat No 101, Mytri Enclave, Road no 1, FCI Colony, Tadepalligudem, 534101. -----</p> <p>4)Dr. A. V. S. Siva Rama Rao Address of Applicant :Associate Professor, Dept. of CSE, Sasi Institute of Technology and Engineering, Tadepalligudem, 534101, AP India -----</p> <p>5)Mr. P. Rambabu Address of Applicant :Associate Professor, Dept. of CSE, Sasi Institute of Technology and Engineering, Tadepalligudem, 534101, AP India -----</p> <p>6)Dr. K. S. N. Prasad Address of Applicant :Associate Professor, Dept. of Computer Science and Engineering, Sasi Institute of Technology & Engineering, Tadepalligudem-534101. -----</p> <p>7)Mr. P. Sivakumar Address of Applicant :Department of CSE, Sasi Institute of Technology and Engineering , Kadakatla, Tadepalligudem, AP, India. -----</p>
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(57) Abstract :

DEEP LEARNING WITH ELEPHANT HERD OPTIMIZATION ALGORITHM BASED CYBERBULLYING DETECTION FRAMEWORK FOR ONLINE SOCIAL NETWORKS Cyber bullying is a crime in which a criminal harasses and hates another person through the internet. Cyber bullying entails the use of online communication channels to bully other users by sending intimidating, threatening or abusive messages. This can have psychological and sometimes life-threatening consequences for the victims. CB's consequences are becoming increasingly frightening, hurting victims physically and psychologically. This allows for the use of automated detection approaches, however, research into such tools is limited because of insufficient datasets or the elimination of broad features during CB identification. Many methods for detecting cyberbullying have been proposed, however, they have primarily relied on textual and user attributes. By providing additional characteristics, these methods attempt to enhance detection. Increasing the number of features, however, might make the feature extraction and selection stages more difficult. Moreover, some of the datas can be easily fabricated. In this research work Optimal deep learning with Elephant herd optimization algorithm based cyber bullying detection is proposed. The proposed method results is compared with existing bench mark datasets, which shows excellent performance is detecting cyber bullying attacks.

No. of Pages : 7 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048063 A

(19) INDIA

(22) Date of filing of Application :21/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR ENABLING AN ORDERED EATABLES TRACKER SYSTEM

(51) International classification :G06Q0010060000, A61B0001045000, G16H0040200000, G10L0015220000, A01K0005020000
(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

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(57) Abstract :

The present invention provides an ordered eatables tracker system. The system comprises one or more sensors, at least one memory configured to store instructions and at least one processor configured to obtain a plurality of eatables input at a first end, based on one or more sensors. The system may be further configured to generate a list on the plurality of eatables input at the first end. The system may be furthermore configured to transfer the list generated at the first end. The system further determines a priority queue based on the transferred list at the second end. The system then transfers a tracker information based on the priority queue to the first end from the second end. In some example embodiments, the plurality of eatables input is provided using CMOS sensors or touch based user interface sensors. In some example embodiments, the first end includes orderer's end and the second end includes food supplier's end. In some example embodiments, the priority que is generated based on magnitude of number of lists received and operating capacity of the food supplier. In some example embodiments, the tracker information includes waiting time and place of pick-up of the ordered food.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : Real-Time Face Mask Detector with Python to protect against Covid 19.

<p>(51) International classification :G06Q0050220000, G16H0050800000, G16H0040200000, A61M0016060000, G06Q0010060000</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)Arumugam Ranjith Address of Applicant :32 B Mazhuppan street ----- 2)Dr. A C SOUNTHARRAJ 3)Dr. MICHAEL RAJ TF 4)Prof. B.RAJAKUMAR 5)Mr.Raghuraman. K 6)Mr. S Swaminathan 7)Dr. T.NAGARATHINAM 8)Dr. H. Abirami 9)Dr.R.Kalaivani 10)Arpan Kumar Tripathi 11)Dr.K.Kishore Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. A C SOUNTHARRAJ Address of Applicant :PROFESSOR COMPUTER SCIENCE WITH DATA ANALYTICS Dr. NGP Arts and Science college, Kalapatti Road, Coimbatore. 641048, Tamil Nadu, India. : ----- 2)Dr. MICHAEL RAJ TF Address of Applicant :PROFESSOR COMPUTER SCIENCE AND ENGINEERING Galgotias University, Plot No. 2, Sector-17A, Yamuna Expressway, Greater Noida, Gautam buddh Nagar, 201310, Uttar Pradesh, India : ----- 3)Prof. B.RAJAKUMAR Address of Applicant :DIRECTOR OF ACADEMICS COMPUTER SCIENCE, MASS GROUP OF INSTITUTIONS, CHENNAI SALAI , KALLAPULIYUR, KUMBAKONAM, 612501 TAMILNADU, INDIA ----- 4)Mr.Raghuraman. K Address of Applicant :Assistant Professor, Computer Science and Engineering, Srinivasa Ramanujan Centre, SASTRA DEEMED UNIVERSITY, KUMBAKONAM, 612001, Tamil Nadu, INDIA. ----- 5)Mr. S Swaminathan Address of Applicant :Assistant Professor, Computer Science and Engineering, SASTRA Deemed To Be University, Srinivasa Ramanujan Centre, Kumbakonam, Thanjavur District, 612001, Tamilnadu, India. ----- 6)Dr. T.NAGARATHINAM Address of Applicant :ASSISTANT PROFESSOR , COMPUTER SCIENCE , SWAMI DAYANANDA COLLEGE OF ARTS AND SCIENCE, MANJAKKUDI, 612610, TAMIL NADU, INDIA. ----- - 7)Dr. H. Abirami Address of Applicant :Professor, PG and Research Department of Biotechnology, Vivekananda College of Arts and Sciences for Women (Autonomous), Tiruchengode , 637205, Tamil Nadu, India. ----- 8)Dr.R.Kalaivani Address of Applicant :Head and Assistant Professor , Thanthai Hans Roever College (Autonomous), 621220, Tamilnadu, India . ----- 9)Arpan Kumar Tripathi Address of Applicant :Associate professor, Faculty of pharmaceutical science, Shri Shankaracharya Technical Campus, Junwani, Bhilai, Chhattisgarh,490020, Chhattisgarh, India. ----- 10)Dr.K.Kishore Address of Applicant :Professor ,Voorhees College, Vellore,632001,Tamilnadu ,India. -----</p>
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(57) Abstract :
With a bleak future ahead of us, effective strategies for controlling the COVID 19 pandemic necessitate immediate attention in order to minimize the negative effects on public health and the global economy. World Health Organization (WHO) recommends various measures in the nonexistence of active antivirals and narrow medical resources to control infection and prevent the exhaustion of limited medical resources. Non pharmaceutical interventions such as the use of a mask can help reduce the number of SARS-CoV2 droplets expelled by an infected person. All countries now require that people cover their noses and mouths when they are in public, regardless of the debate over medical resources and the types of masks available. With the help of this paper, we hope to create a highly accurate and real-time method of detecting people without masks when they are out and about, which will help to keep the community healthy overall. The World Health Organization (WHO) has mandated the use of face masks during pandemic COVID-19 in order to protect the public from the deadly virus. We developed a real-time system that can tell whether or not the person on the webcam is hiding behind a mask while working on this assignment. We'll develop a face mask detector model using Keras and OpenCV

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048068 A

(19) INDIA

(22) Date of filing of Application :21/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : Vintage Route

(51) International classification :B62J0009250000, B62J0015020000, E04H0006000000, A45C0013100000, B62J0001280000

(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

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(57) Abstract :

Abstract A bag that is suitable for bikes, especially Enfield Bullets, has been designed. A relatively less used space in the rear part of Bullet bikes is envisaged to be utilized for this purpose. The design looks like an inseparable part, but at the same time retains the aesthetic sense. The material to be used for this can be leather, rexin or polystyrene on a frame of wood or metal with a zip or key lock. At present what can be rarely seen on an Enfield bike is a tank bag but when it is fitted on the tank, the overall appearance of the bike suffers, as the tank is the main attraction of the Enfield bike. So 90% of riders don't choose a vehicle with a bag on the tank. Another model available at present is just a roll type on back of Enfield bike. It's just a pipe shape fitted across the mudguard. Four or more of the same are affordable within that space. That means this bag, even if it doesn't come under the definition of bag in terms of its shape and utility, does not fully utilize the space available at the rear of Enfield bikes. So this bag has been designed keeping in mind options to eliminate all the drawbacks and demerits of the bags that are at present available on the market for Enfield bikes. Here the space between the rear seat and parking light is efficiently and fully utilised, without compromising its elegance and beauty. Rather than manual stitching, high quality bronze, brass, steel or other similar colour-combination rivets are used for fastening. As it is designed for Enfield bike it's not suitable for other bikes. The same bag can't be fitted on the front tank of bikes as it is designed only for the rear. The measurements taken for the design of the bag pertain to the rear of the bike, as this is the space left without being fully utilised. Now, why Enfield No other bike is seen with the same volume of space at the back. In other cases, they have their own front tank bag and these bike tanks are not beautiful or attractive as Enfield. Here, the one and only place to fit the bag is the tank. In the case of Enfield bikes, a bare tank is at once a mark of its beauty and its spatial comfort.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048070 A

(19) INDIA

(22) Date of filing of Application :21/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : IoT and Machine Learning-based Navigation Device for Blind

(51) International classification :G06N0020000000, G06K0009000000, B60R0021013400, G01S0013860000, G06K0009320000

(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

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(57) Abstract :
 Exemplary aspects of the present disclosure are directed towards the IoT and Machine Learning-based Navigation Device for Blind, consisting of OBJECT DETECTION DEVICE (ODD) 101 and A plurality of Navigation Device (ND) 102. Microcontroller-101a integrated with Camera-101b, LiDAR -101c, a microphone-101d, Speaker-101e and Ultra-wideband Radar101f to formulate ODD-101, making it capable of establishing the type of object based on LiDAR and Video Images and movement vector-104. Microcontrollers 101a/102a runs appropriate Machine Learning Algorithms to identify the type of object, assess the distance and imminent collision. Once Movement Vector 104 is established by ODD 101 through UWB Radar 101f data, individual NDs 102 and ODD 101 can ascertain the imminent collision and avert it by vibrating relevant ND 102 or announcing. FIG1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048336 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN APPROACH BASED ON GRAPH THEORY TO REDUCE MATHEMATICAL COMPLEXITY

(51) International classification :D05B0007000000, D04B0039080000, G06Q0030040000, G06N0005020000, G06N0020000000

(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

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(57) Abstract :
 The goal of this work would be to develop a model for converting phrase movement issues into a mathematical structure that could be handled by an Intelligent Tutoring System (ITS). Initially, the features of movement issues were classified, and also a structure for such classifications was also suggested. Graph theory, as well as reverse and inward linking machine learning methods, have been used to tackle most sorts of issues. The application of graph theory with movement issues and creates proof that such a system handles nearly every movement issue. Lastly, the suggested method could be suggested particular implementation within instructional systems within the framework of conflict resolution.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : The impact of India's formal and informal (street vending) sectors, as well as their issues, challenges, and opportunities.

<p>(51) International classification :G06T0017050000, G06Q0010100000, G06Q0050220000, G09B0019000000, G06Q0050260000</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)Arumugam Ranjith Address of Applicant :32 B Mazhuppan street -----</p> <p>2)Dr .R.Anitha</p> <p>3)Dr. S. Pramila</p> <p>4)Dr. Manish Didwania,</p> <p>5)Dr.PratapRaghunath Desai</p> <p>6)Dr. Deepak Tiwari</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr .R.Anitha Address of Applicant :Principal, Dr.SNS.Rajalakshmi college of arts and science, Coimbatore, 641049, Tamilnadu , INDIA, -----</p> <p>2)Dr. S. Pramila Address of Applicant :Assistant Professor CHRIST (Deemed to be University), Nandgram Road, Ghaziabad, Uttar Pradesh (Delhi NCR), 201003, Uttar Pradesh, India. -----</p> <p>3)Dr. Manish Didwania, Address of Applicant :Professor School of Business Mody University of Science and Technology, Lakshmgangarh, 332311, Dist. Sikar (Rajasthan), India, -----</p> <p>4)Dr.PratapRaghunath Desai Address of Applicant :Associate Professor, BharatiVidyapeeth (Deemed to be University) IMRDA (Institute of management and Rural development Administration) ,Sangli Bharati Vidyapeeth Bhavan, Rajwada chowk,Sangli ,Maharashtra, 416416, Maharashtra, -----</p> <p>5)Dr. Deepak Tiwari Address of Applicant :Professor & Director, College Name with address: Duke College of Management, Salaiya, Sankhedhi Via Danishkuj, Kolar Road, Bhopal, 462026, Madhya Pradesh, India -----</p>
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(57) Abstract :

People in countries such as Cambodia and India are increasingly reliant on road vending as a major source of income in urban areas, sparking new areas of social science research. We compiled data on the products sold by street vendors in markets in Delhi and Cambodia, revealing the nuanced interplay between what is categorized as informal and what is categorized as formal in urban economies, as evidenced by our findings. As evidenced by the interdependence observed, there is a pressing need to study urban ecosystems from an inclusive perspective while also meeting the requirements of street sellers. This is accomplished by employing suitable methods and conducting a case study on street selling. To that end, we highlight the importance of combining ideas and methods from various social science disciplines in order to create more urban narratives that delve deeper into the complex interplay in informal and formal ecosystems

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

(54) Title of the invention : IMPLEMENTATION OF HUMAN HEALTH MONITORING SYSTEM USING IOT.

(51) International classification :H04L0029080000, A61B0005000000, G16H0020600000, G16H0080000000,
A61B0007040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
ABSTRACT: Wi-Fi based health monitoring framework is used to monitor patients' various restrictions remotely and continuously. As a professional or someone else, in the first system framework, you can monitor various patient limits while you're sitting in your room or wherever you're at. An 8051 microcontroller, ADC, and sensors are used to build this framework. The framework and regulator communicate sequentially via the RS232 standard. A C- language is used to examine the found values and to display them on the display. The results of this program are transferred to a specific location using Keil. Finally, anyone with a fully realized URL can benefit from these features on their mobile device or personal computer. A versatile e-medical services framework with numerous physiological signs estimation ability progressively is planned and created. This framework performs neighborhood fundamental sign information investigation utilizing a mobile phone and communicates information over a Wide Area Network. Borders of the patients are persistently be observed, prepared and broke down locally at PDA to deliver valuable clinical data for finale and following purposes. At the point when any obscure or associated designs with signals are recognized, PDA plays out some basic information examination first and afterward quickly communicates these signs to an emergency clinic worker for clinicians' cautious conclusion. Execution of remote innovation in the conclusion framework empowers patient can be observed anyplace, whenever and would not be hindered by the actual requirements forced by the links. This component could demonstrate accommodate in satisfying the vision of Medical Intensive care unit by IoT. A great deal of period, because of carelessness of clinic staff, or inhumanity of family members it might happen that medicine is not noticed accurately, and it might go on to cause coronary failure or other perilous circumstances. The second system comprises of various sensors. Controlling and information handling is done through the ESP8266, every one of the sensors are associated with Arduino Uno. Through this framework, we can gauge Temperature, heartbeat, and BP. Through sensors, it is feasible to gauge the load of qualities. These qualities are then utilized for recognizing any circumstance. If there should arise an occurrence of a basic circumstance, an alarm can be given as a wire message it is feasible to screen the individual's wellbeing from any area on the planet through the mosquito worker cloud. The task utilizes a MQTT convention for checking patients. Condition through the portable Application. The information from sensors is transferred to the cloud worker, intermittently with no interference if the web is accessible. Through this framework one can productively screen patient's condition. The current analysis is conducted on the basis of the hardware based implementation of the human health tracking system using IoT based on 8051 and Arduino based controllers. The parameters are tested on 10 persons under ideal conditions. The Overall accuracy of the 8051 system is 67% and of the Arduino system is 86%.

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

(54) Title of the invention : Strategies for a home charging system for electric vehicles.

<p>(51) International classification :B60L0053650000, B60L0053680000, B60L0053630000, B60L0053300000, B60L0053600000</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)Arumugam Ranjith Address of Applicant :32 B Mazhuppan street ----- 2)Dr. Prateek Nigam 3)Senthil Krishnamurthy 4)V. Senthil kumar 5)PARICHAY RAWAT 6)Dr. G. Suganya 7)Mr.D.Nanda kumar 8)Rahul B 9)Dr. Natraj. N. A Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Prateek Nigam Address of Applicant :Associate Professor & Head Department of Electrical and Electronics Engineering, Faculty of Engineering & Technology, Rabindranath Tagore University, Bhopal, Madhya Pradesh 462045. ----- 2)Senthil Krishnamurthy Address of Applicant :Senior Lecturer College Name and address: Cape Peninsula University of Technology, Department of Electrical, Electronics and Computer Engineering, Symphony way, Bellville, South Africa,7535,State: Western Cape ----- 3)V. Senthil kumar Address of Applicant :Assistant professor Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College.42, Avadi – Vel Tech Road, Poonamallee - Avadi High Rd, Vel Nagar, Chennai, Tamil Nadu 600062, India ----- 4)PARICHAY RAWAT Address of Applicant :STUDENT MEWAR UNIVERSITY, 79 GANGRAR, CHITTORGARH, RAJASTHAN,312901, RAJASTHAN,INDIA ----- 5)Dr. G. Suganya Address of Applicant :Assistant Professor Sriram Engineering College Perumalpet.,thiruvallur taluk and district 602024,Tamilnadu, India ----- 6)Mr.D.Nanda kumar Address of Applicant :Assistant Professor Sriram Engineering College Perumalpet.thiruvallur taluk and district 602024, Tamilnadu, India ----- 7)Rahul B Address of Applicant :Assistant Professor Karnataka, India ----- 8)Dr. Natraj. N. A Address of Applicant :Assistant professor Sri Krishna College of Engineering and Technology, Coimbatore,641008, Tamilnadu, India Email: Mobile No. -----</p>
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(57) Abstract :
Before widespread adoption of electric vehicles, a significant expansion of charging infrastructure is required, and authorities must manage this expansion so that supply keeps up with demand. There is a great deal of uncertainty surrounding the best charge deployment strategy. How many charging stations should there be and where should they be located That is the most important question. The initial roll-out was successful in many locations, but there is a lack of understanding about how to design a dense urban charging network it's possible that faster charging and more closely spaced charging stations will impact EV charging preferences, but we haven't studied the return to scale, reciprocal effects on sales, or other factors that could be at play. The effects of various charging infrastructure roll-out approaches designed to aid in large scale electric vehicle deployment are investigated using agent-based modelling. In terms of charging habits, our model is based on data collected from electric vehicles rather than traditional gasoline and diesel vehicles (EVs). This is distinct from previous models that had been proposed. Other user types are also included to reflect the diverse charging habits found in metropolitan areas. In various scenarios, various pricing infrastructure types and implementation intensities are investigated. The simulation can predict the success rate of charging efforts as well as the additional discomfort associated with looking for a charging station. Returns on scale and reciprocal effects appear to be significant in terms of charging infrastructure. This means that the number of electric vehicles per charge station will decrease over time

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

(54) Title of the invention : Cloud and IoT based temperature monitoring system.

(51) International classification :H04Q0009000000, H04L0029080000, A01G0025160000, G08C0017020000, G05B0023020000

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 We can remotely control electrical devices in our everyday lives using the Internet of Things (IoT). Precision monitoring of critical equipment operating parameters provides useful operational information on how these electronic devices are controlled. At the same time, the transmitted data will be broadcast from the transmitting device and stored in the cloud for later access by applications and other operations. The results of environmental measurements collected with sensors, such as humidity and temperature, are examined to see how they relate. Using the information gathered, long-term statistics or distantly dominant cooling and heating equipment could be produced, which would be useful in controlling the system. The collected information are uploaded to a cloud and wirelessly linked to an Android app. The system employs the Arduino, Raspberry, HTU 211D sensor and WiFi module. The experiments revealed that by combining an Arduino UNO and a Raspberry Pi, it is possible to monitor ambient temperature, humidity, and soil moisture in real time. When it comes to temperature and humidity, the Raspberry Pi's HTU 211D sensor module handles the majority of the work. A variety of devices can store and use the data collected by sensors, which monitor and store the temperature of the immediate environment.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048424 A

(19) INDIA

(22) Date of filing of Application :23/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PARALLEL COMPUTING APPLICATION-BASED DECOMPOSITION METHOD FOR SOLUTION OF A MULTI-AREA ECONOMIC DISPATCH PROBLEM IN A DEREGULATED POWER SYSTEMS.

(51) International classification :G06Q0010060000, H02J0003000000, G06Q0050060000, H02J0003380000, H02J0003460000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

The research investigated the existing methods and develop a new method and algorithm for solution of the single and multi-area optimization dispatch problems. The problem formulation addresses the multi-area economic emission dispatch (MAED) problem in a way it corresponds to the requirements of the deregulated power system structure and the future challenges of the smart grid. The decomposition-coordinating method is developed for solution of the multi-area dispatch problem using Lagrange's algorithm. The software program is developed for both data-parallel and task-parallel implementation of the single area and multi-area problem algorithms in a Cluster of Computers. The management of the Smart grid requires the information of MAED solution in real-time in order to take decisions for the behaviour of the power system and to improve the efficiency, reliability, economics, and sustainability of the production and distribution of electricity.

No. of Pages : 11 No. of Claims : 10

(54) Title of the invention : A novel process for preparing Tropical heat resistant aerogel based on nanotechnology

(51) International classification :C04B0030020000, C22C0032000000, C22F0001057000, C04B0035640000, D01D0001020000

(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
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(57) Abstract :

The invention discloses a novel process for preparing Tropical heat resistant aerogel based on nanotechnology. A nano zirconia fibre is coated with the solution, 15mL of solution is provided to every 45cm³ of an insulating felt, the felt is transferred to 85% ethanol solution for sealing aging for 20h, then kept at 50 DEG C for 3h, then kept at 90 DEG C for 5h, kept at 160 DEG C for 3h, kept at 200DEG C for 5h, and then sintered at 1200 DEG C. The microscopic spherical particles are intact to the surface of the nano zirconia fibre, and the carbon-silicon bond and the silicon-oxygen bond undergoes rearrangement reaction, thus endowing the aerogel with good thermal performance, thus solving the technical problem that the traditional oxide aerogel and the carbon aerogel cannot meet the requirements for use at temperatures above 1300 DEG C or even higher.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048443 A

(19) INDIA

(22) Date of filing of Application :24/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AUTOMATIC GAS LEAKAGE CONTROLLER AND ALERT SYSTEMS

<p>(51) International classification :G08C0017020000, G05B0019418000, H04M0001725000, G08B0021160000, A61B0005000000</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 Tamil Nadu Address of Applicant :Francis Xavier Engineering College, Tirunelveli-627003, Tamil Nadu, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. N. Muthukumar Professor Department of Electronics and Communication Engineering Francis Xavier Engineering College Tirunelveli Address of Applicant :Dr. N. Muthukumar, Professor, Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli -627003, Tamil Nadu, India. -----</p> <p>2)Dr. R.Kabilan Associate Professor Department of Electronics and Communication Engineering Francis Xavier Engineering College Tirunelveli Address of Applicant :Dr. R.Kabilan, Associate Professor, Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli -627003, Tamilnadu, India. -----</p> <p>3)Dr. A.Andrew Roobert Assistant Professor Department of Electronics and Communication Engineering Francis Xavier Engineering College Tirunelveli Address of Applicant :Dr. A.Andrew Roobert, Assistant Professor, Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli -627003, Tamilnadu, India. -----</p>
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(57) Abstract :

The proposed gas leakage detection and automatic control system provides a solution by designing an automatic system which can detect the leakage of gas and control it by turning off the cylinder knob. This system aims at proposing an automatic gas controller and alert unit using Arduino UNO and which detects the gas leakage and thereby closing the cylinder valve, and sending an alert call to the user using GSM. When a leakage of gas occurs, the sensor sends a signal to the microcontroller. LPG regulator fitted to the cylinder will be automatically turned off using a DC motor to avoid more leakage from cylinder and the alert buzzer will produce the sound. Simultaneously, GSM receives the command from the Arduino to make a call to the sim number that is inserted into the GSM module and the user will receive the alert call that the gas leakage occurred.

No. of Pages : 10 No. of Claims : 5

(54) Title of the invention : IOT based fully autonomous personal service robotics device

(51) International classification :B25J0005000000, B25J0019020000, B25J0009000000, G05D0001020000, B25J0011000000

(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
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(57) Abstract :
 Personal service robot that can monitor its owner's health and offer help if necessary. Sensors such as smoke, heat, temperature, and carbon monoxide sensors in IOT may be included in the system to identify dangerous conditions before they impact humans. The device is capable of protecting the house from intruders. A medication dispenser and blood pressure cuff may be included in the PRA. Broadband internet, MP3 player, reading lamps, and eyeglass trackers are all butler-type features that make the system appealing to a wider range of customers than only the elderly and infirmed. An X10 transmitter/receiver may be included in the system to automate different home lighting and appliances. The robot can retrieve things with a robot arm, turn on and off switches on the wall, open the fridge, etc.

No. of Pages : 24 No. of Claims : 5

(54) Title of the invention : A pharmaceutical macro-emulgel formulation and a process thereof

(51) International classification :A61K0009000000, A61K0009700000, A61K0047080000, A61K0009160000, C07D0233640000

(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

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(57) Abstract :

Fungal infections are commonly seen in humans (both male and females) leading to itching and causing tremendous discomfort. At present, there exist different formulations to tackle this problem. But, these known formulations suffer with various disadvantages as they often tend to cause or aggravate the itching sensation or irritation and/ or fail to penetrate layers of skin to show the intended therapeutic benefit. Accordingly, the present disclosure provides a macro-emulgel formulation of a drug substance, 3-(4-methylphenyl)-1-(3-nitrophenyl)prop-2-en-1-one, that has the potential anti-fungal activity. Besides, the macro-emulgel formulation of this drug substance is associated with excellent skin penetration properties, drug release properties, pH (do not cause irritation) and spreading coefficient to get absorbed via layers of skin to show its anti-fungal and cleansing activity.

No. of Pages : 28 No. of Claims : 9

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE BASED WIRELESS COMMUNICATION SYSTEM, CONTROL DEVICE AND METHOD THEREOF

(51) International classification :H04W0076140000, H04W0092180000, H04W0088100000,
H04W0008000000, 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

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(57) Abstract :
 [034] The present invention discloses an Artificial Intelligence based wireless communication system, control device and method thereof. The system includes, but not limited to, a plurality of mobile communication units adapted to D2D communication that is direct inter-terminal communication, a plurality of base stations adapted to perform predetermined wireless communication using a specific frequency band; a plurality of user terminals located in a plurality of cells of the base station. Each of the base station permits the user terminal to perform the D2D communication using the specific frequency band which is further evaluated by the Artificial Intelligence and machine learning interfaces during a period in which the predetermined wireless communication is stopped. Accompanied Drawing [FIG. 1]

No. of Pages : 22 No. of Claims : 10

(54) Title of the invention : Person Gender and Age Determination Using Deep Learning Techniques in Real Time.

<p>(51) International classification :G06K0009000000, G06K0009620000, H04N0007180000, G16H0050300000, G06K0009660000</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)Arumugam Ranjith Address of Applicant :32 B Mazhuppan street ----- 2)Dr Bindu Krishnan, 3)Dr. Uduga Surya Kameswari 4)JOSYULA SIVA PHANIRAM 5)Dr.T.V.SAI KRISHNA 6)Dr. Sonam Mittal 7)Sanchana.R 8)Dr.V. Gokula Krishnan 9)Dr. Brijesh Sathian 10)Dr. Preety Khatri 11)Dr Nallam Krishnaiah Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr Bindu Krishnan, Address of Applicant :Professor, Jain University, Kochi, Kerala, India, ----- ----- 2)Dr. Uduga Surya Kameswari Address of Applicant :Assistant Professor Acharya Nagarjuna University, Nagarjuna nagar 522510,Andhra Pradesh, India ----- 3)JOSYULA SIVA PHANIRAM Address of Applicant :Software Engineer, RAVSoft Solutions Private Limited 5th Floor, MPL Silicon Towers, Velachery - Tambaram Main Rd, Pallikarantai, Chennai, Tamil Nadu, 600100 ----- 4)Dr.T.V.SAI KRISHNA Address of Applicant :PROFESSOR NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPETA 522601,Andhra Pradesh, India ----- ----- 5)Dr. Sonam Mittal Address of Applicant :Associate Professor B K Birla Institute of Engineering and Technology, Pilani 333031, Rajasthan, India ----- 6)Sanchana.R Address of Applicant :Assistant professor Sri Sairam institute of technology sai leo Nagar West Tambaram 600043, tamilnadu, india ----- 7)Dr.V. Gokula Krishnan Address of Applicant :Associate Professor, Computer Science and Information Technology Department, CVR College of Engineering, Mangalpally, Hyderabad, Telangana, India ,501510. ----- 8)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 ----- 9)Dr. Preety Khatri Address of Applicant :Assistant Professor Institute of Management Studies, Sector-62, Noida 201301, U.P. India ----- 10)Dr Nallam Krishnaiah Address of Applicant :Professor Department of IT, St.Martin's Engineering College Dhulapally, Secunderabad Telangana ,India -----</p>
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(57) Abstract :
A single facial image can be used to estimate an individual's age and gender, which is advantageous for smart uses such as access control, interfaces between humans and computers, law prosecution, marketing purposes, and visual monitoring. Due to the fact that age and gender are two of the most critical visual characteristics in social interactions, determining them from a single face shot is critical for smart applications. This project's main objective is to develop an algorithm that accurately determines a person's age and gender. In this research, we provide a model that, can accurately determine a person's gender. The model trained the classifier using a variety of photographs of men and women, some of which were flattering and others that were demeaning. A wide range of facial traits can be gleaned from the image. The input image may be classified as male or female using the classifier. The primary objective of this study is to develop a gender and age finder that uses Deep Learning on the Adience dataset to roughly estimate a person's gender and age from a photograph

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048456 A

(19) INDIA

(22) Date of filing of Application :24/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PREDICTING THE ASSOCIATION OF CIGARETTE SMOKING DOSE-RESPONSE AND SUICIDAL IDEATION AMONG YOUNG PEOPLE USING ROC AND AUC

(51) International classification :A61K0036700000, G16H0050700000, C12Q0001688300, A23L0033160000, G09B0019000000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Worldwide, tobacco smoking is a major risk factor for morbidity and early mortality among adult population. The present study aimed to find out the association between current smoking and suicidal ideation among young people in Nepal. A cross-sectional questionnaire-based survey was carried out among 452 youths from Pokhara, Nepal. The present study included both genders (age 18-24 years) who were smokers as well as non-smokers. Across the study period, 452 participants were identified after matching for age, and sex (226 in the smoking group and 226 in the non-smoking group). The mean age of participants was 21.6±1.2 years and 58.8% were males. The overall rate of suicidal ideation in our cohort was 8.9%. Smokers were slightly more likely to report suicidal ideation than non-smokers (aOR 1.12). The risk of developing suicidal ideation was 3.56 (95% CI 1.26-10.09) times more in individuals who smoked greater than 3.5 cigarettes per week (p=0.01).

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

(54) Title of the invention : IMPLEMENTATION OF INTELLIGENT CHATBOT USING DEEP LEARNING TECHNIQUES.

(51) International classification :H04L0012580000, G06N0003040000, G06N0003080000, G06N0003000000, G06N0007000000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 Intelligent software, such as a chatbot, is capable of communicating with and carrying out acts just like a human. Using chatbots in customer care, social media marketing, and in real-time chat with customers has become increasingly popular in recent years. Retrieval-based models and generative-based models are the two main types of chatbot models, and their construction depends on them. Input patterns and responses are pre-programmed into a retrieval-based chatbot. A heuristic technique is used to select the best reaction after that. Goal oriented chatbots typically use this method because it lets us customize the tone and flow of the conversation to better serve our customers. Generic models aren't built or evaluated using predetermined responses. They're constructed from neural networks that go from left to right in a certain order. To a large extent, it's the same as machine translation in that respect. However, in this case, we shall transform data into something else called transformation, which is the process of translating source code from one language to another. Using Deep Neural Networks demands a lot of data because the algorithms are so complex. Deep learning techniques will be used to construct an interactive chatbot in this Python project with source code. The chatbot will be fed a dataset containing categories (intentions), patterns, and responses in order to become proficient. This is followed by categorizing the user's message with an LSTM and selecting a random response from among the possible ones.

No. of Pages : 10 No. of Claims : 5

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF SMART HOME MANAGEMENT WITH PV SYSTEM BASED ON RENEWABLE ENERGIES.

(51) International classification :G05B0015020000, G05B0019418000, H04L0012280000, H04L0029080000, G08B0013196000

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

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
 The use of smart home technologies is helping to keep people comfortable in their homes. It's possible to employ a smart home system for many different purposes, including security, intruder detection, and fire detection. A smart home system is made up of IoT-based subsystems. In this scenario, the user can check on the status of his or her home environment and operate his or her home equipment from anywhere in the house, such as by turning on the television and selecting a favorite channel, by activating the air conditioner, or by switching off the lights. The goal of this new effort was to create a new and improved version of this solar Arduino low-cost control system based on IoT (Internet of Things), which included adding internet connectivity and enabling remote monitoring of the system via a web or mobile application, which means that not only historical data on system performance can be retrieved, but also real-time data. The prototype was developed, manufactured, and tested in real-world working environments, which is unusual in this field. By using this method, Distributed generators would be able to accurately determine their status, and only planned visits to Distributed generators that were malfunctioning would be made. The suggested system makes use of sensors to keep tabs on both the power line and the energy meter

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048479 A

(19) INDIA

(22) Date of filing of Application :25/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DESIGN AND CREATE SMART INDUSTRIAL SERVICE USING VALUE ADOPTION MODEL AND TECHNICAL ACCEPTANCE MODEL

<p>(51) International classification :G06Q0030020000, B23P0025000000, C07C0067055000, G01R0033563000, E05B0017000000</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.S.Revathy Address of Applicant :Dr.S.Revathy,AssistantProfessor,Department of Corporate Secretaryship,PSG College of Arts & Science, Coimbatore, Tamil Nadu 641014, revaathyselva@gmail.com , 9842645948 ----- 2)Dr.R.Sudha 3)Dr. Sugandha Shrotriya 4)Dr. Pushkar Dubey, 5)Mr.Mayank Kulshreshtha 6)Dr. A. ApsaraSaleth Mary 7)Mr.Anand P S Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.S.Revathy Address of Applicant :Dr.S.Revathy,AssistantProfessor,Department of Corporate Secretaryship,PSG College of Arts & Science, Coimbatore, Tamil Nadu 641014, revaathyselva@gmail.com , 9842645948 ----- 2)Dr.R.Sudha Address of Applicant :Dr.R.Sudha,Assistant Professor, Department of Commerce, PSG College of Arts &Science,Coimbatore, Tamil Nadu 641014. ----- -- 3)Dr. Sugandha Shrotriya Address of Applicant :Dr. Sugandha Shrotriya, Professor, MBA Department IIMT Engineering College, O, Pocket Ganga Nagar Mawana Road Meerut, Uttar Pradesh- 250001. ----- 4)Dr. Pushkar Dubey, Address of Applicant :Dr. Pushkar Dubey, Assistant Professor & Head (Management) PanditSundarlal Sharma (Open) University Chhattisgarh, Koni-Birkona Road, Po- Birkona, Dist- Bilaspur-495009 Chhattisgarh. ----- -- 5)Mr.Mayank Kulshreshtha Address of Applicant :Mr.Mayank Kulshreshtha, Lecturer / HOD-In-charge. Electronics & Tele. Communication Engineering, JainuddinZaweri Polytechnic (College Code 4610) , Survey No.62, Rampur Tukum, MUL, PIN: 441224 ,Dist. Chandrapur Maharashtra. ----- 6)Dr. A. ApsaraSaleth Mary Address of Applicant :Dr. A. ApsaraSaleth Mary, Faculty, Centre for Tourism and Hotel Management, Madurai Kamaraj University, Tamil Nadu, India. ----- ----- 7)Mr.Anand P S Address of Applicant :Mr.Anand P S,Student, Mechanical Engineering,NSS College Of Engineering, Palakkad, Kerala, India Pin-678008 -----</p>
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(57) Abstract :

The objective of this work would be to look into acceptance of clever Business services in depth. A novel framework that combines VAM (Benefit Migration Framework) or TAM (Mechanical Previously Established) was implemented and tested using elements from the Conceptual Framework of Technology acceptance and the Innovation Diffusion Framework. Both actual advantage and apparent expenditure influenced potential value. Estimated obligation, for instance, was found to have a significant beneficial effect on perceptions value. Privacy concerns and reluctance to the invention, on the contrary, were discovered to restrict perceived quality. This research was beneficial because it presents a new technique to IoT (Internet of Things)-based clever Technology consulting acquisition that incorporates VAM or TAM. A research discovered that enterprises should include or acquire adequate infrastructure for citizens to consume Sensor clever Manufacturing products using these two concepts. It's also vital to establish security-related material.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048504 A

(19) INDIA

(22) Date of filing of Application :25/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : COMMUNICATION SYSTEM AND METHOD FOR GROUPING STATIONS BASED ON DATA RATES IN MULTI-RATE IOT NETWORKS

<p>(51) International classification :H04L0001000000, H04W0084120000, H04W0028220000, H04W0088080000, H04B0007045200</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to :NA Application Number :NA Filing Date</p> <p>(62) Divisional to :NA Application Number :NA Filing Date</p>	<p>(71)Name of Applicant : 1)NATIONAL INSTITUTE OF TECHNOLOGY PUDUCHERRY Address of Applicant :Thiruvettakudy, Karaikal - 609 609, Puducherry, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. HARIGOVINDAN V P Address of Applicant :Science Block, National Institute of Technology Puducherry, Thiruvettakudy, Karaikal - 609 609, Puducherry, India. -----</p> <p>2)DR. MIRIYALA MAHESH Address of Applicant :Science Block, National Institute of Technology Puducherry, Thiruvettakudy, Karaikal - 609 609, Puducherry, India. -----</p> <p>3)BADARLA SRI PAVAN Address of Applicant :Science Block, National Institute of Technology Puducherry, Thiruvettakudy, Karaikal - 609 609, Puducherry, India. -----</p>
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(57) Abstract :

The present invention relates to the field of wireless local area networks, more particularly to the Internet of Things (IoT). More particularly the present invention relates to a communication system and method [1100] for grouping stations based on data rates in multi-rate IoT networks to resolve performance anomaly and improve aggregate throughput. The multi-rate network is initialized [810] by broadcasting beacon frame by access point (AP) [120]. The achievable data rate is estimated [820] by every device/station [130] based on distance from access point [120] using rate adaption. The estimated achievable data rates are communicated [830] to access point [120] by station/device [130] using association request frame during association procedure [700]. Advantageously the present invention relates to method for communicating estimated achievable data rate by setting bandwidth bits and modulation and coding scheme (MCS) bits of Physical Layer Convergence Protocol (PLCP) header to AP during association procedure. FIGURE 7, 10.

No. of Pages : 37 No. of Claims : 8

(54) Title of the invention : TWO-WHEELER AMBULANCE WITH ROTATING PILLION MECHANISM FOR REMOTE EMERGENCIES

<p>(51) International classification :B62J0001140000, A61G0003000000, A61G0001020000, A61G0003080000, A61G0003020000</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.Alluru Gopala Krishna Address of Applicant :Professor, Department of Mechanical Engineering, University College of Engineering, Jawaharlal Nehru Technological University Kakinada, Kakinada-533003, Andhra Pradesh, India. -----</p> <p>2)Kalyana Manohar Veeramallu 3)Dandamudi Poorna Sankara Prasad</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.Alluru Gopala Krishna Address of Applicant :Professor, Department of Mechanical Engineering, University College of Engineering, Jawaharlal Nehru Technological University Kakinada, Kakinada-533003, Andhra Pradesh, India. -----</p> <p>2)Kalyana Manohar Veeramallu Address of Applicant :Assistant Professor, Department of Mechanical Engineering, University College of Engineering, Jawaharlal Nehru Technological University Kakinada, Kakinada-533003, Andhra Pradesh, India. -----</p> <p>3)Dandamudi Poorna Sankara Prasad Address of Applicant :Academic Advisor, School of Health Sciences and Research, Jawaharlal Nehru Technological University Kakinada, Kakinada-533003, Andhra Pradesh, India. -- -----</p>
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(57) Abstract :

ABSTRACT: Title: Two-Wheeler Ambulance with Rotating Pillion Mechanism for Remote Emergencies The present disclosure proposes a two-wheeler ambulance with rotating pillion mechanism for remote emergencies that provides comfortable ascending and descending of patients. The two-wheeler ambulance with rotating pillion mechanism comprises a base frame 101, a rotatable shaft 102, a pillion support frame 103, a pillion seat (not shown), a locking lever 104, and a load stand (not shown). The proposed two-wheeler ambulance with a special pillion seat provides support to emergency patients. The proposed two-wheeler ambulance is compact, simple in design, stable, durable and robust. The proposed two-wheeler ambulance travels fast even in narrow path and transport the emergency patients to hospital in time.

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

(54) Title of the invention : VACCINE FOR LEPTOSPIROSIS AND PREPARATION METHOD FOR THE SAME

(51) International classification :A61K003900000, A61K003902000, A61K003912000, C12N000912000, C07K001420000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
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15)Dr.Sinha Ashutosh Kumar

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(57) Abstract :

ABSTRACT: Title: Vaccine for Leptospirosis and Preparation Method for the Same The present disclosure proposes a vaccine for leptospirosis and its preparation method. The proposed method develops a whole-cell killed formalin treated vaccine for Leptospirosis. The developed whole-cell killed formalin treated vaccine is effective against epidemic and endemic cases of leptospirosis. The proposed vaccine shows a significant increase in the serum profile and provides effective increase in antibody levels. The proposed whole-cell killed formalin treated monovalent vaccine is prepared using Leptospira icterohaemorrhagiae and trivalent vaccine is prepared using Leptospira icterohaemorrhagiae, Leptospira louisiana, and Leptospira hebdomadis.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048603 A

(19) INDIA

(22) Date of filing of Application :25/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : LOW-COST AUTOMATIC DISPENSER FOR HAND SANITIZER

<p>(51) International classification :A47K0005120000, A61Q0019100000, B65D0083260000, A23G0009280000, A47K0010360000</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)Akkala Abhilasha Address of Applicant :Department of computer science and engineering, Cheeryal Village, Kesara mandal, Hyderabad-501301, Telangana, India. -----</p> <p>2)Avinash seekoli Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Akkala Abhilasha Address of Applicant :Department of computer science and engineering, Cheeryal Village, Kesara mandal, Hyderabad-501301, Telangana, India. -----</p> <p>2)Avinash seekoli Address of Applicant :St. Martin's engineering college, Department of computer science and engineering, Dulapally, Near Kompally, Hyderabad-500014, Telangana, India. ----- -----</p>
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(57) Abstract :

ABSTRACT: Title: Low-Cost Automatic Dispenser for Hand Sanitizer The present disclosure proposes a low-cost automatic dispenser for hand sanitizer. The low-cost automatic dispenser for hand sanitizer simple utilizes inexpensive electronic components and dispenses sanitizer automatically. The automatic dispenser utilizes simple and low-cost electronic components to reduce the overall cost of the automatic dispenser. The proposed low-cost automatic dispenser for hand sanitizer is user friendly.

No. of Pages : 10 No. of Claims : 8

(54) Title of the invention : HALYMENIA PORPHYROIDES BASED BIOSYNTHESIZED NANOPARTICLE COMPOSITION FOR ANTI-TUMOR ACTIVITY

(51) International classification :H05K0001090000, A61K0008600000, A61K0031120000, A61K0045060000, G01N0033574000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT: Title: Halymenia Porphyroides Based Biosynthesized Nanoparticle Composition for Anti-Tumor Activity The present disclosure proposes a halymenia porphyroides based biosynthesized nanoparticle composition for anti-tumor activity. The proposed effective biosynthesized silver nanoparticle composition is derived from marine red seaweed halymenia porphyroides for cancerous tumors. The proposed low-cost halymenia porphyroides based biosynthesized nanoparticle composition for anti-tumor activity is efficient against cancerous tumors. The biosynthesized nanoparticle composition increases haematological factors, decreases white blood cells, increases haemoglobin, red blood cells, platelets and normalcy biochemical factors. The biosynthesized nanoparticle composition exhibits significant anti-tumor activity, reduces tumour cell count, and packed cell volume. The proposed halymenia porphyroides based biosynthesized nanoparticle composition exhibits significant reduction in body weight, packed cell volume, and viable tumor cell count.

(54) Title of the invention : HALYMENIA PORPHYROIDES BASED BIOSYNTHESIZED NANOPARTICLE COMPOSITION FOR DIABETES

<p>(51) International classification :A61K0009140000, H05K0001090000, C10L0001020000, A61K0045060000, A61K0009127000</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.Vishnu Kiran Manam Address of Applicant :Scientist - R&D, Technical, Hybrid Ebi hatcheries Pvt Ltd, Bmr Group, Anumadaikuppam, Anumandai, Marakkanam Taluk, Vilupuram-604303, Tamil Nadu, India. ----- 2)Puli Kalpana 3)Dr.Aruna Kumari Nakkella 4)Dr.D.Jayarajan 5)Mr.Ashish Kumar Pandey 6)Dr.Aparna B.Dhote 7)Dr.Satish Babulal Jadhav 8)Dr.Sumanta Bhattacharya 9)Mr.G.Chinna Pullaiah 10)Dr.Jorige Archana 11)Prof.K.Basavaiah 12)Dr.S.Sarojini 13)Dr.B.Jayanthi Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.Vishnu Kiran Manam Address of Applicant :Scientist - R&D, Technical, Hybrid Ebi hatcheries Pvt Ltd, Bmr Group, Anumadaikuppam, Anumandai, Marakkanam Taluk, Vilupuram-604303, Tamil Nadu, India. -- 2)Puli Kalpana Address of Applicant :Managing Director, Dr Yellapragada Lifesciences, 8916, Lig -1, Tnhb, Ayappakkam, Chennai-600077, Tamil Nadu, India. ----- 3)Dr.Aruna Kumari Nakkella Address of Applicant :Assistant Principal, Dr.BR Ambedkar University, Srikakulam, Rajamahendravaram-533103, Andhra Pradesh, India. ----- 4)Dr.D.Jayarajan Address of Applicant :M.Sc., Ph.D. Professor, Dept of Medical Laboratory Technology, Chandigarh University, Mohali-140413, Punjab, India. ----- 5)Mr.Ashish Kumar Pandey Address of Applicant :Associate Professor, Faculty of Pharmaceutical Science, Shri Shankaracharya Technical Campus, Bhilai-490020, Chhattisgarh, India. ----- 6)Dr.Aparna B.Dhote Address of Applicant :Neelkanthrao Shinde Science and Arts College, Bhadravati-442902, Maharashtra, India. ----- 7)Dr.Satish Babulal Jadhav Address of Applicant :Department of Chemistry, R. B. Attal Art's Science and Commerce College, Ahilya Nagar, Beed Road, Georai Tq. Georai, Beed-431127, Maharashtra, India. ----- 8)Dr.Sumanta Bhattacharya Address of Applicant :Research fellow and policy analyst, Department of science and technology and biotechnology, MAKAUT, BF Block, Sector 1, Bidhannagar, Kolkata-700064, West Bengal, India. ----- 9)Mr.G.Chinna Pullaiah Address of Applicant :Assistant Professor, CSE & NSS Programme Officer, Srinivasa Ramanujan Institute of Technology, Rotarypuramu, B. K. Samudramu, Ananthapuramu-515701, Andhra Pradesh, India. ----- 10)Dr.Jorige Archana Address of Applicant :16-11-16/C/G/26,27,28 Ganga Towers, Flat No.302, Afzal Nagar, Malakpet, Hyderabad-500036, Telangana, India. ----- 11)Prof.K.Basavaiah Address of Applicant :Professor, Inorganic and Analytical Chemistry, Andhra University, Visakhapatnam-530003, Andhra Pradesh, India. ----- 12)Dr.S.Sarojini Address of Applicant :Professor & Principal, Shri venkateshwara college of pharmacy, Department of Pharmaceutics, Ariyur, Puducherry-605102, India. ----- 13)Dr.B.Jayanthi Address of Applicant :Assistant Professor, Department of Pharmacy, Annamalai university, Chidambaram-608002, Tamil Nadu, India. -----</p>
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(57) Abstract :

ABSTRACT: Title: Halymenia porphyroides Based Biosynthesized Nanoparticle Composition for Diabetes The present disclosure proposes a halymenia porphyroides based biosynthesized nanoparticle composition for diabetes with significant anti-diabetic activity. The proposed effective biosynthesized silver nanoparticle composition is derived from marine red seaweed halymenia porphyroides for diabetes. The proposed biosynthesized nanoparticle composition aids in reduction of fasting blood glucose levels, cholesterol levels, triglycerides, low-density lipoprotein, and phospholipids.

No. of Pages : 22 No. of Claims : 5

(54) Title of the invention : FALLING CAT INSPIRED INTELLIGENT QUADRUPEDAL ROBOT TO ASSIST PEOPLE DURING RISKY MOUNTAIN TREKKING

<p>(51) International classification :G06N0003040000, B25J0009160000, B62D0057032000, B66B0005280000, B62H0001100000</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.S.Balamurugan Address of Applicant :No.21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India ----- 2)JANGA VENKATA SOMI REDDY 3)MS. E. DIVYA 4)DR. GARIMA PARKASH 5)DR. ARVIND KUMAR 6)MR.MOHAMMED FIRDOS ALAM SHEIKH 7)DR.T.KUMARESAN 8)DR.ARUL KUMAR N 9)DR.RAVI KUMAR 10)DR.SUSHMA JAISWAL 11)TARUN JAISWAL Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.S.Balamurugan Address of Applicant :No.21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India ----- 2)JANGA VENKATA SOMI REDDY Address of Applicant :Doctoral Student (PhD Student), Mechanical Engineering, Universiti Teknologi PETRONAS, Persiaran UTP, 32610 Seri Iskandar, Perak, Malaysia. ----- 3)MS. E. DIVYA Address of Applicant :Assistant Professor, Shri Krishnaswamy College For Women, Ac- 48 , 6th Main Road , Shanthi Colony , Anna Nagar , Chennai – 600040, India ----- 4)DR. GARIMA PARKASH Address of Applicant :Sushant University, Gurugram, Haryana- 122003, India ----- 5)DR. ARVIND KUMAR Address of Applicant :Department of Mechanical Engineering, Chandigarh Engineering College Jhanjeri, Mohali, Punjab- 140307, India ----- 6)MR.MOHAMMED FIRDOS ALAM SHEIKH Address of Applicant :Head& Assistant Professor Computer Science & Engineering, SS College of Engineering, Udaipur, Rajasthan-313003, India ----- 7)DR.T.KUMARESAN Address of Applicant :Lecturer (Sr.Grade), Dept of Mechanical Engineering, PSG PTC, Peelamedu, Coimbatore-641004, Tamilnadu, INDIA ----- 8)DR.ARUL KUMAR N Address of Applicant :Assistant Professor, Department of Computer Science, CHRIST (Deemed to be University), Bangalore, Karnataka 560029, India ----- 9)DR.RAVI KUMAR Address of Applicant :Department of Electronics and Communication Engineering, Jaypee University of Engineering and Technology, A.B. Road, Raghogarh, Guna-473226. (Madhya Pradesh), India. ----- 10)DR.SUSHMA JAISWAL Address of Applicant :Assistant Professor, Department of Computer Science & Information Technology (CSIT), Guru Ghasidas Vishwavidyalaya, (A Central University), Koni, Bilaspur, (C.G.), India, 495009 ----- 11)TARUN JAISWAL Address of Applicant :Research Scholar, Department of Computer Application, National Institute of Technology (NIT) G.E. Road, Raipur (C.G), Chhattisgarh, Pin 492010, India -----</p>
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(57) Abstract :
A falling cat always goes from feet-up position to feet-down position, in a falling reference frame without violating the conservation of angular momentum. The first thing a cat does while falling is figuring out which way is up. This is capable using the gyro in the cats ears. Research shows that the safe landing of a falling cat is due to a phenomenon called cat riding reflex. Once a cat falls, it divides its body into two separate rotational axes that are tilted from one another. During falling the front part is released with decreased moment of inertia so that it can spin faster. At the back the moment of inertia is increased, so that a large twist in the front part is equivalent to the smaller twist in the latter. Cat extends its legs to increase the moment of inertia and extends its back legs along the rear axis, which allows fast twisting and finally extends all four legs while landing. Similar type of movement could be performed by a quadrupedal robot so that they can save people when they are about to fall down during risky mounting trekking. For the robot to mimic the falling cat mechanism it is to be trained for trajectory optimization. A neural network is trained to imitate the trajectory optimizer using supervised learning. The convolution neural network takes the orientation of robot as input and gives a stability based output to land the robot on its feet.

(54) Title of the invention : CLOUD AND IOT BASED SMART FOREST FIRE DETECTION AND WARNING SYSTEM.

<p>(51) International classification :A62C0027000000, G08B0017000000, A62C0003020000, G06Q0010060000, G08B0017060000</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)Arumugam Ranjith Address of Applicant :32 B Mazhuppan street ----- 2)Dr.Revathi.R 3)Dr. VINAY M 4)Dr.P.Srividya Devi 5)Dr.S.Sumithra 6)Mr. Y. M. MAHABOOBJOHN 7)Dr.Rajnish Bhasker 8)Dr.Rajnish Bhasker 9)Dr. Laxmi Kirana Pallathadka 10)Dr. Arun Kumar Pallathadka 11)Dr. Harikumar Pallathadka Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.Revathi.R Address of Applicant :Assistant Professor Karpagam Academy of Higher Education,Coimbatore 641037, TamilNadu , India ----- 2)Dr. VINAY M Address of Applicant :ASSISTANT PROFESSOR CHRIST (Deemed to be University)Department of Computer Science ,HOSUR ROAD ,BANGALORE, KARNATAKA , INDIA ----- 3)Dr.P.Srividya Devi Address of Applicant :Associate Professor Gokaraju Rangraju Institute of Engineering and Technology, Hyderabad 500072 ,Telangana,India ----- 4)Dr.S.Sumithra Address of Applicant :Professor /HOD J.J.College of Engineering and technology. 620009, Tamilnadu ,India ----- 5)Mr. Y. M. MAHABOOBJOHN Address of Applicant :ASSISTANT PROFESSOR MAHENDRA COLLEGE OF ENGINEERING MINNAMPALLI, SALEM ,636106 TAMILNADU ,INDIA ----- 6)Dr.Rajnish Bhasker Address of Applicant :Assistant professor Uma Nath Singh institute of engineering and technology (department of Electrical engineering) veer Bahadur Singh Purvanchal University jaunpur , 222003,U.P, India ----- 7)Dr.Rajnish Bhasker Address of Applicant :Assistant professor Uma Nath Singh institute of engineering and technology (department of Electrical engineering) veer Bahadur Singh Purvanchal University jaunpur. 222003 ,U.P , India ----- 8)Dr. Laxmi Kirana Pallathadka Address of Applicant :Research Officer Manipur International University, Ghari, Imphal, Imphal West, Manipur, India ,795140, ----- 9)Dr. Arun Kumar Pallathadka Address of Applicant :Adjunct Director Center for Polar Studies, Manipur International University, Ghari, Imphal, Imphal West, Manipur, India ,795140. ---- 10)Dr. Harikumar Pallathadka Address of Applicant :Director Manipur International University, Ghari, Imphal, Imphal West, Manipur , India ,795140 -----</p>
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(57) Abstract :
The development of modern industrial civilizations has caused in the establishment of manufacturing plants, office buildings, and housing blocks throughout urban parts. Because of the combustible substances contained in these facilities, there are gas and oil tanks all over these areas. Because of the densely packed buildings, extreme heat and smoke, and the possibility of explosives, putting out a fire in one of these places is nearly impossible. Currently, wildfires are extinguished using human-powered firefighting methods such as deluge cannons and chemical fire suppression equipment. Firefighting robots are a good fit for construction sites and industrial settings where humans are unable to perform their duties effectively. In recent years, researchers have made significant progress in fire-fighting robot research to deal with fire-related disasters in many countries. Forest fires are becoming more intense on a daily basis, and NodeMCU Internet of Things technology can detect and predict this. Interfacing a temperature sensor with a DTH11 humidity sensor is required in this project to detect changes in temperature and humidity caused by the fire. The sensor's output can be stored indefinitely using Thingspeak. The data is stored in the cloud by Thingspeak. To identify a fire, temperature and humidity data are used to perform an analysis based on a threshold value. As soon as it is discovered, an email with sensor values and an estimated time of when the fire will break out is sent out

(54) Title of the invention : ADVANCE AND HIGH SENSITIVE PHOTONIC CRYSTAL MACH-ZEHNDER-INTERFEROMETER BASED PRESSURE-SENSOR.

<p>(51) International classification :G02F0001225000, G02B0006122000, G01L0009000000, C04B0035645000, C22C0009000000</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. Venkateswara Rao Kolli Address of Applicant :Electronics and Communication Engineering, Malnad College of Engineering, Salagame Road, Hassan-573202, Karnataka, India -----</p> <p>2)Dr. Dudla Prabhakar 3)Dr. Srinivas Talabattula</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Venkateswara Rao Kolli Address of Applicant :Electronics and Communication Engineering, Malnad College of Engineering, Salagame Road, Hassan-573202, Karnataka, India -----</p> <p>2)Dr. Dudla Prabhakar Address of Applicant :Department of Electronics and communication Engineering, Sheshadri Rao Gudlavalleru Engineering College (A), Gudlavalleru, Krishna District, AP - 521356. India -----</p> <p>3)Dr. Srinivas Talabattula Address of Applicant :Professor, Electrical Communication Engineering, Indian Institute of Science, Bangalor 560 012, India -----</p>
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(57) Abstract :

ABSTRACT Our Invention Advance and high Sensitive Photonic Crystal Mach-Zehnder-Interferometer Based Pressure-Sensor is displayed and dissected in this work. Investigation of the pressure sensor is completed in two stages. The FEM is utilized for the pressure investigation of the MZI. The FDTD-technique is done for dissecting the electromagnetic field qualities of MZI resonator. This gadget works with the rule that when the light engenders in two of its arms, light goes through a stage distinction in the event that one of its arms has contrasted in optical length from the other. The time taken by the light proliferating along the more extended arm is bigger than that of the more limited arm. The surface normal pressure is assessed for the applied pressure utilizing the FEM strategy. The frequency shift is noticed for the applied pressure at the yield port of the PC MZI. The frequency goal of 2.25 nm per 1 MPa applied pressure and the Q-factor of 7100 is gotten.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048719 A

(19) INDIA

(22) Date of filing of Application :25/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MAR SECURITY: IMPROVED SECURITY MECHANISM FOR EMERGENCY MESSAGES OF VANET USING GROUP KEY MANAGEMENT & CRYPTOGRAPHY SCHEMES (GKMC)

<p>(51) International classification :H04L0009080000, H04W0084180000, H04L0029080000, H04L0029060000, G06F0021530000</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)Mr. Mahabaleshwar Kabbur Address of Applicant :Research Scholar, School of Computer Science and Applications, REVA University. Bengaluru-64, India ----- 2)Dr. Anand R 3)Dr. S. Senthil Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Mahabaleshwar Kabbur Address of Applicant :Research Scholar, School of Computer Science and Applications, REVA University. Bengaluru-64, India ----- 2)Dr. Anand R Address of Applicant :Associate Professor, School of Computer Science and Applications REVA University. Bengaluru-64, India. ----- 3)Dr. S. Senthil Address of Applicant :Professor and Director, School of Computer Science and Applications, REVA University, Bengaluru-64, India. -----</p>
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(57) Abstract :

ABSTRACT Our Invention MAR SECURITY: IMPROVED SECURITY MECHANISM FOR EMERGENCY MESSAGES OF VANET USING GROUP KEY MANAGEMENT & CRYPTOGRAPHY SCHEMES (GKMC) Vehicular Ad-hoc network (VANET) is one of the arising innovations for research local area to get different examination difficulties to build got system for independent vehicular correspondence. The great worry of this innovation is to give proficient information correspondence among enrolled vehicle hubs. The few exploration thoughts are executed for all intents and purposes to work on by and large correspondence in VANETs by thinking about security and protection as significant parts of VANETs. A few instruments have been carried out utilizing cryptography calculations and strategies. In any case, these instruments give an answer just to some confined conditions and to restricted security dangers. Henceforth, the proposed novel system has been presented, executed and tried utilizing key administration method. It gives tied down network climate to VANET and its parts. Afterward, this component gives security to information bundles of crisis messages utilizing cryptography instrument. Henceforth, the proposed novel component is named Group Key Management and Cryptography Schemes (GKMC). The exploratory examination shows huge enhancements in the organization execution to give security and protection to crisis messages. This GKMC component will help the VANET clients to perform gotten crisis message correspondence in network climate.

No. of Pages : 19 No. of Claims : 6

(54) Title of the invention : STOCK TRADING: INTELLIGENT COMPLEX STOCK TRADING USING MACHINE LEARNING AND DEEP LEARNING.

<p>(51) International classification :G06K0009620000, G06Q0040040000, G06N0003040000, G06Q0040060000, G06N0005000000</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)Madan Kumar Address of Applicant :C Madan Kumar, Assistant Professor, Computer Science and Engineering, Kakatiya Institute of Technology and Science, Warangal-506015, Telangana, India. ----- 2)Niranjan 3)Shankar 4)Ravinder Reddy 5)Durga Devi 6)Sravanthi 7)Moeed 8)Ashmitha Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Madan Kumar Address of Applicant :C Madan Kumar, Assistant Professor, Computer Science and Engineering, Kakatiya Institute of Technology and Science, Warangal-506015, Telangana, India. ----- 2)Niranjan Address of Applicant :P Niranjan, Professor, Computer Science and Engineering, College: Kakatiya Institute of Technology and Science, Warangal-506015, Telangana, India. ----- 3)Shankar Address of Applicant :V Shankar, Professor, Computer Science and Engineering, Kakatiya Institute of Technology and Science, Warangal-506015, Telangana, India. ----- 4)Ravinder Reddy Address of Applicant :R Ravinder Reddy, Associate Professor, Computer Science and Engineering, Chaitanya Bharathi institute of Technology, CBIT, Gandipet, Hyderabad, India. ----- 5)Durga Devi Address of Applicant :S Durga Devi, Assistant Professor, Computer Science and Engineering, Chaitanya Bharathi institute of Technology, CBIT, Gandipet, Hyderabad, India. ----- 6)Sravanthi Address of Applicant :S. Sravanthi, Assistant Professor, Computer Science and Engineering, Kakatiya Institute of Technology and Science, Warangal-506015, Telangana, India. ----- 7)Moeed Address of Applicant :Syed Abdul Moeed, Assistant Professor, Computer Science and Engineering, Kakatiya Institute of Technology and Science, Warangal-506015, Telangana, India. ----- 8)Ashmitha Address of Applicant :G. Ashmitha, Assistant Professor, Computer Science and Engineering, Kakatiya Institute of Technology and Science, Warangal-506015, Telangana, India. -----</p>
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(57) Abstract :
ABSTRACT Our Invention Stock Trading: Intelligent Complex Stock Trading using Machine Learning and Deep Learning is a Monetary business sectors are innately flighty. They keep on changing dependent on the presentation of the organization, past records, market esteem and are likewise reliant upon news and timings. Via completing pattern examination, one can prejudge stock costs. AI Techniques that are accessible, can possibly conjecture future stock costs. Each stock addresses an alternate pattern, so a solitary AI ML, DL model can't be relevant to different stocks. Along these lines, one model giving a serious level of accuracy can't ensure chipping away at another. An excessive number of factors are involved while anticipating stocks actual components versus mental, silly and objective conduct, and so on These components joined demonstrate stock costs as fanciful and hard to anticipate. for example, Averaging, Linear Regression including progressed profound learning strategies, for example, Long-Term Short Memory and applying specialized devices like the Modern Portfolio Theory and Bollinger groups. The idea of securities exchange development has consistently been uncertain for financial backers on account of different compelling variables. This review analyzes nine AI models (Decision Tree, Random Forest, Adaptive Boosting (AdaBoost), eXtreme Gradient Boosting (XGBoost), Support Vector Classifier (SVC), Naïve Bayes, K-Nearest Neighbors (KNN), Logistic Regression and Artificial Neural Network (ANN)), ML and DL two amazing profound learning strategies (Recurrent Neural Network (RNN) and Long momentary memory (LSTM)).

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

(54) Title of the invention : WASTEWATER QUALITY IMPROVEMENT VIA NANOPARTICLE COATED POLYMER FILTER

(51) International classification :A01N0037060000, C08G0073020000, H01B0001120000, G01M0015040000, C07D0333240000

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

(87) International Publication No : NA

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

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Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

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Address of Applicant :. -----

(57) Abstract :

Nanoparticles have long been utilized throughout a wide variety of sectors. The effluent cleanliness significantly improved using synthetic polyolefin filtration enhanced using sensor conducting polymers throughout the research experiment. Harmonic combination thermal spectrometry as well as penetrating electrons microscope were used to investigate overall influence from spraying technique various important factors affecting the polymeric structure. These observations indicated showed these corn monomers were evenly produced. Overall diameter these produced nanocrystals found reported at a range between Fifty and 125 nanometers. Utilizing a unique centralized compound structure, overall influence both overall frequency successive recurrent filtrations with overall screen elevation upon enhancing overall effluent stream cleanliness were studied. During filtering, the overall condition of collected effluent sewage has been assessed using a spectrophotometer, molecular chromatographic, including additional instruments including example commercial metabolic oxygenation requirement monitor with commercial salinity meters. These findings showed overall filtering effectiveness was important in improving characteristics like percent dissolving particles. This seems desired to remove biological oxygenation requirement, chemistry oxygenation customer, pigment, saltiness, harshness, alkalinity, other organic compounds. Following information modeling, the overall best-filtered height was found to be 3.8 cm, whereas overall best repetition during filtering was found to be eighth rounds employing simple graphics technique. This developed filtration has shown an extremely outstanding capacity for enhancing effluent cleanliness therefore may being employed in freshwater but also sewerage refinement devices, according to these findings.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048736 A

(19) INDIA

(22) Date of filing of Application :25/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DESALINATION OF SEA WATER USING ULTRA HIGH REVERSE OSMOSIS TECHNOLOGY

<p>(51) International classification :B01D0003060000, C02F0103080000, C02F0001040000, C02F0001440000, C02F0001060000</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)Francis Xavier Engineering College Tirunelveli Address of Applicant :The Principal, Francis Xavier Engineering College, 103/G2, Bypass Road, Vannarpettai, Tirunelveli-627003, Tamil Nadu, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.I.Neethi Manickam Professor & Head Department of Mechanical Engineering Francis Xavier Engineering College Tirunelveli Address of Applicant :Dr.I.Neethi Manickam Professor & Head Department of Mechanical Engineering, Francis Xavier Engineering College, Tirunelveli -----</p> <p>2)Dr.R.Samuel Hansen Professor Department of Mechanical Engineering Francis Xavier Engineering College Tirunelveli Address of Applicant :Dr.R.Samuel Hansen Professor, Department of Mechanical Engineering, Francis Xavier Engineering College, Tirunelveli -----</p>
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(57) Abstract :

Reverse osmosis is the leading technology for desalination of brackish water and seawater, important for solving the growing problems of fresh water supply. Using this technology a system is proposed in which the water is forced against semi-permeable membranes under pressure in a continuous flow condition. Thermal technologies such as multi-effect distillation and multi-stage flash distillation are used for this process. They consume substantial amounts of energy, generally obtained from fossil fuels, due to their low efficiency. Hybridization is a strategy that seeks to reduce the weaknesses and enhance the advantages of each element that makes it up. This research work introduces integration of renewable energies as a requirement to decarbonize desalination processes. Different configurations provide improvements in key elements of the system to reduce energy consumption, brine production, and contamination, while improving product quality and production rate.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048737 A

(19) INDIA

(22) Date of filing of Application :25/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN ECO-FRIENDLY CONCRETE BRICKED SOLAR DISTILLATION SYSTEM

(51) International classification :C02F0001140000, B01D0005000000, C02F0001040000, B01D0001000000, C02F0001180000

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

(87) International Publication No : NA

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

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

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2)Dr.I.Neethi Manickam | Professor & Head | Department of Mechanical Engineering |

Address of Applicant :Dr.I.Neethi Manickam Professor & Head Department of Mechanical Engineering, Francis Xavier Engineering College, Tirunelveli -----

(57) Abstract :

A solar distillation system is designed using concrete bricks and waste plastic materials. The system comprises of a stepped solar still for converting the input saline water collected in trays into distilled water. The basin is fabricated using a thick iron sheet encased in a wooden box. The entire basin is painted black to prevent loss of heat. The solar still comprises of a glass cover inclined at an angle, thereby facilitating condensation and sliding down of water vapour to a collection tank. The area of the basin between the trays and the wooden box is filled with saw dust for preventing the loss of heat through conduction in the sides. The system is eco-friendly having features for easy installation and simple to maintain.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048738 A

(19) INDIA

(22) Date of filing of Application :25/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DEVELOPMENT OF THE BUSINESS MODEL OF THE COLLABORATIVE E-MARKETPLACE

<p>(51) International classification :G06Q0010100000, G06Q0030020000, G06Q0030060000, G06Q0010060000, G06F0111020000</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)B. Meenakshi Sundaram Address of Applicant :Assistant professor, Subbalakshmi Lakshmiipathy College of Science, TVR Nagar, Aruppukottai Road, Eliyarpathi, Madurai - 625022 Tamilnadu -----</p> <p>2)Dr.S.Thangamayan 3)Dr.S. Kavitha 4)Dr.S. Suguna 5)Dr.S.Mahalakshmi 6)Dr.S. Senthilraja 7)Dr M Jayanthi 8)A.Sahana 9)Dr. Ravi Shankar C 10)Dr.C.Kathiravan Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)B. Meenakshi Sundaram Address of Applicant :Assistant professor, Subbalakshmi Lakshmiipathy College of Science, TVR Nagar, Aruppukottai Road, Eliyarpathi, Madurai - 625022 Tamilnadu -----</p> <p>2)Dr.S.Thangamayan Address of Applicant :Assistant Professor College Name with address: Saveetha School of Law, Saveetha University, Chennai-600077. Tamilnadu -----</p> <p>3)Dr.S. Kavitha Address of Applicant :Assistant Professor, PG and Research Department of Commerce Padmavani Arts & Science College for Women, Salem -636011 Tamil Nadu -----</p> <p>4)Dr.S. Suguna Address of Applicant :Assistant Professor PG and Research, Department of Commerce. Salem Sowdeswari College, Salem- 636010, Tamil Nadu -----</p> <p>5)Dr.S.Mahalakshmi Address of Applicant :Assistant Professor, Department of Corporate Secretaryship, Salem Sowdeswari College, Salem-636010 Tamil Nadu -----</p> <p>6)Dr.S. Senthilraja Address of Applicant :Assistant Professor PG and Research Department of Economics, Kandaswamy Kandar's College Paramathi Velur, Namakkal (DT)- 638182 Tamil Nadu -----</p> <p>7)Dr M Jayanthi Address of Applicant :Assistant professor Kongu Arts and Science College (Autonomous), Nanjanapuram, Erode-638107 Tamilnadu -----</p> <p>8)A.Sahana Address of Applicant :ASSOCIATE PROFESSOR Department of MBA, The Oxford College of Engineering, Bommanahalli, Hosur Road, Bangalore- 560068 KARNATAKA -----</p> <p>9)Dr. Ravi Shankar C Address of Applicant :Associate Professor College Name with address: Dr.G.R.Damodaran College of Science, Avinashi Road, Civil Aerodrome Post, Coimbatore-641014 Tamilnadu -----</p> <p>10)Dr.C.Kathiravan Address of Applicant :Associate Professor, Department of Business Administration, Business Analytics, Annamalai University Tamilnadu - 608001 -----</p>
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(57) Abstract :

[019] The contribution concerns entrepreneurs (or companies in general) who wish to invest in an innovative idea of the Internet economy, with the aim of commercializing the proposed collaborative e-marketplace. In this dimension, the work offers a lot of useful information that could be used, as it practically presents the basic structure of two alternative business models of cooperative e-markets. In both cases, the benefits to the main target group (very small commercial enterprises) are taken for granted, as they would be offered a customized collaborative environment that would support their needs. During the presentation of the business models, the characteristics of the companies that would make it more appropriate to undertake each project.

[020] Especially with regard to the selected procurement platform, since the market manager is an IT company, there is the possibility of promoting more than one solution at the same time. In practice, an IT company could develop ERP-type software and the portal of vertical collaboration and provide both solutions to the businesses of the target population, covering both the needs of computerization and the needs of collaboration. Therefore, in this scenario, greater commercial opportunities for IT companies appear, while at the same time promoting a solution that serves in a comprehensive way the information support needs of very small companies. Accompanied Drawing [FIG. 1]

No. of Pages : 23 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048739 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : APPARATUS FOR SPERM WASHING PROCESS USING DENSITY GRADIENT CENTRIFUGATION

(51) International classification :G01N0033574000, B01L0003000000, C12N0005076000, G01N0033580000, B04B0005040000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

Please see attached specification.

No. of Pages : 28 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048740 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : DUAL LATERAL FLOW ASSAY WITH GOLD NANOPARTICLE FOR PRESUMPTIVE IDENTIFICATION OF ORAL CANCER

<p>(51) International classification :C12Q0001688600, G01N0033680000, G01N0033574000, C07K0016280000, 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)Dr. Sree T. Sucharitha, KAIROS KINETIC (OPC) Pvt Ltd Address of Applicant :CEO-Founder, KAIROS KINETIC (OPC) Pvt Ltd, Chennai, India. ----- 2)Dr.I.Kannan, KAIROS KINETIC (OPC) Pvt Ltd 3)Dr. K.A.Varun Kumar, SRM Institute of Science and Technology Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Sree T. Sucharitha, KAIROS KINETIC (OPC) Pvt Ltd Address of Applicant :CEO-Founder, KAIROS KINETIC (OPC) Pvt Ltd, Chennai, India. ----- 2)Dr.I.Kannan, KAIROS KINETIC (OPC) Pvt Ltd Address of Applicant :CTO, KAIROS KINETIC (OPC) Pvt Ltd Chennai, India. ----- 3)Dr. K.A.Varun Kumar, SRM Institute of Science and Technology Address of Applicant :Assistant Professor, Department of Networking and Communications, School of Computing, SRM Institute of Science and Technology, Kattankulathur ----- -----</p>
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(57) Abstract :
Biomarkers are broadly classified as genomic, proteomic, or metabolomics. Molecular biology and oncology research studies on oral cancer biomarkers focus on identifying key biological molecules or markers that could be linked to cancer development, risk assessment, screening, recurrence prediction, indicating prognosis, indicating invasion/metastasis and monitoring therapeutic responses of cancer. Cluster of differentiation factor 34 is a salivary biomarker that can identify recurrence potential of oral squamous cell carcinoma (OSCC). Integrin $\alpha 3$ and integrin $\beta 4$ are genomic biomarkers that are helpful in estimating the risk of regional and hematogenous dissemination of malignant oral squamous cells. Other examples are vascular endothelial growth factor, B-cell lymphoma-2, claudin 4, yes-associated protein 1 and MET proto-oncogene, and receptor tyrosine kinase, which are genomic biomarkers that are used to predict radio-resistance in OSCC tissue. The data set raise the possibility that saliva-based studies may hold promise as a cancer screening platform. This research also discusses some of the challenges and current limitations of developing biomarkers to screen not only for oral premalignancy and early cancer but for human papillomavirus-related oropharyngeal neoplasia as well.

No. of Pages : 6 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048792 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : A STRUCTURE FOR CONSTRUCTION BLOCKS AND A METHOD THEREOF

(51) International classification :E04B0002020000, E04B0002180000, F28D0021000000, E02D0029020000, E04B0002260000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

A structure for multiple construction blocks is disclosed. The structure includes the multiple construction blocks with at least four sides, a top periphery, a bottom periphery, multiple hollow structures (50), and multiple protrusions (90). The multiple hollow structures (50) include a first end being closed and a second end being opened and positioned in a predefined manner on an inner surface (80) of the at least four sides, with the corresponding first end and the corresponding second end being in alignment with the top periphery and the bottom periphery respectively. The multiple protrusions (90) are attached to the first end of the corresponding multiple hollow structures (50), facing outwardly from the top periphery. The multiple hollow structures (50) and the multiple protrusions (90) are adapted to perform an interlocking mechanism between the multiple construction blocks for constructing a wall (100). FIG. 1

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048794 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN APPARATUS FOR COOKING AND A METHOD TO OPERATE THE SAME

<p>(51) International classification :H01M0008061200, H04W0004000000, F23N0001020000, A63B0022060000, A63B0024000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to :NA Application Number :NA Filing Date</p> <p>(62) Divisional to :NA Application Number :NA Filing Date</p>	<p>(71)Name of Applicant : 1)STUPIFY LABS PRIVATE LIMITED Address of Applicant :D.NO: 6-60, SAI NIRANJAN COLONY, LAKSHMIPURAM, VEPAGUNTA, VISAKHAPATNAM, 530047, ANDHRA PRADESH, INDIA --- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SRIRANGAM NALLAN CHAKRAVARTHULA ARUN KUMAR Address of Applicant :STUPIFY LABS PRIVATE LIMITED; D.NO: 6-60, SAI NIRANJAN COLONY, LAKSHMIPURAM, VEPAGUNTA, VISAKHAPATNAM, 530047, ANDHRA PRADESH, INDIA ----- 2)SURISETTY TEJA Address of Applicant :B-309, SPLENDID LAKEDEWS, VITTASANDRA ROAD, BEGUR, OPP. BEGUR SUB POST OFFICE, BANGALORE, 560068, KARNATAKA, INDIA ----- -----</p>
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(57) Abstract :

An apparatus (10) for cooking and a method (500) to operate the same is provided. The apparatus includes an ingredient feeding unit (20) including valves to provide user defined quantity of food components. The apparatus includes a water feeding unit (30) including the valves to provide the user defined quantity of water. The apparatus includes a cooking unit (40) including a stirrer to clean the food components held in a container (50). The cooking unit includes a heat source (60) to provide heat energy to a cooking vessel (70) to cook the food components and the water. The system includes a microcontroller (80) to control the valves based on a signal received from a user control device. The microcontroller is to regulate the heat source. The system includes a processing unit to send the user preference to the microcontroller to control the valves. The processing unit is to communicate the user preference to the microcontroller to regulate the heat source. FIG. 1

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : DISTRACTION AND DROWSINESS DETECTION DEVICE FOR DRIVERS AND METHOD EMPLOYED THEREOF

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(51) International classification	:A61B0005180000, G08B0021060000, B60Q0009000000, G08B0003100000, H04M0001725000	
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :

Exemplary embodiments of the present disclosure are directed towards a distraction and drowsiness detection device for drivers and method employed thereof. The device includes a MPU6050 module is attached to a cap, whereby the MPU6050 module is configured to detect the angles of the head then the head is deviated in any angle for more than 3 seconds. The device further includes an Arduino Uno is connected to the MPU6050 module, whereby the MPU6050 module gives the information to the Arduino Uno is configured to processes the information, which leads to generating alarm and vibration until the head reaches to its normal position and a MPU6050 sensor is connected to the Arduino Uno, whereby the MPU6050 sensor is configured to detect the change of axis of head, resulting in when the driver moves his head towards any direction for more than 3 seconds and it automatically sends the alert to driver in the form of sound and vibration from a buzzer and a vibration motor. Fig. 1

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048923 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR SECURE TRANSFER OF COMPLETELY ENCRYPTED DATA AT WIRE SPEEDS

(51) International classification :H04L0029060000, H04W0012000000, H04L0009120000, G06F0021600000, G07F0007080000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present disclosure provides a system (100) and method (500) for secure transfer of information facilitating transmission of completely encrypted data at wire speeds to/from one or more Destinations (108) associated with authorized one or more users (110) through one or more communication networks (104). The encrypted information contains a message configured to be concealed from unauthorized access and a decrypting key configured to retrieve the message from the encrypted information, the decrypting key being randomly placed in the encrypted information. The decrypting key accommodated in the encrypted information transmitted at a first time instant is configured to decrypt the message extracted from the encrypted information at a second time instant, the first time instant being followed by the second time instant. The encrypted information pertains to L2 and L3 communication protocols pertaining to standard TCP/IP format, the exchange of encrypted information being facilitated through one or more parallel communication interfaces.

No. of Pages : 36 No. of Claims : 8

(54) Title of the invention : THE INTERNET OF THINGS (IOT) BASED NATURAL DISASTER RECOGNITIONAND SAFETY SYSTEM

<p>(51) International classification :H04L0029080000, G06Q0010060000, G06Q0050260000, G06Q0050020000, G08B0021100000</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)Arumugam Ranjith Address of Applicant :32 B Mazhuppan street ----- 2)Dr. Aneeshkumar A. S. 3)Mr. Y. M. MAHABOOBJOHN 4)Ms. VARSHA N 5)Dr. Nitin Gangaram Shinde 6)Mr.Kshitij Anand 7)Ms. Asmita Sharma 8)Dr. A.C.Kaladevi 9)Dr.Laxmi Kirana Pallathadka 10)Dr. Arun Kumar Pallathadka 11)Dr. Harikumar Pallathadka Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Aneeshkumar A. S. Address of Applicant :Assistant Professor & Head, Department of Computer Applications AJK College of Arts and Science, Palakkad Main Rd, Navakkarai, Coimbatore, Tamil Nadu, 641105,India ----- 2)Mr. Y. M. MAHABOOBJOHN Address of Applicant :ASSISTANT PROFESSOR MAHENDRA COLLEGE OF ENGINEERING MINNAMPALLI, SALEM 636106, TAMILNADU , INDIA ----- 3)Ms. VARSHA N Address of Applicant :ASSISTANT PROFESSOR RESIDENTIAL address: #68, 2ND MAIN, 5TH CROSS, K C LAYOUT MYSURU ,KARNATAKA 570011 , KARNATAKA, INDIA --- 4)Dr. Nitin Gangaram Shinde Address of Applicant :Assistant Professor College Name with address:Commerce & Science, Kopargaon, Dist. Ahmednagar ,423601, Maharashtra, India ----- 5)Mr.Kshitij Anand Address of Applicant :Student Kalinga Institute of Industrial Technology / KIIT Road, Patia, Bhubaneswar, Odisha 751024. My address- 44C/6 Padleyganj Gorakhpur Uttar Pradesh 273009 , Uttar Pradesh ,India ----- 6)Ms. Asmita Sharma Address of Applicant :Research Scholar College Name with Address: Shobhit Institute of Engg.& Technology (shobhit university)Meerut 250110, Uttar Pradesh , India ----- 7)Dr. A.C.Kaladevi Address of Applicant :Professor/CSE Sona College of Technology, Junction Main Road, Salem , 636 005,Tamilnadu, India. ----- 8)Dr.Laxmi Kirana Pallathadka Address of Applicant :Research Officer Manipur International University, Ghari, Imphal, Imphal West, Manipur, India ,795140 ----- 9)Dr. Arun Kumar Pallathadka Address of Applicant :Adjunct Director Center for Polar Studies, Manipur International University, Ghari, Imphal, Imphal West, Manipur, India ,795140 ----- 10)Dr. Harikumar Pallathadka Address of Applicant :India Director Manipur International University, Ghari, Imphal, Imphal West, Manipur , India ,795140 -----</p>
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(57) Abstract :
The IoT is a cutting-edge technology that depicts a global network of intelligent physical objects that are internally linked to one another. The Internet of Things has a wide range of applications. The IoT is heavily used in disaster management, and it has the potential to save lives. The Internet of Things (IoT), as described in this article, plays a critical role in disaster management. More information includes Internet of Things disaster for various types of tragedies, as well as a comparison of some of the current systems on the market. Early warning systems for fire, earthquake detection are just a few of the IoT applications that have been demonstrated. These techniques demonstrate how the application, IoT architecture, and the study's emphasis on various disasters are all intertwined in a single study. This research could be a great resource for anyone interested in using Internet of Things (IoT) technology to secure their smart city infrastructure, manage disasters, and reduce risks

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

(54) Title of the invention : IOT BASED TECHNIQUE FOR SAFEGUARDING FUEL IN VEHICLES

(51) International classification :H04L0029080000, B60K0015030000, F02M0037100000, G07C0009000000, B60K0015040000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
 IOT BASED TECHNIQUE FOR SAFEGUARDING FUEL IN VEHICLES The current invention is an IoT-based system for safeguarding fuel in motor vehicles. The system consists of a control device installed on the fuel tank lid that allows remote control of the fuel tank lid opening and shutting. The control device consists of a microcontroller unit linked to a number of IoT sensors, as well as a GSM module for data transfer between the authorized user and the control device. The control device additionally includes a microcontroller unit that can perform a variety of tasks, as well as a motor that is integrated with the microcontroller unit and can lock or unlock the fuel tank lid in response to a signal from an authorized user. The user's mobile device is loaded with an application that monitors and tracks the actions in the fuel tank. The measured fuel data is stored and analyzed on a cloud-based database server.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048971 A

(19) INDIA

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

(43) Publication Date : 05/11/2021

(54) Title of the invention : HANAFIN METHOD VALUE ASSESSMENT OF E-LMS EDUCATION

(51) International classification :G06Q0050200000, G06Q0030020000, G09B0007000000, G09B0005060000, 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

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(57) Abstract :
 Informal instruction, teachers' as well as the pupil's lack of competence in the education process would become a disadvantage. Furthermore, previously supplied educational materials cannot be duplicated, since the information transmission was limited by tiny comments as well as teacher clarifications. Those approaches were useless, so they have restricted training areas as well as periods, which can't be readily accessible or place. Students have a strong preference for as well as reliance on online media or ICT. The situation was favorable towards a digital or web-based educational process for learning resources may be downloaded, saved, as well as distributed via the web. The goal of this study as well as production would be to create an LMS-based E-Learning software that will be evaluated in an Engineering Technology Studies course using Able to understand clearly. The Hanafin as well as the Peck idea of starting having specified stages were used for the study technique. The created LMS would then be tested by the broadcast as well as technology specialists to ensure that it meets client requirements. The study participants were 15 college graduates between the ages of 22 and 25. (Adults). Survey questions, as well as participant observations, were two methods for collecting information. The findings of an LMS-based E-Learning research context are extremely viable to implement. The LMS accessibility, LMS capabilities, motion graphics, training style, resource elements, and also related to language, are all factors in the evaluation. According to the conclusions of this research, utilizing a school management system good teaching welfare and loyalty.

No. of Pages : 13 No. of Claims : 4

(54) Title of the invention : BLOCK CHAIN BASED SMART MANAGEMENT OF HUMAN RESOURCE TO OPTIMIZE PERFORMANCE

(51) International classification :G06Q0010100000, G06Q0010060000, G06N0020000000, G06K0009620000, G06N0007000000

(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

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(57) Abstract :
 Human resource is one of the most valuable assets in an organization. In order to recruit a quality candidate for an organization, reducing human involvement and verifying details of the candidate is important in recruitment process. Furthermore, having an idea about how well or poor the employees perform, and how likely the employee attrition can occur is vital in human resource management process. This invention is an attempt to introduce smart human resource management system that can maximize the productivity of an organizational environment using machine learning and blockchain technologies. It reduces human judgment, time in the candidate selection process and predicts employee performance and attrition to motivate current employers to maximize productivity with minimal financial loss in the workplace environment. Skill assessment and resume classification have been done using unsupervised learning algorithms and natural language processing after extracting raw data from employee resumes using Object Character Recognition. Candidate details verification is done by comparing the hashes of the records which are stored in the blockchain. Employee performance and attrition are predicted using supervised machine learning classification techniques with high accuracy and the result of the final performance is generated as a score for each employee considering the multiple attributes that has been standardized and regulated by some specifically considered e-competence frameworks.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048983 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : EFFECTIVE PROTECTED ACCESS MANAGEMENT USING HMKCABE

(51) International classification :G16H0010600000, G06Q0050220000, G16H0050200000, A61B0007040000, H01L0051050000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The principal objective of this undertaking is to safely keeping up with the patient wellbeing records. In distributed computing, it is exploiting many various of encoding method. Specially Attribute Based Encryption procedure is secluded into KP-ABE and CP-ABE to have productive substance transformation. There could be bunches of issues that emerges during the information upkeep and transmission particularly in the hour of information change into figure. For the security reason, we will change over the plain text into the code text for that utilizing HMKC-ABE calculation. For expanding the security level, the information will be changed through the protected attachment layer. It is proposed, the distributed computing assumes a significant part in on-request information handling. The accompanying layers are utilized during the time spent medical services record support, Cloud Computing: This layer is liable for putting away the scrambled information. In the medical care specialist co-op layer, a supplier gets patient data in a joined structure and seriously, which was sent in a type of code to the cloud. A supplier ought to approach the patient protection information to screen wellbeing execution.

No. of Pages : 0 No. of Claims : 0

(54) Title of the invention : A METHOD FOR EXTRACTION OF SPONDIAS PINNATA FRUIT EXTRACT AND EVALUATION OF THE ANTIOXIDANT AND ANTIULCER ACTIVITY THEREOF

<p>(51) International classification :A61K0008970000, A23L0002040000, A61K0008978900, A23L0005000000, B01D0011020000</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. Kumaraswamy.Gandla Address of Applicant :Professor, Head Department of Pharmaceutical Analysis, Chaitanya deemed to be university, Hanamkonda, Warangal Urban (Dist.) 506001, Telangana, India. -----</p> <p>2)Dr Gopal Natesan 3)Dr T Venkatachalam 4)Dr. Sudha Parimala 5)Shankaraiah Pulipaka 6)Dr. Ramesh Jayaprakash 7)Dr. Ganesh Kumar Gudas 8)Sampath Kumar.CH 9)Sengamalam Radhakrishnan 10)Ravindran Muthukumarasamy Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Kumaraswamy.Gandla Address of Applicant :Professor, Head Department of Pharmaceutical Analysis, Chaitanya deemed to be university, Hanamkonda, Warangal Urban (Dist.) 506001, Telangana, India. -----</p> <p>2)Dr Gopal Natesan Address of Applicant :Professor of Medicinal Chemistry Faculty of Pharmacy, MAHSA University Level 1, Main Building, Bandar Saujana Putra, 42610 Jenjarom, Selangor, Malaysia. -----</p> <p>3)Dr T Venkatachalam Address of Applicant :Professor and Head Department of Pharmaceutical Chemistry JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy B. Komarapalayam, Namakkal Dt, Tamil Nadu-638183, India. -----</p> <p>4)Dr. Sudha Parimala Address of Applicant :Associate Professor Dept of Pharmacognosy, RBVRR Women's College of Pharmacy Hyderabad-500027, Telangana, India -----</p> <p>5)Shankaraiah Pulipaka Address of Applicant :Assistant Professor, Department of Pharmacognosy, Geethanjali college of Pharmacy, permanent affiliated to JNTUH, (vi) Cheeryal (M) Keesara, (District) Medchal, Hyderabad -501301, Telangana, India. -----</p> <p>6)Dr. Ramesh Jayaprakash Address of Applicant :Associate Professor Department of Pharmaceutical Analysis, Swamy Vivekananda College of Pharmacy, Elayampalayam, Tiruchengode- 637 205 Namakkal – (Dist.), Tamilnadu, India -----</p> <p>7)Dr. Ganesh Kumar Gudas Address of Applicant :Associate Professor, Department of Pharmaceutics, Srikrupa Institute of Pharmaceutical Sciences, Velikatta (V), Kondapak (Mdl), Siddipet- 502277, Telangana, India. -----</p> <p>8)Sampath Kumar.CH Address of Applicant :Associate Professor Department of pharmacology Trinity College of Pharmaceutical Sciences Peddapalli-505172, Telangana, India. -----</p> <p>9)Sengamalam Radhakrishnan Address of Applicant :Lecturer, Department of Pharmaceutical Chemistry, University Kuala Lumpur - Royal College of Medicine Perak, No 3, Jalan Greentown, Ipoh, Perak Darul Ridzuan, Malaysia.30450. -----</p> <p>10)Ravindran Muthukumarasamy Address of Applicant :Lecturer Department of Pharmaceutical Technology, University Kuala Lumpur - Royal College of Medicine Perak, No 3, Jalan Greentown, Ipoh, Perak Darul Ridzuan, Malaysia.30450. -----</p>
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(57) Abstract :

ABSTRACTs A METHOD FOR EXTRACTION OF SPONDIAS PINNATA FRUIT EXTRACT AND EVALUATION OF THE ANTIOXIDANT AND ANTIULCER ACTIVITY THEREOF The present disclosure relates to, a method (100) for extracting Spondias pinnata fruit extract, for treating the peptic ulcer. In the present invention the Spondias pinnata fruit extract, comprises the several steps such as collecting(102) a fruit of a plant Spondias pinnata, and then cleaning and purifying (104) the Spondias pinnata fruit with water to remove dirt and soil, then fruits are smashed and mixed (106), drying (108) the Spondias pinnata fruit at 50°C, grinding (110) occurs into ground at -20°C by mechanical grinder, then powdered sample of fruit extracting by using distilled water and ethanol separately and with the help of Soxhlet extractor (112), then the vacuum rotary evaporator (114) is used in reducing the pressure of extract at below 40°C for obtaining a constant weight of Spondias pinnata and the refrigerator is used for cooling (116) the dried aqueous and ethanolic extract. The dried extract is tested for in vitro antioxidant activity by DPPH free radical scavenging assay, phosphomolybdenum total antioxidant activity assay and reducing power assay. The antiulcerogenic activity is tested in vivo in adult albino wistar rat model by determining ulcer prevention in pylorus ligation and aspirin induced mucosal damage methods. (FIG. 1 will be the reference figure)

No. of Pages : 17 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141048989 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHDO FOR FORMULATION AND EVALUATION OF ANTICONVULSANT ACTIVITY OF LEAVES EXTRACTS OF ALBIZIA PROCERA IN ANIMAL MODEL

<p>(51) International classification :A61K0036480000, A61K0036270000, A61K0031160000, G06T0007120000, G06Q0050300000</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. Kumaraswamy.Gandla Address of Applicant :Professor, Head Department of Pharmaceutical Analysis, Chaitanya deemed to be university, Hanamkonda, Warangal Urban (Dist.) 506001, Telangana, India. -</p> <p>-----</p> <p>2)Dr Gopal Natesan 3)Dr.V. Lalitha 4)Dr.R. Suthakaran. 5)Dr T Venkatachalam Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Kumaraswamy.Gandla Address of Applicant :Professor, Head Department of Pharmaceutical Analysis, Chaitanya deemed to be university, Hanamkonda, Warangal Urban (Dist.) 506001, Telangana, India. -</p> <p>-----</p> <p>2)Dr Gopal Natesan Address of Applicant :Professor of Medicinal Chemistry Faculty of Pharmacy, MAHSA University Level 1, Main Building, Bandar Saujana Putra, 42610 Jenjarom, Selangor. Malaysia -----</p> <p>-----</p> <p>3)Dr.V. Lalitha Address of Applicant :Associate Professor, Department of Pharmacology Nandha College of Pharmacy, Koorapalayam Pirivu, Perundururai Road, Erode - 638 052 -----</p> <p>4)Dr.R. Suthakaran. Address of Applicant :Professor and Principal, Department of Pharmaceutical Chemistry, Vijaya College of Pharmacy, Munaganoor(V), HayathNagar(M), Hyderabad-501511, Telangana, India. -----</p> <p>5)Dr T Venkatachalam Address of Applicant :Professor and Head Department of Pharmaceutical Chemistry JKKMMRF's-Annai JKK Sampoorani Ammal College of Pharmacy B. Komarapalayam, Namakkal Dt, Tamil Nadu-638183 -----</p>
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(57) Abstract :

ABSTRACT METHDO FOR FORMULATION AND EVALUATION OF ANTICONVULSANT ACTIVITY OF LEAVES EXTRACTS OF ALBIZIA PROCERA IN ANIMAL MODEL The present disclosure relates to a method (100) for formulation and evaluation of anticonvulsant activity of leaves extracts of albizia procera in animal model (100). The said method (100) comprises the steps of preparing the extract of albizia procera plant (102), followed by conducting primary photochemical studies (104), then finally conducting Anticonvulsant screening (106) using two different methods, and later values were noted for evaluation of the result. (Fig. 1 will be the reference figure)

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141049018 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : VLSI ARCHITECTURE: ADVANCE AND HIGH-PERFORMANCE VLSI ARCHITECTURE FOR MONTGOMERY MODULAR MULTIPLICATION USING CMOS VLSI

<p>(51) International classification :G06F0007720000, G06F0007530000, A61K0047120000, A23D0009000000, H04B0010800000</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)Vardhaman College of Engineering of Vardhaman Educational Society, Hyderabad, Telangana Address of Applicant :Vardhaman College of Engineering Narkuda -Shamshabad Road, Kacharam, Hyderabad Telangana India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. A. Pramod Kumar Address of Applicant :Assistant Professor, ECE, Vardhaman College of Engineering, Hyderabad, Telangana 501218, India -----</p> <p>2)Dr. Joseph Anthony Prathap Address of Applicant :Associate Professor, E.C.E, Vardhaman College of Engineering, Hyderabad, Telangana, 501218, India -----</p> <p>3)Dr. I Babu Address of Applicant :Assistant Professor, ECE Vardhaman College of Engineering, Hyderabad, Telangana 501218, India -----</p> <p>4)Mr. Boppidi Srikanth Address of Applicant :Assistant Professor, ECE Vardhaman College of Engineering, Hyderabad, Telangana 501218, India -----</p> <p>5)Mr. R. Phani Vidyadhar Address of Applicant :Assistant Professor, ECE Vardhaman College of Engineering,Hyderabad Telangana, India -----</p>
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(57) Abstract :

Our Invention VLSI Architecture: Advance and High-Performance VLSI Architecture for Montgomery Modular Multiplication Using CMOS VLSI is a Montgomery Modular Multiplier (MMM) utilizing a straightforward and effective Montgomery augmentation calculation. Here an alteration through utilizing mixture full adders in the Carry Save viper is invented. The half and half full viper is planned utilizing a customary Complementary Metal Oxide Semiconductor and transmission entryway rationale. There is around 56% and 59% decrease of region (no. of parts) in Radix 2 MMM and Semi-Carry-Save (SCS) based MMM with half and half full adders. There is huge decrease in the force dissemination of 57% for Radix 2 MMM and 49% of SCS based MMM when mixture adders are utilized rather than C-CMOS Full-Adders. The postponement is additionally decreased by 49% in SCS based MMM when contrasted with that of Radix 2 MMM. The product utilized are Xilinx ISE 14.2 and Mentor Graphics Pyxis Schematic in 180-nm innovation. $q_i = (S[i]0 + A_i B_0) \bmod 2$; $S[i + 1] = (S[i] + A_i B + q_i N) / 2$; } return $S[k]$; convey viper. Full viper is the essential combinational circuit which performs math activities. Numerous full viper. circuits can be fell to add a N-bit number for example Wave convey viper. Implementation of VLSI in circuit planning has taken the equipment business to a higher level. High force utilization, equipment cost, low execution and spread postponement stay annoying issues in conventional circuit planning models until VLSI configuration came into spotlight. Minimal expense and superior are taken as essential standards.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141049019 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEM FOR MITIGATING CIRCULATING CURRENT IN TYPE MODULAR MULTILEVEL CONVERTER (MMC)

<p>(51) International classification :H02M0007483000, G05B0013040000, G01D0018000000, H02J0003380000, G06F0008380000</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)Chaitanya Bharathi Institute of Technology (Autonomous) Address of Applicant :Gandipet, Hyderabad ----- -</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. M Balasubbareddy Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Hyderabad, Telangana 500075 -----</p> <p>2)Dr. P.Venkata Prasad Address of Applicant :Professor, Department of Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Hyderabad, Telangana 500075 -----</p> <p>3)Dr.Nireekshana Turaka Address of Applicant :Associate Professor, EEE Department VNR Vignana Jyothi Institute of Engineering and Technology, Vignana Jyothi Nagar, Bachupally, Hyderabad-500 090 ----- -</p>
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(57) Abstract :

The main purpose of this present invention is to mitigate the circulatory current by designing a controller device in type Modular Multilevel Converter (MMC). The main design of our invention discloses the system for mitigating circulating current in type MMC. In this method, the gain encoder is deciding the range of gain and passes the value to the optimization framework. The state matrix estimator evaluates whether the given gain value is correct or not. After that, the looped error estimator estimates the present error and previous error for measuring the accuracy of the predictions. Subsequently, the controller design set the predicted gain value in MMC. Also, the optimization framework reduces the circulating current based on the estimation. Then, the solar panels absorb the light from the sunlight turns it into electricity, and transmits the electricity to the DC utility (Load). [To be published with Figure.2]

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

(54) Title of the invention : EXPERIMENTAL INVESTIGATION OF HYBRID GAS TURBINE AND HYBRID STEAM TURBINE TO INVESTIGATE THE POSSIBILITY OF UTILIZING SOLAR ENERGY IN A COMBINED CYCLE

<p>(51) International classification :F03G0006060000, F02C0001050000, B60R0021272000, F22B0001000000, G06Q0030020000</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 Senthil Kumar S Address of Applicant :Associate Professor, Department of Mechanical Engineering, RMK College of Engineering and Technology, RSM Nagar, Pudukovoyal - 601206 -----</p> <p>2)Dr.S.Shanmugasundaram 3)Mr. Meheub Alan 4)Dr. G. Balaji 5)Mr. A. Muthuram 6)Amol L. Mangrulkar 7)Dr. Manoj Kumar Singh 8)Dr. Moti Lal Rinawa 9)Dr.D.Prince Sahaya Sudherson 10)Vishwajeet Rajaram Shinge 11)Dr.M.Ramarao Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr Senthil Kumar S Address of Applicant :Associate Professor, Department of Mechanical Engineering, RMK College of Engineering and Technology, RSM Nagar, Pudukovoyal - 601206 -----</p> <p>2)Dr.S.Shanmugasundaram Address of Applicant :Associate professor, V.R.S College of Engineering and Technology, Arasur NH45, Viluppuram, Tamil Nadu- 605602 -----</p> <p>3)Mr. Meheub Alan Address of Applicant :Research Scholar, Department of Electrical Engineering, NIT Durgapur, MG Road, Durgapur-713209. West Bengal. -----</p> <p>4)Dr. G. Balaji Address of Applicant :Assistant Professor, Department of Aeronautical Engineering, Hindustan Institute of Technology and Science, #1, Rajiv Gandhi Salai (OMR), Padur, (Via) Kelambakkam, Chennai, Tamilnadu - 603 103, -----</p> <p>5)Mr. A. Muthuram Address of Applicant :Assistant Professor Department of Aeronautical Engineering, Hindustan Institute of Technology and Science, #1, Rajiv Gandhi Salai (OMR), Padur, (Via) Kelambakkam, Chennai, Tamilnadu - 603 103 -----</p> <p>6)Amol L. Mangrulkar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Rajiv Gandhi Institute Of Technology, Juhu Versova Link Road, Behind HDFC Bank Versova, Andheri(West), Mumbai - 400 053 [m.s.] -----</p> <p>7)Dr. Manoj Kumar Singh Address of Applicant :Associate Professor, Department of Mechanical Engineering, Faculty of Engineering and Technology, MJP Rohilkhand University, Bareilly, Uttar Pradesh- 243006 ---</p> <p>8)Dr. Moti Lal Rinawa Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Government Engineering College Jhalawar, Rajasthan- 326023 -----</p> <p>9)Dr.D.Prince Sahaya Sudherson Address of Applicant :Head &Associate Professor , Department of Mechanical Engineering, Rohini College of Engineering and Technology, Kanyakumari, Tamil Nadu. -----</p> <p>10)Vishwajeet Rajaram Shinge Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Nanasahab Mahadik College of Engineering, Peth, Tal- Walwa, Sangli District, Maharashtra- 415407 ----</p> <p>11)Dr.M.Ramarao Address of Applicant :Associate Professor, Department of Mechanical Engineering, Bharath Institute of Higher Education and Research, Selaiyur, Chennai, Tamil Nadu- 600126 -----</p>
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(57) Abstract :

[025] Due to the difficulties encountered by the usual approach of the hybrid gas turbine, it is necessary to propose and investigate gas turbine devices that utilize solar energy in a different way. It is interesting to consider whether devices that utilize solar heat with existing technologies can be used so that no additional cost is required to develop the components. This is a necessary condition for the further development and commercial establishment of solar thermal devices. In this context, this work proposes and considers two alternatives: a solar turbine gas turbine and a solar turbine gas turbine. Both devices aim to use solar energy in the gas turbine through the use of existing technologies. In addition, in order to utilize the discarded solar heat through the refocus of the mirrors, a hybrid device is considered where the discarded heat is used to generate steam and inject it into the combustion chamber of the hybrid gas turbine.

No. of Pages : 29 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141049180 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : IOT BASED SPEED MONITORING USING PROXIMITY SENSOR.

<p>(51) International classification :H04L0029080000, H04W0004700000, H04L0012280000, G07C0003000000, G01N0027040000</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)Arumugam Ranjith Address of Applicant :32 B Mazhuppan street -----</p> <p>2)DR.S.SELVAKANI</p> <p>3)Ms. Meenakshi Mataray</p> <p>4)Ms. S.Padma Priya</p> <p>5)Dr. Saurabh Sharma</p> <p>6)Mr. Y. M. MAHABOOBJOHN</p> <p>7)Mrs. Anu Yadav</p> <p>8)Mr.Mohamed Suhail. M</p> <p>9)Dr. M. CHARLES AROCKIARAJ</p> <p>10)Mr. Sachin Sharma</p> <p>11)Dr. Priyanka Pandey</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)DR.S.SELVAKANI Address of Applicant :ASSISTANT PROFESSOR AND HEAD DEPARTMENT OF COMPUTER SCIENCE, GOVERNMENT ARTS AND SCIENCE COLLEGE, ARAKKONAM 631051,TAMILNADU, INDIA -----</p> <p>2)Ms. Meenakshi Mataray Address of Applicant :Assistant Professor Inderprastha Engineering College, 63, Site IV, Sahibabad, Ghaziabad, Uttar Pradesh ,201010, Uttar Pradesh ,India -----</p> <p>3)Ms. S.Padma Priya Address of Applicant :Assistant Professor and Head, Department of Information Technology Sri Adi Chunchanagiri Women's College, Department of information Technology, Kumily Road,Cumbum 625516, Tamilnadu, India -----</p> <p>4)Dr. Saurabh Sharma Address of Applicant :Assistant Professor College Name with address: Sant Baba Bhag Singh University, Jalandhar, PUNJAB. 144030, Punjab, India -----</p> <p>5)Mr. Y. M. MAHABOOBJOHN Address of Applicant :ASSISTANT PROFESSOR MAHENDRA COLLEGE OF ENGINEERING MINNAMPALLI, SALEM 636106, TAMILNADU ,INDIA -----</p> <p>6)Mrs. Anu Yadav Address of Applicant :Research Scholar Phd (CSE) College: Indira Gandhi Delhi Technical University for Women Delhi, India -----</p> <p>7)Mr.Mohamed Suhail. M Address of Applicant :Research Scholar Jamal Mohamed College (Autonomous), Affiliated to Bharathidasan University, Trichy, 620020, Tamil Nadu, India -----</p> <p>8)Dr. M. CHARLES AROCKIARAJ Address of Applicant :Assistant professor DEPARTMENT OF COMPUTER APPLICATION, PATRICIAN COLLEGE OF ARTS AND SCIENCE, ADYAR, CHENNAI. 600020, TAMILNADU, INDIA -----</p> <p>9)Mr. Sachin Sharma Address of Applicant :Associate Professor & Head Aravali Institute of Technical Studies, Udaipur 313003, Rajasthan, India -----</p> <p>10)Dr. Priyanka Pandey Address of Applicant :Assistant Professor Sangam University, Bhilwara 311001, Rajasthan, India -----</p>
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(57) Abstract :

Abstract: In this project, the node MCU controller will be used to monitor the speed of the three-phase induction motor. This project has also reduced the chromatic and switching losses in the circuit. To track motor performance, an induction motor speed sensor known as a Node MCU is used as part of this research. The speed feedback is connected to the Node MCU controller. The Node MCU sends a wireless speed signal to a webpage that displays the speed of the motor. The IoT is a new and rapidly growing technology. IoT is critical to our daily lives in today's world. The Internet of Things (IoT) is becoming more prevalent in daily life. In the future, the internet will contain billions of items. Manufacturing, home automation, electric vehicles, traction, agriculture, and medicine are just a few of the industries where the Internet of Things (IoT) is being used. This study looks at real-time parameter monitoring and control of induction motors. Monitoring parameters include voltage, current, speed, and temperature. Monitoring parameters for induction motors aid in motor maintenance prior to the appearance of defects, preventing production disruptions and delays. Continuous monitoring of the induction motor contributes to its dependability. Because of the Internet of Things, if the motor malfunctions, the power should be cut off immediately. Also As a result, controlling the speed of an induction motor is required in many situations requiring variable speed operation

No. of Pages : 10 No. of Claims : 5

(54) Title of the invention : ANALYSIS OF HRM ACCOUNTING PRACTICES AND ITS IMPLICATIONS IN INDIA.

<p>(51) International classification :G06Q0010100000, G06Q0010060000, G06Q0040020000, G06Q0040000000, A47B0063000000</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)Arumugam Ranjith Address of Applicant :32 B Mazhuppan street ----- 2)Dr.K.RajaRajeswari 3)Dr.Sunita Tidke 4)Dr. Seema Laddha 5)Dr Neena Nanda 6)Dr. Veena Prasad Vemuri 7)Mr. KHAN FIROZKHAN KHURSHIT 8)Dr. Divya Bansal 9)Dr. Abhishek Sharma 10)Mrs. Prapti Anand Naik 11)Mr.Ketan Dahya Rabhadia Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.K.RajaRajeswari Address of Applicant :Associate Professor Nehru Arts and Science College, Coimbatore 641105 , Tamil Nadu, India ----- 2)Dr.Sunita Tidke Address of Applicant :Assistant Professor Prahladrai Dalmia Lions College of Commerce & Economics,Malad ,Mumbai 400064, Maharashtra ,India ----- 3)Dr. Seema Laddha Address of Applicant :Assistant Professor SIES College of Management Studies, Nerul, Navi Mumbai 400706., Maharashtra ,India ----- 4)Dr Neena Nanda Address of Applicant :Assistant Director Institute for Technology and Management Plot No. 25/26, Institutional Area Sector 4, Kharghar East Navi Mumbai , 410210, Maharashtra, India ----- 5)Dr. Veena Prasad Vemuri Address of Applicant :I/C Principal NKES College of Arts, Commerce and Science 400031, Maharashtra, India ----- 6)Mr. KHAN FIROZKHAN KHURSHIT Address of Applicant :Assistant professor VIVA COLLEGE OF ARTS, COMMERCE & SCIENCE, VIRAR WEST, TAL - VASAI, DIST- PALGHAR 401303, Maharashtra , India ----- 7)Dr. Divya Bansal Address of Applicant :Asst Prof. Amity University, Sector 125, Noida 201301, U.P., India ----- 8)Dr. Abhishek Sharma Address of Applicant :Assistant Professor BAREILLY COLLEGE, BAREILLY 243001,Uttar Pradesh,India ----- 9)Mrs. Prapti Anand Naik Address of Applicant :Assistant Professor VIVA INSTITUTE OF MANAGEMENT AND RESEARCH 401203, Maharashtra, India ----- --- 10)Mr.Ketan Dahya Rabhadia Address of Applicant :Assistant Professor VIVA INSTITUTE OF MANAGEMENT AND RESEARCH 401203, Maharashtra, India ----- ---</p>
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(57) Abstract :

Abstract: In India, one of the most overlooked aspects of a company's financial reports is its Human Resource (HR) position. The management does not want to share information about human resources, whether good or bad. It is important to note, however, that the success of any business is heavily reliant on how well and effectively its people are utilised. Equipment, materials, and money are all required. Houses, laptops, and physical and financial resources are useless without human efforts and decisions. Despite this, most people agree that a company's most valuable asset is its human resources (HR). However, neither the valuation of human resources nor their inclusion in firm financial accounts is done on an annual basis. Because of these facts, the goal of this study is to determine how Indian organisations use Human Resource Accounting (HRA). The book is divided into six major chapters that cover virtually every aspect of HRA, as well as how it is used in Indian businesses in particular

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141049230 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SENSOR BASED INTELLIGENT GADGET FOR EARLY DETECTION OF HEART ABNORMALITIES IN PATIENTS

<p>(51) International classification :A61B0005000000, G06F0013400000, A61B0005020000, G06F0013100000, G01N0033680000</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. VIJAYAN Address of Applicant :Professor, Department of EIE, St. Joseph's College of Engineering, OMR, Chennai- 600119 ----- -----</p> <p>2)Dr. Shibili Nuhmani 3)Simi Afroz 4)Jamshed Ali 5)Dr. Ashok Kumar Sah 6)Dr. M. Sangeetha Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. V. VIJAYAN Address of Applicant :Professor, Department of EIE, St. Joseph's College of Engineering, OMR, Chennai- 600119 ----- -----</p> <p>2)Dr. Shibili Nuhmani Address of Applicant :Assistant Professor, Imam Abdulrahman Bin Faisal University, Dammam, KSA - 32214 ----- -----</p> <p>3)Simi Afroz Address of Applicant :Assistant Professor, Department of Optometry, GD, Goenka University, Gurugram, Haryana ----- -----</p> <p>4)Jamshed Ali Address of Applicant :Assistant Professor, Department of Optometry, College of Allied Health Sciences, IIMT University Meerut India ----- -----</p> <p>5)Dr. Ashok Kumar Sah Address of Applicant :Department of Medical Laboratory Technology, School of Allied Health Sciences, IIMT University, Meerut, UP, India ----- -----</p> <p>6)Dr. M. Sangeetha Address of Applicant :Assistant Professor , Department of Computer Science Engineering, Reva University , Bangalore ----- -----</p>
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(57) Abstract :

Present invention provides a sensor based intelligent gadget for early detection of heart abnormalities in patients. The invention is very useful as low cost, real time solution. Output is given through the different modules like printer, LCD display, Wireless module, similarly the data can be interfaced to the computer system and can be observed by the consultant for further analysis. In this system the hardware implemented in FPGA board with optimized hardware architecture. Use of the biomarker sensor give the output to the FPGA board where real time analysis of intensity of the particular disease is displayed.

No. of Pages : 8 No. of Claims : 2

(54) Title of the invention : SUPPLY CHAIN MANAGEMENT FOR E-COMMERCE LOGISTICS USING IOT

<p>(51) International classification :G06Q0010080000, G06Q0050280000, G06Q0030060000, G06K0017000000, H04L0029080000</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. Revathi Address of Applicant :Assistant Professor, Department of Computer Science, Karpagam Academy of Higher Education, Coimbatore, 641021 ----- 2)Mr. Harshwardhan Chandrakant Pandit 3)Dr D David Winster Praveenraj 4)Dr. K.Subramani, 5)Dr Shyamasundar Tripathy 6)Mr.Mankeshva saini 7)Mr.D.Saravanan 8)Mr. Ayyoob A 9)Dr. Raju Agrawal 10)Dr. A S SathishKumar 11)Dr.D.Stalin David Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Revathi Address of Applicant :Assistant Professor, Department of Computer Science, Karpagam Academy of Higher Education, Coimbatore, 641021 ----- 2)Mr. Harshwardhan Chandrakant Pandit Address of Applicant :Assistant Professor, (Mechanical Engineering), Department of Technology, Shivaji University, Kolhapur. ----- 3)Dr D David Winster Praveenraj Address of Applicant :Assistant Professor School of Management Studies, Bannari Amman Institute of Technology , Sathyamangalam-638401. ----- 4)Dr. K.Subramani, Address of Applicant :Assistant Professor - Operations, Vignana Jyothi Institute of Management, Hyderabad. ----- 5)Dr Shyamasundar Tripathy Address of Applicant :Assistant Professor, Srusti Academy of Management, Bhubaneswar, Odisha,India ----- 6)Mr.Mankeshva saini Address of Applicant :Assistant professor, Department of management studies, Government Engineering College, Jhalawar ----- 7)Mr.D.Saravanan Address of Applicant :Associate Professor, Department of CSE, IFET College of Engineering, Villupuram, 605108. ----- 8)Mr. Ayyoob A Address of Applicant :M.Phil Research Scholar, Department of Commerce and Management Studies, University of Calicut. ----- 9)Dr. Raju Agrawal Address of Applicant :Professor/Director, S S Jain Subodh Management Institute, Jaipur, ----- 10)Dr. A S SathishKumar Address of Applicant :Assistant professor Knowledge Institute of Technology, KIOT Campus, Kakapalayam, Salem. Pin: 637504 ----- 11)Dr.D.Stalin David Address of Applicant :Assistant Professor, Department of CSE, IFET College of Engineering, Villupuram, 605108. -----</p>
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(57) Abstract :
The invention discloses an IoT (Internet of Things)-based intelligent logistics system which comprises a real-time logistics tracking service system; and the intelligent logistics system is characterized by comprising a logistics management platform subsystem, a transportation scheduling, and monitoring subsystem, a warehouse management subsystem and an e-commerce platform subsystem. As disclosed in the invention, a logistics system that can sense and monitor each link in real-time saves manpower and time costs while increasing logistics openness and transparency can be implemented. An e-commerce platform system is also provided so that logistics openness and transparency can be enhanced.

No. of Pages : 19 No. of Claims : 5

(54) Title of the invention : A SYSTEM FOR ENCODING AND DECODING DATA USING CLOUD COMPUTING AND METHOD THEREOF

(51) International classification :H04N0019176000, H04N0019440000, G06T0017200000,
H04N0019700000, H04N0019170000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

[034] The present invention discloses a system for Encoding and Decoding Data Using Cloud Computing and method thereof. The system includes, but not limited to, an encoding syntax data information provided on a cloud computing in a quantized space from a coded bitstream, wherein the syntax data information comprising dividing information and adaptive geometry quantization information for a bounding box of the point cloud; a decoder provided on a cloud computing in a quantized space from a coded bitstream, and dividing a bounding coded unit of the point cloud into a plurality of parts based on the dividing the data information; a processing unit configured to determine quantization parameters for the parts in a bounding coded unit based on the adaptive geometry quantization information; and reconstructing a plurality of points in each of the parts in the bounding coded unit of the point cloud based on the quantization parameter for the respective part in the bounding coded unit. Accompanied Drawing [FIG. 1]

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141049316 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : IOT BASED SMART WATER LEVEL MONITORING SYSTEM IN RESERVOIR USING CLOUD METHOD THEREOF

<p>(51) International classification :G06Q0050060000, G01F0023000000, G01D0021020000, G05D0009120000, G05B0019418000</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)Ashokkumar Sundaramma puttamadiah Address of Applicant :288, ISRO Layout ----- 2)Dr Erappa 3)Dr Ashok Kumar P S 4)Dr Thippeswamy G R 5)Dr PanduRanga Rao M V 6)Dr Sohan Kumar Gupta 7)Dr. Kempanna 8)Gopal Krishna C 9)Krishnamurthy H 10)Noor Basha 11)Thirthe Gowda M T Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ashokkumar Sundaramma puttamadiah Address of Applicant :288, ISRO Layout ----- 2)Dr Erappa Address of Applicant :Professor & HOD, Department of Information Technology, Shree Rayeshwar Institute of Engineering and Information Technology, Shiroda, Goa-403103 ----- 3)Dr Ashok Kumar P S Address of Applicant :Professor, Department of Computer Science & Engineering, Don Bosco Institute of Technology, Bengaluru, Karnataka – 560078 ----- 4)Dr Thippeswamy G R Address of Applicant :Professor, Department of Computer Science & Engineering, Don Bosco Institute of Technology, Bengaluru, Karnataka – 560078 ----- 5)Dr PanduRanga Rao M V Address of Applicant :Professor, Department of Computer Science & Engineering, Jain University, Bengaluru, Karnataka – 562112 ----- 6)Dr Sohan Kumar Gupta Address of Applicant :Professor & Head, Department of Computer Science & Engineering, Bangalore Technological Institute, Bengaluru – 560065 ----- 7)Dr. Kempanna Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, Bangalore Institute of Technology, Bengaluru, Karnataka – 5600001 ----- 8)Gopal Krishna C Address of Applicant :Associate Professor, Department of Computer Science & Engineering, Adichunchanagiri Institute of Technology, Chikmagaluru,– 577101 ----- 9)Krishnamurthy H Address of Applicant :#287, I floor, 5th cross, Avalahalli, BDA layout, Girinagara, Bengaluru, Karnataka – 560078 ----- 10)Noor Basha Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, Vemana Institute of Technology, Bengaluru, Karnataka – 560034 ----- 11)Thirthe Gowda M T Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, GEC, Diary circle, Hassan, Karnataka – 573201 -----</p>
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(57) Abstract :

A smart water level monitoring system integrated with the reservoirs is to acquire the dynamic data on water level commissioned based on IoT framework. The IoT based system is cost effective, well-organized and facilitates automate water level monitoring, detection and refilling of water in the reservoir. The IoT based setup follow the state-of-art method thereof, so it reduces human intervention, provides security to water pump and its infrastructure, ease of use, very low maintenance as well as expendable components and empower mobile accessibility. The smart system will monitor water level in reservoir on real time basis, i.e. system can facilitate to provide detect on water usage, measuring water level in the reservoir, quantify of water source, noticing of water leakage and usage of water pump and its controlling.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141049341 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR RECOGNIZING ABNORMAL ACTIVITY IN VEHICLES THROUGH THE USE OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

(51) International classification :G06N002000000, G06T0007246000, G01F0009020000, G16H0050500000, G06N0005020000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

A novel method for recognizing abnormal activity in vehicles through the use of artificial intelligence and machine learning. The proposed invention comprises of microprocessor chip which have simulation of the concerned seven equations to calculate steering parameters and appropriate fine potentiometers placed at the joints of suspension systems. There is also a provision of communication of magnitudes of responses of these transducers to the microprocessor chip which estimate the seven steering behavior parameters. Upon estimation of these seven parameters if these are appropriately displayed in terms of seven circular dials of a panel meant for display of steering behavior parameters, then the driver can observe this steering behavior all the while and accordingly change the vehicle speed so that he can maintain all these seven behavior parameters within permissible limit.

No. of Pages : 6 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141049354 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A METHOD AND A SYSTEM FOR AUTONOMOUSLY TRAINING AND ASSESSING THE GYM USERS

(51) International classification :G09B0019000000, G05D0001020000, A63B0071060000, A61B0005000000, A61B0005103000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

Title: A METHOD AND A SYSTEM FOR AUTONOMOUSLY TRAINING AND ASSESSING THE GYM USERS ABSTRACT A system (100) for guiding a user in a fitness center comprising: a mobile robot companion (102) configured to be a personal trainer, the robot companion (102) comprises a LiDAR (206) to guide the user to a respective workstation; a capturing unit (208) to monitor the posture of the user, wherein the capturing unit (208) comprises a camera, and sensors; a user interface (210) to receive input data from the user as well as display output data to the user; speakers (212) to generate warning tone/ contextual voice messages whenever the user fails to maintain the correct posture required for the particular workout; a communication unit (214) to communicate with a data center (104); and a controller (216) connected to the LiDAR (206), the capturing unit (208), the user interface (210), the speakers (212) and the communication unit (214), the controller (216) is configured to receive, process, output data. Figure 2 is selected.

No. of Pages : 32 No. of Claims : 10

(54) Title of the invention : AGRI-TECH FARMING REVOLUTION FOR USING PLC SOLAR WATER, AND FERTILIZER'S PUMP WITH NEW ALTERED-NOZZLE

<p>(51) International classification :G06Q0010060000, G06Q0010100000, G06Q0050020000, G05B0019050000, A01C0007000000</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. Venkata Reddy Kota Address of Applicant :Associate Professor, Dept. of Electrical & Electronics Engineering, University College of Engineering Kakinada, JNTU Kakinada, Andhra Pradesh, Kakinada-533003 ----- 2)Dr. Bapayya Naidu Kommula 3)Dr. M. Sreenivasa Reddy 4)Dr. V. Srinivasa Rao 5)Dr. Ramesh Adireddy 6)Dr. K. V. S. R. Murthy 7)Dr. Sripada Rama Sree 8)J. Pavan 9)B. Kavya Santhoshi Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Venkata Reddy Kota Address of Applicant :Associate Professor, Dept. of Electrical & Electronics Engineering, University College of Engineering Kakinada, JNTU Kakinada, Andhra Pradesh, Kakinada-533003 ----- 2)Dr. Bapayya Naidu Kommula Address of Applicant :Associate Professor, Dept. of Electrical & Electronics Engineering, Aditya Engineering College (A), Andhra Pradesh, Surampalem-533437 ----- 3)Dr. M. Sreenivasa Reddy Address of Applicant :Professor & Principal, Dept. of Mechanical Engineering, Aditya Engineering College (A), Andhra Pradesh, Surampalem-533437 ----- 4)Dr. V. Srinivasa Rao Address of Applicant :Professor & Head, Dept. of Electrical & Electronics Engineering, Aditya Engineering College (A), Andhra Pradesh, Surampalem-533437 ----- 5)Dr. Ramesh Adireddy Address of Applicant :Professor & Principal, Dept. of Electrical & Electronics Engineering, Aditya College of Engineering, Andhra Pradesh, Surampalem-533437 ----- 6)Dr. K. V. S. R. Murthy Address of Applicant :Professor & Dean-R&D, Dept. of Electrical & Electronics Engineering, Aditya Engineering College (A), Andhra Pradesh, Surampalem-533437 ----- 7)Dr. Sripada Rama Sree Address of Applicant :Professor & Dean – Academics, Dept. of Computer Science & Engineering, Aditya Engineering College (A), Andhra Pradesh, Surampalem-533437 ----- ----- 8)J. Pavan Address of Applicant :Professor & Dean-Evaluation, Dept. of Electrical & Electronics Engineering, Aditya Engineering College (A), Andhra Pradesh, Surampalem-533437 ----- ----- 9)B. Kavya Santhoshi Address of Applicant :Assistant Professor, Dept. of Electrical & Electronics Engineering, Godavari Institute of Engineering and Technology (A), Andhra Pradesh, Rajahmundry ----- -----</p>
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(57) Abstract :

Abstract Overall India has a shrinking agricultural sector, demonstrated by government data showing the number of full-time farmers at 1.7 million in 2014, declining from 2.2 million a decade earlier. Workforce and skills shortages are compounded by the lack of young people becoming farmers. Also, due to the increasing rate of farmers retiring, the overall amount of uncultivated farmland within India has doubled over the past two decades, increasing to 420,000 hectares in 2015. As physical activities bring more difficulties for a greater number of aging farmers, technological innovations to assist with and replace workers performing agricultural tasks is an urgent priority. As well as automating work, high-tech farming technologies provide accurate information which farmers can use to make decisions managing crops. The special features of the new technology are: 1. Sensors are used to sensing the humid level in soil for the particular agriculture land. The sensed output given to the PLC. 2. Programmable Logic Controllers (PLC), are used to automatically ON and OFF motor. And also it Automatically controls the open and closing the nozzle used in water as well as fertilizer pumps. 3. Specially designed sprinkler nozzle named altered –nozzle. Uniqueness of this nozzle is used in two different modes of operation depends on the moisture content present in the soil. Mode1:Mist mode of operation. Under this operation we can save 98% of Water usage. Mode2: Spray mode of operation. Under this mode of operation we can save 85% of water.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141049459 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : INTERNET OF THINGS BASED POLLUTION MEASUREMENT AND CONTROL SYSTEM

(51) International classification :G08B0021180000, G08G0001096700, G06Q0050260000, G08B0021120000, A62C0037500000

(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

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(57) Abstract :

The present invention relates to an Internet of things based pollution measurement and control system includes, multiple monitoring devices fitted over poles 1 that installed on multiple sites, each device includes: multiple sensors 2 to measure polluting gases and smoke from air and create detected pollutants data of the site, a camera module 3 detect polluting sources, a communication module to interconnect the devices and with one or more user interfaces 4 that accessed by authorized users to transmit pollutants data, and a server connected with the microcontroller via the module for storing the data that is processed to predict pollution levels for upcoming days, wherein a processing unit 5 generate alert notifications over the interfaces 4 in case pollution level exceeds predefined threshold value and the unit 5 directs a display panel 8 mapped over each of the devices to display alert notifications/alternate way for visitors to cross the site.

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

(54) Title of the invention : Deep learning based Language translator.

<p>(51) International classification :G06N0003040000, G06N0020000000, G06N0003080000, G06F0040580000, G06F0016340000</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)Arumugam Ranjith Address of Applicant :32 B Mazhuppan street -----</p> <p>2)Pankaj A. Sonawane</p> <p>3)Pranit Bari</p> <p>4)Ramchandra S. Mangrulkar</p> <p>5)Harshal Dalvi</p> <p>6)Prachi H. Dalvi</p> <p>7)Dr. Narendra M. Shekokar</p> <p>8)Rupali N. Shekokar</p> <p>9)Dr. BHUSHAN JADHAV</p> <p>10)SONALI BHUSHAN JADHAV</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Pankaj A. Sonawane Address of Applicant :Assistant Professor Dwarkadas J Sanghvi College of Engineering Vile Parle (w), Mumbai 400056, Maharashtra Email id : Mobile No : -----</p> <p>2)Pranit Bari Address of Applicant :Assistant Professor Dwarkadas J Sanghvi College of Engineering Vile Parle (w), Mumbai 400056, Maharashtra -----</p> <p>3)Ramchandra S. Mangrulkar Address of Applicant :Associate Professor Dwarkadas J Sanghvi College of Engineering Vile Parle (w), Mumbai 400056 , Maharashtra -----</p> <p>4)Harshal Dalvi Address of Applicant :Assistant Professor Dwarkadas J Sanghvi College of Engineering Vile Parle (w), Mumbai 400056, Maharashtra -----</p> <p>5)Prachi H. Dalvi Address of Applicant :Assistant Professor Sardar Patel Institute of Technology, Andheri west, Mumbai , 400058 , Maharashtra -----</p> <p>6)Dr. Narendra M. Shekokar Address of Applicant :Professor Dwarkadas J Sanghvi College of Engineering Vile Parle (w), Mumbai ,400058, Maharashtra : -----</p> <p>7)Rupali N. Shekokar Address of Applicant :Assistant Professor Terna Engineering College, Near Railway Station , Nerul (W). 400709 , Maharashtra -----</p> <p>8)Dr. BHUSHAN JADHAV Address of Applicant :ASSISTANT PROFESSOR THADOMAL SHAHANI ENGINEERING COLLEGE, BANDRA WEST, MUMBAI 400050 , MAHARASHTRA -----</p> <p>9)SONALI BHUSHAN JADHAV Address of Applicant :ASSISTANT PROFESSOR THADOMAL SHAHANI ENGINEERING COLLEGE, BANDRA WEST, MUMBAI , 400050 , MAHARASHTRA -----</p>
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(57) Abstract :

Abstract: We'll build an Android Language Translator App using a many-to-many encoder-decoder sequence model as part of this machine learning project. When the input text is English and the target text is French, we'll use LSTM to train a model that converts both languages using a single machine learning algorithm. This will be accomplished using an English-French dataset

No. of Pages : 12 No. of Claims : 5

(54) Title of the invention : Information technology's role in the Indian banking sector's digital transition.

<p>(51) International classification :G06Q0040020000, G06Q0040000000, C12N0005073000, G06Q0030060000, G01N0021350400</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)Arumugam Ranjith Address of Applicant :32 B Mazhuppan street -----</p> <p>2)Dr. Rajesh Eswarawaka</p> <p>3)Dr. Jagadish S Kallimani</p> <p>4)Ms. Rajeshwari S B</p> <p>5)Dr.K.V.Ramanathan</p> <p>6)Dr.M.Maheswari</p> <p>7)Dr.A.Karuppannan</p> <p>8)Dr.M.Christopher,</p> <p>9)Mr. Nandkishor Balu Gosavi</p> <p>10)Dr. Arun Kumar Pallathadka</p> <p>11)Dr. Harikumar Pallathadka</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Rajesh Eswarawaka Address of Applicant :Professor AMC Engineering College Bangalore,560083, Karnataka, India -----</p> <p>2)Dr. Jagadish S Kallimani Address of Applicant :Associate Professor Department of Computer Science and Engineering, M S Ramaiah Institute of Technology, MSR Nagar, MSRIT Post, Bangalore-560054, Karnataka, India 560054 , Karnataka , India -----</p> <p>3)Ms. Rajeshwari S B Address of Applicant :Assistant Professor Department of Information Science and Engineering, M S Ramaiah Institute of Technology, MSR Nagar, MSRIT Post, Bangalore-560054, Karnataka, India 560054 ,Karnataka , India -----</p> <p>4)Dr.K.V.Ramanathan Address of Applicant :Professor of Finance SJBIT, Kengeri, Bengaluru, India 621005 , Karnataka , India -----</p> <p>5)Dr.M.Maheswari Address of Applicant :Associate Professor Jain (Deemed-to-be) University, Department of Management, School of Commerce, 9th Block Jaya Nagar, Bangalore , 560069 Karnataka , India -----</p> <p>6)Dr.A.Karuppannan Address of Applicant :Associate Professor K.S.Rangasamy College of Technology Department of Management, KSR Kalvi Nagar, Tiruchengode, Namakkal District, Tamil Nadu. 637215 , India -----</p> <p>7)Dr.M.Christopher, Address of Applicant :Jain Deemed to be University, Jayanagar, Bengaluru, India. 560069, Karnataka, India, -----</p> <p>8)Mr. Nandkishor Balu Gosavi Address of Applicant :Assistant Librarian SVKM'S NMIMS University Mumbai (Dhule Campus) 424001 , Maharashtra ,India -----</p> <p>9)Dr. Arun Kumar Pallathadka Address of Applicant :Adjunct Director Center for Polar Studies, Manipur International University, Ghari, Imphal, Imphal West, Manipur, India -795140 -----</p> <p>10)Dr. Harikumar Pallathadka Address of Applicant :Director Manipur International University, Ghari, Imphal, Imphal West, Manipur , India ,795140 -----</p>
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(57) Abstract :

The banking industry in India is critical to the country's overall economy. Many people compare it to the central nervous system of the economy because it manages the financial needs of all sectors of society. As a result of technological advancement and development, the banking industry as a whole has undergone a paradigm shift. Because of the ongoing expansion of e banking, there has been a significant shift in catering to the various needs of customers. While demonetization is included in the current budget, the Goods and Services Tax (GST) also relies on digital banking. The current study looks at relevant material from previous studies to investigate the role of technology in the banking sector in the United States among customers. This article examines the IT-enabled services provided by financial institutions, as well as their benefits and drawbacks at the time of writing

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141049462 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : Impact of green resources in the construction buildings

(51) International classification :B01D0053780000, G01N0033000000, B01D0053840000, A01N0065440000, B01D0053860000

(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
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(57) Abstract :

Abstract: The majority indoor air pollutants are caused by components derived from nonrenewable resources, such as conventional building materials (CBMs). These pollutants have an impact not only on the people inside the structure, but also on the environment outside. GBMs such as nontoxic, ordinary, and biological components can reduce impact on the environment and health due to potential for sustainable growth. Using bio composite materials are safe, recyclable, and biodegradable. As a result, the main goal of the research is to evaluate the VOC emissions and human health risks of two distinct composite materials: one made entirely of petroleum and the other with a completely hybrid bio-based composition. Researchers investigated the potential health effects of volatile organic compounds using ASTM-D5116 and SimaPro software modelling in conjunction with the ReCiPe approach (VOCs). Based on our findings, using bio composite materials as GBMs can reduce both indoor and outdoor human health impacts while also being environmentally friendly.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202143045026 A

(19) INDIA

(22) Date of filing of Application :04/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A CHEMICAL COMPOSITION OF ALKALINE WATER AND METHOD OF PREPARTION THEREOF

(51) International classification :C02F0001680000, C02F0001461000, C02F0103420000, C05C0005020000, C02F0001480000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :
Filed on :01/01/1900

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

(71)Name of Applicant :

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2)MADHU MATHI

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.T.UMAKANTHAN

Address of Applicant :75/4, DURAIRAJAPURAM COLONY, ANAIKARAPATTY POST, BODINAYAKANUR TALUK, THENI DT State: TAMIL NADU -----

2)MADHU MATHI

Address of Applicant :75/4, DURAIRAJAPURAM COLONY, ANAIKARAIPATTY POST, BODINAYAKANUR TALUK, THENI DT, TAMIL NADU -----

(57) Abstract :

ABSTRACT A CHEMICAL COMPOSITION OF ALKALINE WATER AND METHOD OF PREPARTION THEREOF The present disclosure relates to method (100) for making alkaline water which is beneficial for health using certain chemicals which are organic. The said method (100) comprises steps of forming (102) damp powder by adding anhydrous sodium carbonate. followed by adding chemicals (104) such as sodium chloride, potassium nitrate, sodium carbonate monohydrate. later adding (106) the said chemical composition in water and making water alkaline, and finally achieving the pH between 8-9 and also ORP between -57 to -177mV. (Fig. 1 will be the reference figure)

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202144049387 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PHYSICAL REPRESENTATION OF A NUMBER 0 (ZERO)

(51) International classification	:B25B0023000000, A01N0041060000, G06F0040174000, G16Z0099000000, G06T0017200000	(71) Name of Applicant : 1)S.RAVISANKAR Address of Applicant :294, FOURTH CROSS STREET, PALANI ANDAVAR NAGAR -----
(31) Priority Document No	:202041048187	Name of Applicant : NA Address of Applicant : NA
(32) Priority Date	:04/11/2020	(72) Name of Inventor :
(33) Name of priority country	:-----	1)S.RAVISANKAR
(86) International Application No	:PCT// /	Address of Applicant :294, FOURTH CROSS STREET, PALANI ANDAVAR NAGAR -----
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	

(57) Abstract :

Physical representation of a number 0 (zero) is a physical form of representation, its determination by identification of a form based on the representation, the axial locations and the shape at the extreme point and specified in angular and axial characteristics or dimensions. This invention belongs to the technical fields of Engineering, Science. This invention relates to a solution to technical or scientific problem. The principal use(s) of this invention are in 1.Science and Technology; 2.Various Industry sectors; 3.Communication and conversion process; 4.Environmental solution; 5.Analog electronics. The reference numerals present in the drawings are, Object(s) or interior object(s) at the axes (101); Surface material at the axes (102); Surface coating material at the axes (103); Angle of 90 degrees between the axes (104); X axis (105); Y axis (106); Z axis (107); Hidden direction at Z axis (107) (108); End design at the axes (109).

No. of Pages : 41 No. of Claims : 15

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.202011018272 A

(19) INDIA

(22) Date of filing of Application :29/04/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN IMPROVED ARRANGEMENT OF A CASCADED U-CELL BASED MULTILEVEL CONVERTER DEVICE BY USING A MODIFIED FUNDAMENTAL SWITCHING TECHNIQUE

(51) International classification :H02M0007483000,
H02M0007487000,
H02M0001120000,
H02M0007480000,
H02M0007539500

(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)INDIAN INSTITUTE OF TECHNOLOGY DELHI
Address of Applicant :Hauz Khas, New Delhi - 110016 Delhi India

(72)Name of Inventor :
1)SINGH, Bhim
2)MISHRA, Nidhi

(57) Abstract :

The present disclosure discloses a cascaded U cell (CUC) multilevel converter (MLC) to achieve a higher-level count in converter voltage with minimum number of switches. Here, two five-level UC topologies are connected in cascaded manner to obtain twenty-five levels in output converter voltage. The switch count in CUC is reduced to 12, as compared to number of semiconductor devices used for obtaining 25 levels in converter output. A binary-quintuple progression is used for selection of voltage ratios between DC voltage sources and capacitors. CUC is operated at low-frequency switching technique using modified nearest level modulation technique (MNLMT). The fundamental switching frequency ensures reduced switching losses as compared to pulse width modulation (PWM) schemes. Switching states for the converter output voltage level development is given to acquire 25 level of output voltage. The converter performance is analyzed for grid-tied and standalone applications. The performance parameters such as total harmonic distortion (THD) of converter voltage and THD of grid/load current are examined. The CUC configuration is modeled and test results are taken using OPAL-RT experimental test bench. The acquired simulation and test results confirm viability, practicability, acceptability, and cost-effectiveness of CUC-MLI converter over existing MLC topologies for efficient power conversion.

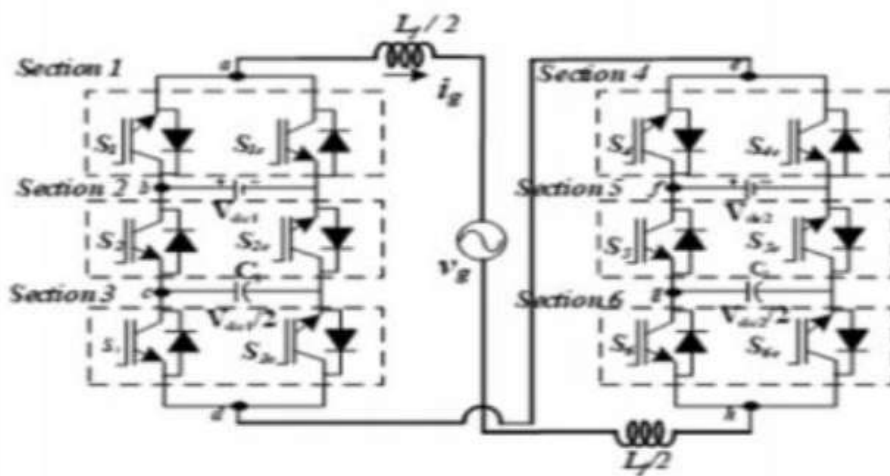


FIG. 1

No. of Pages : 36 No. of Claims : 10

(54) Title of the invention : ENERGY STORAGE SYSTEM

(51) International classification :H02J0003320000,
H02J0007000000,
F28D0020000000,
H02K0007020000,
F02C0006160000

(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 :**
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Address of Applicant :The Grand Plaza, Plot No.2, Nelson
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Delhi India

(72)**Name of Inventor :**
1)Jan Backhaus
2)Alexandr Visnev
3)Christian Behlen
4)Bernard Martinovic

(57) Abstract :

An energy storage unit (100) is provided. The energy storage unit (100) comprising: a plurality of energy storage members (200); and a casing 5 unit (300) adapted to accommodate each of the plurality of energy storage members (200), the casing unit (300) comprises, a first side cover (300a) comprising a first cover first wall (302a), at least one first cover second wall (304a) extending from the first cover first wall (302a) at a predetermined angle (A) with respect to the first cover first wall (302a), and 10 a first bottom wall (306a); and a second side cover (300b) comprising a second cover first wall (302b), and at least one second cover second wall (304b) extending from the second cover first wall (302b) at a predetermined angle (A') with respect to the second cover first wall (302b), and a second bottom surface (306b).

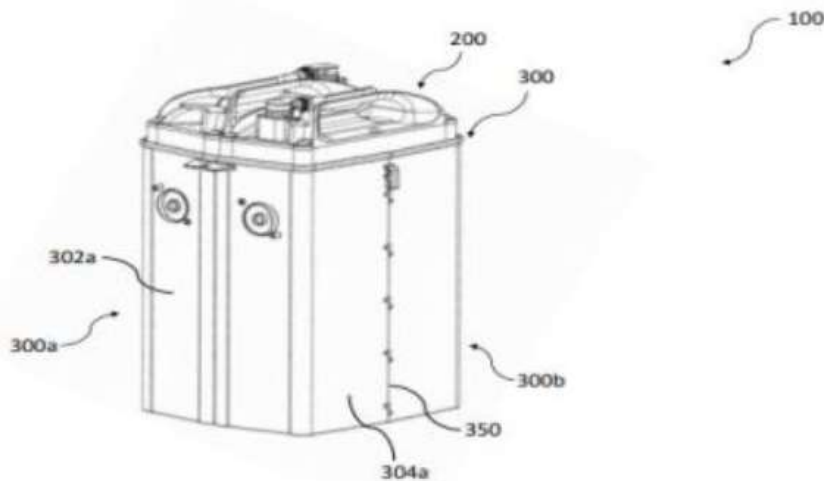


Figure 1

No. of Pages : 26 No. of Claims : 12

(54) Title of the invention : ELECTRIC VEHICLE

(51) International classification :B60L0015200000,
B60L0050510000,
B60L0003000000,
B60L0058120000,
B60L0055000000

(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)HERO MOTOCORP LIMITED
Address of Applicant :The Grand Plaza, Plot No.2, Nelson Mandela Road, Vasant Kunj- Phase -II, New Delhi 110 070, India
Delhi India

(72)**Name of Inventor :**
1)Jan Backhaus
2)Tobias Goldbacher
3)Alexandr Visnev
4)Bernard Martinovic
5)Markus Theobald

(57) Abstract :

A two wheeled vehicle (100) having a body frame (106), the two wheeled vehicle (100) comprises; a rear ground engaging member (184), the rear ground engaging member 5 (184) having a wheel axle (189); a power generating motor (179), having an output motor shaft (181), configured to transmit the driving force generated by the power generating motor (179); a transmission (240), wherein the power generating motor (179) is operatively coupled to the rear ground engaging member (184) via the transmission (240); a swing arm (160), rotatably supports the rear ground engaging member (184); 10 and a body case (232) supported on the swing arm (160), the body case (200) comprises a first compartment (250) and a second compartment (252), the first compartment (250) configured to house the power generating motor (179), the second compartment (252) configured to house the transmission (240).

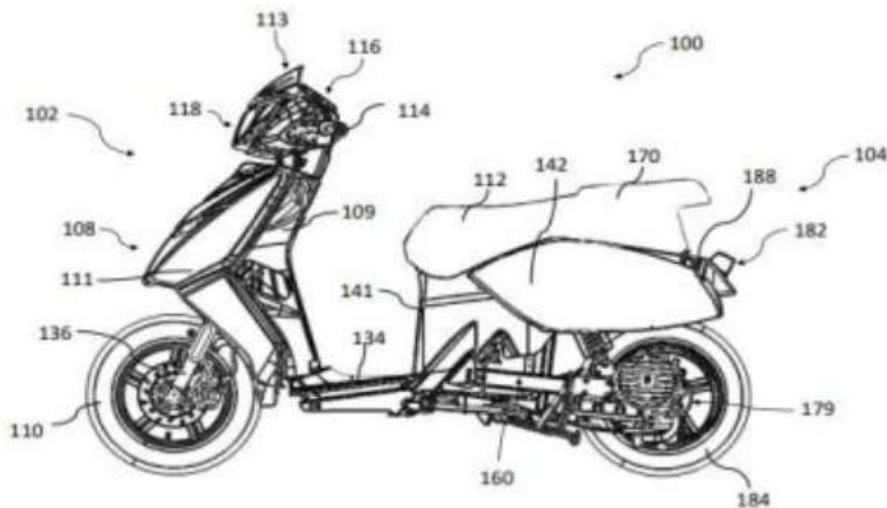


Figure 1

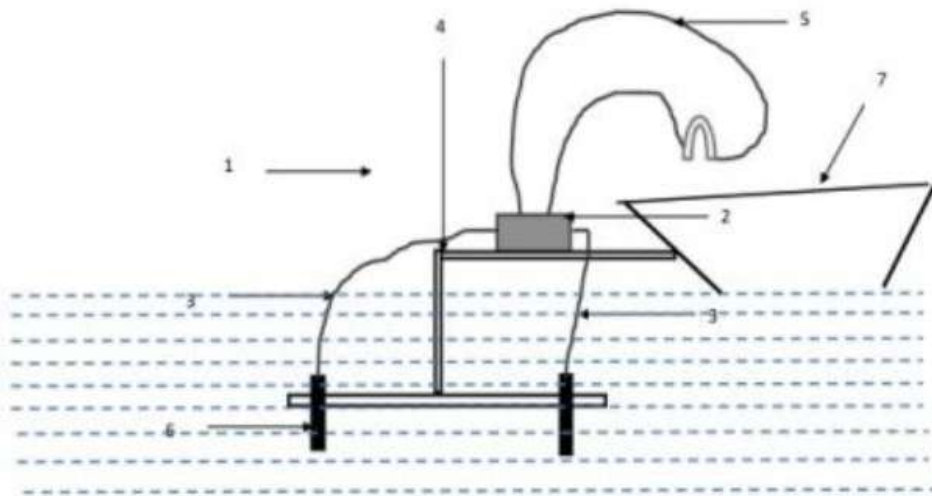
No. of Pages : 30 No. of Claims : 15

(54) Title of the invention : DIRECTION OF ARRIVAL ESTIMATION OF AN UNDERWATER ACOUSTIC SOURCE USING TWO SENSORS AND HUMAN SENSES

(51) International classification	:H04R0005033000, G01S0001720000, H04B0013020000, A01M0029160000, G01S0005180000	(71) Name of Applicant : 1)Jaypee Institute of Information Technology Address of Applicant :JIIT, A-10, Sector 62, Noida- 201304 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Kapil Dev Tyagi
(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 invention discloses an electronic system (1) for localization of high frequency very short duration acoustic pulsed source or low frequency longer or shorter duration underwater acoustic source like clicks generated by aquatic or marine animals by using. The system (1) includes pre-amplifier and power amplifier (2), a cable coupling (3), a connecting means (4), a stereo headphone (5), a hydrophone sensor (6), connected to the pre-amplifier and power amplifier (2) for recording underwater sounds. There is no requirement of the operation on the received signal to convert it in the audible range except slight amplification in analogue domain. The system is used to estimate the direction or region of a short duration high frequency acoustic pulsed source or long duration low audible frequency using processing done in the brain of human observer.



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

(54) Title of the invention : ELECTROCHEMICAL DEVICE FOR HYDROGEN PRODUCTION

(51) International classification	:H01M0002160000, C25B0001100000, C25B0001020000, H01M0004139300, H01M0008065600	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY), VARANASI Address of Applicant :Varanasi-221005, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ASHISH KUMAR MISHRA
(33) Name of priority country	:NA	2)SHANU MISHRA
(86) International Application No	:NA	3)SOMESH SUNIL JAISWAL
Filing Date	:NA	
(87) 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 hydrogen producing electrochemical device comprising of a housing (1) to contain an electrolyte and divided into an anodic compartment and a cathodic compartment using a separator (5); an anode (2) made up of bare conducting carbon paper; a cathode (3) of MoS₂ nanoflowers coated conducting carbon paper; an oxygen releasing (6) and hydrogen releasing outlets (7) are connected to the anodic (2) and cathodic compartments (3) for releasing oxygen gas and generated hydrogen respectively; and at least two power ports (8) for providing DC power. Said device is cost effective electrochemical device to produce hydrogen effectively at low voltage.

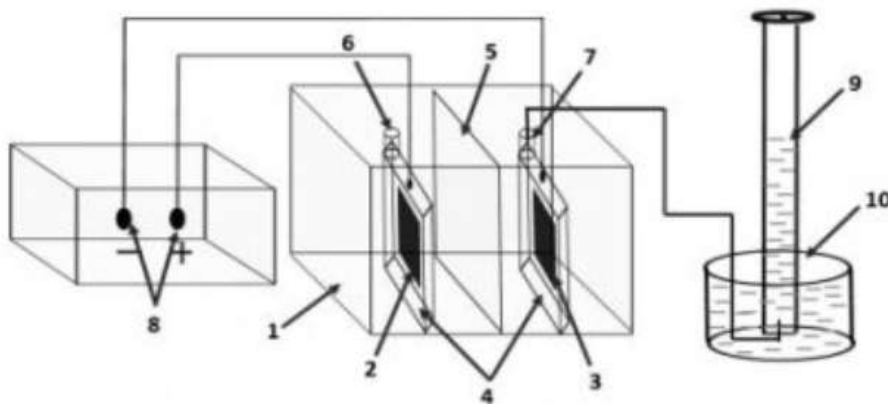


Figure 1

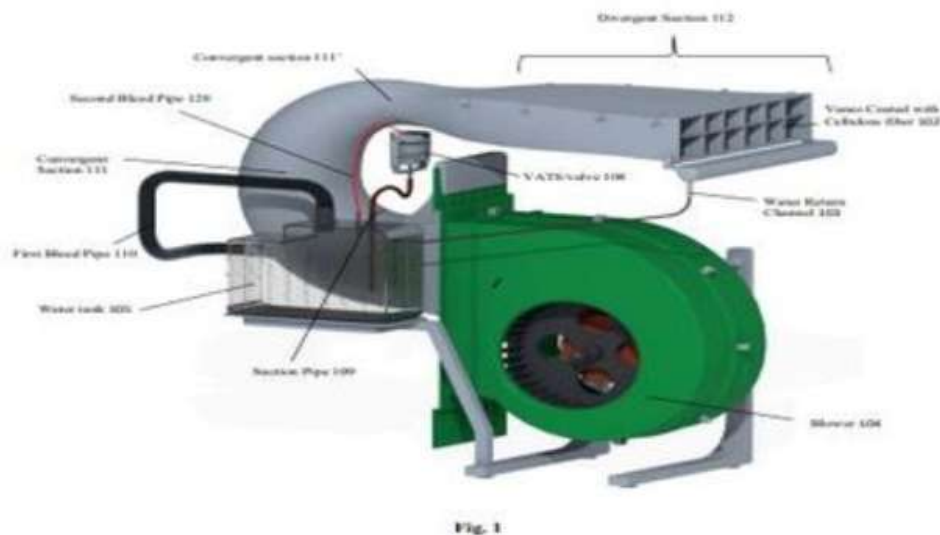
No. of Pages : 17 No. of Claims : 7

(54) Title of the invention : VENTURI AIR COOLER

(51) International classification	:F02M0026050000, G01F0001440000, E03D0001360000, F16K0015140000, E01H0001080000	(71) Name of Applicant : 1)HAVELLS INDIA LIMITED Address of Applicant :904, 9th Floor, Surya Kiran Building, KG Marg, Connaught Place, New Delhi-110001, Delhi, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GURSAGAR SINGH
(33) Name of priority country	:NA	2)ASHUTOSH KUMAR
(86) International Application No	:NA	3)UPENDRA VISHWAKARMA
Filing Date	:NA	4)VISHAL GARG
(87) International Publication No	: NA	5)DEVI MUTYALA
(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 a venturi effect air cooler wherein the requirement of a pump to lift water is eliminated and instead a VTAS vacuum to atmospheric switch valve toggle/valve is used to deliver water at the low pressure convergent section 111' or throat region of the duct. The valve lifts the water from an external water tank using the pressure difference between the converging sections, water tank and the valve chamber. The lifted water is delivered in the throat region of the duct to so that the blowing air can cause evaporation and thus a cooling effect is generated.



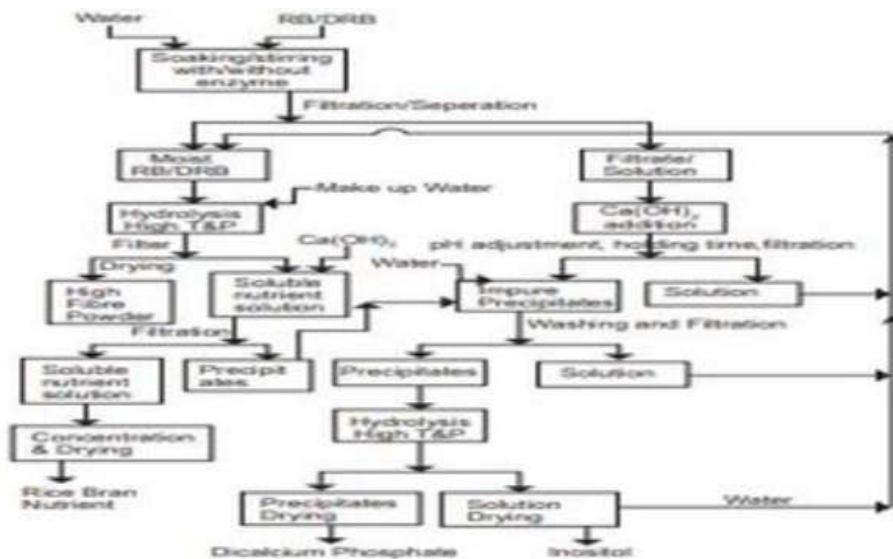
No. of Pages : 21 No. of Claims : 17

(54) Title of the invention : A NOVEL PROCESS FOR EXTRACTING USEFUL COMPONENTS FROM RICE BRAN

(51) International classification	:A23L0007100000, C04B0035597000, C07C0035160000, C11C0003000000, C04B0035560000	(71)Name of Applicant : 1)Dr. ARORA , Rajiv Address of Applicant :45 Preet Nagar, Ferozepur City, Punjab, India. Punjab India (72)Name of Inventor : 1)Dr. ARORA , Rajiv
(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 invention discloses an extraction process to derive useful components from rice bran. The process involves the simultaneous production of bran soluble nutrient mixture, dicalcium phosphate and inositol from crude rice bran (RB) and defatted rice bran (DRB).



No. of Pages : 21 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018372 A

(19) INDIA

(22) Date of filing of Application :29/04/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : LIGHT BASED SANITISATION SYSTEM FOR SHARED SPACES AND PRIVATE SPACES

(51) International classification	:H04L0029080000, H05B0037020000, C02F0001320000, G01S0005020000, A61L0002240000	(71) Name of Applicant : 1)Lithion Power Private Limited Address of Applicant :413, D-Mall, Sector-10, Rohini, Delhi-110085, India. Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BHIDE, Chandrashekhar
(33) Name of priority country	:NA	2)CHAUHAN, Manish
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 light based sanitization system capable of sanitizing closed shared spaces. The system further includes a motion detection system to ensure that the disinfection process does not take place in the presence of people/animals inside the common space. Additionally, the system is also integrated with an Internet of Things (IoT) layer to facilitate operation and monitoring of the light based system remotely. Such a system can also be integrated with an automatic disinfectant system after each use of a common space

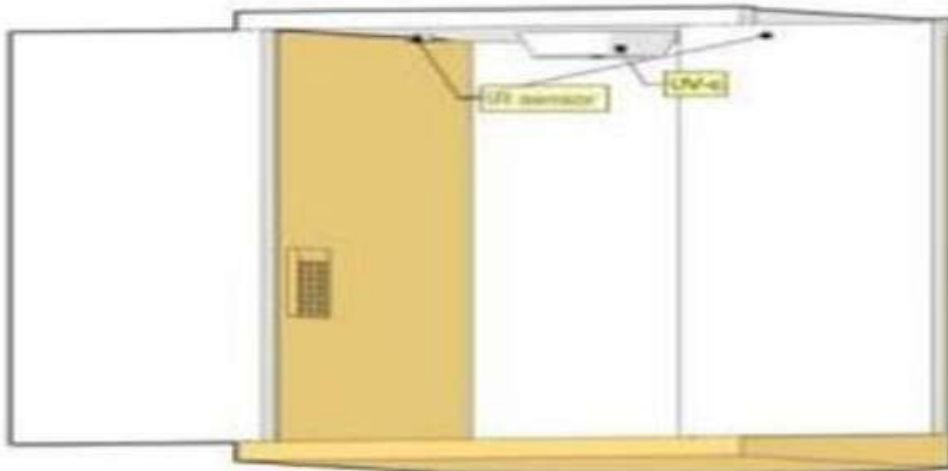


Figure 1

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018383 A

(19) INDIA

(22) Date of filing of Application :29/04/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : A UVC DECONTAMINATION DEVICE

(51) International classification	:A61N0005060000, A61L0002100000, A61L0009120000, F21V0029700000, B23K0026080000	(71) Name of Applicant : 1)Sandeep Sharma Address of Applicant :Main Road, near Nagar Palika Bikaner, Gangashahar, Bikaner, Rajasthan- . Rajasthan India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sandeep 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 is related to the to a UV C decontamination device comprises a flash lamp made of quartz glass; a reflector so as to reflect the light emitted by the lamp. The present invention uses far-UVC light (207–222nm) efficiently that inactivates bacteria without harm to exposed mammalian skin. This is because, due to its strong absorbance in biological materials, far-UVC light cannot penetrate even the outer (non living) layers of human skin or eye.

No. of Pages : 10 No. of Claims : 3

(54) Title of the invention : SYSTEM FOR REAL TIME ON-BOARD MONITORING OF WHEEL ALIGNMENT AND BALANCE

(51) International classification :G01B0011275000,
G01B0005255000,
B62D0017000000,
G01N0029240000,
G01B0021260000

(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 , UTTAR PRADESH, INDIA, 201313
Uttar Pradesh India

(72)**Name of Inventor :**
1)RAJKUMAR VIRAL
2)SAKET KUMAR

(57) Abstract :

The present invention relates to a system and method for real time on-board monitoring of wheel alignment and balance along with wheel pressure and 5 temperature estimation using laser and ultrasonic sensors. According to the present invention, camber, caster, toe (toe-in and toe-out), wheel alignment along with wheel air pressure and temperature parameters will be monitored in real time on an on-board system in the vehicle.

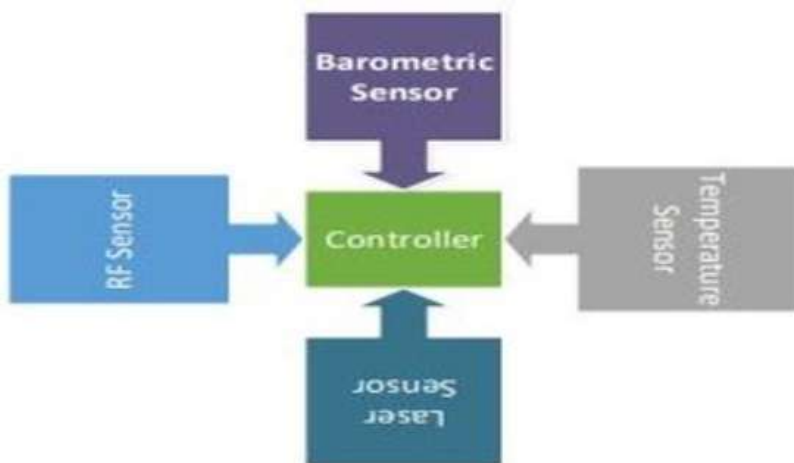


Fig. 1

No. of Pages : 19 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018389 A

(19) INDIA

(22) Date of filing of Application :29/04/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : SLANT ROOF TOP FOR RAIN WATER HARVESTING

(51) International classification	:E03B0003030000, E03B0001040000, E03B0003020000, A01B0079000000, E04D0013080000	(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)LAXMI AHUJA
(33) Name of priority country	:NA	2)AJAY RANA
(86) International Application No	:NA	3)SIDDHARTH GUPTA
Filing Date	:NA	
(87) 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 system and method for rain water harvesting by installing a slant roof top for accumulation of rain water. This slant roof top can be installed in parks, footpaths and leads to maximum areas covered under rain water harvesting. The invention attempts to bring that design to the architecture instead of shaping the architecture according to the design.

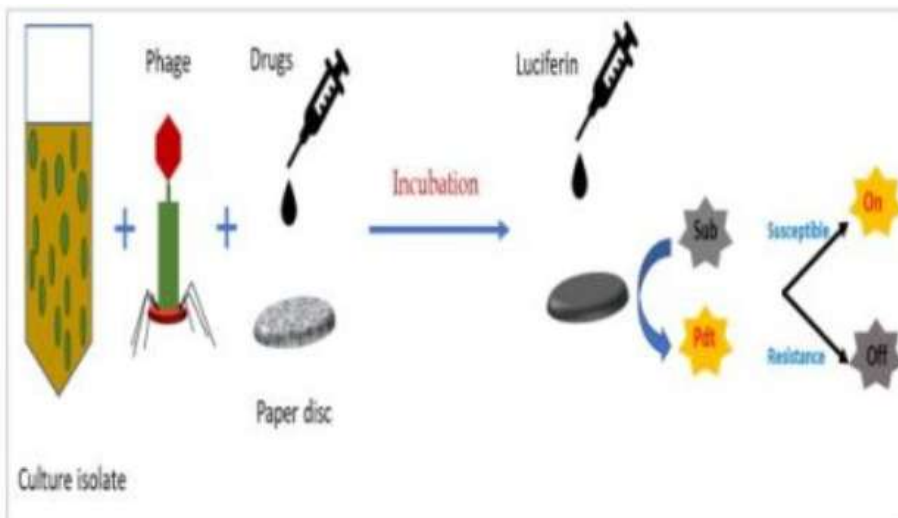
No. of Pages : 19 No. of Claims : 5

(54) Title of the invention : A PAPER DISC BASED METHOD FOR DETERMINING THE DRUG SUSCEPTIBILITY OF MYCOBACTERIUM TUBERCULOSIS

(51) International classification	:C12Q0001180000, C12Q0001689000, C12Q0001020000, C12Q0001040000, G01N0033500000	(71)Name of Applicant : 1)Indian Council Of Medical Research Address of Applicant :V. Ramalingaswami Bhawan, Ansari Nagar, New Delhi-110029, India Delhi India 2)Indian Institute of Technology Kharagpur
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)CHAKRABORTY, Suman
(33) Name of priority country	:NA	2)TRIPATHY, Srikanth Prasad
(86) International Application No	:NA	3)AZGERDUSTHACKEER, V. N.
Filing Date	:NA	4)KAR, Shantimoy
(87) International Publication No	: NA	5)MAHIZHAVENI, B.
(61) Patent of Addition to Application Number	:NA	6)GOVINDARAJAN, S.
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a method for determining drug susceptibility of bacteria. More specifically, the present invention provides a paper disc based method for determining the drug susceptibility of M. tuberculosis comprising preparing a paper disc and incubating with a sample; treating the disc with an antimicrobial drug; adding a bacteriophage to the drug treated disc and incubating at 37°C for a period of 180 minutes; and screening by addition of a substrate and measuring relative light units. Thus, the present invention provides a cost-effective, rapid and sensitive method for assessing drug resistance for tuberculosis.



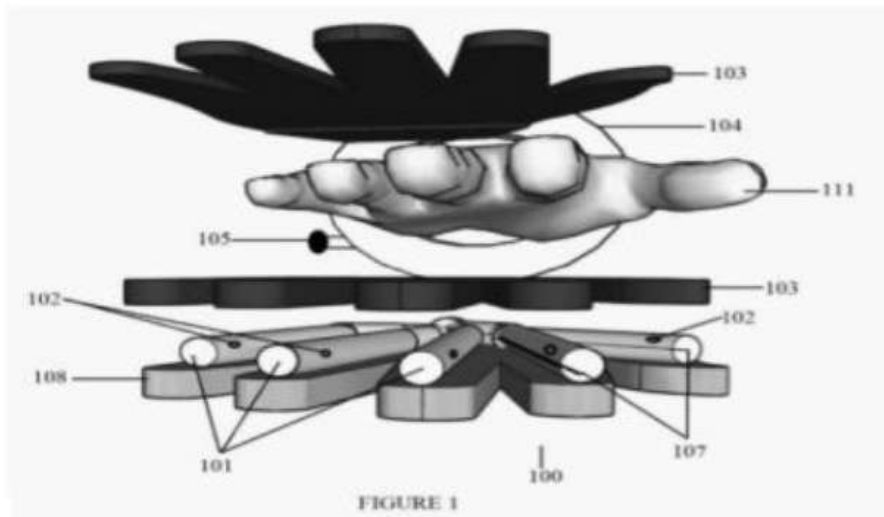
No. of Pages : 19 No. of Claims : 10

(54) Title of the invention : APPARATUS FOR DISINFECTING OBJECTS USING SYSTEMATIC WEARABLE GLOVES

(51) International classification	:A61M0025000000, A61L0011000000, A61L0002180000, A61L0002232000, A41D0019000000	(71) Name of Applicant : 1)Siddhant Gupta Address of Applicant :s/o Mr. B.K Gupta 8-B, Ashok Colony, Pilibhit, Uttar Pradesh, Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Siddhant Gupta
(33) Name of priority country	:NA	2)Saransh Gupta
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :

During this time of Covid-19 pandemic, hand sanitization has become inseparable part and crucial for ensuring personal safety by sanitizing hands time to time, the current 5 invention disclosure discloses a novel self-sanitizing gloves which has a unique assembly and construction wherein a pair of systematic gloves which will disinfect itself and surfaces upon contact/touching by releasing disinfectant liquid/chemical to kill germs etc. Gloves have a compartment for storing disinfectant liquid, when external pressure due to contact with an object is exerted to outer layer of gloves the 10 disinfectant liquid is released from holes of adjoining pipes due to compression into the porous external layer of gloves onto the surface of object that is exerting pressure on gloves; thus killing/destroying germs on the object as well as on external layer of gloves



No. of Pages : 36 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018476 A

(19) INDIA

(22) Date of filing of Application :30/04/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE BASED WEARABLE REMOTE HEALTH MONITORING DEVICE

(51) International classification	:A61B0005000000, A61B0005080000, A61B0005145500, A61B0005020500, A61B0005024000	(71) Name of Applicant : 1)ALL INDIA INSTITUTE OF MEDICAL SCIENCES (AIIMS) Rishikesh Address of Applicant :Rishikesh Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)DR MOHIT TAYAL
(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 invention relates to an artificial intelligence (AI) based wearable system and for remotely monitor the temperature, pulse rate, blood oxygen saturation and respiratory rate for knowing the condition of the patient. The device measures the vital parameters from the patient (both smart phone and non smart phone users), and transmits it to a network and is relayed to a hospital for close monitoring.

No. of Pages : 20 No. of Claims : 3

(54) Title of the invention : A SYSTEM FOR PROVIDING SCORES TO CUSTOMERS BASED ON FINANCIAL DATA

(51) International classification	:G16H0050300000, G06T0011000000, G06Q0020140000, G06F0016950000, H04N0019154000	(71) Name of Applicant : 1)Bottomline Technologies (de), Inc. Address of Applicant :325 Corporate Drive, Portsmouth New Hampshire, United States of America, 03801 U.S.A.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Anirban Sinharoy
(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 :

Disclosed is a system for providing scores to customers based on financial data. The system includes a central database stores plurality of modules, a central server processes the plurality of modules and a display unit displays the processed plurality of modules. The plurality of modules includes a criteria configuration module, a data module, and a computation module. The criteria configuration module includes a metric module to receive the input parameters required to evaluate the score, and a measurement module for defining transformation criteria to be applied on the data corresponding to the input parameters. The computation module includes a metric evaluation module to compute and applies the transformation criteria to the values of the input parameters, and a scoring module coupled to the metric evaluation module to automatically compute and display the score of the customers based on the values retrieved from the metric evaluation module.

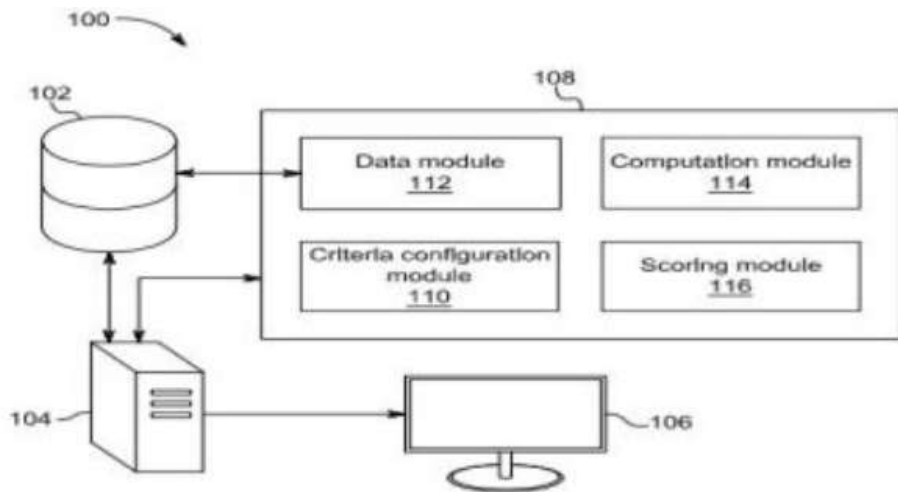


Fig.1

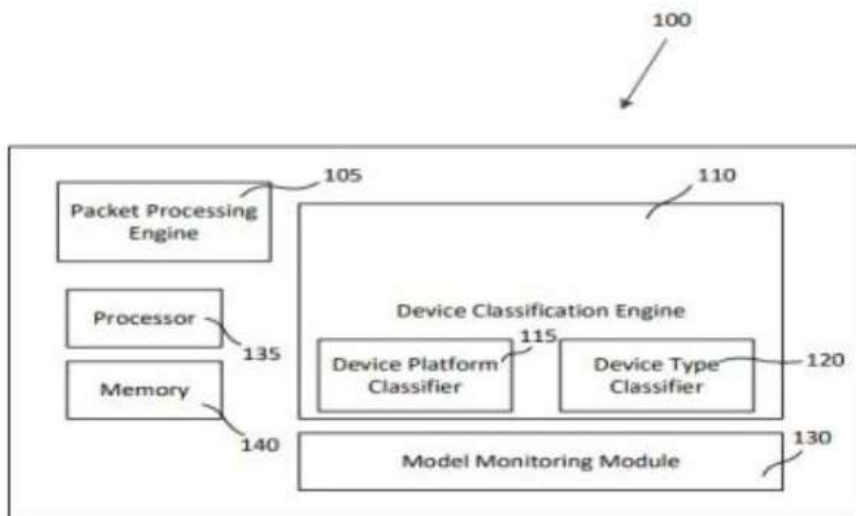
No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : SYSTEM AND METHOD FOR CLASSIFYING DEVICES

<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>:H04L0029060000, G06F0003048200, G06F0016280000, G06N0020000000, G16H0050200000</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)Sandvine Corporation Address of Applicant :408 Albert Street, Waterloo, Ontario N2L 3V3, Canada Canada</p> <p>(72)Name of Inventor : 1)SREEVALSAN, Shyam 2)MUTHYALA, Rajeswara Rao</p>
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(57) Abstract :

A method and system for classifying a device accessing a computer network. The method including: providing a framework of models configured to classify the device; reviewing a network traffic flow associated with a device; extracting flow attributes associated with a network traffic flow; deriving further flow attributes based on the extracted flow attributes; determining at least one model of the framework of models based on the derived flow attributes and extracted encrypted flow attributes; and classifying the device associated with the network traffic flow based on the at least one model. The system includes: a learning engine configured to provide a framework of models; a packet processing engine configured to review a network traffic flow associated with a device; a device classification engine configured to extract flow attributes, derive further flow attributes and determine at least one model; and a device information aggregator configured to classify the device.



No. of Pages : 35 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018495 A

(19) INDIA

(22) Date of filing of Application :30/04/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : A NOVEL PROCESS FOR THE PRODUCTION OF THE ANTI-DIABETIC SUGAR, D-ALLULOSE, BY USING A D-ALLULOSE 3-EPIMERASE OF BACILLUS SP. ORIGIN

(51) International classification	:C12N0009900000, C12P0019020000, A23L0027300000, A23L0033125000, A23L0033200000	(71)Name of Applicant : 1)Center of Innovative and Applied Bioprocessing Address of Applicant :Center of Innovative and Applied Bioprocessing (CIAB)(An institute of the Department of Biotechnology, Govt. of India) Sector-81 (Knowledge City), S.A.S. Nagar, Mohali-140306, IndiaTel. (Off.): +91 172 5221415 Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Sudhir Pratap Singh
(33) Name of priority country	:NA	2)Satya Narayan Patel
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 refers to a novel process for the production of a functional sugar of ultra-low calorie, D-allulose, form D-fructose employing a novel D-allulose 3-epimerase of Bacillus sp. origin. The enzyme has high thermal stability with high catalytic efficiency. It is a potential biocatalyst for industrial production of the rare sugar of health benefits and high-value, D-allulose. This is the first D-allulose 3-epimerase identified from Bacillus sp.

No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : A WIRELESS SMART SOLAR BOX

(51) International classification :A45C0011200000,
B65D0043160000,
A45C0015000000,
B65D0081380000,
B65D0081340000

(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 , UTTAR PRADESH, INDIA, 201313
Uttar Pradesh India

(72)**Name of Inventor :**
1)PAYAL RAWAT
2)KOMAL SAXENA
3)AJAY RANA
4)ALKA CHAUDHARY

(57) Abstract :

The present invention relates to a system and method for smart solar box. A wireless smart solar box is provided which comprises a bottle and lunch-box, for multi-purpose uses providing various features for heating the food, beverages. three sensors to keep the temperature in check. The product comprises of a box solar-panel which will help in making the product inside the box hot. It heats up the food or the water which is kept inside the lunchbox or the bottle. Figure 1a and 1b

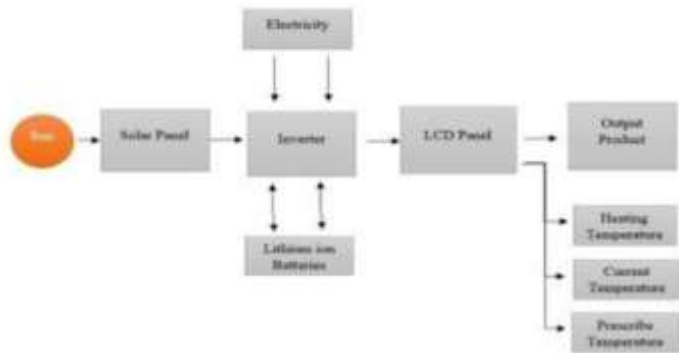


Fig 1a

No. of Pages : 22 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018557 A

(19) INDIA

(22) Date of filing of Application :30/04/2020

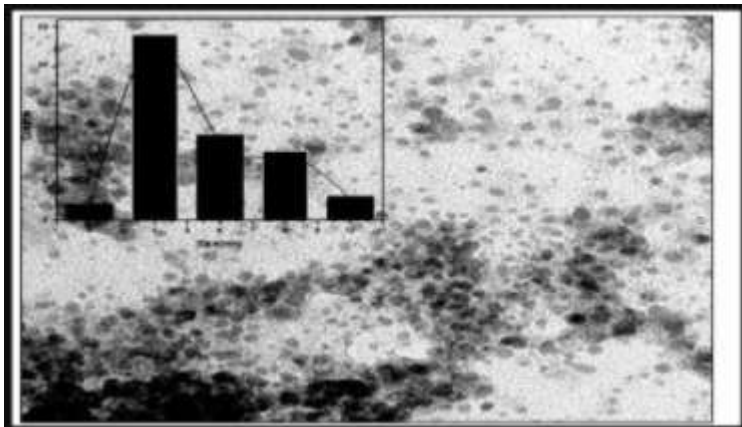
(43) Publication Date : 05/11/2021

(54) Title of the invention : A METHOD OF SYNTHESIZING CARBON DOTS AND A PRODUCT THEREOF

(51) International classification	:B82Y0040000000, B82Y0030000000, C08F0265060000, B01J0021180000, D01D0005000000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY), VARANASI Address of Applicant :Varanasi-221005, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)PRADIP PAIK
(33) Name of priority country	:NA	2)SOMEDUTTA MAITY
(86) International Application No	:NA	3)KIRTI WASNIK
Filing Date	:NA	4)PREM SHANKAR GUPTA
(87) 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 method of synthesizing carbon dots and a product thereof. More particularly, the present invention provides carbon dots comprising of carbon source which includes neem seed shell and provides water solubility, fluorescence intensity, cell viability, stability and biocompatibility and having applications in bio-labelling and cell-imaging and further provides method of preparation thereof.



No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : CONGESTION DETECTION AND MITIGATION IN CELLULAR COMMUNICATION

(51) International classification :H04W0028020000,
H04L0012801000,
H04W0072040000,
H04N0021610000,
H04W0074080000

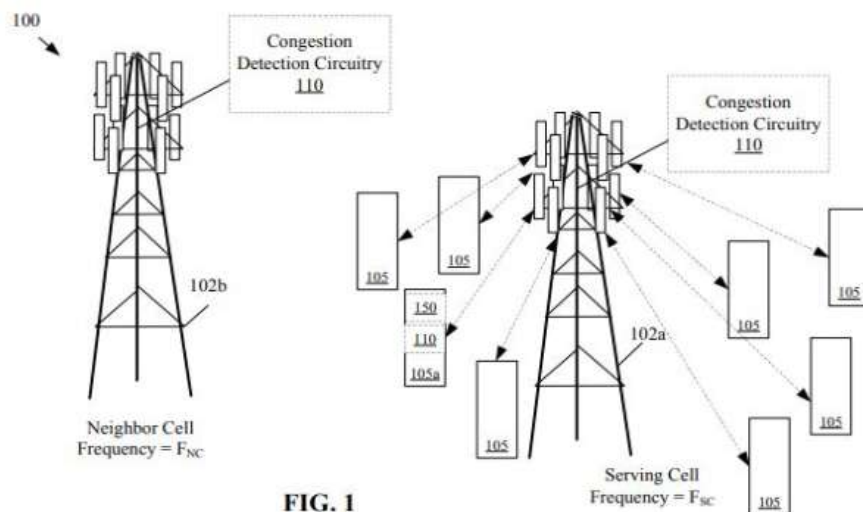
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)APPLE INC.
Address of Applicant :One Apple Park Way Cupertino,
California 95014, United States of America U.S.A.

(72)Name of Inventor :
1)AWATRAMANI, Punit H.
2)DHANAPAL, Muthukumaran
3)KHANDELWAL, Sulabh
4)GAURAV PATHAK
5)SINGH, Ajay
6)VENKATARAMAN, Vijay
7)ARORA, Dinesh Kumar
8)KAVURI, Lakshmi N.

(57) Abstract :

Systems, methods, and circuitries are provided for detecting and mitigating congestion in cellular communication. In one example, a congestion detection circuitry includes measurement circuitry and detection circuitry. The measurement circuitry is configured to determine values for one or more communication link parameters related to a wireless communication link. The detection circuitry is configured to determine whether a received signal strength of a signal transmitted by a serving cell is above a received signal strength threshold and determine a congestion metric representing a level of congestion for the serving cell. The congestion metric is determined based on a determination that the received signal strength is above the received signal strength threshold and that the determined values for the respective one or more communication link parameters meet respective one or more congestion criteria. The congestion metric is provided to a congestion mitigation system configured to adjust operation of the wireless communication device.



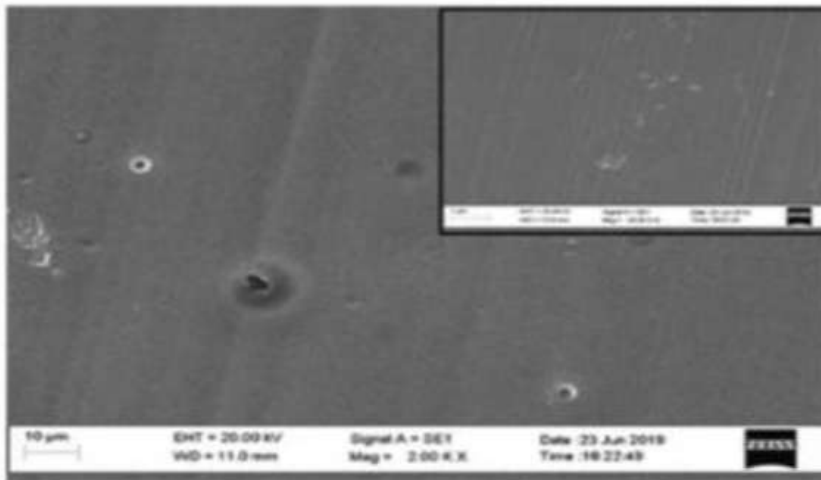
No. of Pages : 48 No. of Claims : 20

(54) Title of the invention : SOY-BASED ELECTROSPUN NANOFIBROUS SHEET AND METHOD OF ELECTROSPINNING THEREOF

(51) International classification	:D01D0005000000, D04H0001728000, A61L0027560000, A61L0027380000, A61L0027260000	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY), VARANASI Address of Applicant :Varanasi-221005, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SANJEEV KUMAR MAHTO
(33) Name of priority country	:NA	2)NEELIMA VARSHNEY
(86) International Application No	:NA	3)AJAY KUMAR SAHI
Filing Date	:NA	
(87) 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 novel electrospun nanofibrous sheet and a method of preparation thereof. The present invention provides a novel electrospun nanofibrous sheet comprising a plurality of electrospun nanofibers made from a blend of at least two polymers comprising a first polymer which is a soy protein isolate (SPI) powder and a second polymer which is a natural polymer preferably silk fibroin (SF), wherein, the ratio of SPI and SF is 0:1, 3:1, 1:1, or 1:3 (w/w) suitable for use in tissue engineering and other biomedical applications.



No. of Pages : 32 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018564 A

(19) INDIA

(22) Date of filing of Application :30/04/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : ANTI-VIRAL HERBAL INHALER HAVING NANO-GOLD BASED HERBAL FORMULATION

(51) International classification	:A61M0015000000, A61M0015060000, A61M0011040000, A61K0036590000, A61M0015080000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA-201313, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DHRUV KUMAR
(33) Name of priority country	:NA	2)BRIJESH RATHI
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 anti-viral herbal inhaler having nano-gold based herbal nasal cream formulation and it's method of preparation to inhibit the infection and propagation of SARS-CoV-2 through nasal air flow. The present invention relates to an anti-viral herbal inhaler having nano-gold based herbal nasal cream formulation using Gold Nanoparticle, Nanocurcumin, Paperin, Withaferin-A, Aswagandhanolide, Withanolide-D, Rhein, Aloe-Emodin, Allicin And Azadirachtin.

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

(54) Title of the invention : AN APPARATUS FOR CONNECTING RETRACTABLE LANYARDS AND HARNESS

(51) International classification :A61M0005315000,
H01R0031060000,
A45F0003140000,
A61M0005280000,
A62B0035000000

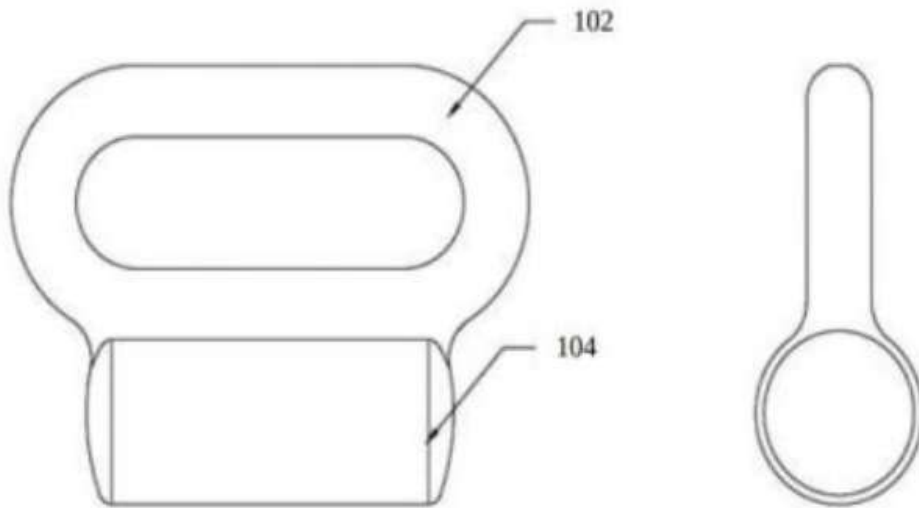
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)PN INTERNATIONAL PRIVATE LIMITED
Address of Applicant :C-12, Industrial Area, Nadarganj,
Lucknow, Uttar Pradesh, India, 226008. Uttar Pradesh India

(72)**Name of Inventor :**
1)NIGAM, Rajesh

(57) Abstract :

The apparatus (100) to connect retractable lanyards (306) and harness is disclosed comprising a harness connector (102) and barrel (104) with internal cavity. The harness connector (102) is connected with barrel (104) at one end and with webbings of harness at another end. The internal cavity of barrel (104) allows the connector pins of SRL connectors to slide in the barrel (104) and make connection with a plurality of the single/double leg retractable lanyards (306) through the SRL connector (304).



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018640 A

(19) INDIA

(22) Date of filing of Application :01/05/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : CPAP MASK WITH SIDE PORTS FOR PROVIDING CONTINUOUS POSITIVELY PRESSURIZED AIR TO A PATIENT WITH RESPIRATORY DISTRESS AND OTHER RESPIRATORY MEDICAL CONDITIONS

(51) International classification	:A61M0016060000, A61M0016080000, A61M0016000000, A61F0007020000, F16K0011070000	(71) Name of Applicant : 1)STERLITE TECHNOLOGIES LIMITED Address of Applicant :Sterlite Technologies Limited IFFCO Tower, 3rd Floor Plot No. 3, Sector 29 Gurgaon Haryana India Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr Sonal Asthana
(33) Name of priority country	:NA	2)Mr Ankit Agarwal
(86) International Application No	:NA	3)Shantha Kumar S.P
Filing Date	:NA	
(87) 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 provides a CPAP mask (102) with side ports for providing continuous positively pressurized air to a patient (124). The CPAP mask (102) includes a mask body, a plurality of strap holders (114), and a cushion seal (116). The mask body includes a left side wall (104), a left port (106), a front face (110), a right side wall (112), and a right port (108). In addition, the left side wall (104) has a first through-hole. Further, the left port (106) is on the left side wall (104). Furthermore, the front face (110) of the CPAP mask (102) is a transparent member. Moreover, the right side wall (112) has a second through-hole. Also, the right port (108) is on the right side wall (112). Also, the plurality of strap holders (114) is on the left side wall (104) and the right side wall (112).

No. of Pages : 29 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018709 A

(19) INDIA

(22) Date of filing of Application :01/05/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : STRUCTURE OF ECO-FRIENDLY MOSQUITO LARVAE TRAPPING DEVICE

(51) International classification	:A01M0001100000, A01M0001120000, B01D0035000000, A61B0005150000, G21F0005015000	(71) Name of Applicant : 1)Indian Council of Medical Research Address of Applicant :V. Ramalingaswami Bhawan, P.O. Box No. 4911, Ansari Nagar, New Delhi-110029, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)R. Paramasivan
(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 device for trapping mosquito larvae. The device is a novel ovitrap which is simple in use, eco-friendly and cost effective. Ovitrap structure comprises of breeding tray, stainless steel sieve, barriers (concial and syringe type), U shaped collection tube, wire mesh, thermocol ball and transparent acrylic tube.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018728 A

(19) INDIA

(22) Date of filing of Application :01/05/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED APPLICATION TESTING AND SCORING

(51) International classification	:H04L0029060000, G06F0011360000, G06Q0040060000, G06F0021570000, B23K0026030000	(71) Name of Applicant : 1)Accenture Global Solutions Limited Address of Applicant :3 Grand Canal Plaza, Grand Canal Street Upper, Dublin 4, Ireland Ireland
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)G RAO, Srikanth
(33) Name of priority country	:NA	2)SINGHAL, Tarun
(86) International Application No	:NA	3)SANDILYA, Mathangi
Filing Date	:NA	4)GULSHAN, Avishek
(87) International Publication No	: NA	5)SANKU, Saisandeep
(61) Patent of Addition to Application Number	:NA	6)SINHA, Arunabh
Filing Date	:NA	7)NOOJI SHEKAR, Jayaprakash
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A dynamic application testing and scoring system that tests applications under various tenets and categorizes the applications to be published, to be further reviewed or rejected. The results from administering a plurality of tests to an application are analyzed by applying rulesets that pertain to criteria under each of the tenets. An application score is determined from the analysis using weights associated with the tenets, priority levels of the criteria and the severity levels of the rulesets. The application score identifies a position for the application on a scoring scale relative to two trust threshold values. The application is categorized based on the position. Feedback regarding the categorization is received and the trust threshold values on the scoring scale can be adjusted if the categorization in the feedback is different from the categorization produced by the scoring system.

No. of Pages : 66 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018758 A

(19) INDIA

(22) Date of filing of Application :01/05/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN ANTI TREMOR PEN

(51) International classification	:A61B0005110000, A61K0039000000, A61J0001030000, A61B0005000000, G02B0027640000	(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)KIRAN SOMISETTI
(33) Name of priority country	:NA	2)CHARU JAIN
(86) International Application No	:NA	3)AARTI CHUGH
Filing Date	:NA	4)NISHA CHARAYA
(87) 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 anti tremor pen which reduces the effects caused by tremors while writing. The present invention relates to an anti tremor pen which includes a mechanism to reduce the effects caused by tremors while writing. The structure of the pen is as similar to normal pen which has an extra slot to incorporate the refill into it. Springs are used in between a slot and the outer surface which can absorb the vibrations and minimize the tremor frequency.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018761 A

(19) INDIA

(22) Date of filing of Application :01/05/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN METHOD FOR COBALT SUBSTITUTED ZINC FERRITE ASSISTED PHOTOCATALYTIC DEGRADATION OF METHYLENE BLUE

(51) International classification	:H01M0004505000, B01J0035000000, C01G0049000000, C01G0051000000, C04B0035260000	(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)DEEPIKA SINDHU
(33) Name of priority country	:NA	2)ATUL THAKUR
(86) International Application No	:NA	3)SHUBHI KESARWANI
Filing Date	:NA	4)PREETI THAKUR
(87) International Publication No	: NA	5)PRITAM BABU SHARMA
(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 synthesis of cobalt-zinc ferrite was performed successfully using citrate precursor method. XRD showed the single phase spinel structure with characteristic peak at (311) for all the samples. SEM Images showed the agglomeration at nanoscale of the ferrite nanomaterials. FT-IR spectroscopy showed the stretching vibration of metal ions at tetrahedral and octahedral sites confirming spinel crystal structure of the synthesized ferrites.

No. of Pages : 25 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018804 A

(19) INDIA

(22) Date of filing of Application :02/05/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR FACILITATING DATA FLOW THROUGH AR SIMULATED NODES

(51) International classification	:A43B0023020000, G09B0007020000, G06T0013200000, G10L0025480000, G01G0019393000	(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)CHANDER PARTAP SINGH
(33) Name of priority country	:NA	2)MANISHA
(86) International Application No	:NA	3)BHANU SHARMA
Filing Date	:NA	4)NARINDER PAL SINGH
(87) 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 provides a system and a method for facilitating dataflow through AR simulated set of nodes. A set of nodes is scanned by a scanning unit 110. An AR unit 102 is configured to simulate an AR view of the scanned set of nodes. A user is able to configure nodal attributes associated with each of the AR simulated set of nodes through a user device 106. A set of data packets entered by a user is able to configure nodal attributes of each of the AR simulated set of nodes. The entered set of data packets pertains to a set of instructions, when executed, performs any or a combination of establishment of communication channels, and simulation of data flow through the AR simulated set of nodes through the established communication channels.

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018805 A

(19) INDIA

(22) Date of filing of Application :02/05/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : STERILIZING APPARATUS

(51) International classification	:A61L0002200000, A47J0047000000, G03G0021200000, A61L0002240000, A61L0002040000	(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)KAPOOR, Mohit
(86) International Application No	:NA	3)KALRA, Sushil
Filing Date	:NA	4)BHOGAL, Sachin
(87) International Publication No	: NA	5)SINGH, Adish
(61) Patent of Addition to Application Number	:NA	6)SHARMA, Richa
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure describes about a sterilizing apparatus 100. The sterilizing apparatus 100 is used for chopping boards. The apparatus 100 includes a heating source 104, steam source coupled with a valve 102 and one or more lamps 108 inside the apparatus 100, and are operated by a control unit 106. The valve 102 operated by the control unit 106 allows the steam inside the apparatus 100. The control unit 106 is configured such that the steam source, the heating source 104 and the lamps 108 are operated for a predetermined time inside the apparatus 100 to kill the bacteria and infectants of the chopping board.

No. of Pages : 22 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018828 A

(19) INDIA

(22) Date of filing of Application :02/05/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : TILTMETER WITH LIQUID-LIQUID MEASURING UNIT

(51) International classification	:G01C0005040000, G01C0009220000, G01C0005000000, G01C0009060000, G01C0013000000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE Address of Applicant :Roorkee Uttarakhand India (72) Name of Inventor : 1)GOVIND RATHORE 2)PROF. MUKAT LAL
(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 invention provides a tiltmeter having adjustable resolution, which consists of two types of liquids with different colour and different density and a measuring box in the middle to take readings. Tiltmeter (100) consists of two identical jars (10, 11), one measuring box (12) between the jars (10, 11), connecting pipes (13, 14) and two liquids of different density out of which one is colored (15) and the other one is transparent (16). Two jars (10, 11) are placed on the two place, where tilt/height change has to be find out. Measuring box (12) has a measuring glass tube (17) for the measurements of the tilt/height change. It measures the height difference between two points, and this height difference can be converted into the tilt, if distance between these two points is known. Chemically treated coloured liquid is used in place of simple water with anti-corrosion, anti-freezing and low viscosity properties.
Figure 1

No. of Pages : 20 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018834 A

(19) INDIA

(22) Date of filing of Application :02/05/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : A MULTI-PURPOSE SOLAR ARTIFACT INTEGRATED WITH PHASE CHANGE MATERIAL

(51) International classification	:H01L0045000000, F24S0050200000, H01L0027240000, H02S0020320000, H02S0040440000	(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)ANANT PATIL
(33) Name of priority country	:NA	2)S N SRIDHARA
(86) International Application No	:NA	3)RAJESH ARORA
Filing Date	:NA	4)RANJANA ARORA
(87) 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 system and method for multi-purpose solar artifact integrated with phase change material in which photo-voltaic panels are arranged in umbrella pattern to capture maximum solar radiations and generate electrical and heat energy. The system and method for solar artifact integrated with phase change material also consists of a sun tracking device and a two-way cleaning system.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018845 A

(19) INDIA

(22) Date of filing of Application :02/05/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : DNA CONSTRUCT EXPRESSING RECEPTOR BINDING DOMAIN OF SARSCOV - 2 PROTEIN, RECOMBINANT PROETIN AND THE PROCESS TO PRODUCE THE SAME AND ITS USES THEREOF

(51) International classification	:C07K0014005000, A61K0039000000, A61K0038000000, G01N0033569000, C12N0015500000	(71) Name of Applicant : 1)TRANSLATIONAL HEALTH SCIENCE AND TECHNOLOGY INSTITUTE Address of Applicant :NCR Biotech Science Cluster, 3rd Milestone, Faridabad- Gurgaon Expressway, Faridabad - 121001, Haryana, India Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SHRIVASTAVA, Tripti
(33) Name of priority country	:NA	2)GOSWAMI, Sandeep
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 has been already established that this COVID-19 is potential threat to whole world due to its consistent spread across the globe and with continuously increasing numbers of new confirmed cases. The present invention provides codon optimized nucleotide sequences designed to express the RBD of spike protein from SARS-CoV-2, in the mammalian derived expression system. The said construct expresses the 330 to 526 amino acids of SARS-CoV-2 spike protein. The present invention can be used for identification of small molecules or peptides with antiviral potential, for the development of Antigen-antibody based diagnostic test and for the discovery and validation of antibodies targeting RBD of SARS-CoV-2. RBD as antigens for crystallization and electron microscopy (EM) structural analysis and for the identification of broad neutralizing antibodies from SARS infected, convalescent individuals or vaccinated subjects or antibody or ligand libraries. Also, it has strong applications in pharmaceutical, therapeutics and diagnostics industries.

No. of Pages : 70 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018850 A

(19) INDIA

(22) Date of filing of Application :03/05/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : IBP- NEBULIZER: INTELLIGENT NEBULIZER FOR BRONCHITIS PATIENTS

(51) International classification	:A61M0011000000, A61M0011060000, A61M0015000000, B05B0017000000, A61M0011020000	(71)Name of Applicant : 1)MR. HARINDER SINGH Address of Applicant :47 PANJABI BAGH PATIALA, PUNJAB-147001, INDIA. E-mail : harinderpt11@gmail.com Punjab India
(31) Priority Document No	:NA	2)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)
(32) Priority Date	:NA	3)PROF. DR. BIPLAB KUMAR SARKAR (FOUNDER-GEH- RESEARCH LLP)
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)MR. HARINDER SINGH
Filing Date	:NA	2)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)
(87) International Publication No	: NA	3)PROF. DR. BIPLAB KUMAR SARKAR (FOUNDER-GEH- RESEARCH LLP)
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

My Invention IBP- NEBULIZER is The bronchitis patients take nebulization on the allergy attack and sometimes they are given steroids. At home the dose is decided/performed/taken by the patient himself on his comfort. The present system may be harmful for the patient if overdose is taken or if not harmful then not good in long run. The concept envisions an artificial intelligence system which keeps an eye on extent of bronchitis inflation and deflation. The dose can be fixed and advised by doctor. The nebulizer would have also storage system for the liquid medicine and preserving the medicine by vacuum pressure or preservation of medicine can be avoided.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011018858 A

(19) INDIA

(22) Date of filing of Application :03/05/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : A MULTIPURPOSE LOW COST PORTABLE UV-C SANITIZATION CABINET FOR HOME AND OFFICE USE

(51) International classification	:A61L0002100000, A61L0002220000, C09D0005080000, C23C0018540000, H04W0092120000	(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)SAMEER SRIVASTAVA
(33) Name of priority country	:NA	2)NAND K. SINGH
(86) International Application No	:NA	3)ASHUTOSH MANI
Filing Date	:NA	4)RAJEEV TRIPATHI
(87) International Publication No	: NA	5)SHIVESH SHARMA
(61) Patent of Addition to Application Number	:NA	6)AMBAK KUMAR RAI
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to sanitization of a variety of daily use objects such as grocery, clothes, paper documents, currency bills/notes etc. More particularly, the present invention relates to a multi-purpose, low cost and portable device for sanitization of daily use objects which come under essential goods and are frequently accessed by a person. The device is useful in building a healthy and safe environment in household, offices and workspaces.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014021681 A

(19) INDIA

(22) Date of filing of Application :22/05/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : MECHANISM TO CAPTURE RAIN WATER RUNOFF TO RECHARGE AQUIFERS

(51) International classification	:E03F0001000000, B65F0001140000, A01G0025060000, B01D0035000000, G01N0001100000	(71) Name of Applicant : 1)MANMOHAN K. CHOPRA Address of Applicant :10341, Edgebrook Way, Porter Ranch, CA- 91326, United States of America U.S.A.
(31) Priority Document No	:16/865,349	(72) Name of Inventor : 1)MANMOHAN K. CHOPRA
(32) Priority Date	:02/05/2020	
(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 :

A system for treating rain water runoff at a ground surface before introduction to an aquifer includes an underground enclosure having an open top end substantially flush with the ground surface, a bottom end open having an exit port, and at least one rigid and water-impervious side wall. A cover recess is disposed at the top end of the enclosure to receive a rigid cover grate or a cover. At least one water permeable divider is disposed within the internal volume of the enclosure horizontally. At least one filter media is disposed upon the at least one divider. An exit conduit has a top end fixed with the exit port of the enclosure and projects downwardly towards the aquifer. The exit conduit includes a side wall that is at least partially perforated.

No. of Pages : 20 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014036822 A

(19) INDIA

(22) Date of filing of Application :26/08/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : AUTOMATIC TOOL CHANGING SYSTEM FOR MACHINE CENTER

(51) International classification	:G01D0005140000, F01L0001344000, F01L0001047000, B23Q0003157000, F01L0001053000	(71) Name of Applicant : 1)SANJET INTERNATIONAL CO. LTD. Address of Applicant :No. 288-1, Desheng Rd., Daya Dist., Taichung City 428, Taiwan
(31) Priority Document No	:109114537	(72) Name of Inventor : 1)CHING-SAN CHANG
(32) Priority Date	:30/04/2020	
(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 :

An automatic tool changing system (100) for a machine center includes a cam box (10), a drive assembly (30), an angle detecting module (40), and a programmable logic controller (50). The angle detecting module (40) includes a magnet (42) and a magnetic angle sensor (43). The magnet (42) is disposed on an end surface of a camshaft (31) of the drive assembly (30) and rotates as the camshaft (31) rotates. The magnetic angle sensor (43) is fixed on the cam box (10) and contactlessly senses a rotation angle of magnetic lines (ML) of the magnet (42) to correspondingly generate a signal. The programmable logic controller (50) receives the signal generated by the magnetic angle sensor (43) and controls a mechanical system and an electrical system of the machine center to conduct a tool changing operation according to the received signal. In this way, the rotation angle of the camshaft (31) could be sensed by a mean of magnetic induction without occupying a volume of the automatic tool changing system (100).

No. of Pages : 22 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014036939 A

(19) INDIA

(22) Date of filing of Application :27/08/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : ORGANIC LIGHT EMITTING DIODE (OLED) DISPLAY PANEL

(51) International classification	:H01L0027320000, H01L0033400000, H01L0051520000, H01L0051000000, G02F0001133500	(71) Name of Applicant : 1)AU OPTRONICS CORPORATION Address of Applicant :NO.1, LI-HSIN RD.2, SCIENCE- BASED INDUSTRIAL PARK, HSINCHU, TAIWAN
(31) Priority Document No	:16/863,643	(72) Name of Inventor :
(32) Priority Date	:30/04/2020	1)Ting, Yung-Sheng
(33) Name of priority country	:U.S.A.	2)Wang, Yu-Ching
(86) International Application No	:NA	3)Lin, Yi-Hui
Filing Date	:NA	
(87) 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 organic light emitting diode (OLED) display panel includes a substrate, a reflective electrode disposed on the substrate, and a pixel define layer (PDL) formed on the substrate and the reflective electrode layer. The reflective electrode layer has multiple reflective structures, and each reflective structure has a first region and a second region. The PDL is provided with multiple openings corresponding to the reflective structures, such that the first region and the second region of each of the reflective structures are exposed in a corresponding one of the openings. Multiple organic emissive structures are correspondingly formed in the openings and covering the reflective structures, forming a plurality of pixels. For each respective pixel of the pixels, a first reflective ratio of the respective pixel corresponding to the first region is greater than a second reflective ratio of the respective pixel corresponding to the second region.

No. of Pages : 41 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017032552 A

(19) INDIA

(22) Date of filing of Application :29/07/2020

(43) Publication Date : 05/11/2021

(54) Title of the invention : NOVEL METAL LAYERED HYDROXIDE COMPLEX AND METHOD OF PREPARING SAME

(51) International classification	:H01M0010052500, C01G0053000000, F28D0020000000, B23K0010020000, C07C0063280000	(71) Name of Applicant : 1)WEBIOTREE CO., LTD. Address of Applicant :3F, 4-1, Yeongsin-ro 54-gil, Yeongdeungpogu, Seoul 07228, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2019- 0052504	(72) Name of Inventor :
(32) Priority Date	:03/05/2019	1)KIM, Ho-Jun
(33) Name of priority country	:Republic of Korea	2)KIM, Youn-Jin
(86) International Application No	:PCT/KR2020/005706	3)KIM, Ki-Yeok
Filing Date	:29/04/2020	
(87) 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 metal layered hydroxide complex and a method of preparing the metal layered hydroxide complex.

No. of Pages : 71 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114008253 A

(19) INDIA

(22) Date of filing of Application :26/02/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SKINCARE DEVICE HANDLE WITH FLEXIBLE PORTION

(51) International classification	:B26B0021220000, B26B0021400000, A46B0005000000, B29L0031000000, F16D0065120000	(71) Name of Applicant : 1)BIC VIOLEX S.A. Address of Applicant :58, AGIOU ATHANASIOU ST. 14569 ANOIXI, Greece Greece
(31) Priority Document No	:20172267.5	(72) Name of Inventor :
(32) Priority Date	:30/04/2020	1)PASPATIS Georgios
(33) Name of priority country	:EPO	2)TSEGENIDIS Anestis
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 handle (102) for a shaver including a manipulation portion (8), a connection portion (105) configured to connect to a razor cartridge, and a first flexible portion (9) connecting the manipulation portion to the connection portion, the first flexible portion including a plurality 10 of deformation cells of one or more predetermined shapes between the manipulation and connection portions. A skincare device (101) including same. A process of manufacturing such a handle.

No. of Pages : 22 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114012762 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : VALVE DEVICE, COOLING WATER CONTROL DEVICE, AND COOLING WATER CIRCUIT

(51) International classification	:F01P0011160000, F01P0007160000, F01P0007140000, B22D0011055000, F01P0011180000	(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	:2020-080891	(72) Name of Inventor :
(32) Priority Date	:01/05/2020	1)KAWASAKI, Takuya
(33) Name of priority country	:Japan	2)FUJITANI, Toshiaki
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 valve device 1 includes a rotational shaft 2, and a valve body 4 internally forming a space 10 and rotatable about the rotational shaft 2, the valve body 4 having an outer 5 circumferential surface 28 where a first communication hole 36 and a bottomed groove 38 are formed, the first communication hole 36 communicating with the space 10, the bottomed groove 38 extending from the first communication hole 36 toward one side in a rotational direction of the rotational shaft 2, and the groove 38 including a first section 40 in which at least one of a depth D of the groove 38 and a width W of the groove 38 increases toward the 10 first communication hole 36.

No. of Pages : 37 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016530 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DATABASE MANAGEMENT

(51) International classification :G06F0016230000,
H04L0009320000,
G06F0009460000,
G06F0016210000,
H04L0009060000

(31) Priority Document No :16/162269
(32) Priority Date :16/10/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/049615
Filing Date :05/09/2019
(87) International Publication No :WO 2020/081163
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MICROSOFT TECHNOLOGY LICENSING, LLC
Address of Applicant :One Microsoft Way Redmond,
Washington 98052-6399 U.S.A.
(72)Name of Inventor :
1)VASWANI, Kapil
2)COSTA, Manuel
3)RUSSINOVICH, Mark

(57) Abstract :

A database management system (DBMS) comprises one or more transaction processing engines (such as SQL engines) configured to execute a series of database transactions, each being executed according to one or more commands received in at least one transaction execution message so as to cause a change of state of the database from a previous state to a new state. The DBMS is configured to generate a series of transaction log records and provide the series of transaction log records to a blockchain network for storing in a blockchain secured by the blockchain network. Each transaction log record corresponds to one of the database transactions and comprises (i) the one or more commands according to which it was executed and (ii) results of its execution. The series of transaction log records constitutes an immutable audit log from which database is fully recoverable for auditing purposes.

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016531 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : CAMERA POSE ESTIMATION USING OBFUSCATED FEATURES

(51) International classification	:G06T0007730000, G06K0009460000, G06T0007330000, G01C0021360000, G06K0009620000	(71) Name of Applicant : 1)MICROSOFT TECHNOLOGY LICENSING, LLC Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:16/168601	(72) Name of Inventor :
(32) Priority Date	:23/10/2018	1)SINHA, Sudipta Narayan
(33) Name of priority country	:U.S.A.	2)POLLEFEYS, Marc Andre Leon
(86) International Application No	:PCT/US2019/056283	3)KANG, Sing Bing
Filing Date	:15/10/2019	4)SPECIALE, Pablo Alejandro
(87) International Publication No	:WO 2020/086333	
(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 estimating a camera pose includes recognizing a three-dimensional (3D) map representing a physical environment, the 3D map including 3D map features defined as 3D points. An obfuscated image representation is received, the representation derived from an original unobfuscated image of the physical environment captured by a camera. The representation includes a plurality of obfuscated features, each including (i) a two-dimensional (2D) line that passes through a 2D point in the original unobfuscated image at which an image feature was detected, and (ii) a feature descriptor that describes the image feature associated with the 2D point that the 2D line of the obfuscated feature passes through. Correspondences are determined between the obfuscated features and the 3D map features of the 3D map of the physical environment. Based on the determined correspondences, a six degree of freedom pose of the camera in the physical environment is estimated.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016532 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ACTUATOR FRAME FOR SCANNING MIRROR

(51) International classification	:H02K0007000000, A61M0005142000, G02B0026100000, B60R0001040000, H02K0033160000	(71) Name of Applicant : 1)MICROSOFT TECHNOLOGY LICENSING, LLC Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:16/164526	(72) Name of Inventor :
(32) Priority Date	:18/10/2018	1)WANG, Jincheng
(33) Name of priority country	:U.S.A.	2)DAVIS, Wyatt Owen
(86) International Application No	:PCT/US2019/052530	3)NYSTROM, Michael James
Filing Date	:24/09/2019	4)MILLER, Joshua Owen
(87) International Publication No	:WO 2020/081199	5)JAMES, Richard Allen
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Examples are disclosed that relate to actuator frames for scanning mirror systems. In one example an actuator frame for a scanning mirror assembly comprises a mounting member comprising a first side and an opposite second side. A first moveable member comprises a first interior side that defines a first gap and a second gap with the first side of the mounting member. A second moveable member comprises a second interior side that defines a third gap and a fourth gap with the second side of the mounting member. A first hinge connects a central portion of the mounting member with the first moveable member, and a second hinge connects the central portion of the mounting member with the second moveable member.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016533 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DATABASE MANAGEMENT

(51) International classification :G06F0016230000,
H04L0029060000,
G06F0016270000,
H04L0009080000,
G06F0021100000
(31) Priority Document No :1816837.7
(32) Priority Date :16/10/2018
(33) Name of priority country :U.K.
(86) International Application No :PCT/US2019/049616
Filing Date :05/09/2019
(87) International Publication No :WO 2020/081164
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MICROSOFT TECHNOLOGY LICENSING, LLC
Address of Applicant :One Microsoft Way Redmond,
Washington 98052-6399 U.S.A.
(72)Name of Inventor :
1)VASWANI, Kapil
2)COSTA, Manuel

(57) Abstract :

A database transaction is executed in a computer of a system of networked computers having secure processing enclaves. Within the secure processing enclave, a database transaction log record for the executed database transaction is generated and cryptographically secured using a private key held in secure storage of the secure processing enclave. A state of the distributed database is recorded in a series of transaction log records which is replicated in distributed computer storage accessible to the networked computers. Consensus messages are transmitted and received via secure communication links between the secure processing enclaves of the networked computers, to incorporate the database transaction log record into the series of transaction log records in accordance with a distributed consensus protocol, which is implemented based on consensus protocol logic held within the secure processing enclave.

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016548 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SLAB CASTING METHOD

(51) International classification	:B22D0011060000, B21B0001460000, B22D0011000000, D06F0037260000, B29C0048080000	(71) Name of Applicant : 1)NIPPON STEEL CORPORATION Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008071 Japan
(31) Priority Document No	:2018-198355	(72) Name of Inventor :
(32) Priority Date	:22/10/2018	1)NIKKUNI Daisuke
(33) Name of priority country	:Japan	2)SHIRAIISHI Toshiyuki
(86) International Application No	:PCT/JP2019/041336	3)SADANO Yutaka
Filing Date	:21/10/2019	4)MIYAZAKI Masafumi
(87) International Publication No	:WO 2020/085313	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In this slab manufacturing method, a twin-drum continuous casting machine for manufacturing slabs by solidifying molten metal with a pair of rotating casting drums is used and casting drum housing rolling system deformation characteristics which were acquired prior to the start of slab casting and which indicate deformation characteristics of a housing supporting the casting drums and deformation characteristics of a screw-down system for screwing down the casting drums are used to calculate an estimated plate thickness of a slab at both ends in the width direction on the basis of formula 1 ((Estimated plate thickness) = (Screw-down position of cylinder) + (Elastic deformation of casting drum) + (Casting drum housing screw-down system deformation) + (Drum profile of casting drum) - (Elastic deformation of casting drum at time of screw-down position zero-point adjustment)), and the screw-down position of the cylinder provided at both ends of the casting drums in the width direction is controlled such that the difference between the estimated plate thickness at the two ends is less than or equal to a prescribed value.

No. of Pages : 34 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016549 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ANOMALY DETECTION AND CORRELATION SYSTEM FOR A MAGNET SYSTEM

(51) International classification	:G06F0011070000, G01N0029040000, G07C0005000000, G06F0011300000, G01B0007140000	(71) Name of Applicant : 1)SIEMENS HEALTHCARE LIMITED Address of Applicant :Siemens Healthcare Ltd Wharf Road EYNSHAM Oxfordshire OX29 4BP U.K.
(31) Priority Document No	:1817592.7	(72) Name of Inventor : 1)EDGLEY, Paul William
(32) Priority Date	:29/10/2018	
(33) Name of priority country	:U.K.	
(86) International Application No	:PCT/EP2019/078464	
Filing Date	:18/10/2019	
(87) International Publication No	:WO 2020/088959	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An anomaly detection system comprising a diagnostic interface (10) and a data acquisition system (11) capable of recording data indicating variation of voltages at tapping points (20) in a superconducting magnet. Data representing those variations in voltages may be stored as a data log and a processor may analyse the data in order to identify a mechanical impact.

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016550 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ELECTRONIC MODULE FOR CHIP CARD

(51) International classification	:H01L0023000000, G06K0019077000, H05K0001180000, H01L0021480000, H01L0023500000	(71) Name of Applicant : 1)SMART PACKAGING SOLUTIONS Address of Applicant :85 avenue de la Plaine - ZI de Rousset 13790 ROUSSET France
(31) Priority Document No	:1860297	(72) Name of Inventor :
(32) Priority Date	:08/11/2018	1)CALVAS, Bernard
(33) Name of priority country	:France	2)VOLPE, Pierre
(86) International Application No	:PCT/EP2019/077275	
Filing Date	:09/10/2019	
(87) International Publication No	:WO 2020/094320	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Process for producing an electronic module that is intended for implementation in a dual portable object, characterized in that it includes at least the following steps: • Using a single-sided film (4) consisting of one or more contact zones (3) and a dielectric comprising one or more openings; • Using a substrate (6) comprising one or more electrically conductive zones that are intended for the contactless communication of the object; • Fixing said single-side film (4) and said substrate (6) together; • Positioning an integrated circuit (20) and connecting it to the contact zones (3) of the single-sided film and at least one terminal of at least one of said electrically conductive zones; • Depositing a protective layer (21) surrounding at least said integrated circuit. Module obtained by means of the process.

No. of Pages : 9 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016552 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : HOT ROLLED STEEL SHEET

(51) International classification	:C22C0038040000, C22C0038000000, C22C0038060000, C22C0038020000, C21D0009460000	(71) Name of Applicant : 1)NIPPON STEEL CORPORATION Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008071 Japan
(31) Priority Document No	:2018-197937	(72) Name of Inventor :
(32) Priority Date	:19/10/2018	1)SHUTO Hiroshi
(33) Name of priority country	:Japan	2)SAKAKIBARA Akifumi
(86) International Application No	:PCT/JP2019/041330	3)KAI Shinsuke
Filing Date	:21/10/2019	4)HAYASHI Koutarou
(87) International Publication No	:WO 2020/080554	5)KAIDO Hiroshi
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This hot rolled steel sheet has a predetermined chemical composition, wherein the metallic structure in a sheet-width cross section in parallel with the rolling direction, at a 1/4 depth of the sheet thickness from the surface, and at the center position in the sheet-width direction includes, by area%, a total of 77.0-97.0% of bainite and tempered martensite, 0-5.0% of ferrite, 0-5.0% of pearlite, not less than 3.0% of retained austenite, and 0-10.0% of martensite. The average crystal particle size in the metallic structure excluding the retained austenite is not more than 7.0 μm . The C concentration in the retained austenite is not less than 0.5 mass%. The number density of iron-based carbides with a diameter of not less than 20 nm is not less than 1.0×10^6 pieces/mm².

No. of Pages : 63 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016553 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : RANDOM ACCESS IN A SATELLITE COMMUNICATION SYSTEM

(51) International classification	:H04W0074080000, H04B0007185000, H04W0084060000, H04B0007060000, G01S0005020000
(31) Priority Document No	:18200419.2
(32) Priority Date	:15/10/2018
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2019/077945
Filing Date	:15/10/2019
(87) International Publication No	:WO 2020/078992
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)IPCOM GMBH & CO. KG

Address of Applicant :Zugspitzstrasse 15 82049 Pullach
Germany

(72)Name of Inventor :

1)BIENAS, Maik

2)SCHMIDT, Andreas

3)HANS, Martin

(57) Abstract :

The present invention provides a method of performing by a UE device a random access attempt in a communication system comprising at least one non-terrestrial transmission station, the method comprising receiving reference signals transmitted by the non-terrestrial transmission station; determining from the received reference signals a trip time between the UE device and the non-terrestrial transmission station; and using the trip time to control the random access attempt.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016555 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ROLLING BEARING, AND WIND POWER GENERATION ROTOR SHAFT SUPPORT DEVICE

(51) International classification	:C23C0014060000, F16C0033320000, F16C0033620000, F16C0033580000, C23C0014020000	(71) Name of Applicant : 1)NTN CORPORATION Address of Applicant :3-17, Kyomachibori 1-chome, Nishi-ku, Osaka-shi, Osaka 5500003 Japan
(31) Priority Document No	:2018-180924	(72) Name of Inventor :
(32) Priority Date	:26/09/2018	1)NAKANISHI Masaki
(33) Name of priority country	:Japan	2)MIKAMI Hidenobu
(86) International Application No	:PCT/JP2019/037948	
Filing Date	:26/09/2019	
(87) International Publication No	:WO 2020/067334	
(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 rolling bearing that has a hard film on the inner/outer ring raceway surface etc. of the rolling bearing, that improves the peel-off resistance of the hard film and exhibits characteristics inherent in the film, and that suppresses aggressiveness with respect to a mating material. A rolling bearing 1 comprises: an inner ring 2 having an inner ring raceway surface 2a on the outer periphery; an outer ring 3 having an outer ring raceway surface 3a on the inner periphery; and a plurality of rolling bodies 4 that roll between the inner ring raceway surface 2a and the outer ring raceway surface 3a. A hard film 8 is a structure made of: an underlayer that is formed directly on the inner ring raceway surface 2a and the outer ring raceway surface 3a and is composed mainly of Cr and WC; a mixed layer that is formed on the underlayer and is a graded composition composed mainly of WC and DLC; and a surface layer that is formed on the mixed layer and composed mainly of DLC. The arithmetic mean roughness Ra of a roughness curve on the surface of the hard film where the underlayer is formed is 0.3 µm or less, and the root mean square slope Rq is 0.05 or less.

No. of Pages : 43 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016638 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR PRODUCING ZINC HYDROGEN PHOSPHATE HYDRATE

(51) International classification :C01B0025370000,
B01J0027180000,
C01G0009000000,
H01M0008104800,
C01G0009030000

(31) Priority Document No :1858193
(32) Priority Date :12/09/2018
(33) Name of priority country :France
(86) International Application No :PCT/MA2019/000005
Filing Date :12/09/2019
(87) International Publication No :WO 2020/055222
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)OCP SA

Address of Applicant :Hay Erraha Rue AI Abtal No. 2-4
Casablanca 20200 MORACCO

(72)Name of Inventor :

1)KHALESS, Khaoula

2)DHIBA, Driss

3)BOULIF, Rachid

(57) Abstract :

The present invention relates to a method for producing hydrated zinc hydrogen phosphate ($Zn_3(HPO_4)_3 \cdot 3H_2O$) from zinc oxide ZnO and phosphoric acid H_3PO_4 , mainly characterized in that it comprises the following steps: placing the phosphoric acid in a reactor, dissolving a determined quantity of zinc oxide in the phosphoric acid to form a reaction mixture, said determined quantity of zinc oxide being chosen so as to have a weight ratio between the phosphoric acid and the zinc oxide H_3PO_4/ZnO greater than or equal to 1, mechanically mixing the reaction mixture to form the hydrated zinc hydrogen phosphate.

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117016644 A

(19) INDIA

(22) Date of filing of Application :08/04/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : WELDING DEVICE AND WELDING METHOD HAVING SELF-ADJUSTING WELDING WIRE ADVANCING SPEED

(51) International classification	:B23K003530000, B23K0009133000, B23K0009120000, B23K0009100000, F16C0019520000	(71) Name of Applicant : 1)FRONIUS INTERNATIONAL GMBH Address of Applicant :Froniusstraße 1 4643 Pettenbach Austria
(31) Priority Document No	:18194863.9	(72) Name of Inventor :
(32) Priority Date	:17/09/2018	1)WILLINGER, Martin
(33) Name of priority country	:EPO	2)ARTELSMAIR, Josef
(86) International Application No	:PCT/EP2019/074662	3)LATTNER, Peter
Filing Date	:16/09/2019	4)KRUGLHUBER, Wolfgang
(87) International Publication No	:WO 2020/058169	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The aim of the invention is to control the feed of welding wire (8) to the weld (25) in a simple manner in a welding method. This aim is achieved, according to the invention, in that the electric potential (P) arising around the electrode (4) as a result of the welding current (IS) is tapped by means of the welding wire (8), the welding wire advancing speed (vD) is controlled on the basis of the tapped potential (P), and an average welding wire advancing speed (formula (I)) arises as a result of the control.

No. of Pages : 14 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018485 A

(19) INDIA

(22) Date of filing of Application :21/04/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR END-TO-END ARTICLE MANAGEMENT

(51) International classification	:H04L0012240000, B01J0029700000, G03F0007200000, G06F0003048300, C12M0001000000	(71) Name of Applicant : 1)THE NORTH FACE APPAREL CORP. Address of Applicant :200 Hanby Building 3411 Silverside Road Wilmington, Delaware 19810 U.S.A.
(31) Priority Document No	:62/768506	(72) Name of Inventor :
(32) Priority Date	:16/11/2018	1)PAGE, Graham
(33) Name of priority country	:U.S.A.	2)PEREZ, Anthony
(86) International Application No	:PCT/US2019/061501	3)DIETZ, Angelique
Filing Date	:14/11/2019	4)ROGERS, Charles
(87) International Publication No	:WO 2020/102553	5)AGHANOURI, Abolfazl
(61) Patent of Addition to Application Number	:NA	6)GOPARAJU, Subra
Filing Date	:NA	7)BALABANOV, Demitri
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems and methods are described for managing articles. The systems and methods described herein may comprise an example method for manufacturing an article. The systems and methods provides an end-to-end manufacturing value chain as a closed system and feedback loop.

No. of Pages : 47 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117018691 A

(19) INDIA

(22) Date of filing of Application :22/04/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR END-TO-END ARTICLE MANAGEMENT

(51) International classification	:H04L0012240000, B01J0029700000, G03F0007200000, G06F0003048300, C12M0001000000	(71) Name of Applicant : 1)THE NORTH FACE APPAREL CORP. Address of Applicant :200 Hanby Building 3411 Silverside Road Wilmington, Delaware 19810 U.S.A.
(31) Priority Document No	:62/768506	(72) Name of Inventor :
(32) Priority Date	:16/11/2018	1)PAGE, Graham
(33) Name of priority country	:U.S.A.	2)PEREZ, Anthony
(86) International Application No	:PCT/US2019/061520	3)DIETZ, Angelique
Filing Date	:14/11/2019	4)ROGERS, Charles
(87) International Publication No	:WO 2020/102567	5)AGHANOURI, Abolfazl
(61) Patent of Addition to Application Number	:NA	6)GOPARAJU, Subra
Filing Date	:NA	7)BALABANOV, Demitri
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems and methods are described for managing articles. The systems and methods described herein may comprise an example method for manufacturing an article. The systems and methods provides an end-to-end manufacturing value chain as a closed system and feedback loop.

No. of Pages : 47 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117022527 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR MANUFACTURING CATHODE FOR SECONDARY BATTERY, CATHODE MANUFACTURED THEREBY, AND LITHIUM SECONDARY BATTERY COMPRISING SAME CATHODE

(51) International classification	:H01M0010052500, H01M0004040000, H01M0004020000, H01M0004139100, H01M0004131000	(71) Name of Applicant : 1)LG ENERGY SOLUTION, LTD. Address of Applicant :Tower 1, 108, Yeoui-daero, Yeongdeungpo-gu, Seoul 07335 Republic of Korea
(31) Priority Document No	:10-2019-0051914	(72) Name of Inventor :
(32) Priority Date	:03/05/2019	1)CHAE, Oh Byong
(33) Name of priority country	:Republic of Korea	2)WOO, Sang Wook
(86) International Application No	:PCT/KR2020/005725	3)KIM, Ye Ri
Filing Date	:29/04/2020	
(87) International Publication No	:WO 2020/226354	
(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 method for manufacturing a cathode for a secondary battery, the method comprising the steps of: providing a cathode having a cathode current collector and a cathode active material layer formed on the cathode current collector and containing a lithium transition metal oxide; and impregnating the cathode with an electrolyte containing a film-forming additive, and charging and discharging the cathode by using a counter electrode to pre-lithiate the cathode.

No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023135 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR PREPARING N-PHENYLPYRAZOLE-1-CARBOXAMIDES

(51) International classification	:C07C0237300000, C07C0255580000, C07D0231200000, C07D0231160000, C09J0011060000	(71) Name of Applicant : 1)FMC CORPORATION Address of Applicant :2929 Walnut Street Philadelphia, PA 19104 U.S.A. 2)FMC AGRO SINGAPORE PTE LTD.
(31) Priority Document No	:62/774436	(72) Name of Inventor :
(32) Priority Date	:03/12/2018	1)BOOTH, Steven, T.
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/062778	
Filing Date	:03/12/2019	
(87) International Publication No	:WO 2020/117493	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method is disclosed for preparing compounds of Formula 1 by combining compounds of Formulae 2 and 3 and a sulfonyl chloride in a continuous process.

No. of Pages : 59 No. of Claims : 46

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023136 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEM AND METHOD TO DETECT ARTICULATE BODY POSE

(51) International classification :G06K0009000000,
G06K0009620000,
G06T0007593000,
H04N0019124000,
G06T0007730000

(31) Priority Document No :16/207296

(32) Priority Date :03/12/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/IB2019/058911
Filing Date :18/10/2019

(87) International Publication No :WO 2020/115579

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

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

(71)**Name of Applicant :**
1)EVERSEEN LIMITED
Address of Applicant :4th Floor, The Atrium Blackpool Retail
Park Blackpool Ireland

(72)**Name of Inventor :**
1)PESCARU, Dan

(57) Abstract :

A system for detecting an articulate body pose from an imagery content includes an imaging module for capturing the imagery content, and a processor that is operable to obtain a top-down view of the imagery content, and process the top-down view to detect the articulate body pose using a machine learning algorithm, wherein the articulate body pose includes a plurality of joints. The processing includes creating a part confidence map corresponding to each joint of the articulate body pose, generating a heatmap by projecting the part confidence map on the top-down view of the imagery content, creating a part affinity map corresponding to each body part, generating a vector map by projecting the part affinity map on the top-down view of the imagery content, and generating a body-framework corresponding to the articulate body pose, using the heatmap and the vector map.

No. of Pages : 13 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023143 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD OF BLASTING USING JET UNITS CHARGED IN A BLAST-HOLE

(51) International classification	:F42D0003040000, F42D0001000000, F42B0033060000, F42D0005000000, F42D0001020000	(71) Name of Applicant : 1)KWON, Moon-Jong Address of Applicant :601 132, Haksa-ro, Buk-gu Busan 46527 Republic of Korea
(31) Priority Document No	:10-2018-0126506	(72) Name of Inventor : 1)KWON, Moon-Jong
(32) Priority Date	:23/10/2018	
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:PCT/IB2019/058930	
Filing Date	:20/10/2019	
(87) International Publication No	:WO 2020/084428	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Liners (150), fittings (11- 22), and spacers (23-25) are provided to assemble the jet (170) units, which work as explosives (110) and detonators (120) to form stand-off distance and air-deck (140) space. The liners (150) release jets (170) and the fittings (11- 22) and spacers (23-25) are designed to attach the liner (150) firmly to the explosives (110), inducing the cavity effect. The objective of the present invention is to provide a blasting method using a jet (170) unit to overcome the limits of sympathetic detonation, applying a mechanism that is ideal according to the analysis of observations in blast-hole (100) blasting. The application of jet (170) units for jet (170) detonation in blast-hole (100) blasting overcomes the performance limits of explosives (110) manufacturing and the conceptual limits of detonators (120) functionalities and improves the channel effect, dead pressing, loss of power, and stopping of detonation etc. Particularly, the application of controlled blasting and air-decking can be carried out without restriction while maintaining the safety of the slurry or emulsion explosives (110).

No. of Pages : 13 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023149 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MOBILE CONSTRUCTION CRANE HAVING AN UPPER AND LOWER CARRIAGE AND ONE OR MORE ELECTRICAL CONSUMERS

(51) International classification	:B66C0023620000, B66C0023800000, B66C0023840000, B66C0023380000, B66C0023400000
(31) Priority Document No	:10 2018 126 632.4
(32) Priority Date	:25/10/2018
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2019/078961
Filing Date	:24/10/2019
(87) International Publication No	:WO 2020/084026
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)LIEBHERR-WERK BIBERACH GMBH

Address of Applicant :Memminger Straße 120 88400
Biberach an der Riss Germany

(72)Name of Inventor :

1)ASSFALG, Martin

2)EGGERT, Michael

3)SCHMID, Gerhard

(57) Abstract :

The invention relates to a mobile construction crane having an upper and lower carriage, wherein one or more electrical consumers (11, 12) are provided in or on the upper carriage (10), wherein the one or more electrical consumers are supplied with electrical energy by at least one power generator (23) installed in the lower carriage (20).

No. of Pages : 8 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023166 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PLANT VECTORS, COMPOSITIONS AND USES RELATING THERETO

(51) International classification	:C12N0015820000, C12N0015100000, C07K0014005000, C07K0014435000, A61K0031705200	(71) Name of Applicant : 1)UNIVERSITY OF MARYLAND, COLLEGE PARK Address of Applicant :Office of Technology Commercialization 2130 Mitchell Bldg. College Park, MD 20742 U.S.A.
(31) Priority Document No	:62/760098	2)THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
(32) Priority Date	:13/11/2018	(72) Name of Inventor :
(33) Name of priority country	:U.S.A.	1)SIMON, Anne, Elizabeth
(86) International Application No	:PCT/US2019/060945	2)Jingyuan LIU
Filing Date	:12/11/2019	3)VIDALAKIS, Georgios
(87) International Publication No	:WO 2020/102210	4)BODAGHI, Sohrab
(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 single stranded RNA vector suitable for introducing a therapeutic agent, such as a peptide, a protein or a small RNA, into a host plant. The vector does not encode for any movement protein or coat protein, but is capable of capable of systemic and phloem-limited movement and replication within the host plant.

No. of Pages : 50 No. of Claims : 43

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023167 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR ANALYSING THE QUANTITY OF CLAY IN A SAND

(51) International classification	:C07K0001040000, C08G0065336000, C08F0220260000, C09D0183080000, C09J0171020000	(71) Name of Applicant : 1)CHRYSO Address of Applicant :19 Place de la Résistance 92440 ISSY LES MOULINEAUX France
(31) Priority Document No	:18 71917	(72) Name of Inventor :
(32) Priority Date	:27/11/2018	1)DERLY, Christophe
(33) Name of priority country	:France	2)COLAS, Antoine
(86) International Application No	:PCT/EP2019/082427	
Filing Date	:25/11/2019	
(87) International Publication No	:WO 2020/109231	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present application relates to the use of a compound having the formula (I) to establish the quantity of clay in a sand and/or to establish the quantity of compound AMAA to be added to a hydraulic binder composition using a sand R1-(OA)_n-XR2 (I), in which R1 represents a C1 to C4 alkyl group, which may be linear or branched, or a coloured compound; R2 represents a coloured compound; A, each identical or different, independently represents a -CH₂-CH₂- group or a -CH(CH₃)-CH₂- group; n represents an integer between 1 and 500, preferably between 4 and 250; X is O or NH.

No. of Pages : 24 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023169 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AGRICULTURAL APPARATUS

(51) International classification	:A01G0009140000, A01G0031060000, A01G0009200000, A01M0007000000, A01G0007040000	(71) Name of Applicant : 1)AVERY, Donald J. Address of Applicant :c/o Livingston loeffler, P.A. 963 Trail Terrace Drive Naples, Florida 34103 U.S.A.
(31) Priority Document No	:16/173841	(72) Name of Inventor :
(32) Priority Date	:29/10/2018	1)AVERY, Donald J.
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/053929	
Filing Date	:01/10/2019	
(87) International Publication No	:WO 2020/091935	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An agricultural apparatus (1) that provides a system of vessels (2) arranged vertically for growing plants that allows crops to be grown in confined areas and in geographic areas where crops cannot normally be grown on various planet surfaces.

No. of Pages : 10 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023177 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : HETEROLOGOUS PRIME BOOST VACCINE COMPOSITIONS AND METHODS

(51) International classification	:C12N0015860000, A61K0039000000, A61K0039390000, C07K0014005000, A61K0039120000	(71) Name of Applicant : 1)GLAXOSMITHKLINE BIOLOGICALS SA Address of Applicant :rue de l'Institut 89 B-1330 Rixensart Belgium
(31) Priority Document No	:62/779631	(72) Name of Inventor :
(32) Priority Date	:14/12/2018	1)CAPONE, Stefania
(33) Name of priority country	:U.S.A.	2)DELAHAYE, Nicolas Frederic
(86) International Application No	:PCT/IB2019/060766	3)MARUGGI, Giulietta
Filing Date	:13/12/2019	4)SONG, Haifeng
(87) International Publication No	:WO 2020/121273	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Simian adenoviral vectors and RNA molecules, each encoding an immunogen of interest, can be sequentially administered to provide potent and long-lasting immunity.

No. of Pages : 82 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023178 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEM, METHOD, AND COMPUTER READABLE MEDIUM FOR DEVELOPING PROFICIENCY OF A USER IN A TOPIC

(51) International classification	:G06Q0050000000, G05B0015020000, G06N0005020000, B64C0039020000, G16B0040000000	(71) Name of Applicant : 1)HEADWAY INNOVATION, INC. Address of Applicant :1 Radisson Plz Ste. 800 New Rochelle, NY 10801 U.S.A.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)YURYEV, Alexander, Sergeevich
(33) Name of priority country	:NA	2)SKUBEEV, Valeriy, Timofeevich
(86) International Application No	:PCT/US2019/013407	
Filing Date	:13/01/2019	
(87) International Publication No	:WO 2020/145994	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system is configured to store instructions that are executable by one or more processors to perform computing platform for developing, via non-linear learning, a desired proficiency of a user in a topic. A server is communicatively coupled to a network and including a processor, an adoptive information potential (AIP) module, a database containing portions allocated to at least cognigraphics data and non- cognigraphics data, and at least one non-transitory computer-readable storage medium having computer-readable instructions stored therein. The processor executes the computer-readable instructions to receive input from the user based on a set of one or more questions prompted by the platform, the set of one or more questions comprising cognigraphics data and non-cognigraphics data. A continuous check and update of a user profile is performed based on a set of one or more conditions, in response to completion by the user the one or more variable AIP learning scenarios of the first level, provide to the user an exit scenario test, and iteratively execute the one or more levels of the AIP learning to attain a desired proficiency of the user in the topic.

No. of Pages : 32 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023179 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : CONVERGENT NANOFABRICATION & NANOASSEMBLY METHODS, MEANS & APPLICATIONS THEREOF, PRODUCTS & SYSTEMS THEREFROM INCLUDING METHODS AND MEANS FOR CONVERSION OF POLLUTANTS TO USEFUL PRODUCTS

(51) International classification :B82Y0030000000,
G06N0010000000,
B82Y0005000000,
B82B0003000000,
A61K0047690000

(31) Priority Document No :62/749117
(32) Priority Date :22/10/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/057505
Filing Date :22/10/2019
(87) International Publication No :WO 2020/086632
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)RABANI, Eli, Michael

Address of Applicant :20919 Abalar Street Woodland Hills,
CA 91364-4502 U.S.A.

(72)Name of Inventor :

1)RABANI, Eli, Michael

(57) Abstract :

Novel methods and means for convergent nanofabrication and nanoassembly are disclosed, and systems produced by and performing same are targeted at a broad range of applications. Molecules and/or nanostructures are bound to supported binding means and manipulated to translate such precursors or intermediates to bond together in precisely desired locations and orientations to yield desired precise structures. Methods and means suitable for precise fabrication of a range of materials including diamond, Beta-Silicon-Carbide and related materials, and precise modifications thereof such as color centers in predetermined configuration for quantum computation and information processing and storage applications, and for precise fabrication of halite structured materials including MgO, MgS, TiC, VN, ScN, precisely Mn doped ScN, NbN, HfC, TaC, HfxTayC, AbOS, SrO. BaO, ZrO2, ZrC, ZrN, HfN, and also metals including refractory metals such as W are disclosed, yielding an extremely broad range of materials and materials properties which may be availed or utilized.

No. of Pages : 154 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023180 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : IMPROVED SAMPLE GRINDER

(51) International classification :B01F0013000000,
B01F0015000000,
G01N0001280000,
G01N0035000000,
G01N0035040000

(31) Priority Document No :62/760457
(32) Priority Date :13/11/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/061280
Filing Date :13/11/2019
(87) International Publication No :WO 2020/102424
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SPEX SAMPLEPREP, LLC
Address of Applicant :65 Liberty Street Metuchen, NJ 08840
U.S.A.

(72)Name of Inventor :
1)SLUTTER, Warren, Stephen
2)KING, Greg
3)SMITH, Eric
4)ANDERSON-SMITH, Lea
5)DISTABILE, Jim
6)COHEN, Geoff
7)BECK, Andrew

(57) Abstract :

A bead beater homogenizer (100) includes a shaft having a main body (30) extending along a main axis (32) and a distal connection body (34) extending along a connection axis (36) that is acutely angled with respect to the main axis (32), a motor (20) configured to rotate the shaft about the main axis (32), a head (60) rotatably connected to the distal connection body (34) of the shaft, and a clamp (62, 64, 66) secured to the head (60) and configured to secure a sample vial holder (70, 170, 270, 370, 470) configured to hold one or more sample vials therein, wherein rotational motion of the shaft about the main axis (32) is translated into motion of the head (60) in directions normal to the main axis (32). A sample vial holder (470) having an internal network of channels defined within the housing through which a coolant can be passed to control a temperature of a vial disposed therein is also provided.

No. of Pages : 15 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023204 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : WAKE-UP SIGNAL RESOURCE DETERMINING METHOD AND APPARATUS, WAKE-UP SIGNAL RESOURCE CONFIGURATION METHOD AND APPARATUS, TERMINAL, AND BASE STATION

(51) International classification :H04W0072040000,
H04L0005000000,
H04W0052020000,
G06F0009480000,
H04W0076270000

(31) Priority Document No :201811302228.0

(32) Priority Date :02/11/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/111608
Filing Date :17/10/2019

(87) International Publication No :WO 2020/088257

(61) 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, Building No. 1
Lane 2288, Zuchongzhi Road, Zhangjiang Shanghai 201203
China

(72)Name of Inventor :

- 1)ZHOU, Huayu**
- 2)GAO, Xinghang**
- 3)MA, Dawei**
- 4)PAN, Zhengang**

(57) Abstract :

A wake-up signal resource determining method and apparatus, a wake-up signal resource configuration method and apparatus, a terminal, and a base station. The resource determining method comprises: receiving resource configuration information sent by a network; and determining, according to the resource configuration information, a frequency domain resource and/or a time domain resource configured for a wake-up signal. According to the technical solutions provided by embodiments of the present invention, resources for wake-up signals can be flexibly configured, and resource conflict between different wake-up signals is avoided.

No. of Pages : 47 No. of Claims : 48

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023205 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PDCP REPLICATION FUNCTION ACTIVATION METHOD AND DEVICE, AND TERMINAL AND BASE STATION

(51) International classification :H04W0076150000,
H04W0028020000,
H04W0028080000,
C07D0487040000,
H04W0080020000

(31) Priority Document No :201811268713.0

(32) Priority Date :29/10/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/110945
Filing Date :14/10/2019

(87) International Publication No :WO 2020/088228

(61) 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, Building No. 1
Lane2288, Zuchongzhi Road, Zhangjiang Shanghai 201203 China

(72)**Name of Inventor :**
1)WANG, Tingting

(57) Abstract :

A PDCP replication function activation method and device, and a terminal and a base station. The activation method comprises: receiving PDCP replication function activation signaling sent by a network, the PDCP replication function activation signaling comprising a data offloading instruction identifier of a radio bearer, the radio bearer being configured with a PDCP duplication function; and determining the number of duplications of a data packet of the radio bearer on the basis of the PDCP replication function activation signaling. By means of the technical solutions provided by the present invention, a multi-connectivity PDCP duplication function can be effectively and flexibly activated.

No. of Pages : 53 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023233 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : HANDLE FOR SLIDING CASEMENTS

(51) International classification	:E05B0065080000, E05B0001000000, E05B0063180000, E05B0015000000, E05B0015040000	(71) Name of Applicant : 1)FAPIM S.P.A. Address of Applicant :Via delle Cerbaie, 114 55011 Altopascio LU Italy
(31) Priority Document No	:102018000010575	(72) Name of Inventor :
(32) Priority Date	:26/11/2018	1)PACINI, Sergio
(33) Name of priority country	:Italy	
(86) International Application No	:PCT/IB2019/059981	
Filing Date	:20/11/2019	
(87) International Publication No	:WO 2020/109932	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention relates to a handle for sliding doors and windows and, more precisely, a handle with its own rotation between 15°-30°, i.e. a handle equipped with a gear multiplier.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023238 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN ACTIVE NOISE CANCELLATION SYSTEM FOR A HELMET

(51) International classification :G10K0011178000,
H04R0001020000,
H04R0005033000,
H04R0003000000,
H04N0005225000

(31) Priority Document No :1818094.3

(32) Priority Date :06/11/2018

(33) Name of priority country :U.K.

(86) International Application No :PCT/EP2019/080430
Filing Date :06/11/2019

(87) International Publication No :WO 2020/094733

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

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

(71)Name of Applicant :

1)DAAL NOISE CONTROL SYSTEMS AS

Address of Applicant :Prinsensgt. 51 7011 Trondheim Norway

(72)Name of Inventor :

1)FLADMARK, Bent Even Fossum

2)LARSEN, Ronny Fagervik

3)LOE, Dag Axel Aarset

4)BIRKELAND, Sigmund Andreas

(57) Abstract :

An active noise cancellation (ANC) system has a mounting plate (10), a first face of which is configured to be disposed against an inner surface of a helmet to form, with the helmet, a chamber. When the mounting plate is mounted on the helmet, a loudspeaker (7) provided on the first face of the mounting plate is within the chamber. The plate (10) has an aperture (13) for allowing transmission of sound from the loudspeaker to a spatial region. At least one reference microphone (3) is mounted on a second face of the plate. The plate (10) acts as a mounting plate for components of the ANC system, and so simplifies the process of installing an ANC system to a helmet. Also, the plate serves to define a chamber that accommodates the loudspeaker of the ANC system and provides good acoustic coupling of the sound signal from the loudspeaker of the ANC system into the quiet zone of the ANC system.

No. of Pages : 20 No. of Claims : 22

(54) Title of the invention : SYSTEM FOR DISTRIBUTING POWER AND COMMUNICATION SIGNALS IN OPTICAL FIBRE ACCESS NETWORKS

(51) International classification	:G02B0006440000, G02F0001225000, H04J0014020000, G03G0015043000, G02B0006125000	(71)Name of Applicant : 1)FURUKAWA ELECTRIC LATAM S.A. Address of Applicant :Rua Hasdrubal Bellegard, 820, Cidade Industrial 81460-120 Curitiba - PR Brazil
(31) Priority Document No	:BR1020180742450	(72)Name of Inventor :
(32) Priority Date	:26/11/2018	1)FELCHNER, Luiz Henrique, Zimmermann
(33) Name of priority country	:Brazil	2)CRUZ, Renato Flávio
(86) International Application No	:PCT/BR2019/050500	3)BARRETO, Rafael, Goes
Filing Date	:22/11/2019	4)ARANTES, Rodrigo, Arenales
(87) International Publication No	:WO 2020/107085	5)KULCZYNSKYJ, Michael
(61) Patent of Addition to Application Number	:NA	6)STANCYK, Anderson Marcelo
Filing Date	:NA	7)PELOIA, Elton
(62) Divisional to Application Number	:NA	8)SERPE, Eduardo
Filing Date	:NA	9)FUJITA, Ernesto, Eiti

(57) Abstract :

The present invention relates to a system for distributing power and communication signals in optical fibre access networks using optical boxes, including an optical box bus containing three optical splitter boxes (10) connected in sequence and one termination box (12). The first optical splitter box (10) receives a distribution or splitter cable (CD) formed by a single optical fibre, providing a given optical input power, said optical splitter box (10) having an input splitter (DE) to effect the unbalanced splitting of the optical input power received in the optical box (10) of the bus into two portions. A first portion of the optical input power is conveyed to an output splitter (DS), the output splitter (DS) splitting the first portion of the optical power into optical powers that are selectively transferred to respective user terminal optical cables (CT). A second portion of the optical input power is conveyed to the second optical box (10) of the bus over a continuation cable (CC) formed by a single optical fibre, and so on until said optical termination box (12) is reached, where the optical input power is fully available to the user terminal optical cables (CT). The splitting ratio of the input splitters (DE) of each one of the three optical splitter boxes (10) varies between 70/30 and 90/10, the number before the slash being the percentage of the power conveyed to the next optical box (10, 12) of the system and the number after the slash being the percentage of the power conveyed to the output splitter (DS) and to the access cables (drop).

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023241 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR PLANNING OF PASSIVE ION RADIOTHERAPY TREATMENT

(51) International classification :A61N0005100000,
G02F0001010000,
A61F0009008000,
H04L0012240000,
G02B0006120000
(31) Priority Document No :18214842.9
(32) Priority Date :20/12/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/086201
Filing Date :19/12/2019
(87) International Publication No :WO 2020/127659
(61) 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

(57) Abstract :

An ion-based radiotherapy plan for passive delivery of one or more beams (7) uses an optimization problem set up to allow variation in settings of the range modulating device, and/or settings of the aperture element during the delivery of the first beam, so that said plan will include modulation of the fluence of the beam during the delivery of the beam. The optimization problem is set up to allow variation of the settings of an aperture element (11), a range modulating device (9) during delivery of each beam, so that said plan will include modulation in depth of the beam during the delivery of the beam.

No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023243 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN IMPROVED PROCESS FOR PREPARING SMOKING PRODUCTS OF THE TYPE TO BE HEATED AND NOT BURNT

(51) International classification :A24D0001020000,
A24F0047000000,
A24B0015300000,
A61Q0015000000,
A61Q0001100000

(31) Priority Document No :102018000010532

(32) Priority Date :23/11/2018

(33) Name of priority country :Italy

(86) International Application No :PCT/IB2019/059978
Filing Date :20/11/2019

(87) International Publication No :WO 2020/104964

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

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

(71)Name of Applicant :

1)MAGG CONSULTING S.R.L.

Address of Applicant :Via Giuseppe Mantellini, 38 00179
Roma Italy

(72)Name of Inventor :

1)MATARAZZO, Giacinto

(57) Abstract :

Improved process for the preparation of smoking products of the type to be heated and not burnt, in particular cigarette-shaped, characterized by the fact of adding propylene glycol to an already cut material, based on tobacco and/or cannabis in percent not less than 6% by weight on anhydrous basis of the cut material.

No. of Pages : 26 No. of Claims : 46

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023244 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : RADIATION CURABLE INKJET INK FOR MANUFACTURING PRINTED CIRCUIT BOARDS

(51) International classification	:C09D0011101000, B41M0005000000, H01L0025065000, C09D0004060000, C08G0081020000	(71) Name of Applicant : 1)AGFA-GEVAERT NV Address of Applicant :IP Department 3622 Septestraat 27 2640 Mortsel Belgium
(31) Priority Document No	:18208207.3	(72) Name of Inventor :
(32) Priority Date	:26/11/2018	1)LOCCUFIER, Johan
(33) Name of priority country	:EPO	2)TORFS, Rita
(86) International Application No	:PCT/EP2019/082093	3)SAUVAGEOT, Marion
Filing Date	:21/11/2019	
(87) International Publication No	:WO 2020/109132	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A radiation curable inkjet ink comprising a polymerizable compound and a photoinitiator, characterized in that the photoinitiator comprises a functional group selected from the group consisting of an aliphatic thio-ether and an aliphatic or a (hetero)aromatic disulfide.

No. of Pages : 40 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023245 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ELECTRIC VEHICLE

(51) International classification	:B60W0030180000, B60L0053300000, B60W0010080000, B60K0001000000, B60L0015200000	(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	:2018-205250	(72) Name of Inventor :
(32) Priority Date	:31/10/2018	1)ICHIKAWA Hiroki
(33) Name of priority country	:Japan	2)SHOKAKU Isao
(86) International Application No	:PCT/JP2019/035291	3)MORITA Shinjiro
Filing Date	:09/09/2019	
(87) International Publication No	:WO 2020/090231	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This electric vehicle (10) is provided with: a rotating electric machine (20) for moving the electric vehicle (10) forward by normally rotating while moving the electric vehicle (10) backward by reversely rotating; at least two switches (start switch (112), reverse switch (116)); and a PCU (66) for controlling the rotating electric machine (20). When the two switches are pressed, the PCU (66) reversely rotates the rotating electric machine (20), thereby moving the electric vehicle (10) backward.

No. of Pages : 53 No. of Claims : 15

(54) Title of the invention : MAGNETIC VISCOELASTIC FLUID AND DEVICE

(51) International classification	:H01F0027255000, B29K0069000000, A61Q0019100000, C09K0003140000, C09K0008680000	(71) Name of Applicant : 1)NIPPON PAINT HOLDINGS CO., LTD. Address of Applicant :2-1-2, Oyodokita, Kita-ku, Osaka-shi, Osaka 5318511 Japan
(31) Priority Document No	:2018-220458	(72) Name of Inventor : 1)SAKAMOTO Hiroyuki
(32) Priority Date	:26/11/2018	
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/045142	
Filing Date	:18/11/2019	
(87) International Publication No	:WO 2020/110812	
(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 magnetic viscoelastic fluid having superior long-term dispersion stability of magnetic particles and having a large maximum change amount of yield stress under a condition in which a magnetic field is applied. Provided is a device having superior long-term stable drivability and mechanism reliability. The magnetic viscoelastic fluid comprises magnetic particles, resin particles, and a dispersion medium. The ratio of the mass of the magnetic particles to the total mass of the magnetic viscoelastic fluid is 35 to 95% by mass. The ratio of the mass of the resin particles to the total mass of the magnetic viscoelastic fluid is 0.3 to 20% by mass. The mean particle diameter of the resin particles is 20 to 1500 nm. The magnetic viscoelastic fluid is used in the device.

No. of Pages : 22 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023247 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : LAYERED PRODUCT INCLUDING ETHYLENE-A-OLEFIN-NON-CONJUGATED POLYENE COPOLYMER COMPOSITION LAYER AND USE THEREOF

(51) International classification	:B32B0025140000, B32B0001080000, C08L0023160000, B32B0027300000, B32B0027320000	(71) Name of Applicant : 1)MITSUI CHEMICALS, INC. Address of Applicant :5-2, Higashi-Shimbashi 1-chome, Minato-ku, Tokyo 1057122 Japan 2)DAIKIN INDUSTRIES, LTD.
(31) Priority Document No	:2018-207292	(72) Name of Inventor :
(32) Priority Date	:02/11/2018	1)KIKUCHI Yoshiharu
(33) Name of priority country	:Japan	2)ICHINO Kotaro
(86) International Application No	:PCT/JP2019/042828	3)OSAWA Kozue
Filing Date	:31/10/2019	4)KUWAJIMA Yuki
(87) International Publication No	:WO 2020/090981	
(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 addresses the problem of obtaining a layered product comprising a layer containing a fluoropolymer which can be melt-molded, and an ethylene-a-olefin-non-conjugated polyene copolymer composition layer, and having excellent adhesiveness. The present invention pertains to a layered product including a layer containing a fluoropolymer which can be melt-molded and a layer containing an ethylene-a-olefin-non-conjugated polyene copolymer composition characterized by containing an ethylene-a-olefin-non-conjugated polyene copolymer (A), and 1.0-6.0 parts by mass of at least one compound (C) selected from the group consisting of 1,8-diazabicyclo(5.4.0)undecene-hepta-salt, 1,5-diazabicyclo(4.3.0)-nonene-penta-salt, 1,8-diazabicyclo(5.4.0)undecene-7, and 1,5-diazabicyclo(4.3.0)-nonene-5, and 3-20 parts by mass of magnesium oxide, with respect to 100 parts by mass of the ethylene-a-olefin-non-conjugated polyene copolymer (A).

No. of Pages : 72 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023248 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : GAS CONVEYOR TYPE FINE POWDER CONSTANT VOLUME SUPPLY METHOD AND SYSTEM

(51) International classification	:B01J0019000000, G11B0005702000, A61K0009000000, C09J0183040000, B29C0044040000	(71) Name of Applicant : 1)KINBOSHI INC. Address of Applicant :4-8, Yonban-cho, Chiyoda-ku, Tokyo 1020081 Japan
(31) Priority Document No	:2018-220388	(72) Name of Inventor :
(32) Priority Date	:26/11/2018	1)KIMURA So
(33) Name of priority country	:Japan	2)SATO Akira
(86) International Application No	:PCT/JP2019/045530	
Filing Date	:21/11/2019	
(87) International Publication No	:WO 2020/110871	
(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 method for stably supplying a constant volume of fine powder and a system for implementing the method. This gas conveyor type fine powder constant volume supply method conveys and supplies, using a conveyor gas, a constant volume of fine powder loaded into a gas conveyor type fine powder constant volume supplying device to a fine powder using device, said method being characterized in that the amount of moisture contained in the conveyor gas is regulated and, when a mixed fluid of the fine powder and the conveyor gas is transported to the fine powder using device from the gas conveyor type fine powder constant volume supplying device, the amount of static electricity generated in the mixed fluid is suppressed.

No. of Pages : 28 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023249 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : STATOR ADHESIVE LAMINATED CORE AND ROTATING ELECTRICAL MACHINE

(51) International classification	:H02K0001140000, H02K0015020000, C21D0008120000, H02K0001270000, G01N0019040000	(71) Name of Applicant : 1)NIPPON STEEL CORPORATION Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008071 Japan
(31) Priority Document No	:2018-235863	(72) Name of Inventor :
(32) Priority Date	:17/12/2018	1)TAKEDA Kazutoshi
(33) Name of priority country	:Japan	2)HIRAYAMA Ryu
(86) International Application No	:PCT/JP2019/049273	
Filing Date	:17/12/2019	
(87) International Publication No	:WO 2020/129929	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This stator adhesive laminated core comprises: a plurality of electromagnetic steel sheets that have a core back section and a teeth section and that are overlapped coaxially; and a plurality of adhesive sections that adhere between the electromagnetic steel sheets, wherein between the electromagnetic steel sheets, the partial adhesive strength that is the average adhesive strength per unit area in the teeth section is lower than the partial adhesive strength that is the average adhesive strength per unit area of the core back section.

No. of Pages : 41 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023250 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ANTI-IGF-I RECEPTOR HUMANIZED ANTIBODY

(51) International classification	:A61K0039000000, A61K0039395000, A61P0003060000, C12N0015630000, A23L0033180000	(71) Name of Applicant : 1)TEIJIN PHARMA LIMITED Address of Applicant :2-1, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo 100013 Japan
(31) Priority Document No	:2018-226669	(72) Name of Inventor :
(32) Priority Date	:03/12/2018	1)TANOKURA, Akira
(33) Name of priority country	:Japan	2)KATO, Hirotsugu
(86) International Application No	:PCT/JP2019/047050	3)EGUCHI, Hiroshi
Filing Date	:02/12/2019	4)TAKAGI, Kenichiro
(87) International Publication No	:WO 2020/116398	5)YAMAMURA, Satoshi
(61) Patent of Addition to Application Number	:NA	6)NAMIKI, Naoko
Filing Date	:NA	7)ISHIKAWA, Daisuke
(62) Divisional to Application Number	:NA	8)HIGUCHI, Hirofumi
Filing Date	:NA	9)TAKEO, Tomoyo
		10)OHORI, Masayo

(57) Abstract :

Provided is a humanized antibody that, through IGF-I receptor, increases muscle mass but does not lower the blood glucose level. This humanized antibody: is an anti-IGF-I receptor humanized antibody, a fragment thereof, or a derivative thereof; has a specific amino acid sequence such as SEQ ID NOs: 1 to 6 serving as a CDR sequence; and specifically binds to IGF-I receptor extracellular domain.

No. of Pages : 46 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023251 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : LAMINATED CORE, CORE BLOCK, ROTATING ELECTRIC MACHINE, AND METHOD OF MANUFACTURING CORE BLOCK

(51) International classification :H01F0027245000,
C21D0008120000,
H02K0001270000,
H02K0015020000,
B05C0005020000

(31) Priority Document No :2018-235856
(32) Priority Date :17/12/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/049289
Filing Date :17/12/2019
(87) International Publication No :WO 2020/129938
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)NIPPON STEEL CORPORATION

Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku,
Tokyo 1008071 Japan

(72)Name of Inventor :

1)HONMA Rei

2)HIRAYAMA Ryu

3)TAKEDA Kazutoshi

(57) Abstract :

According to an aspect of the present invention, there is provided a laminated core comprising: a plurality of electromagnetic steel sheets which are laminated; and a plurality of adhesive portions which are provided between the electromagnetic steel sheets adjacent to each other in the laminating direction, and respectively bond the electromagnetic steel sheets, wherein, when viewed from the laminating direction, the plurality of adhesive portions are each formed in a band shape extending in a first direction, the plurality of adhesive portions are arranged side by side in a second direction orthogonal to the first direction, and the angle between the first direction and the rolling direction of the electromagnetic steel sheet is 30-90° inclusive.

No. of Pages : 58 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023252 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : REFRIGERANT FLOW PATH SWITCHING UNIT AND AIR-CONDITIONING DEVICE COMPRISING SAME

(51) International classification	:F25B0013000000, F24F0003060000, F25B0049000000, F24F0011840000, F25B0041040000	(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	:2018-204177	(72) Name of Inventor :
(32) Priority Date	:30/10/2018	1)KAGAWA, Mikio
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/042541	
Filing Date	:30/10/2019	
(87) International Publication No	:WO 2020/090875	
(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, a refrigerant flow path switching unit (4) is provided between a heat source unit (2) and a utilization unit (3) and switches the flow of a refrigerant at the utilization unit (3). The refrigerant flow path switching unit (4) has: flow path switching valves (46, 47); and a case (120) that houses the flow path switching valves (46, 47). Maintenance openings (132, 133, 134) are formed in at least two side surfaces (123, 125, 126) of side surfaces (123-126) of the case (120).

No. of Pages : 54 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023254 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ANTIBIOTIC COMPOUNDS, METHODS OF MANUFACTURING THE SAME, PHARMACEUTICAL COMPOSITIONS CONTAINING THE SAME AND USES THEREOF

(51) International classification	:C07K0007060000, A61L0027540000, C12P0021020000, C07K0016440000, A61L0029160000	(71) Name of Applicant : 1)DEBIOPHARM INTERNATIONAL S.A. Address of Applicant :Forum après-demain Chemin Messidor 5-7 1002 Lausanne Switzerland
(31) Priority Document No	:18205619.2	(72) Name of Inventor :
(32) Priority Date	:12/11/2018	1)GERUSZ, Vincent
(33) Name of priority country	:EPO	2)TATSIS, Vasileios
(86) International Application No	:PCT/EP2019/080903	3)SUNOSE, Mihiro
Filing Date	:11/11/2019	4)BRAVO, Juan
(87) International Publication No	:WO 2020/099341	5)FINN, Terry
(61) Patent of Addition to Application Number	:NA	6)POHIN, Danig
Filing Date	:NA	7)REGENASS, Pierre-Michel
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides compounds of the general structure (I), which are suitable as antibiotic compounds for the treatment of N. gonorrhoeae infections and related infections.

No. of Pages : 266 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023283 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN ENCODER, A DECODER AND CORRESPONDING METHODS USING HISTORY BASED MOTION VECTOR PREDICTION

(51) International classification	:H04N0019436000, H04N0019700000, H04N0019960000, H04N0019520000, H04N0019500000	(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	:62/784338	(72) Name of Inventor : 1)KOTRA, Anand Meher
(32) Priority Date	:21/12/2018	2)CHEN, Jianle
(33) Name of priority country	:U.S.A.	3)ESENLIK, Semih
(86) International Application No	:PCT/CN2019/126842	4)WANG, Biao
Filing Date	:20/12/2019	5)GAO, Han
(87) International Publication No	:WO 2020/125738	6)ZHAO, Zhijie
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments provide methods and devices (encoder and/or decoder) of coding a picture. A History Based Motion Vector Prediction, HMVP, list for a current Coding Tree Unit, CTU, row within a tile of a picture is initialized and a CTU of the current CTU row is processed based on the initialized HMVP list.

No. of Pages : 79 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023285 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHODS FOR IDENTIFYING FREE THIOLS IN PROTEINS

(51) International classification	:C02F0001500000, G01N0033500000, C07K0007080000, C07H0021000000, C07K0014330000	(71) Name of Applicant : 1)REGENERON PHARMACEUTICALS, INC. Address of Applicant :777 Old Saw Mill River Road Tarrytown, New York 10591-6707 U.S.A.
(31) Priority Document No	:62/792994	(72) Name of Inventor :
(32) Priority Date	:16/01/2019	1)E, Sook Yen
(33) Name of priority country	:U.S.A.	2)BRAMHALL, David
(86) International Application No	:PCT/US2020/013910	3)QIU, Haibo
Filing Date	:16/01/2020	
(87) International Publication No	:WO 2020/150492	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Compositions and methods for identifying free thiols in protein are provided. An exemplary method labeling peptides with a tag to identify free thiols and a tag to identify native disulfide bonds and analyzing the tags using targeted MS2. In one embodiment, the method provides complete coverage of all 32 cysteine residues in an IgG molecule. In other embodiments the method covers the 16 cysteine residues on the heavy and light chains in an IgG molecule. In another embodiment, the method covers the 5 cysteine residues on each light chain of an IgG molecule. In another embodiment, the method covers the 11 cysteine residues on each heavy chain of an IgG molecule.

No. of Pages : 23 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023286 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHODS FOR CHARACTERIZING DISULFIDE BONDS

(51) International classification	:G01N0033680000, C07K0014470000, C07K0014000000, C07K0001160000, A61K0038170000	(71) Name of Applicant : 1)REGENERON PHARMACEUTICALS, INC. Address of Applicant :777 Old Saw Mill River Road Tarrytown, New York 10591-6707 U.S.A.
(31) Priority Document No	:62/792994	(72) Name of Inventor :
(32) Priority Date	:16/01/2019	1)WANG, Shunhai
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2020/013907	
Filing Date	:16/01/2020	
(87) International Publication No	:WO 2020/150491	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Compositions and methods for analyzing disulfide bonds are provided. An exemplary method includes preparing peptide standards having no disulfide bonds, scrambled disulfide bond peptide standards, and native disulfide bond peptide standards according to the sequence of the region of the protein drug product that includes the disulfide bond, digesting a sample of protein drug product into peptides, separating the protein drug product peptides, analyzing the protein drug product peptides and the peptide standards, identifying scrambled and native disulfide bond peptides by retention time, and quantifying the level of scrambled disulfide bond peptides.

No. of Pages : 18 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023296 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MOBILE PANEL CLEANER

(51) International classification	:H02S0040100000, B08B0003020000, F16M0011040000, H04N0009310000, B41J0002165000	(71) Name of Applicant : 1)STEAM TECH, LLC Address of Applicant :1600 Broadway, Suite 1600 Denver, CO 80202 U.S.A.
(31) Priority Document No	:62/771755	(72) Name of Inventor :
(32) Priority Date	:27/11/2018	1)HARTMAN, Philip, J.
(33) Name of priority country	:U.S.A.	2)HARTMAN, James, L.
(86) International Application No	:PCT/US2019/063754	
Filing Date	:27/11/2019	
(87) International Publication No	:WO 2020/113105	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A mobile panel maintenance system including a mobile panel maintenance unit having a base supported for translational motion over a surface within a panel array and a carriage movably mounted to the base to position a panel maintenance assembly in relation to a panel surface for panel maintenance.

No. of Pages : 34 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023300 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : TWO-PACK CURABLE EPOXY RESIN COMPOSITION, CURED PRODUCT, FIBER-REINFORCED COMPOSITE MATERIAL AND MOLDED ARTICLE

(51) International classification	:C08L0063000000, C08J0005040000, C08G0059420000, C08G0059240000, C08G0059680000	(71) Name of Applicant : 1)DIC CORPORATION Address of Applicant :35-58, Sakashita 3-chome, Itabashi-ku, Tokyo 1748520 Japan
(31) Priority Document No	:2018-223583	(72) Name of Inventor :
(32) Priority Date	:29/11/2018	1)SUGIMOTO Nana
(33) Name of priority country	:Japan	2)KIMURA Makoto
(86) International Application No	:PCT/JP2019/041661	3)KOBAYASHI Atsuko
Filing Date	:24/10/2019	
(87) International Publication No	:WO 2020/110528	
(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 two-pack curable epoxy resin composition which contains a curing agent having excellent long-term storage stability and has low viscosity and good impregnation ability into fibers, and which is capable of forming a cured product that has excellent mechanical characteristics, heat resistance and surface smoothness; a cured product; a fiber-reinforced composite material; and a molded article. Specifically, the present invention uses a two-pack curable epoxy resin composition which contains (i) a base material that contains an epoxy resin (A) and (ii) a curing agent that contains an acid anhydride (B) and an organic phosphorus compound (C), and which is characterized in that: the mass ratio of the base material (i) to the curing agent (ii), namely (i)/(ii) is within the range of from 35/65 to 75/25; the amount of use of the organic phosphorus compound (C) is within the range of 0.5-5 parts by mass relative to 100 parts by mass of the total of the epoxy resin (A) and the acid anhydride (B).

No. of Pages : 43 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023302 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DISPLAY APPARATUS

(51) International classification	:G02F0001133300, G02F0001133570, G06F0003041000, H05K0005000000, G06F0001160000	(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	:10-2018-0149931	(72) Name of Inventor :
(32) Priority Date	:28/11/2018	1)LEE, Jae Neung
(33) Name of priority country	:Republic of Korea	2)WOO, Byung Min
(86) International Application No	:PCT/KR2019/016530	3)CHO, Chul-Yong
Filing Date	:28/11/2019	4)JUNG, Do-Sung
(87) International Publication No	:WO 2020/111800	
(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 display apparatus including at least one display assembly. The display apparatus includes a first display assembly and a second display assembly adjacent to the first display assembly. Each of the first and second display assemblies includes a display module forming a screen, a display module supporter provided to support the display module and having a slit, and a coupling unit provided inside the display module supporter to couple the first display assembly and the second display assembly to each other.

No. of Pages : 36 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023309 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : LOSSY SIGNIFICANCE COMPRESSION WITH LOSSY RESTORATION

(51) International classification	:H03M0007300000, G06F0011140000, H03M0013000000, H04N0019132000, G06T0011000000	(71) Name of Applicant : 1)ADVANCED MICRO DEVICES, INC. Address of Applicant :2485 Augustine Drive Santa Clara, CA 95054 U.S.A.
(31) Priority Document No	:16/220540	(72) Name of Inventor :
(32) Priority Date	:14/12/2018	1)LOH, Gabriel H.
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/063981	
Filing Date	:02/12/2019	
(87) International Publication No	:WO 2020/123173	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described are systems and methods for lossy compression and restoration of data. The raw data is first truncated. Then the truncated data is compressed. The compressed truncated data can then be efficiently stored and/or transmitted using fewer bits. To restore the data, the compressed data is then decompressed and restoration bits are concatenated. The restoration bits are selected to compensate for statistical biasing introduced by the truncation.

No. of Pages : 17 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023312 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR HIGH PRECISION MULTI-APERTURE SPECTRAL IMAGING

(51) International classification :G06K0009000000,
H04N0005232000,
G01J0003280000,
G01J0003020000,
A61B0005000000

(31) Priority Document No :62/780121

(32) Priority Date :14/12/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/065818
Filing Date :11/12/2019

(87) International Publication No :WO 2020/123722

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

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

(71)**Name of Applicant :**
1)SPECTRAL MD, INC.
Address of Applicant :2515 McKinney Avenue, Suite 1000
Dallas, Texas 75201 U.S.A.

(72)**Name of Inventor :**
1)MCCALL, Brian
2)FAN, Wensheng
3)DWIGHT, Jason
4)GAO, Zhicun
5)THATCHER, Jeffrey E.
6)DIMAIO, John Michael

(57) Abstract :

Generally described, one or more aspects of the present application correspond to systems and techniques for spectral imaging using a multi-aperture system with curved multi-bandpass filters positioned over each aperture. The present disclosure further relates to techniques for implementing spectral unmixing and image registration to generate a spectral datacube using image information received from such imaging systems. Aspects of the present disclosure relate to using such a datacube to analyze the imaged object, for example to analyze tissue in a clinical setting, perform biometric recognition, or perform materials analysis.

No. of Pages : 53 No. of Claims : 73

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023313 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DISPLAY DEVICE

(51) International classification	:G02F0001133500, B60R0001000000, G09F0009300000, G09G0003200000, G02F0001133300	(71) Name of Applicant : 1)JAPAN DISPLAY INC. Address of Applicant :3-7-1, Nishi-shinbashi, Minato-ku, Tokyo 1050003 Japan
(31) Priority Document No	:2018-213048	(72) Name of Inventor :
(32) Priority Date	:13/11/2018	1)HAGA, Yuta
(33) Name of priority country	:Japan	2)TOMIZAWA, Kazunari
(86) International Application No	:PCT/JP2019/039689	
Filing Date	:08/10/2019	
(87) International Publication No	:WO 2020/100469	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A display device according to this embodiment comprises: a display panel in which a plurality of pixels are positioned in a display region, said display region being formed in a non-rectangular shape; and a display control unit that displays an image in the display region. Respective opening sections of pixels positioned in an edge section of the display region are shielded from light at an area ratio corresponding to the shape of the display region.

No. of Pages : 45 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023314 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SUBTILISIN VARIANTS HAVING IMPROVED STABILITY

(51) International classification	:C12N0009540000, C11D0003386000, C07K0016400000, C07K0016280000, A61L0027120000	(71) Name of Applicant : 1)DANISCO US INC Address of Applicant :925 Page Mill Road Palo Alto, California 94304 U.S.A.
(31) Priority Document No	:62/772271	(72) Name of Inventor :
(32) Priority Date	:28/11/2018	1)BABE, Lilia Maria
(33) Name of priority country	:U.S.A.	2)ALEKSEYEV, Viktor Yuryevich
(86) International Application No	:PCT/US2019/062939	3)BASLER, Joshua Roy
Filing Date	:25/11/2019	4)ENGIN, H. Billur
(87) International Publication No	:WO 2020/112599	5)ESTELL, David A.
(61) Patent of Addition to Application	:NA	6)GHIRNIKAR, Roopa Santosh
Number	:NA	7)GOEDEGEBUUR, Frits
Filing Date	:NA	8)KAPER, Thijs
(62) Divisional to Application Number	:NA	9)MULDER, Harm
Filing Date	:NA	10)PRICELIUS, Sina
		11)REDESTIG, Nils Henning
		12)VAN STIGT THANS, Sander

(57) Abstract :

Disclosed herein is one or more subtilisin variant, nucleic acid encoding same, and compositions and methods related to the production and use thereof, including one or more subtilisin variant that has improved stability compared to one or more reference subtilisin.

No. of Pages : 275 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023316 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : CYCLIC TETRAMER COMPOUNDS AS PROPROTEIN CONVERTASE SUBTILISIN/KEXIN TYPE 9 (PCSK9) INHIBITORS FOR THE TREATMENT OF METABOLIC DISORDERS

(51) International classification	:C07K0016400000, A61K0031030000, C07D0487040000, A61K0031165000, A61K0031475000	(71) Name of Applicant : 1)NOVARTIS AG Address of Applicant :Lichtstrasse 35 4056 Basel Switzerland
(31) Priority Document No	:62/772030	(72) Name of Inventor :
(32) Priority Date	:27/11/2018	1)BRINER, Karin
(33) Name of priority country	:U.S.A.	2)DECHRISTOPHER, Brian Addison
(86) International Application No	:PCT/IB2019/060201	3)FLYER, Alec Nathanson
Filing Date	:26/11/2019	4)GOLOSOV, Andrei Alexandrovich
(87) International Publication No	:WO 2020/110009	5)GROSCHKE, Philipp
(61) Patent of Addition to Application Number	:NA	6)LIU, Eugene Yuejin
Filing Date	:NA	7)MAO, Justin Yik Ching
(62) Divisional to Application Number	:NA	8)MONOVICH, Lauren Gilchrist
Filing Date	:NA	9)PATEL, Tajesh Jayprakash
		10)SANCHEZ, Carina Cristina
		11)SU, Liansheng
		12)YANG, Lihua
		13)ZHENG, Rui

(57) Abstract :

The disclosure relates to inhibitors of PCSK9 useful in the treatment of cholesterol lipid metabolism, and other diseases in which PCSK9 plays a role, having the Formula (I): or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, N-oxide, or tautomer thereof, wherein R1, R1, R1, R1, R1, R1, R1, R1, R1, X1, X2, and X3 are described herein.

No. of Pages : 400 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023317 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AMIDE-SUBSTITUTED HETEROCYCLIC COMPOUNDS FOR THE TREATMENT OF CONDITIONS RELATED TO THE MODULATION OF IL-12, IL-23 AND/OR IFN-ALPHA

(51) International classification :C07D0401120000,
C07D0417120000,
C07D0417140000,
C07B0059000000,
C07D0401140000

(31) Priority Document No :62/752414
(32) Priority Date :30/10/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/058268
Filing Date :28/10/2019
(87) International Publication No :WO 2020/092196
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)BRISTOL-MYERS SQUIBB COMPANY

Address of Applicant :Route 206 and Province Line Road
Princeton, New Jersey 08543 U.S.A.

(72)Name of Inventor :

1)SPERGEL, Steven H.

2)PITTS, William J.

3)MERTZMAN, Michael E.

4)MOSLIN, Ryan M.

5)SHERWOOD, Trevor C.

6)GILMORE, John L.

7)DYCKMAN, Alaric J.

(57) Abstract :

Compounds having the following formula I: or a stereoisomer or pharmaceutically-acceptable salt thereof, where R1, R2, R3, R4, and R5 are as defined herein, are useful in the modulation of IL-12, IL-23 and/or IFN α , by acting on Tyk-2 to cause signal transduction inhibition.

No. of Pages : 279 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023324 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : TAPERED METAL CUP AND METHOD OF FORMING THE SAME

(51) International classification	:B21D0051260000, B65D0001260000, A47G0019230000, B21D0051100000, B65D0001000000	(71) Name of Applicant : 1)BALL CORPORATION Address of Applicant :9200 West 108th Circle Westminster, Colorado 80021 U.S.A.
(31) Priority Document No	:16/214477	(72) Name of Inventor :
(32) Priority Date	:10/12/2018	1)SCOTT, Anthony, J.
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/064905	
Filing Date	:06/12/2019	
(87) International Publication No	:WO 2020/123291	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A metal cup and method of forming the same is provided. Metal cups of the present disclosure comprise a plurality of thin, straight-walled sections and a tapered profile. A domed portion is provided in the bottom of the cup. The cup may comprise a disposable cup, a reusable cup, or a recyclable cup.

No. of Pages : 25 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023326 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : VOICE PROSTHESIS WITH CONNECTING FEATURE

(51) International classification	:A61F0002200000, A61M0016080000, A61B0017880000, A61B0017290000, A61B0010020000	(71) Name of Applicant : 1)KAMRADT, Brian Address of Applicant :7825 Wedgefield Drive Indianapolis, IN 46217 U.S.A.
(31) Priority Document No	:15/932830	(72) Name of Inventor :
(32) Priority Date	:03/05/2018	1)KAMRADT, Brian
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/030752	
Filing Date	:03/05/2019	
(87) International Publication No	:WO 2019/213629	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A voice prosthesis comprising a outer cannula and an inner cannula wherein the outer cannula is generally in the shape of a spool and comprises two flanges connected by a hollow annular stem therebetween, and the inner cannula comprises a proximal flange and a stem configured to fit within a passageway of the stem of the outer cannula. The outer cannula comprises a retaining slot on its outer proximal edge which can be used to rotationally secure an obround inner cannula proximal flange. The inner cannula may also comprise windows for use with retaining nubs disposed on the interior of the outer cannula passageway and an insertion tool having a moveable protrusions.

No. of Pages : 16 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023327 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD AND SYSTEM OF EVALUATING A RADIATION THERAPY TREATMENT PLAN

(51) International classification	:A61N0005100000, G06Q0030020000, G16H0020400000, G01T0003000000, G16H0050300000	(71) Name of Applicant : 1)RAYSEARCH LABORATORIES AB (PUBL) Address of Applicant :P.O Box 3297 103 65 Stockholm Sweden
(31) Priority Document No	:19152863.7	(72) Name of Inventor :
(32) Priority Date	:21/01/2019	1)TRANEUS, Erik
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/IB2020/050672	
Filing Date	:29/01/2020	
(87) International Publication No	:WO 2020/152660	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method of evaluating a radiation therapy (RT) treatment plan for a treatment volume, divided into sub-volumes and having a target volume and one or more organs at risk, OAR. It includes obtaining a RT treatment plan; calculating the linear energy transfer, LET, in each sub-volume; dividing the dose distribution into doses of a first category and a second category in each sub-volume, wherein the first category comprises doses with energy depositions with an LET below a first LET threshold and the second category comprises doses with energy depositions with an LET above a second LET threshold; determining amounts of doses of the first and of the second category in each sub-volume; and performing an analysis of the quality of the RT treatment plan by metrics based on the obtained distribution of doses of the first and of the second category in the target volume and in the OAR.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023328 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : OPTICAL FIBER SENSING EXPANSION DEVICE AND OPTICAL FIBER SENSING SYSTEM

(51) International classification	:G02B0006380000, A61B0005000000, G01H0009000000, H04B0010077000, H04J0014020000	(71) Name of Applicant : 1)NEC CORPORATION Address of Applicant :7-1, Shiba 5-chome, Minato-ku, Tokyo 1088001 Japan
(31) Priority Document No	:2018-225989	(72) Name of Inventor :
(32) Priority Date	:30/11/2018	1)YODA Yukihide
(33) Name of priority country	:Japan	2)AONO Yoshiaki
(86) International Application No	:PCT/JP2019/046875	
Filing Date	:29/11/2019	
(87) International Publication No	:WO 2020/111260	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided according to the present disclosure is an optical fiber sensing expansion device (30) provided with a sensor unit (32) storing a sensing optical fiber (33), a fixing unit for fixing the sensor unit (32) to an object to be monitored (40), and a fiber connection unit (31) that can connect the sensing optical fiber (33) to an optical fiber (10). The fiber connection unit (31) superimposes a detection result from the sensor unit (32) on an optical signal transmitted by the optical fiber (10).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023330 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : EXHAUST DEVICE AND TIRE MOLD

(51) International classification :B29D0030060000,
B29C0033100000,
E21B0037020000,
B29D0023200000,
A61F0009000000

(31) Priority Document No :201910504263.9

(32) Priority Date :12/06/2019

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/110537
Filing Date :11/10/2019

(87) International Publication No :WO 2020/248445

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

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

(71)Name of Applicant :

1)HIMILE MECHANICAL SCIENCE AND TECHNOLOGY (SHANDONG) CO., LTD

Address of Applicant :No.1 Himile Road, Mishui Science & Technology Industry Zone, Gaomi Weifang, Shandong 261500 China

(72)Name of Inventor :

1)ZHANG, Wei

2)WANG, Wanli

3)DU, Ping

4)SUN, Riwen

5)LI, Jian

6)FENG, Lixin

7)ZANG, Yizhao

(57) Abstract :

An exhaust device and a tire mold, relating to the field of tire vulcanization processing technology. The exhaust device comprises: a mandrel (200) and a sleeve shell (100) for sheathing the mandrel (200), an exhaust channel (101) being formed between the sleeve shell (100) and the mandrel (200); the mandrel (200) comprises a body (210), one end of the body (210) is connected to a head (230), and the other end of the body (210) is connected to an end piece (250), the end piece (250) is provided with a through groove (220), the through groove (220) penetrates the end piece (250), and one end of the through groove (220) facing away from the head (230) is closed; the end piece (250) is used for axially limiting the mandrel (200), and the end piece (250) is also used for assembling the sleeve shell (100) and the mandrel (200) by retracting and rebounding. The exhaust device alleviates the technical problems in the prior art that the accuracy of the closing stroke of the mandrel is low, and the mandrel has poor firmness and is easy to break, and can avoid blockage of the exhaust channel and formation of rubber hairs.

No. of Pages : 23 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023347 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ANTIBODY-DRUG CONJUGATE AND APPLICATION THEREOF

(51) International classification :A61K0047680000,
A61P0035000000,
A61K0039395000,
A61K0047540000,
A61K0047600000

(31) Priority Document No :201910723947.8

(32) Priority Date :07/08/2019

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/112663
Filing Date :23/10/2019

(87) International Publication No :WO 2021/022678

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

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

(71)**Name of Applicant :**
1)MABPLEX INTERNATIONAL CO., LTD.
Address of Applicant :No. 60, Beijing Middle Road, Yantai
Development Zone, Yantai District China (Shandong) Pilot Free
Trade Zone, Shandong 264006 China

(72)**Name of Inventor :**
1)LI, Lele
2)HUANG, Changjiang
3)SUN, Youxiang
4)LIU, Lina

(57) Abstract :

An antibody-drug conjugate (ADC) product having a higher drug payload, which is prepared by using one or more cysteine residues or cysteine derivative residues as drug-linked carriers and conjugating one or more drugs simultaneously on a limited number of linked sites of an antibody, or can be prepared by a drug with a low toxicity, so that an ADC product with a larger treatment window is obtained. In addition, since a plurality of drug molecules can be conjugated at one linked site, when an ADC having the same DAR value is prepared, the obtained ADC product has better uniformity. Moreover, the usage amount of the antibody required in the production can also be greatly reduced, thereby effectively reducing production costs. The prepared ADC can still achieve the same inhibition or killing effect on tumor cells under the condition that the total amount of the conjugated drug molecules is greatly reduced compared with the ADC capable of linking only one drug molecule on the same site.

No. of Pages : 54 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023348 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DISHWASHER

(51) International classification :A47L0015420000,
A47L0015500000,
A47L0015160000,
A47L0015140000,
D06F0039020000
(31) Priority Document No :10-2018-0160324
(32) Priority Date :12/12/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2019/017585
Filing Date :12/12/2019
(87) International Publication No :WO 2020/122630
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(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
(72)Name of Inventor :
1)BUSING, Johannes
2)YANG, Ji Sun
3)YOO, Seung Wan

(57) Abstract :

Disclosed herein is a dishwasher. The dishwasher includes a main body, a tub provided inside the main body, a basket provided inside the tub to store items, an injection assembly configured to spray water to wash the item in the basket, and a duct including a first body configured to supply water to the injection assembly and provided to extend along a first direction, and a second body to which water flows and provided to extend from the first body to along second direction. The duct is formed by coupling of a first housing provided to form at least a portion of the first body and the second body, and a second housing provided to form another portion of the first body and the second body.

No. of Pages : 23 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023353 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : CODING METHOD AND APPARATUS, DECODING METHOD AND APPARATUS

(51) International classification	:G06N0003080000, G06N0003040000, G06N0003020000, G06N0003100000, G10L0025300000	(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	:201811428115.5	(72) Name of Inventor :
(32) Priority Date	:27/11/2018	1)XU, Chen
(33) Name of priority country	:China	2)LI, Rong
(86) International Application No	:PCT/CN2019/120898	3)YU, Tianhang
Filing Date	:26/11/2019	4)QIAO, Yunfei
(87) International Publication No	:WO 2020/108472	5)DU, Yinggang
(61) Patent of Addition to Application Number	:NA	6)HUANG, Lingchen
Filing Date	:NA	7)WANG, Jun
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The embodiments of the present application relate to the field of communications, and provide a coding method and apparatus, and a decoding method and apparatus. In the methods, on the basis of a kernel matrix, corresponding neural network units may be generated, and then the neural network units are formed into a coding neural network or a decoding neural network, so that the coding neural network or the decoding neural network is obtained after small neural network units are connected. Therefore, in a learning process of coding/decoding, generalization to the entire codeword space can be implemented by means of small learning samples, and the impact of information having relatively long codewords on the complexity and learning difficulty of the neural network is weakened.

No. of Pages : 49 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023360 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : THROUGH-DISPLAY OPTICAL TRANSMISSION, RECEPTION, OR SENSING THROUGH MICRO-OPTIC ELEMENTS

(51) International classification	:G06F0003041000, G02B0006320000, H04M0001020000, G02B0027000000, H01L0025160000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014 U.S.A.
(31) Priority Document No	:62/785152	(72) Name of Inventor :
(32) Priority Date	:26/12/2018	1)CHEN, Tong
(33) Name of priority country	:U.S.A.	2)WINKLER, Mark T.
(86) International Application No	:PCT/US2019/068353	3)HO, Meng-Huan
Filing Date	:23/12/2019	4)LIU, Rui
(87) International Publication No	:WO 2020/139836	5)XIANG, Xiao
(61) Patent of Addition to Application Number	:NA	6)CAI, Wenrui
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A device includes a display stack and an optical receiver. The display stack includes a set of opaque elements defining a translucent aperture. The translucent aperture extends through the display stack. The optical receiver is spaced apart from and behind a back surface of the display stack. At least one micro-optic element is formed on the back surface of the display stack, between the display stack and the optical receiver. The at least one micro-optic element includes a micro-optic element having a focal point located within the translucent aperture. The optical receiver is configured to receive light through the translucent aperture and the at least one micro-optic element.

No. of Pages : 30 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023361 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : COLD ROLLED ANNEALED STEEL SHEET WITH HIGH HOLE EXPANSION RATIO AND MANUFACTURING PROCESS THEREOF

(51) International classification	:C21D0008020000, C21D0009460000, C22C0038020000, C22C0038060000, C22C0038000000	(71) Name of Applicant : 1)ARCELORMITTAL Address of Applicant :24-26, Boulevard d'Avranches L-1160 Luxembourg Luxembourg (72) Name of Inventor : 1)HELL, Jean-Christophe
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT/IB2018/059510	
Filing Date	:30/11/2018	
(87) International Publication No	:WO 2020/109850	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A cold rolled annealed steel sheet having a chemical composition comprising, in weight %: 0.30% = C = 0.50%, 1.00% = Mn = 2.50%, 1.00% = Si = 2.00%, Al = 2.00%, Cr = 0.100%, 0.100% = Mo = 0.500%, 0.020% = Nb = 0.200%, B = 0.0005%, P = 0.02%, S = 0.005%, N = 0.01%, the remainder being Fe and unavoidable impurities, with the percentages in carbon, manganese, chromium, molybdenum and boron are such that the alloy satisfies the following condition: $250\%C + 120\%Mn - 200\%Cr + 200\%Mo - 10000\%B = 320$, and wherein the microstructure comprises in surface fraction, 35% to 45 % of islands of martensite and retained austenite (M-A), the total retained austenite is higher than or equal to 24%, the remainder consisting of bainitic ferrite.

No. of Pages : 13 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023362 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : CYSTEINE ENGINEERED ANTIBODY-DRUG CONJUGATES WITH PEPTIDE-CONTAINING LINKERS

(51) International classification	:A61K0047680000, A61P0035000000, A61K0047650000, A61K0047600000, C07C0311460000
(31) Priority Document No	:62/751945
(32) Priority Date	:29/10/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/058586
Filing Date	:29/10/2019
(87) International Publication No	:WO 2020/092385
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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Address of Applicant :840 Memorial Drive Cambridge,
Massachusetts 02139 U.S.A.
(72)**Name of Inventor :**
1)TOADER, Dorin
2)CATCOTT, Kalli
3)LOWINGER, Timothy B.

(57) Abstract :

The present disclosure relates generally to cysteine engineered antibody-drug conjugates comprising peptide-containing linkers and to methods of using these conjugates as therapeutics and/or diagnostics.

No. of Pages : 267 No. of Claims : 48

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023363 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PYRAZOLYL COMPOUNDS AND METHODS OF USE THEREOF

(51) International classification	:A61P0035000000, A61K0045060000, C07D0403040000, A61P0035020000, C07D0403140000	(71) Name of Applicant : 1)ARRIEN PHARMACEUTICALS LLC Address of Applicant :9980 South, Suite #200 Salt Lake City, Utah 84070 U.S.A.
(31) Priority Document No	:62/751405	(72) Name of Inventor :
(32) Priority Date	:26/10/2018	1)VANKAYALAPATI, Hariprasad
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/058187	
Filing Date	:25/10/2019	
(87) International Publication No	:WO 2020/087024	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Compounds having activity as chemotherapeutic agents are provided. The compounds have the following structure (I): or a pharmaceutically acceptable salt, stereoisomer, isotopic form or prodrug thereof, wherein R1a, R1b, R1c, R1d, L, A, and B are as defined herein. Methods associated with preparation and use of such compounds, pharmaceutical compositions comprising such compounds and methods for treating cancer (e.g., hematological cancers) are also provided.

No. of Pages : 140 No. of Claims : 43

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023364 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A METHOD OF MANUFACTURING MARTENSITIC STEEL AND A MARTENSITIC STEEL THEREOF

(51) International classification	:C22C0038020000, C22C0038040000, C22C0038060000, C21D0008020000, C22C0038000000	(71) Name of Applicant : 1)ARCELORMITTAL Address of Applicant :24-26, Boulevard D'avranches L-1160 Luxembourg Luxembourg (72) Name of Inventor : 1)GHASSEMI-ARMAKI, Hassan 2)PATEL, Vikas Kanubhai 3)GUSTAFSON, Timothy
(31) Priority Document No	:PCT/IB2018/059513	
(32) Priority Date	:30/11/2018	
(33) Name of priority country	:PCT	
(86) International Application No	:PCT/IB2019/059833	
Filing Date	:15/11/2019	
(87) International Publication No	:WO 2020/109918	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A martensitic steel comprising of the following elements, expressed in percentage by weight 0.1% C 0.4%; 0.2% Mn 2%; 0.4% Si 2%; 0.2% Cr 1%; 0.01% Al 1%; 0% S 0.09%; 0% P 0.09%; 0% N 0.09%; and can contain one or more of the following optional elements 0% Ni 1%; 0% Cu 1%; 0% Mo 0.1%; 0% Nb 0.1%; 0% Ti 0.1%; 0% V 0.1%; 0.0015% B 0.005%; 0% Sn 0.1%; 0% Pb 0.1%; 0% Sb 0.1%; 0% Ca 0.1%; the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel having microstructure by area percentage comprising of cumulative presence of residual austenite and bainite between 0 % and 25%, the remaining microstructure being martensite at least 70%, and with an optional presence of ferrite between 0% and 10%.

No. of Pages : 17 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023365 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : USE OF AN EGG GRAFTED WITH TUMOR CELLS IN ORDER TO STUDY THE ANTI-CANCER EFFECTIVENESS OF IMMUNE THERAPIES IN THE ABSENCE OF IMMUNE EFFECTOR CELLS OTHER THAN THOSE IN THE GRAFTED EGG

(51) International classification	:A01G0002300000, C12N0007000000, A01K0067027000, A61K0039000000, C08F0255020000	(71) Name of Applicant : 1)INOVOTION Address of Applicant :Biopolis 5 Avenue du Grand Sablon 38700 La Tronche France
(31) Priority Document No	:1860000	(72) Name of Inventor :
(32) Priority Date	:29/10/2018	1)ROUSSET, Xavier
(33) Name of priority country	:France	2)DOSDA, Emilien
(86) International Application No	:PCT/FR2019/052572	3)VIALLET, Jean
Filing Date	:29/10/2019	
(87) International Publication No	:WO 2020/089561	
(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 use of an embryonated egg model grafted with tumor cells to study the anti-cancer effectiveness or screen immunotherapeutic molecules in the absence of immune effector cells other than those in the grafted egg.

No. of Pages : 30 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023381 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : COMPOUNDS FOR INHIBITION OF ALPHA 4 BETA 7 INTEGRIN

<p>(51) International classification :C07D0487040000, C07F0009656100, A61K0031506000, A61P0035000000, A61K0031553000</p> <p>(31) Priority Document No :62/752859 (32) Priority Date :30/10/2018 (33) Name of priority country :U.S.A. (86) International Application No :PCT/US2019/058583 Filing Date :29/10/2019 (87) International Publication No :WO 2020/092383 (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)GILEAD SCIENCES, INC. Address of Applicant :333 Lakeside Drive Foster City, California 94404 U.S.A.</p> <p>(72)Name of Inventor : 1)BLOMGREN, Peter A. 2)CAMPBELL, Taryn 3)CHANDRASEKHAR, Jayaraman 4)CLARK, Christopher T. 5)CODELLI, Julian A. 6)CURRIE, Kevin S. 7)KROPF, Jeffrey E. 8)MOAZAMI, Yasamin 9)NAVA, Nicole 10)PATEL, Leena 11)PERREAULT, Stephane 12)PERRY, Jason K. 13)SEDILLO, Kassandra F. 14)SEEGER, Natalie 15)STEVENS, Kirk L. 16)TREIBERG, Jennifer Anne 17)YEUNG, Suet C. 18)ZHAO, Zhongdong</p>
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(57) Abstract :

The present disclosure provides a compound of Formula (I): or a pharmaceutically acceptable salt thereof as described herein. The present disclosure also provides pharmaceutical compositions comprising a compound of Formula (I), processes for preparing compounds of Formula (I), and therapeutic methods for treating inflammatory disease.

No. of Pages : 240 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023382 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : COMPOUNDS FOR INHIBITION OF ALPHA 4 β 7 INTEGRIN

<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>:C07D0487040000, C07F0009656100, A61K0031506000, A61P0035000000, A61K0031553000</p> <p>:62/752854</p> <p>:30/10/2018</p> <p>:U.S.A.</p> <p>:PCT/US2019/058610 :29/10/2019</p> <p>:WO 2020/092401</p> <p>:NA :NA</p> <p>:NA :NA</p>	<p>(71)Name of Applicant : 1)GILEAD SCIENCES, INC. Address of Applicant :333 Lakeside Drive Foster City, California 94404 U.S.A.</p> <p>(72)Name of Inventor : 1)BLOMGREN, Peter A. 2)CAMPBELL, Taryn 3)CHANDRASEKHAR, Jayaraman 4)CLARK, Christopher T. 5)CODELLI, Julian A. 6)CURRIE, Kevin S. 7)KROPF, Jeffrey E. 8)MOAZAMI, Yasamin 9)NAVA, Nicole 10)PATEL, Leena 11)PERREAULT, Stephane 12)PERRY, Jason K. 13)SEDILLO, Kassandra F. 14)SEEGER, Natalie 15)STEVENS, Kirk L. 16)TREIBERG, Jennifer Anne 17)YEUNG, Suet C. 18)ZHAO, Zhongdong</p>
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(57) Abstract :

The present disclosure provides a compound of Formula (I); or a pharmaceutically acceptable salt thereof as described herein. The present disclosure also provides pharmaceutical compositions comprising a compound of Formula (I), processes for preparing compounds of Formula (I), and therapeutic methods for treating inflammatory disease.

No. of Pages : 246 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023397 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : APPARATUS AND METHOD FOR PROCESSING IRON ORE

(51) International classification	:B02C0021020000, B02C0023020000, B02C0013090000, B29C0049640000, B02C0021000000	(71) Name of Applicant : 1)FORTESCUE METALS GROUP LTD Address of Applicant :Level 2 87 Adelaide Terrace East Perth, Western Australia 6004 Australia
(31) Priority Document No	:2018904512	(72) Name of Inventor :
(32) Priority Date	:27/11/2018	1)HARRIS, Warren
(33) Name of priority country	:Australia	2)JOLLEY, Daniel
(86) International Application No	:PCT/AU2019/051301	
Filing Date	:27/11/2019	
(87) International Publication No	:WO 2020/107070	
(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 processing iron ore, including a primary crusher, a secondary crusher and a tertiary crusher, wherein the apparatus includes a pair of independently operable conveyors from the primary crusher to the secondary crusher, from the secondary crusher to the tertiary crusher, and/or from the tertiary crusher to a screen which feeds back to the tertiary crusher.

No. of Pages : 13 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023398 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : THERMAL ENERGY STORAGE ASSEMBLY

(51) International classification :F28D0020000000,
F28D0020020000,
B60H0001320000,
F25D0031000000,
B01L0003000000

(31) Priority Document No :1851338-2

(32) Priority Date :29/10/2018

(33) Name of priority country :Sweden

(86) International Application No :PCT/SE2019/051077
Filing Date :29/10/2019

(87) International Publication No :WO 2020/091673

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

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

(71)Name of Applicant :

1)AZELIO AB

Address of Applicant :Forsbrogatan 4 662 34 Åmål Sweden

(72)Name of Inventor :

1)RILBY, Erik

2)WIKSTRÖM, Henrik

3)LINDQUIST, Torbjörn

4)GLOSS, Daniel

(57) Abstract :

An assembly for storing thermal energy comprising a phase change material, PCM, storage vessel and at least one heat transfer fluid, HTF, receptacle, the PCM storage vessel being defined by a thermally conductive wall 108, the PCM storage vessel 100 comprising an inverted tapered portion, the inverted tapered portion having a tip portion and a base portion, the tip portion having a diameter less than the diameter of the base portion, the tip portion being arranged relatively beneath the base portion, the at least one HTF receptacle being provided adjacent to and in thermal communication with at least a portion of the PCM storage vessel, thermal communication between the PCM storage vessel and the at least one HTF receptacle occurring via the thermally conductive wall, and wherein the HTF receptacle comprises a portion for receiving thermal energy from an external thermal energy source, the said portion being adjacent the tip portion of the inverted tapered portion.

No. of Pages : 21 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023401 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : FREQUENCY-BASED COMMUNICATION SYSTEM AND METHOD

(51) International classification :H04W0072120000,
H04L0005000000,
H04L0012875000,
H04W0072040000,
H04B0003540000

(31) Priority Document No :62/758791

(32) Priority Date :12/11/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/055120
Filing Date :08/10/2019

(87) International Publication No :WO 2020/101821

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

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

(71)**Name of Applicant :**
1)Transportation IP Holdings, LLC
Address of Applicant :901 Main Avenue, Norwalk,
Connecticut, 06851 U.S.A. U.S.A.

(72)**Name of Inventor :**
1)BUSH, Stephen, Francis
2)MANTELET, Guillaume

(57) Abstract :

A communication system includes multiple nodes of a time-sensitive network and a scheduler device. At least one of the nodes is configured to obtain a first signal that is represented in a frequency domain by multiple frequency components. The scheduler device generates a schedule for transmission of signals including the first signal within the time-sensitive network. The schedule defines multiple slots assigned to different discrete frequency sub-bands within a frequency band. The slots have designated transmission intervals. The nodes are configured to transmit the first signal through the time-sensitive network to a listening device such that the first signal is received at the listening device within a designated time window according to the schedule. At least some of the frequency components of the first signal are transmitted through the time-sensitive network within different slots of the schedule based on the frequency sub-bands assigned to the slots.

No. of Pages : 43 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023404 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SHIFT DEVICE FOR SADDLED VEHICLE

(51) International classification	:F16H0063180000, F16H0061320000, F16H0061280000, B62M0011060000, F16H0063500000	(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	:2018-204331	(72) Name of Inventor :
(32) Priority Date	:30/10/2018	1)TOKITO Akira
(33) Name of priority country	:Japan	2)SUGANO Takeshi
(86) International Application No	:PCT/JP2019/036966	3)NUKADA Yoshitaka
Filing Date	:20/09/2019	4)RYUZAKI Tatsuya
(87) International Publication No	:WO 2020/090282	5)ONO Junya
(61) Patent of Addition to Application Number	:NA	6)YOKOTA Hiroshi
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This shift device for a saddled vehicle is provided with: a shift drum (36) rotated about an axis to switch between the shift speeds of a transmission (21); a shift spindle (31) rotated about the axis by shift operation of the rider to rotate the shift drum (36); a shift operation sensor (48) for detecting the rotation of the shift spindle (31); and a sensor activation shaft (49) which is disposed between the shift spindle (31) and the shift operation sensor (48), is rotated in coordination with the shift spindle (31), and transmits the rotation of the shift spindle (31) to the shift operation sensor (48).

No. of Pages : 43 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023405 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : HOLE PROCESSING TOOL, AND DESIGN METHOD, MANUFACTURING METHOD, AND EVALUATION METHOD FOR SAME

(51) International classification	:G01C0025000000, H01F0001260000, G06F0030200000, G06F0030367000, B23Q0017090000	(71)Name of Applicant : 1)AYABO CORPORATION Address of Applicant :1, Hosogute, Fukama-cho, Anjo-shi, Aichi 4460052 Japan 2)NATIONAL UNIVERSITY CORPORATION KAGOSHIMA UNIVERSITY 3)NATIONAL UNIVERSITY CORPORATION OITA UNIVERSITY
(31) Priority Document No	:2018-206189	(72)Name of Inventor : 1)MATSUZAKI, Kenichiro 2)RYU, Takahiro 3)TSUKAMOTO, Keizo
(32) Priority Date	:31/10/2018	
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/041590	
Filing Date	:24/10/2019	
(87) International Publication No	:WO 2020/090594	
(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 method for simply evaluating a simulation result on the basis of the Matsuzaki-Liu model. This hole processing tool for forming a hole is provided with a plurality of cutting edges, wherein when the cutting edges are applied to the Matsuzaki-Liu characteristic equation, the maximum real part Ts_{MAX} is in the range of a predetermined threshold with respect to the maximum real part Rs_{MAXX} of a reference hole processing tool if No is the integer value closest to the imaginary part of a quasi-static characteristic root s , which is a characteristic root at the vibration frequency $=0$, and if the maximum real part s_{MAX} is the maximum real part of the quasi-static characteristic root s that satisfies $3=No=2n+1$ (n is the number of cutting edges).

No. of Pages : 34 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023406 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHODS AND APPARATUSES FOR MOBILE-TERMINATED EARLY DATA TRANSMISSION SIGNALLING

(51) International classification	:H04W0074080000, H04W0076190000, H04W0072040000, H04L0029060000, H04W0048120000	(71) Name of Applicant : 1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) Address of Applicant :164 83 Stockholm Sweden
(31) Priority Document No	:62/754473	(72) Name of Inventor :
(32) Priority Date	:01/11/2018	1)PHAM VAN, Dung
(33) Name of priority country	:U.S.A.	2)STATTIN, Magnus
(86) International Application No	:PCT/SE2019/051104	3)YAVUZ, Emre
Filing Date	:01/11/2019	4)HÖGLUND, Andreas
(87) International Publication No	:WO 2020/091685	5)TIRRONEN, Tuomas
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A network node (12) is configured for transmitting a mobile-terminated early data transmission during a random-access procedure. The network node (12) transmits a page (24) comprising a contention-free preamble (26-1) corresponding to an identity (22) associated with a wireless device (14) to be paged. The identity (22) may be a Serving Temporary Mobile Subscriber Identity, S-TMSI, or a resume identity that identifies a suspended Radio Resource Control, RRC, connection. The network node (12) then receives, as part of the random-access procedure, a Msg1 transmission (28) that comprises the contention-free preamble (26-1). The network node (12) next transmits, as part of the random-access procedure, a Msg2 transmission (30) to the wireless device (14) associated with the identity (22) corresponding to the contention-free preamble (26-1). The Msg2 transmission (30) comprises a signaling message (32) and downlink data (16).

No. of Pages : 63 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023411 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : (ANTI-CDH6 ANTIBODY)-(PYRROLOBENZODIAZEPINE DERIVATIVE) CONJUGATE

(51) International classification	:A61K0047680000, A61K0039395000, C07K0016280000, A61P0035000000, C07K0016300000	(71) Name of Applicant : 1)DAIICHI SANKYO COMPANY, LIMITED Address of Applicant :3-5-1, Nihonbashi Honcho, Chuo-ku, Tokyo 1038426 Japan
(31) Priority Document No	:2018-214110	(72) Name of Inventor :
(32) Priority Date	:14/11/2018	1)SAITO Atsuko
(33) Name of priority country	:Japan	2)HARADA Naoya
(86) International Application No	:PCT/JP2019/044588	3)YONEDA Kozo
Filing Date	:13/11/2019	4)HAYAKAWA Ichiro
(87) International Publication No	:WO 2020/100954	5)MEGURO Masaki
(61) Patent of Addition to Application Number	:NA	6)DOI Fuminao
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention addresses the problem of providing: an antibody which can bind specifically to CDH6 and has a high internalization activity; an antibody-drug conjugate which contains the antibody and has a high anti-tumor activity; a medicine which is prepared using the antibody-drug conjugate and has a therapeutic effect on tumors; a method for treating a tumor using the antibody, the antibody-drug conjugate or the medicine; and others. According to the present invention, there are provided: an anti-CDH6 antibody which has an internalization activity; an (anti-CDH6 antibody)-drug conjugate which comprises the anti-CDH6 antibody and a novel PBD derivative bonded to each other and has a high anti-tumor activity; and a medicine and a method for treating a tumor, in each of which the anti-CDH6 antibody or the (anti-CDH6 antibody)-drug conjugate is used.

No. of Pages : 371 No. of Claims : 65

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023424 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A MOULDED ARTICLE COMPRISING A POLYPROPYLENE COMPOSITION SUITABLE FOR GAMMA-RAY STERILIZATION

(51) International classification	:C08L0023120000, C08L0023100000, C08F0110060000, D01F0006460000, C08L0023140000	(71) Name of Applicant : 1)BOREALIS AG Address of Applicant :IZD Tower Wagramer Str. 17-19 1220 Vienna Austria
(31) Priority Document No	:18203378.7	(72) Name of Inventor :
(32) Priority Date	:30/10/2018	1)WANG, Jingbo
(33) Name of priority country	:EPO	2)GAHLEITNER, Markus
(86) International Application No	:PCT/EP2019/079596	3)BERNREITNER, Klaus
Filing Date	:30/10/2019	
(87) International Publication No	:WO 2020/089268	
(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 to a moulded article comprising a polypropylene composition (C) comprising a first isotactic propylene homopolymer (H-PP) and a second polypropylene (PP2) having low melt temperature and low crystallinity. The present invention is further directed to a process for gamma ray sterilizing said moulded article.

No. of Pages : 26 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023426 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEM TO ACQUIRE INFORMATION ON NUMBER OF PEOPLE, METHOD FOR ACQUIRING INFORMATION ON NUMBER OF PEOPLE, AND ELEVATOR

(51) International classification	:G06K0009000000, A61B0005145500, H04W0064000000, H04N0005232000, G06T0003400000	(71) Name of Applicant : 1)HITACHI, LTD. Address of Applicant :6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo 1008280 Japan
(31) Priority Document No	:PCT/JP2018/044137	(72) Name of Inventor :
(32) Priority Date	:30/11/2018	1)SUKEGAWA Yuta
(33) Name of priority country	:Japan	2)HATORI Takahiro
(86) International Application No	:PCT/JP2018/044137	3)MAEHARA Tomoaki
Filing Date	:30/11/2018	4)OKADA Takahiro
(87) International Publication No	:WO 2020/110279	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In the present invention, an image of a location being measured taken by a camera is received, the number of people in the location being measured is calculated on the basis of the received image, and processing to allocate a passenger car is performed according to the calculated number of people. Here, when an abnormality is determined to be preventing the reception images from the camera, detected values from a sensor or the like installed in a passenger car or in the location being measured are referenced and processing to calculate the number of people in the passenger car or the location being measured is performed.

No. of Pages : 32 No. of Claims : 10

(54) Title of the invention : APPARATUS FOR TIGHTENING THREADED FASTENERS

(51) International classification	:B25B0021000000, B25B0023000000, F16B0043000000, B25B0013480000, F16B0039240000	(71) Name of Applicant : 1)HYTORC DIVISION UNEX CORPORATION Address of Applicant :333 Route 17 North Mahwah, NJ 07430 U.S.A.
(31) Priority Document No	:62/754563	(72) Name of Inventor :
(32) Priority Date	:01/11/2018	1)JUNKERS, John K.
(33) Name of priority country	:U.S.A.	2)ZHANG, Xiaoxing
(86) International Application No	:PCT/US2019/059438	3)JUNKERS, Eric P.
Filing Date	:01/11/2019	4)DOLAN, Michael F.
(87) International Publication No	:WO 2020/092932	5)LAY, David, E.
(61) Patent of Addition to Application Number	:NA	6)BONAS, Calvin A.
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This Application seeks to protect Applicant's HYTORC® Z® System which involves: tools having multi-speed / multi-torque modes with torque multiplication and vibration mechanisms without use of external reaction abutments; a force transfer means to yield in-line co-axial action and reaction for use with such tools; driving means and shifting means capable of attaching to washers under the nut for use with such tools and force transfer means; associated washers and fasteners for use with such tools, force transfer means and driving means; and related accessories for use with such tools, force transfer means, driving means, washers and fasteners. The HYTORC® Z® System includes the following: Z® Washers located under nuts or bolt heads of various types having engageable perimeters of multiple shapes, sizes, geometries and serrations, such as washer/fastener radius engagement differentials, and frictionally biased faces with relatively higher friction against the flange surface and relatively lower friction against the nut, such as friction coefficient increasing treatment means of various types, sizes and locations; HYTORC Z® Guns incorporating a powerful intermittent (impact, vibration, ultrasonic, etc.) mechanism, a precise torque multiplier in the same tool combining rapid run-down with calibrated torque; HYTORC® Z® Sockets with dual drive coaxial action and reaction having outer sleeves to react on Z® Washers and an inner sleeves to turn nuts or bolt heads; HYTORC® Z® Spline Adapters and Reaction Plates for backwards compatibility with HYTORC®'s torque/tension systems including the AVANTI® and ICE® square drive systems, the STEALTH® limited clearance system, the pneumatic jGUN® series, the FLASH® Gun and LITHIUM Series electric multipliers and more; the combination of HYTORC Z® Washer and the HYTORC® Z® Dual Friction Washer™ including a dual friction- enhanced face washer and/or the HYTORC® Z® Nut/Bolt for counter-torque under a nut or bolt head on the other side of the joint; HYTORC® Z® Dual Drive Offset Links for tight clearances while using HYTORC®'s torque/tension systems; HYTORC® Z® Vibration Mechanisms applied thereof; Z®-Squirter® Washers; Z®- DTI Washers; HYTORC® Z® Washer and Nut Assemblies; Anti-Loosening Z® Washers; and any combinations thereof. Further disclosures include: Tapered Fastener Assemblies; Tapered Torsional Couplings; Two-Part Tapered Nut Assemblies; Two-Part Tapered Thread Nut Assemblies; HYTORC® Anti- Loosening Z® Washers, Nuts and SMARTSTUDS; and any combinations thereof.

No. of Pages : 125 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023447 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SOLUBLE COFFEE POWDER

(51) International classification :A23F0005400000,
A23F0005380000,
A23F0005460000,
B65D0085804000,
A23F0005360000

(31) Priority Document No :62/801177

(32) Priority Date :05/02/2019

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/EP2020/052604
Filing Date :03/02/2020

(87) International Publication No :WO 2020/161068

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

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

(71)Name of Applicant :
1)SOCIÉTÉ DES PRODUITS NESTLÉ S.A.
Address of Applicant :Avenue Nestlé 55 1800 Vevey
Switzerland

(72)Name of Inventor :
1)MORA, Federico
2)COTTER, Daniel
3)ROBASZKIEWICZ, Aleksander
4)FU, Xiaoping
5)DUPAS, Julien

(57) Abstract :

The present invention relates to a soluble beverage powder consisting of dried coffee extract. In particular to a soluble coffee powder having a gold appearance. Further aspects of the invention are a powder mix for preparing a beverage and a process for making a soluble beverage powder.

No. of Pages : 17 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023454 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MYOSTATIN SIGNAL INHIBITOR

(51) International classification :C07K0016280000,
C07K0016220000,
C07K0014705000,
A61K0038170000,
C12Q0001681600

(31) Priority Document No :1821269.6

(32) Priority Date :28/12/2018

(33) Name of priority country :U.K.

(86) International Application No :PCT/JP2019/051651
Filing Date :26/12/2019

(87) International Publication No :WO 2020/138509

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

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

(71)Name of Applicant :

1)NIPPON SHINYAKU CO., LTD.

Address of Applicant :14, Kisshoin Nishinosho Monguchicho,
Minami-ku, Kyoto-shi, Kyoto 6018550 Japan

(72)Name of Inventor :

1)NAKAGAWA, Shinichiro

(57) Abstract :

The present invention provides a new approach for inhibiting myostatin signaling by targeting ACVR2B at the mRNA level.

No. of Pages : 91 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023455 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DISPLAY DEVICE

(51) International classification	:H01L0027320000, H01L0029786000, H01L0027120000, G02F0001136200, H01L0033480000	(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
(31) Priority Document No	:10-2018-0148353	(72) Name of Inventor :
(32) Priority Date	:27/11/2018	1)KWAG, Jin Oh
(33) Name of priority country	:Republic of Korea	2)IM, Hyun Deok
(86) International Application No	:PCT/KR2019/010727	3)SONG, Keun Kyu
Filing Date	:23/08/2019	4)JO, Sung Chan
(87) International Publication No	:WO 2020/111452	5)CHO, Hyun Min
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A display device is provided. The display device comprises: a first electrode and a second electrode spaced apart from and arranged to face the first electrode; a first insulating layer arranged to cover at least a partial region of the first and second electrodes; a shielding electrode layer which is arranged on the first insulating layer and which does not overlap at least a portion of the first and second electrodes; and at least one light-emitting element arranged between the first and second electrodes so as to be spaced apart from the shielding electrode layer, wherein the at least one light-emitting element can be arranged in a region in which the shielding electrode layer does not overlap the first and second electrodes.

No. of Pages : 67 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023476 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SELF-ACTUATING MECHANICALLY-BIASED CONTAINER RESTRAINT

(51) International classification	:B66C0001440000, B65D0043020000, H05K0007140000, B67B0003200000, B65D0050040000	(71) Name of Applicant : 1)BD Kiestra B.V. Address of Applicant :Marconilaan 6 9207 JC Drachten Netherlands
(31) Priority Document No	:62/752042	(72) Name of Inventor :
(32) Priority Date	:29/10/2018	1)SINNEMA, Jurjen
(33) Name of priority country	:U.S.A.	2)FEIJEN, Franciscus
(86) International Application No	:PCT/EP2019/079336	
Filing Date	:28/10/2019	
(87) International Publication No	:WO 2020/089139	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system and method for a self-actuating, mechanically-biased container restraint. The system requires no computer-aided control or timing, nor is any external power source needed, other than the force exerted as a container is inserted into the restraint. The system relies upon an assembly including mechanically-biased pivoting levers, each of which has a horizontal element and a vertical element. All actuation occurs as the base of an inserted container comes into contact with the upper surface of the horizontal elements of multiple pivoted levers positioned at the base of a channel adapted to serve as a guide for the inserted tube. The levers are biased in this elevated position by mechanical means, such as a spring. As the inserted tube presses the horizontal members downward, the top portions of the vertical members are pivoted inward toward the container's exterior. Friction pads situated upon the interior surface of each vertical element are brought into contact with the exterior of the container, thereby gripping it. This gripping action holds the container with sufficient friction to permit the removal or attachment of a screw cap. Further embodiments of the invention include a mechanically biased platform supporting the channel and the pivoting levers. This base is biased and positioned to permit the channel and the pivoting lever assembly to be translated downward against the force biasing the platform and translate through the body of the container restraint. This further advancement of container, the channel and the lever assembly cause the pivoting levers to assume fully engaged gripping positions, and brings the vertical elements of the levers (and flexible friction pads upon them) into full upright positions. In this position the friction pads apply a maximum static friction force to the exterior of the container.

No. of Pages : 22 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023478 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : GASIFICATION OF DISULFIDE OIL TO PRODUCE HYDROGEN AND CARBON MONOXIDE (SYNGAS)

(51) International classification	:C10K0003040000, C10J0003460000, C10J0003840000, C01B0003480000, C10K0001000000	(71) Name of Applicant : 1)SAUDI ARABIAN OIL COMPANY Address of Applicant :Box 5000 Dhahran, 31311 Saudi Arabia 2)KOSEOGLU, Omer Refa
(31) Priority Document No	:16/210597	(72) Name of Inventor :
(32) Priority Date	:05/12/2018	1)KOSEOGLU, Omer Refa
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/063816	
Filing Date	:28/11/2019	
(87) International Publication No	:WO 2020/117609	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A disulfide oil hydrocarbon stream or a mixture of a disulfide oil hydrocarbon stream and a residual oil is partially oxidized in a gasifier to produce a hot raw synthesis gas containing hydrogen and carbon monoxide which can be passed to a steam generating heat exchanger to cool the hot raw synthesis gas and to produce steam which can be used to generate electricity via a turbine and, optionally, subjecting the cooled synthesis gas to the water/gas shift reaction to produce additional hydrogen and carbon dioxide.

No. of Pages : 20 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023479 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR PRESENTING VIDEO ON ELECTRONIC DEVICE WHEN INCOMING CALL COMES, AND ELECTRONIC DEVICE

(51) International classification	:H04M0001725000, G06F0003140000, H04N0021439000, H04N0021431000, G06F0003048200	(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	:201910108885.X	(72) Name of Inventor : 1)CAI, Wendi
(32) Priority Date	:03/02/2019	
(33) Name of priority country	:China	
(86) International Application No	:PCT/CN2020/072678	
Filing Date	:17/01/2020	
(87) International Publication No	:WO 2020/156230	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present application provides a method for presenting a video on an electronic device when an incoming call comes, and an electronic device. The electronic device comprises a screen. The method comprises: receiving a first incoming call request; displaying a first incoming call display interface on the screen according to the first incoming call request, and playing a first video in the first incoming call display interface; receiving a second incoming call request; and displaying a second incoming call display interface on the screen according to the second incoming call request, and playing a second video in the second incoming call display interface. The first incoming call request and the second incoming call request are two call requests continuously received by the electronic device, and the first video is different from the second video. According to the method for displaying the video on the electronic device when the incoming call comes provided by embodiments of the present application, the user experience when the incoming call comes can be improved.

No. of Pages : 50 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023480 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MAGNETIC-BODY INSPECTION DEVICE AND MAGNETIC-BODY INSPECTION SYSTEM

(51) International classification	:H02J0050100000, H01F0038140000, G01D0005200000, H04B0005000000, G06F0003041000	(71) Name of Applicant : 1)SHIMADZU CORPORATION Address of Applicant :1, Nishinokyo-Kuwabara-cho, Nakagyo-ku, Kyoto-shi, Kyoto 6048511 Japan
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)IJIMA, Kenji
(33) Name of priority country	:NA	
(86) International Application No	:PCT/JP2018/041092	
Filing Date	:06/11/2018	
(87) International Publication No	:WO 2020/095354	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This magnetic-body inspection device (100) is provided with a sensing part (1) including a differential coil (12), and a sensing signal acquisition part (21), the differential coil (12) having at least a differentially connected first reception coil (121) comprising a planar coil and a second reception coil (122) comprising a planar coil, and the first reception coil (121) and the second reception coil (122) being arranged so that the sensing surfaces thereof face each other with a magnetic body (W) interposed therebetween.

No. of Pages : 45 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023493 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : COMPOSITIONS AND METHODS FOR ALPHA-1-ANTITRYPSIN DISORDERS

(51) International classification	:C07K0014810000, A61K0038570000, C07C0231060000, C09K0008680000, C09K0008880000	(71) Name of Applicant : 1)SPIN THERAPEUTICS, LLC Address of Applicant :2600 Tenth St., Suite 435 Berkeley, California 94710 U.S.A.
(31) Priority Document No	:62/752182	(72) Name of Inventor :
(32) Priority Date	:29/10/2018	1)SATO, Aaron
(33) Name of priority country	:U.S.A.	2)DESOUZA, Mark
(86) International Application No	:PCT/US2019/058673	
Filing Date	:29/10/2019	
(87) International Publication No	:WO 2020/092448	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein are compositions and methods useful for treating an alpha-1-antitrypsin deficiency.

No. of Pages : 77 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023494 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : CANNABINOID ANALOGS AND METHODS FOR THEIR PREPARATION

(51) International classification	:A61K0031352000, C07K0016320000, C12N0015630000, C12P0007420000, C07B0059000000	(71) Name of Applicant : 1)BAYMEDICA, INC. Address of Applicant :930 Tahoe Boulevard Suite 802-433 Incline Village, Nevada 89451 U.S.A.
(31) Priority Document No	:62/753708	(72) Name of Inventor :
(32) Priority Date	:31/10/2018	1)BARR, Philip J.
(33) Name of priority country	:U.S.A.	2)MARLOWE, Charles K.
(86) International Application No	:PCT/US2019/059237	3)SUN, Jianping
Filing Date	:31/10/2019	4)KEALEY, James T.
(87) International Publication No	:WO 2020/092823	
(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 cannabinoid analogs, including halogenated cannabinoid analogs, hydroxylated cannabinoid analogs, deuterated cannabinoid analogs, and tritiated cannabinoid analogs. The cannabinoid analogs can be prepared by partial or total expression in modified host cells, such as recombinantly modified yeast cells, optionally in combination with chemical synthetic steps.

No. of Pages : 68 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023496 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MONOMETHYL FUMARATE-CARRIER CONJUGATES AND METHODS OF THEIR USE

(51) International classification	:A61K0047540000, A61K0047500000, A61K0031190000, C07H0015040000, A61K0031120000	(71)Name of Applicant : 1)FLAGSHIP PIONEERING INNOVATIONS V, INC. Address of Applicant :55 Cambridge Parkway, 8th Floor Cambridge, MA 02142 U.S.A.
(31) Priority Document No	:62/776430	(72)Name of Inventor :
(32) Priority Date	:06/12/2018	1)CASEY, John, Patrick, Jr.
(33) Name of priority country	:U.S.A.	2)BERRY, David, Arthur
(86) International Application No	:PCT/US2019/064926	3)ALEXANDER, Jessica, Elizabeth
Filing Date	:06/12/2019	4)BRIGGS, Timothy
(87) International Publication No	:WO 2020/118178	5)BUCKBINDER, Leonard
(61) Patent of Addition to Application Number	:NA	6)GUNASEKERA, Dinara, Shashanka
Filing Date	:NA	7)KAMALI SARVESTANI, Afrand
(62) Divisional to Application Number	:NA	8)KIM, Mi-Jeong
Filing Date	:NA	9)LANTER, Bernard
		10)LIANG, Anna
		11)NUDEL, Kathleen
		12)PECK, Spencer, Cory
		13)ROSS, Cheri
		14)TAYLOR, Steven, John
		15)YASUDA, Koji

(57) Abstract :

Disclosed are conjugates of monomethyl fumarate and a carrier group or aminocarrier group, or a pharmaceutically acceptable salt thereof. In the conjugates, monomethyl fumarate acyl is covalently bonded to the carrier group or aminocarrier group through a carbon-oxygen bond that is cleavable in vivo. The carrier group may include a core, e.g., a monosaccharide, a sugar acid (e.g., acid monosaccharide), a sugar alcohol, or a catechin polyphenol. The aminocarrier group may include a core, e.g., an aminomonosaccharide. The carrier group or aminocarrier group may include, e.g., at least one short chain fatty acid acyl, at least one tryptophan analogue, at least one ketone body, or at least one preketone body. Also disclosed are pharmaceutical compositions containing the conjugates and methods of their use.

No. of Pages : 114 No. of Claims : 71

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023497 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SCADA WEB HMI SYSTEM

(51) International classification	:G05B0019050000, G05B0019409000, G09G0005390000, G06F0021300000, H04N0019186000	(71) Name of Applicant : 1)TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION Address of Applicant :3-1-1, Kyobashi, Chuo-ku, Tokyo 1040031 Japan
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)HIGASHIYA, Ryosuke
(33) Name of priority country	:NA	2)NOJIMA, Akira
(86) International Application No	:PCT/JP2019/046195	3)SHIMIZU, Nobuo
Filing Date	:26/11/2019	4)SHIMIZU, Ryo
(87) International Publication No	:WO 2021/106082	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A SCADA web HMI system having a web browser that displays an HMI screen, the outer appearance of a component positioned in the HMI screen being varied according to the value of a PLC signal received from a programmable logic controller. An integrated component identifier generator generates a new integrated component identifier when attribute identifiers are the same for a first component data and a second component data. A component data modification unit modifies the component identifiers of the first component data and the second component data to the integrated component identifier. An integrated item name generator generates an integrated item name that combines: a screen identifier of the HMI screen; the joint component identifier; and the identical attribute identifiers. The web browser changes the display state for the first component in accordance with the first display information, and changes the display state for the second component in accordance with the second display information, the changes being made in proportion to the value of the received PLC signal when the received PLC signal corresponds to the integrated item name.

No. of Pages : 44 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023498 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DOUBLE SIDE MOUNTED LARGE MCM PACKAGE WITH MEMORY CHANNEL LENGTH REDUCTION

(51) International classification	:H01L0023538000, G11C0005040000, H01L0023498000, H05K0001020000, H01L0023000000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, CA 95014 U.S.A.
(31) Priority Document No	:16/204679	(72) Name of Inventor :
(32) Priority Date	:29/11/2018	1)ZHONG, Chonghua
(33) Name of priority country	:U.S.A.	2)ZHAI, Jun
(86) International Application No	:PCT/US2019/062701	3)HU, Kunzhong
Filing Date	:21/11/2019	
(87) International Publication No	:WO 2020/112504	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Double side mounted package structures and memory modules incorporating such double side mounted package structures are described in which memory packages are mounted on both sides of a module substrate. A routing substrate is mounted to a bottom side of the module substrate to provide general purpose in/out routing and power routing, while signal routing from the logic die to double side mounted memory packages is provided in the module routing. In an embodiment, module substrate is a coreless module substrate and may be thinner than the routing substrate.

No. of Pages : 8 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023499 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MEMBRANE

(51) International classification :C08J0005220000,
H01M0008102300,
H01M0008105300,
H01M0008103900,
H01M0010058000
(31) Priority Document No :1900646.9
(32) Priority Date :17/01/2019
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2020/050093
Filing Date :17/01/2020
(87) International Publication No :WO 2020/148545
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)JOHNSON MATTHEY FUEL CELLS LIMITED

Address of Applicant :5th Floor 25 Farringdon Street London
EC4A 4AB U.K.

(72)Name of Inventor :

1)MISTRY, Mayur

2)O' MALLEY, Rachel

(57) Abstract :

The present invention provides a proton exchange membrane comprising an ion-conducting layer which comprises an ion-conducting polymer and a supported recombination catalyst, wherein the recombination catalyst is supported on graphene.

No. of Pages : 19 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023500 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR OBTAINING TRANSMISSION RECEPTION POINT INFORMATION, USER TERMINAL, AND READABLE STORAGE MEDIUM

(51) International classification :H04L0005000000,
H04W0072040000,
H04L0029080000,
A61B0008000000,
H04L0001000000

(31) Priority Document No :201811294289.7

(32) Priority Date :01/11/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/112907
Filing Date :24/10/2019

(87) International Publication No :WO 2020/088334

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

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

(71)Name of Applicant :

1)BEIJING UNISOC COMMUNICATIONS TECHNOLOGY CO., LTD.

Address of Applicant :18th Floor Block B, Truth Plaza, No. 7 Zhichun Road, Haidian District, Beijing 100083 China

(72)Name of Inventor :

1)WANG, Hualei

(57) Abstract :

A method for obtaining transmission reception point (TRP) information, a user terminal, and a readable storage medium. The method comprises: receiving control information, the control information being suitable for triggering a signal or a channel; obtaining TCI comprised in the control information; and obtaining, according to the TCI, a TRP that participates in transmitting a signal or a channel triggered by the control information. The solution above can implement dynamic switching between a single TRP transmission scheme and a multi-TRP transmission scheme.

No. of Pages : 15 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023501 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ANIMAL MODEL FOR AMPLIFYING HUMAN OR ANIMAL CIRCULATING TUMOR CELLS

(51) International classification	:G01N0033574000, C12Q0001688600, G01N0033500000, A61K0031700000, A61K0035760000	(71) Name of Applicant : 1)INOVOTION Address of Applicant :BIOPOLIS 5 AVENUE DU GRAND SABLON 38700 LA TRONCHE France 2)HOSPICES CIVILS DE LYON 3)UNIVERSITE CLAUDE BERNARD LYON 1
(31) Priority Document No	:1859992	(72) Name of Inventor :
(32) Priority Date	:29/10/2018	1)ROUSSET, Xavier
(33) Name of priority country	:France	2)DOSDA, Emilien
(86) International Application No	:PCT/FR2019/052571	3)VIALLET, Jean
Filing Date	:29/10/2019	4)PAYEN-GAY, Léa
(87) International Publication No	:WO 2020/089560	5)MAILLET, Denis
(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 avian model for the amplification of human or animal circulating tumor cells (CTCs) and to the use thereof for follow-up and for determining the sensitivity of a cancer patient or animal to one or more therapeutic agents, as well as for screening novel therapeutic agents for the treatment of cancer.

No. of Pages : 27 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023502 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : THERMOELECTRIC CONVERSION MATERIAL, THERMOELECTRIC CONVERSION ELEMENT AND THERMOELECTRIC CONVERSION MODULE

(51) International classification	:H01L0035220000, H01L0035340000, H01J0011400000, C04B0038000000, C04B0035580000	(71) Name of Applicant : 1)MITSUBISHI MATERIALS CORPORATION Address of Applicant :2-3, Marunouchi 3-chome, Chiyoda-ku, Tokyo 1008117 Japan
(31) Priority Document No	:2018-242588	(72) Name of Inventor : 1)NAKADA Yoshinobu
(32) Priority Date	:26/12/2018	
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/044313	
Filing Date	:12/11/2019	
(87) International Publication No	:WO 2020/137205	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A thermoelectric conversion material which is composed of a sintered body that is mainly composed of magnesium silicide, and which is characterized by having a magnesium silicide phase (12) and a magnesium oxide layer (13) that is formed in the surface of the magnesium silicide phase (12), while being also characterized in that: an aluminum enriched layer (14) that has a higher Al concentration than the inner part of the magnesium silicide phase (12) is formed between the magnesium oxide layer (13) and the magnesium silicide phase (12); and the aluminum enriched layer (14) has an aluminum metal phase (15) that is composed of aluminum or an aluminum alloy.

No. of Pages : 27 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023503 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DAS DATA PROCESSING TO IDENTIFY FLUID INFLOW LOCATIONS AND FLUID TYPE

(51) International classification	:G06F0030200000, G01R0033483000, E21B0049080000, G10L0025510000, E21B0043250000	(71) Name of Applicant : 1)BP EXPLORATION OPERATING COMPANY LIMITED Address of Applicant :Chertsey Road Sunbury on Thames Middlesex TW16 7BP U.K.
(31) Priority Document No	:PCT/EP2018/082985	(72) Name of Inventor :
(32) Priority Date	:29/11/2018	1)THIRUVENKATANATHAN, Pradyumna
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2019/082808	
Filing Date	:27/11/2019	
(87) International Publication No	:WO 2020/109426	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method of identifying inflow locations along a wellbore comprises obtaining an acoustic signal from a sensor within the wellbore, determining a plurality of frequency domain features from the acoustic signal, and identifying, using a plurality of fluid flow models, a presence of at least one of a gas phase inflow, an aqueous phase inflow, or a hydrocarbon liquid phase inflow at one or more fluid flow locations. The acoustic signal comprises acoustic samples across a portion of a depth of the wellbore, and the plurality of frequency domain features are obtained across a plurality of depth intervals within the portion of the depth of the wellbore. Each fluid flow model of the plurality of fluid inflow models uses one or more frequency domain features of the plurality of the frequency domain features, and at least two of the plurality of fluid flow models are different.

No. of Pages : 62 No. of Claims : 51

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023504 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SHAVING HEAD WITH INCREASED INTER BLADE SPAN

(51) International classification	:B26B0021400000, B26B0021560000, B26B0021220000, B26B0017000000, F03D0001060000	(71) Name of Applicant : 1)BIC VIOLEX S.A. Address of Applicant :58, Agiou Athanasiou St. 145 69 Anoixi Greece
(31) Priority Document No	:19154897.3	(72) Name of Inventor : 1)BOZIKIS, Ioannis
(32) Priority Date	:31/01/2019	
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2020/052164	
Filing Date	:29/01/2020	
(87) International Publication No	:WO 2020/157130	
(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 razor cartridge (2) comprising a first blade support (120) and a second blade support (120). Each of the first and second blade supports (120) include a flat portion (120b) having an inner surface (120b) which faces away from a shaving surface S. A first blade (140) is attached to the inner surface (120b) of the flat portion (120b) of the first blade support (120), the first blade (140) includes a first cutting edge (140c). A second blade (140) attached to the inner surface (120b) of the flat portion (120b) of the second blade support (120), the second blade (140) includes a second cutting edge (140c). A distance (A) between the first and second cutting edges (140c) is within a range of 1,6 mm to 2,2 mm.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023508 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MOLD COMPOSITION COMPRISING A SUGAR COMPONENT

(51) International classification	:B29C0045000000, C04B0040000000, B29C0041040000, G03F0007000000, A23G0001540000	(71) Name of Applicant : 1)PROIONIC GMBH Address of Applicant :Parkring 18 8074 Grambach Austria
(31) Priority Document No	:18214602.7	(72) Name of Inventor : 1)KALB, Roland
(32) Priority Date	:20/12/2018	
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2019/086692	
Filing Date	:20/12/2019	
(87) International Publication No	:WO 2020/127980	
(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 mold composition comprising at least one sugar component in a weight proportion of at least 20% in relation to the weight of the mold composition and at least one loading material, and to a mold for a molding method, the mold being a compact three-dimensional structure which consists of the mold composition. The invention also relates to a method for molding a workpiece by means of said mold.

No. of Pages : 34 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023531 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ELASTIC NONWOVEN FABRIC SHEETS AND METHODS FOR MAKING THE SAME

(51) International classification	:D04H0003160000, B32B0005020000, D04H0003140000, B32B0005260000, D04H0001560000	(71) Name of Applicant : 1)FIBERTEX PERSONAL CARE A/S Address of Applicant :Svendborgvej 2 9220 Aalborg Ost Denmark
(31) Priority Document No	:19163084.7	(72) Name of Inventor :
(32) Priority Date	:15/03/2019	1)HANSEN, Morten Rise
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2020/055002	
Filing Date	:26/02/2020	
(87) International Publication No	:WO 2020/187540	
(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 nonwoven fabric sheet comprising at least two adjacent layers of spunbonded nonwoven webs, one of which is an elastic layer in the form of a spunbonded nonwoven web comprising elastic fibers formed from a thermoplastic elastomer polymer material. The invention further relates to a method of manufacturing such nonwoven and the use of such nonwoven.

No. of Pages : 28 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023534 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD AND DEVICE FOR COURSEWARE RECORDING AND PLAYBACK, SMART INTERACTIVE TABLET, AND STORAGE MEDIUM

(51) International classification	:G06F0003010000, G06F0011340000, G09B0005040000, G06F0003160000, H04N0005760000	(71) Name of Applicant : 1)GUANGZHOU SHIYUAN ELECTRONICS CO., LTD. Address of Applicant :No.6, 4th Yunpu Road, Huangpu District Guangzhou, Guangdong 510530 China 2)GUANGZHOU SHIRUI ELECTRONICS CO. LTD.
(31) Priority Document No	:201811440867.3	(72) Name of Inventor :
(32) Priority Date	:29/11/2018	1)LING, Jianghua
(33) Name of priority country	:China	
(86) International Application No	:PCT/CN2019/120273	
Filing Date	:22/11/2019	
(87) International Publication No	:WO 2020/108402	
(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 method and device for courseware recording and playback, a smart interactive tablet, and a storage medium. The method for recording comprises: recording a page identifier of a courseware, user audio data, and user behavior data during a recording process; when an instruction used for triggering the disabling of a courseware recording function is received, mapping to the timeline of the recording process the moment at which the recorded courseware page identifier, user audio data and user behavior data are recorded, and associatively storing the courseware, the user audio data, and the user behavior data on the basis of the timeline to generate a recorded file of the recording process. A movable element is presented in a page of the courseware. The user behavior data comprises a user instruction, the starting time and persistence duration of the user instruction, an identifier of an element to which the user instruction points, and a data flow generated when the user instruction is in action. The user instruction comprises a drag instruction triggering the movable element to move. As such, costs for recording and playing back the courseware are reduced.

No. of Pages : 32 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023550 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR DETECTING AND PREVENTING LEAKS

(51) International classification	:F16H0061000000, B65D0090501000, F04D0027020000, E21B0043000000, F02D0019020000	(71) Name of Applicant : 1)OMV REFINING & MARKETING GMBH Address of Applicant :Trabrennstraße 6-8 1020 Wien Austria 2)INWA AG
(31) Priority Document No	:18214779.3	(72) Name of Inventor :
(32) Priority Date	:20/12/2018	1)HOFFER, Ronald Jürgen
(33) Name of priority country	:EPO	2)PFAFFL, Thomas
(86) International Application No	:PCT/EP2019/086638	3)STEINBRUGGER, Christian
Filing Date	:20/12/2019	4)HÖRBURGER, Jürgen
(87) International Publication No	:WO 2020/127947	5)KAHR, Robert
(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 detecting and preventing leaks of a double-walled container (2) for the storage of poisonous, caustic, irritant and/or combustible media, wherein the double-walled container (2) has an inner wall (3) and an outer wall (4), wherein a cavity (5) is formed between the inner wall (3) and the outer wall (4), wherein a positive pressure is generated in the cavity (5), wherein, in the event of a leak of the inner wall (3), a gas is fed to the cavity (5) in order to maintain a positive pressure in the cavity (5), and to a corresponding container system (1) having an open-loop/closed-loop control device for the open-loop/closed-loop control of a gas throughflow in a line (8) and having a pressure measuring unit (11) for measuring the pressure in the cavity (5) of the double-walled container (2).

No. of Pages : 13 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023557 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DATA SCRAMBLING METHOD AND DEVICE AND COMMUNICATION APPARATUS

(51) International classification	:H04L0025030000, H04W0052120000, H04B0017382000, H04N0021234700, H04N0007167000	(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	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SHI, Zhihua
(33) Name of priority country	:NA	2)CHEN, Wenhong
(86) International Application No	:PCT/CN2018/113538	3)FANG, Yun
Filing Date	:01/11/2018	4)ZHANG, Zhi
(87) International Publication No	:WO 2020/087475	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided in embodiments of the present invention are a data scrambling method and device and a communication apparatus. The data scrambling method comprises: a first apparatus determining scrambling information corresponding to multiple physical channels, wherein different physical channels correspond to different scrambling information; and the first apparatus performing descrambling of a received physical channel and/or scrambling of a physical channel to be transmitted on the basis of the scrambling information.

No. of Pages : 32 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023558 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD AND DEVICE FOR TRANSMITTING SSB IN AN UNLICENSED SPECTRUM

(51) International classification	:H04W0074080000, H04W0016140000, H04W0072040000, H03D0001240000, H04W0074020000	(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	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)HE, Chuanfeng
(33) Name of priority country	:NA	
(86) International Application No	:PCT/CN2018/113791	
Filing Date	:02/11/2018	
(87) International Publication No	:WO 2020/087524	
(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 device for transmitting an SSB in an unlicensed spectrum, which may achieve the effective transmission of an SSB in an unlicensed spectrum. The method comprises: a network device determining that a first transmission opportunity (TXOP) on an unlicensed carrier comprises K SSB positions which may be used for transmitting SSBs, wherein K is less than an amount X of SSBs configured by the network device that are transmitted on the unlicensed carrier, and K and X are both positive integers; and the network device sending the K SSBs among the X SSBs on the K SSB positions respectively within the first TXOP.

No. of Pages : 23 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023559 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD AND DEVICE FOR MEASURING SIGNAL QUALITY PARAMETERS

(51) International classification	:H04W0036300000, H04W0024080000, H04W0052240000, H04B0017309000, H04W0052120000	(71) Name of Applicant : 1)VIVO MOBILE COMMUNICATION CO.,LTD. Address of Applicant :#283, BBK Road, Wusha, Chang'an Dongguan, Guangdong 523860 China
(31) Priority Document No	:201811303176.9	(72) Name of Inventor :
(32) Priority Date	:02/11/2018	1)YANG, Yu
(33) Name of priority country	:China	2)SUN, Peng
(86) International Application No	:PCT/CN2019/113590	
Filing Date	:28/10/2019	
(87) International Publication No	:WO 2020/088386	
(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 a method and a device for measuring signal quality parameters, said method comprising: receiving a first reference signal (RS) resource set for measuring a plurality of signal quality parameters; and measuring a signal parameter in a target signal quality parameter on the basis of at least one first RS resource, and measuring a first interference parameter in the target signal quality parameter on the basis of at least one second RS resource, the target signal quality parameter being any one of the plurality of signal quality parameters, the first RS resource being an RS resource corresponding to the target signal quality parameter in the first RS resource set, and the second RS resource being an RS resource in the first RS resource set other than the first RS resource.

No. of Pages : 39 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023581 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : APPARATUS AND METHOD OF DELIVERING SOLID CHEMICALS AND RETAINING SLUDGE IN MOLTEN SALT BATH

(51) International classification	:C21D0001460000, C03C0021000000, C21D0001607000, C23C0008500000, C23G0001320000	(71) Name of Applicant : 1)CORNING INCORPORATED Address of Applicant :1 Riverfront Plaza Corning, New York 14831 U.S.A.
(31) Priority Document No	:62/773538	(72) Name of Inventor :
(32) Priority Date	:30/11/2018	1)DAFIN, John Martin
(33) Name of priority country	:U.S.A.	2)DECKER, Jeffrey Alan
(86) International Application No	:PCT/US2019/061916	3)HILL, William Jason
Filing Date	:18/11/2019	4)JIN, Yuhui
(87) International Publication No	:WO 2020/112395	5)MCCANN, James Paul
(61) Patent of Addition to Application Number	:NA	6)MCCARTHY, Alan Scott
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods and apparatuses for delivering and retaining solid chemicals in molten salt baths are provided, the chemicals may serve to reduce the lithium poisoning level of the molten salt bath. Methods and apparatuses are also provided for retaining sludge in a molten salt bath, allowing for removal of the sludge from the molten salt bath.

No. of Pages : 11 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023582 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR PREPARING POROUS FLUOROPOLYMER FILMS

(51) International classification	:H01M0002160000, H01M0010052500, H01M0002140000, C08J0009280000, B05D0005080000	(71) Name of Applicant : 1)ARKEMA FRANCE Address of Applicant :420 rue d'Estienne d'Orves 92700 COLOMBES France
(31) Priority Document No	:1872142	(72) Name of Inventor :
(32) Priority Date	:30/11/2018	1)HIDALGO, Manuel
(33) Name of priority country	:France	2)LAJOUX, Aristide
(86) International Application No	:PCT/EP2019/082966	
Filing Date	:28/11/2019	
(87) International Publication No	:WO 2020/109503	
(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 preparing a porous film of a fluoropolymer, comprising the following steps: - providing an ink comprising the fluoropolymer and a vehicle comprising a solvent of the fluoropolymer and a non-solvent of the fluoropolymer, said solvent of the fluoropolymer and said non-solvent of the fluoropolymer being miscible with one another; - depositing the ink on a substrate; - evaporating the vehicle comprising the solvent and the non-solvent.

No. of Pages : 32 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023584 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : FUEL HOSE SUPPORTING STRUCTURE FOR SADDLE-TYPE VEHICLE

(51) International classification	:F02D0009100000, F02M0069040000, F02M0035160000, F02M0035100000, B62K0025280000	(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	:2018-227154	(72) Name of Inventor : 1)NAKAUCHI, Kota
(32) Priority Date	:04/12/2018	
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/043938	
Filing Date	:08/11/2019	
(87) International Publication No	:WO 2020/116091	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This fuel hose supporting structure allows reduction in the oscillation amount of a fuel hose in a saddle-type vehicle provided with a swing-type power unit of an upper link type. The fuel hose supporting structure is for a saddle-type vehicle 1 including a swing-type power unit 3 supported via a link member 8 by a vehicle body frame 2, an air intake passage member 6 being provided above the swing-type power unit, the link member being of an upper link type and being provided with a vehicle body-side pivot shaft 83 and a power unit-side connecting shaft 84. In the fuel hose supporting structure, a fuel hose 7 connected to a fuel injection valve 71 is routed so as to pass above the air intake passage member, and is provided with a fuel hose supporting member 75 that has a fixing part 75a fixed to the air intake passage member and a hose supporting part 75b supporting the fuel hose. The air intake passage member includes an air intake pipe 61 and a throttle body 62. The throttle body partially overlaps with the axial center X of the vehicle body-side pivot shaft at a vehicle front-rear direction position. The hose supporting part partially overlaps with the throttle body at a vehicle front-rear direction position.

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023586 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : INSECTICIDAL COMPOSITION AND PEST CONTROL METHOD

(51) International classification	:H01S0005340000, A61K0009060000, C11D0001830000, C01B0033120000, A61K0038130000	(71) Name of Applicant : 1)MITSUI CHEMICALS AGRO, INC. Address of Applicant :1-19-1, Nihonbashi, Chuo-ku, Tokyo 1030027 Japan
(31) Priority Document No	:2018-214095	(72) Name of Inventor :
(32) Priority Date	:14/11/2018	1)KIDA Jotaro
(33) Name of priority country	:Japan	2)HIGUCHI Mika
(86) International Application No	:PCT/JP2019/044564	3)SASAKURA Niiha
Filing Date	:13/11/2019	4)ISHIZAKI Shuji
(87) International Publication No	:WO 2020/100948	5)OBAYASHI Takashi
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The insecticidal composition of the present invention comprises (1) a diamide-based, insecticidally active ingredient, (2) a solvent having a relative permittivity (ϵ_r) of 5 or greater and a transition energy (ET(30)) of 38 kcal/mol or greater, (3) a nonionic surfactant, and (4) a non-polar solvent, the amount of which is less than 30 wt% of the whole composition.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023587 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : NOVEL AMORPHOUS ACTIVE PHARMACEUTICAL INGREDIENTS COMPRISING SUBSTANTIALLY AMORPHOUS MESOPOROUS MAGNESIUM CARBONATE

(51) International classification :A61K0009200000,
A61K0009140000,
A61K0009160000,
A61K0031418400,
A61K0031417800

(31) Priority Document No :1851383-8

(32) Priority Date :07/11/2018

(33) Name of priority country :Sweden

(86) International Application No :PCT/SE2019/051114
Filing Date :06/11/2019

(87) International Publication No :WO 2020/096513

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

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

(71)Name of Applicant :
1)DISRUPTIVE MATERIALS PHARMA AB
Address of Applicant :c/o Uppsala Science Park Dag
Hammar skjölds Väg 54B 751 83 Uppsala Sweden

(72)Name of Inventor :
1)FRYKSTRAND ÅNGSTRÖM, Sara
2)ARVÉN, Ottilia
3)LINDMARK, Tuulikki
4)ÅSBERG, Peter

(57) Abstract :

The present invention is directed to a solid and substantially amorphous active pharmaceutical ingredient, to an oral pharmaceutical formulation comprising said substantially amorphous active pharmaceutical ingredient, as well as to a method for the manufacture of the same. The invention is also directed to a particulate anhydrous and substantially amorphous mesoporous magnesium carbonate(MMC), to a method for the manufacture thereof, and the use of said particulate anhydrous and substantially amorphous mesoporous magnesium carbonate (MMC)to stabilize an active pharmaceutical ingredient (API).

No. of Pages : 62 No. of Claims : 63

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023588 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SUCTION-ATTRACTION DEVICE AND SUCTION DISK

(51) International classification	:B65H0003080000, B25J0015060000, G11B0007260000, A61C0013240000, B21D0026140000	(71) Name of Applicant : 1)NIPPON PAINT HOLDINGS CO., LTD. Address of Applicant :2-1-2, Oyodokita, Kita-ku, Osaka-shi, Osaka 5318511 Japan
(31) Priority Document No	:2018-225979	(72) Name of Inventor : 1)SAKAMOTO Hiroyuki
(32) Priority Date	:30/11/2018	
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/045314	
Filing Date	:19/11/2019	
(87) International Publication No	:WO 2020/110836	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are a suction-attraction device and a suction disk, which can provide suction-attraction force, the occurrence or the disappearance of which can be controlled by the formation of a magnetic field or the disappearance of the magnetic field. A suction-attraction device (1A) is provided with a suction disk (10) which is formed from an elastomer which can be deformed by magnetic force, a support section (20) which supports the suction disk (10) so that the suction disk (10) is deformable, and a suction disk deformation element (30) which deforms the elastomer by means of magnetic force.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023589 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : THIN MULTILAYER LAMINATE

(51) International classification :C03C0021000000,
C03C0003097000,
B32B0027280000,
G06F0003041000,
H04W0028220000
(31) Priority Document No :62/773560
(32) Priority Date :30/11/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/062520
Filing Date :21/11/2019
(87) International Publication No :WO 2020/112467
(61) 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)DEJNEKA, Matthew John
2)WALTER, Jonathan Earl

(57) Abstract :

Laminated glass-based articles are provided. The glass-based articles include at least a first glass-based layer, a second glass-based layer, and a polymer layer disposed between the first and second glass-based layers. At least one of the first and second glass-based layers has a thickness of less than or equal to 200 μm , and the polymer layer has a thickness of less than or equal to 100 μm . The polymer layer has an elastic modulus greater than or equal to 100 MPa at a strain rate of 1/s. Methods of producing the laminated glass-based articles are also provided.

No. of Pages : 19 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023604 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : D-PSICOSE CRYSTAL AND PREPARATION METHOD THEREFOR

(51) International classification	:C12P0019020000, C12P0019240000, C01F0017000000, A61K0031700400, C30B0029540000	(71) Name of Applicant : 1)CJ CHEILJEDANG CORPORATION Address of Applicant :330, Dongho-ro, Jung-gu, Seoul 04560 Republic of Korea
(31) Priority Document No	:10-2018-0152876	(72) Name of Inventor :
(32) Priority Date	:30/11/2018	1)PARK, Young Soo
(33) Name of priority country	:Republic of Korea	2)LEE, Joo Hang
(86) International Application No	:PCT/KR2019/016668	3)KIM, Seong Bo
Filing Date	:29/11/2019	4)PARK, Seung Won
(87) International Publication No	:WO 2020/111851	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present application relates to a method for preparing a D-psicose crystal comprising 98%(w/w) or more of D-psicose and 0.05%(w/w) or less of ethanol on the basis of 100%(w/w) of the entire crystal, the method comprising: a first step of mixing an organic solvent and a solution containing D-psicose; and a second step of injecting a seed into the mixture solution obtained in the first step, and then cooling same, thereby obtaining a maskette comprising a D-psicose crystal. Therefore, the present invention can improve the yield of D-psicose crystals from a D-psicose solution, and can prepare D-psicose crystals having no offensive taste/odor and having a sufficient size and an appropriate shape for mass production.

No. of Pages : 25 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023606 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ION EXCHANGEABLE, OPAQUE GAHNITE-SPINEL GLASS CERAMICS WITH HIGH HARDNESS AND MODULUS

(51) International classification :C03C0010000000,
H05K0005030000,
H05K0005000000,
C03C0021000000,
C03C0004180000

(31) Priority Document No :62/773682
(32) Priority Date :30/11/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/062519
Filing Date :21/11/2019
(87) International Publication No :WO 2020/112466
(61) 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

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14831 U.S.A.

(72)Name of Inventor :

1)BEALL, George Halsey

2)MITCHELL, Alexandra Lai Ching Kao Andrews

3)SMITH, Charlene Marie

(57) Abstract :

An opaque gahnite-spinel glass ceramic is provided. The glass ceramic includes a first crystal phase including $(Mg_xZn_{1-x})Al_2O_4$ where x is less than 1 and a second crystal phase includes at least one of tetragonal ZrO_2 , $MgTa_2O_6$, mullite, and cordierite. The glass ceramic has a Young's modulus greater than or equal to 90 GPa, and has a hardness greater than or equal to 7.5 GPa. The glass ceramic may be ion exchanged. Methods for producing the glass ceramic are also provided.

No. of Pages : 42 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023610 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : FLAME-RETARDANT MIXTURES, FLAME-RETARDING POLYMER COMPOSITIONS, CABLE EQUIPPED THEREWITH AND USE THEREOF

(51) International classification :C08K0005531300,
C08L0077060000,
H01B0003440000,
C08K0003320000,
C08L0085020000
(31) Priority Document No :10 2018 220 696.1
(32) Priority Date :30/11/2018
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2019/082913
Filing Date :28/11/2019
(87) International Publication No :WO 2020/109469
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)CLARIANT INTERNATIONAL LTD

Address of Applicant :Rothausstrasse 61 4132 Muttenz
Switzerland

(72)Name of Inventor :

1)BAUER, Harald

2)HOEROLD, Sebastian

3)NASS, Bernd

4)SCHLOSSER, Elke

5)SICKEN, Martin

(57) Abstract :

The invention relates to flame-retardant mixtures containing: a) salt of a phosphinic acid of the formula (I), wherein R1 and R2 mean, independently of each other, alkyl-, cycloalkyl-, aryl- or aralkyl, which are substituted as applicable, M is an m-valent cation, and m means 1 to 4, b) salt of a phosphinic acid of the formula (II), which differs from component a), wherein R3 means substituted, as applicable, alkyl-, cycloalkyl-, cycloalkyl-alkyl, aryl- or aralkyl, preferably with alkyl radicals as substituents, R4 is alkyl having an even number of carbon atoms, provided that, in the case that R1 and/or R2 are alkyl, R4 has double, triple or quadruple the number of carbon atoms of R1 or R2, M is an n-valent cation and n means 1 to 4, c) organylphosphonate, d) phosphite, e) as applicable, a representative selected from the group consisting of triazine complex, polyphosphate, hypophosphite, nitrogenous diphosphate, organophosphate, phosphazene and/or polyphosphonate, f) as applicable, a representative selected from the group consisting of metal hydroxide, metal carbonate, metal borate, zinc stannate and/or intumescence additive, and g) as applicable, pigment, wherein at least one of components e) and/or f) must be present in the mixture. The mixtures can use thermoplastic and elastomeric polymers in order to produce flame-retardant polymer compositions, which are exceptionally suitable for producing cable sheathing or cable insulation.

No. of Pages : 56 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023611 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DEVICE FOR DETERMINING THE THICKNESS OF AN OBJECT

(51) International classification	:G01B0011060000, G01B0017020000, G01B0007060000, B21B0038040000, G01B0021080000	(71) Name of Applicant : 1)MICRO-EPSILON MESSTECHNIK GMBH & CO. KG Address of Applicant :Königbacher Straße 15 94496 Ortenburg Germany
(31) Priority Document No	:10 2018 222 678.4	(72) Name of Inventor : 1)KIRSCHNER, Gerhard
(32) Priority Date	:20/12/2018	
(33) Name of priority country	:Germany	
(86) International Application No	:PCT/DE2019/200124	
Filing Date	:06/11/2019	
(87) International Publication No	:WO 2020/125873	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

With regard to a reliable measurement of the thickness of an object (4) even in an environment with high temperatures, a device (1) is provided for determining the thickness of an object (4), more particularly a strip-like or flat object (4), preferably for use in a hot rolling process, having a frame (2) with at least one leg (5, 6), the at least one leg (5, 6) having a sensor (8a, 8b) for the contactless measuring of the distance to the object (4), which device is characterised in that the at least one leg (5, 6) has a structure consisting of a plurality of layers in order to reduce the temperature effect on the frame (2) and/or on the sensor (8a, 8b).

No. of Pages : 13 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023612 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : REMOTE MANAGEMENT DEVICE AND REMOTE MANAGEMENT SYSTEM

(51) International classification :H04L0012240000,
G05B0015020000,
H04M0003300000,
H04W0004080000,
G05B0019042000

(31) Priority Document No :2018-205891

(32) Priority Date :31/10/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/042038
Filing Date :25/10/2019

(87) International Publication No :WO 2020/090685

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

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

(71)Name of Applicant :

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Nakazaki-Nishi 2-Chome, Kita-ku, Osaka-shi, Osaka 5308323
Japan

(72)Name of Inventor :

1)NOGAMI, Daisuke

(57) Abstract :

Provided are a remote management device and remote management system which makes it possible to simplify initial configuration work with respect to devices installed in customer properties. This remote management system (100) remotely manages one or a plurality of devices (20). This remote management system (100) comprises: control terminals (30) connected to the devices (20); and a management device (40) connected to the control terminals (30) via a network (50). After establishing communications with the control terminals (30), the management device (40) identifies properties (10) at which the devices (20) are installed, on the basis of information received from the control terminals (30). The control terminals (30) identify the types of the devices (20) on the basis of information received from the devices (20).

No. of Pages : 30 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023613 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : CONDUCTIVE POLYMER ELECTROLYTE FOR BATTERIES

(51) International classification :H01M0002160000,
H01M0010056500,
H01M0010052500,
H01M0010052000,
H01M0010056200

(31) Priority Document No :1872144

(32) Priority Date :30/11/2018

(33) Name of priority country :France

(86) International Application No :PCT/EP2019/082968
Filing Date :28/11/2019

(87) International Publication No :WO 2020/109505

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

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

(71)Name of Applicant :

1)ARKEMA FRANCE

Address of Applicant :420 rue d'Estienne d'Orves 92700

COLOMBES France

(72)Name of Inventor :

1)HIDALGO, Manuel

2)PLEE, Dominique

(57) Abstract :

The invention relates to a solid polymer electrolyte in the form of an organic-organic composite material, for use in a lithium-polymer battery. The invention further relates to a process for producing such an electrolyte. This electrolyte is particularly intended for the production of a lithium-polymer battery, of a so-called all-solid battery, and particularly for the ion-conducting separator. The invention also relates to a battery separator comprising such a polymer electrolyte, to processes for producing same, and to the battery comprising such an electrolyte.

No. of Pages : 18 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023632 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : STABLE GLUCOCORTICOID FORMULATION

(51) International classification	:A61K0009000000, A61K0047120000, A61K0047260000, A61K0047020000, A61K0031573000	(71) Name of Applicant : 1)AVM BIOTECHNOLOGY, LLC Address of Applicant :1749 Dexter Avenue Seattle, Washington 98109 U.S.A.
(31) Priority Document No	:62/767448	(72) Name of Inventor :
(32) Priority Date	:14/11/2018	1)DEISHER, Theresa
(33) Name of priority country	:U.S.A.	2)JARZYNA, Adalbert
(86) International Application No	:PCT/US2019/061363	3)DUNCAN, Iain
Filing Date	:14/11/2019	
(87) International Publication No	:WO 2020/102474	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention relates to aqueous pharmaceutical formulations comprising a glucocorticoid. These have been formulated to contain high concentrations of glucocorticoid and reduced levels of preservatives.

No. of Pages : 142 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023634 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR MANUFACTURING BATTERIES AND BATTERY OBTAINED BY SAID METHOD

(51) International classification	:H01M0004620000, H01M0010052500, H01M0004587000, H01M0004133000, H01M0004660000	(71) Name of Applicant : 1)I-TEN Address of Applicant :12 chemin du Jubin 69570 DARDILLY France
(31) Priority Document No	:1874096	(72) Name of Inventor :
(32) Priority Date	:24/12/2018	1)GABEN, Fabien
(33) Name of priority country	:France	2)CANTIN, Frédéric
(86) International Application No	:PCT/FR2019/000220	
Filing Date	:24/12/2019	
(87) International Publication No	:WO 2020/136313	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Battery comprising at least one anode and at least one cathode, arranged on top of one another in an alternating manner, the battery comprising lateral edges comprising an anode connection area and a cathode connection area, preferably laterally opposite the anode connection area, and longitudinal edges, in which the anode comprises a current collector substrate, - at least one anode layer, and - optionally, a layer of an electrolyte material, and the cathode comprises: - a current collector substrate, at least one cathode layer, and - optionally a layer of an electrolyte material such that the battery comprises successively at least one anode layer, at least one layer of an electrolyte material and at least one cathode layer, characterized in that each anode and each cathode comprises a respective main body, separated from a respective secondary body by a space that is free of any electrode, electrolyte and/or current collector substrate material, the free space joining or extending between the opposite longitudinal edges of the battery.

No. of Pages : 40 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023639 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MATERIALS AND METHODS FOR TREATING CANCER

(51) International classification	:A61K0035170000, C07K0016280000, C07K0014725000, A61P0035000000, C07K0014705000	(71) Name of Applicant : 1)HUMANIGEN, INC. Address of Applicant :533 Airport Boulevard, Suite 400 Burlingame, California 94010 U.S.A. 2)MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH
(31) Priority Document No	:62/753485	(72) Name of Inventor :
(32) Priority Date	:31/10/2018	1)DURRANT, Cameron
(33) Name of priority country	:U.S.A.	2)CHAPPELL, Dale
(86) International Application No	:PCT/US2019/059275	3)KENDERIAN, Saad J
Filing Date	:31/10/2019	4)STERNER, Rosalie M.
(87) International Publication No	:WO 2020/092850	5)COX, Michelle J.
(61) Patent of Addition to Application Number	:NA	6)SAKEMURA, Reona
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This document provides methods and materials involved in treating cancer. For example, chimeric antigen receptor T cells having reduced levels of GM-CSF are provided. Also provided as methods for making and using chimeric antigen receptor T cells having reduced levels of GM-CSF

No. of Pages : 53 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023640 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ADDITIVES FOR GEOPOLYMER CEMENTS

(51) International classification	:C04B0028000000, C04B0028020000, C04B0040000000, A61K0008365000, C09K0008620000	(71) Name of Applicant : 1)CEMALT LLC Address of Applicant :221 Gibbon Street Alexandria, VA 22314 U.S.A.
(31) Priority Document No	:62/755431	(72) Name of Inventor :
(32) Priority Date	:03/11/2018	1)KINNEY, Frederick, D.
(33) Name of priority country	:U.S.A.	2)PATEL, Rajeshkumar, D.
(86) International Application No	:PCT/US2019/059303	
Filing Date	:01/11/2019	
(87) International Publication No	:WO 2020/092858	
(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 is directed to chemical additives for geopolymer cements that can improve the rheological properties of geopolymer cements. These chemical additives include sulfates and selenates of a specific formula as well as hydroxycarboxylic acid salts of Li, Na, and K including but not limited to glycolic, lactic, citric, mandelic tartaric, and malic acids. The chemical additives for geopolymer cements disclosed herein can facilitate the uniform mixing, increase the time mixtures can be transported, and improve the ability to place and finish concrete and mortars made with the geopolymer cements.

No. of Pages : 20 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023648 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR MODULATED MULTL-SPECTRAL MAGNETIC STIMULATION

(51) International classification :A61N0002000000,
A61N0002020000,
A61B0005000000,
A61B0005047600,
A61N0001050000

(31) Priority Document No :62/752507
(32) Priority Date :30/10/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/058970
Filing Date :30/10/2019
(87) International Publication No :WO 2020/092653
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)JOHNSON, Bruce, C.
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2)PRESTON, Dan, Alan
3)ROUND RIVER RESEARCH CORPORATION

(72)Name of Inventor :
1)COHEN, Ellen
2)COHEN, Ellen
3)PRESTON, Dan, Alan
4)PALMQUIST, Jennifer
5)COHEN, Daniel, E.
6)COHEN, David

(57) Abstract :

It is well understood in the medical industry that medical disorders can manifest as serious problems for the affected subjects, their families, and society. Today, psychiatrists, neurologists and other physicians treat these disorders with a variety of medications, many of which have significant negative side effects. The teachings provided herein are directed to a novel system and methods for treating certain neurological, psychological, psychiatric and medical disorders by delivering a magnetic stimulation to a subject's neural and perineural system using either a static or electromagnetic field to generate a modulated variable power multi -spectral magnetic stimulation on three axis; the modulated stimulation using methods that have predictable, controlled, modifiable, and repeatable characteristics.

No. of Pages : 129 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023649 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR IMAGING AND ILLUMINATION FOR CELL CONFLUENCE MEASUREMENT

(51) International classification :C12M0001000000,
C12M0001340000,
C12M0003000000,
G02B0021000000,
G06K0009000000

(31) Priority Document No :62/773899
(32) Priority Date :30/11/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/063712
Filing Date :27/11/2019
(87) International Publication No :WO 2020/113076
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

1)COBB, Joshua Monroe

2)MARTIN, Gregory Roger

3)RACZKOWSKI, Robert Raymond

4)SANSON, Mark Christian

5)SCHREIBER, Horst

6)UPTON, Todd Michael

(57) Abstract :

A cell monitoring plate comprises a flat surface on which multiple cell culturing vessels may be stacked. The flats surface has multiple optical imaging systems embedded therein to fully image a cell culture vessels stacked on the plate. Each one of the multiple optical imaging systems provides both illumination and imaging through a single aperture in the surface of the monitoring plate.

No. of Pages : 28 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023650 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : BLACK BETA-SPODUMENE LITHIUM SILICATE GLASS CERAMICS

(51) International classification	:C03C0010000000, H05K0005030000, H05K0005000000, C03C0021000000, C03C0004180000	(71) Name of Applicant : 1)CORNING INCORPORATED Address of Applicant :1 Riverfront Plaza Corning, New York 14831 U.S.A.
(31) Priority Document No	:62/773590	(72) Name of Inventor :
(32) Priority Date	:30/11/2018	1)CLICK, Carol Ann
(33) Name of priority country	:U.S.A.	2)FU, Qiang
(86) International Application No	:PCT/US2019/062521	3)HUBERT, Mathieu Gerard Jacques
Filing Date	:21/11/2019	4)SMITH, Charlene Marie
(87) International Publication No	:WO 2020/112468	5)WHITTIER, Alana Marie
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A black β -spodumene lithium disilicate glass ceramic is provided. The glass ceramic includes at least one of magnetite, β -quartz, cristobalite, and lithium phosphate as a minor crystal phase. The glass ceramic is characterized by the color coordinates: L: 15.0 to 35.0, a: -3.0 to 3.0, and b: -5.0 to 5.0. The glass ceramic may be ion exchanged. Methods for producing the glass ceramic are also provided.

No. of Pages : 38 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023651 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PUMP GROUP COMPRISING TWO COMMAND MODULES

(51) International classification	:F04D0013060000, B63H0005125000, B60Q0001260000, F01P0005040000, H02K0007140000	(71) Name of Applicant : 1)INDUSTRIE SALERI ITALO S.P.A. Address of Applicant :Via Ruca, 406 - Fraz. San Sebastiano 25065 Lumezzane, Brescia Italy
(31) Priority Document No	:102018000010971	(72) Name of Inventor :
(32) Priority Date	:11/12/2018	1)SURACE, Alfonso
(33) Name of priority country	:Italy	2)PEDERSOLI, Marco
(86) International Application No	:PCT/IB2019/059747	3)CORNACCHIA, Simone
Filing Date	:13/11/2019	
(87) International Publication No	:WO 2020/121083	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention is a pump group (1) of a cooling system of a vehicle, preferably for cooling the engine group of the vehicle. The pump group (1) has a main axis (X-X) and comprises an axial flow stator (2) which produces an electromagnetic action in a direction parallel to the main axis X-X. Moreover, the pump group (1) comprises two command modules (3) positioned at the two opposite axial ends of the stator 2. Each command module (3) comprises an impeller (4), an impeller shaft (5) which extends along the main axis (X- X) and comprises an impeller end (51) on which the impeller (4) is integrally connected and a control portion (52) adapted to receive a rotational control action and a rotor (6) integrally connected to said control portion (52) controllable in rotation by the action of the stator (2).

No. of Pages : 12 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023657 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MANUFACTURING METHOD FOR NON-ORIENTED MAGNETIC STEEL SHEET

(51) International classification	:C22C0038000000, C22C0038060000, C22C0038040000, C22C0038020000, C21D0008120000	(71) Name of Applicant : 1)JFE STEEL CORPORATION Address of Applicant :2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 1000011 Japan
(31) Priority Document No	:2018-220268	(72) Name of Inventor :
(32) Priority Date	:26/11/2018	1)OKUBO Tomoyuki
(33) Name of priority country	:Japan	2)UESAKA Masanori
(86) International Application No	:PCT/JP2019/046005	3)ZAIZEN Yoshiaki
Filing Date	:25/11/2019	4)ODA Yoshihiko
(87) International Publication No	:WO 2020/111006	
(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 makes it possible to stably improve a magnetic flux density by utilizing induction heating and radiation heating at a time of finish annealing for a non-oriented magnetic steel sheet. Provided is a manufacturing method for a non-oriented magnetic steel sheet, in which a slab having an adjusted predetermined component composition is hot-rolled, a hot-rolled sheet annealing is performed or not performed, cold rolling is performed one time, or cold rolling is performed two or more times with intermediate annealing performed therebetween, and then finish annealing is performed. In the manufacturing method, a recrystallization rate of a material before final cold rolling is set to be less than 80%, and {100}<011> intensity in a 1/4 layer of the material is set to be equal to or less than 8. In the finish annealing, an average heating velocity at 600 to 720°C is set to be equal to or more than 50°C/s, and an average heating velocity at 720 to 760°C is set to be equal to or more than 5°C/s.

No. of Pages : 21 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023676 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : LIGHT EMITTING ELEMENT

(51) International classification	:H01L0027320000, H01L0051500000, H01L0051520000, F21V0019000000, H01L0033500000	(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	:62/754721	(72) Name of Inventor :
(32) Priority Date	:02/11/2018	1)CHAE, Jong Hyeon
(33) Name of priority country	:U.S.A.	2)SHIN, Chan Seob
(86) International Application No	:PCT/KR2019/014688	3)LEE, Seom Geun
Filing Date	:01/11/2019	4)LEE, Ho Joon
(87) International Publication No	:WO 2020/091495	5)JANG, Seong Kyu
(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 light emitting element. The light emitting device comprises: a first light emitting unit having a first area; a second light emitting unit having a second area; and a third light emitting unit having a third area, wherein the first light emitting unit is coplanar with the second light emitting unit, and the third light emitting unit is disposed over the first and second light emitting units, and the third area is larger than each of the first and second areas.

No. of Pages : 60 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023680 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : COMPOUNDS FOR USE AS IRON (III) MRI CONTRAST AGENTS CONTAINING ANIONIC PENDENTS AND ANCILLARY GROUPS

(51) International classification	:C23C0016360000, A61K0049100000, C07D0498180000, C07D0255020000, C07K0005083000	(71) Name of Applicant : 1)THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK Address of Applicant :Technology Transfer, University at Buffalo UB Commons, 520 Lee Entrance, Suite 109 Buffalo, NY 14228-2567 U.S.A.
(31) Priority Document No	:62/768823	(72) Name of Inventor :
(32) Priority Date	:16/11/2018	1)MORROW, Janet, R.
(33) Name of priority country	:U.S.A.	2)LIN, Zuiru
(86) International Application No	:PCT/US2019/062077	3)ASIK, Didar
Filing Date	:18/11/2019	4)SNYDER, Eric, M.
(87) International Publication No	:WO 2020/102820	5)KRAS, Elizabeth, A.
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Macrocyclic complexes and macrocyclic compounds. The macrocyclic complexes or macrocyclic compounds have a TACN moiety with one or more amine group(s) or a O- or S- substituted TACN moiety. The macrocyclic complexes have a high-spin Fe(III) atom coordinated to the TACN moiety. The macrocyclic complexes can be used in imaging methods.

No. of Pages : 62 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023692 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DATA TRANSMISSION METHOD AND DEVICE

(51) International classification	:H04W0072040000, H04L0001180000, H04L0029060000, H04L0001080000, H04W0028040000	(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	:201811483589.X	(72) Name of Inventor :
(32) Priority Date	:05/12/2018	1)FAN, Bo
(33) Name of priority country	:China	2)TANG, Xiaoyong
(86) International Application No	:PCT/CN2019/123174	
Filing Date	:05/12/2019	
(87) International Publication No	:WO 2020/114441	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A data transmission method and apparatus, which are used to save DCI resources, and which improve the performance of a cell data transmission. The data transmission method comprises: a network device determining first information, the first information being used to indicate transmission parameters for the repeated transmission of data to be transmitted; the network device sending the first information to a terminal device; and according to the first information, the network device repeatedly sending to the terminal device the data to be transmitted.

No. of Pages : 61 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023711 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PROCESS FOR FORMING A LAMINATE

(51) International classification	:C08G0018760000, C08G0018500000, B32B0015080000, C08G0018480000, C08G0018660000
(31) Priority Document No	:62/772187
(32) Priority Date	:28/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/063617
Filing Date	:27/11/2019
(87) International Publication No	:WO 2020/113008
(61) 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)XIE, Rui

2)WU, Jie

(57) Abstract :

The present disclosure provides a process for forming a laminate. The process includes (A) uniformly applying an isocyanate component to a first substrate, the isocyanate component containing an isocyanate compound; (B) uniformly applying an isocyanate-reactive component to a second substrate, the isocyanate-reactive component containing an amine-terminated compound; (C) bringing the first substrate and the second substrate together, thereby mixing and reacting the isocyanate component and the isocyanate-reactive component to form an adhesive composition between the first substrate and the second substrate; (D) curing the adhesive composition to bond the first substrate and the second substrate; and (E) forming the laminate.

No. of Pages : 34 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023715 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ETHYLENE-BASED POLYMER COMPOSITION WITH BRANCHING AND PROCESS FOR PRODUCING THE SAME

(51) International classification	:C08L0023080000, C08F0002010000, C08G0018320000, C08K0005140000, C08L0023060000	(71) Name of Applicant : 1)DOW GLOBAL TECHNOLOGIES LLC Address of Applicant :2040 Dow Center Midland, Michigan 48674 U.S.A.
(31) Priority Document No	:62/774002	(72) Name of Inventor :
(32) Priority Date	:30/11/2018	1)BROWN, Hayley A.
(33) Name of priority country	:U.S.A.	2)PEREZ, Carmelo Declet
(86) International Application No	:PCT/US2019/063406	3)OSBY, John O.
Filing Date	:26/11/2019	4)EWART, Sean W.
(87) International Publication No	:WO 2020/112873	5)MUNJAL, Sarat
(61) Patent of Addition to Application Number	:NA	6)EDDY, Christopher R.
Filing Date	:NA	7)DEMIRORS, Mehmet
(62) Divisional to Application Number	:NA	8)MENDENHALL, Jonathan D.
Filing Date	:NA	9)KONSTANTINOV, Ivan A.
		10)KRASOVSKIY, Arkady L.

(57) Abstract :

The present disclosure provides a polymer composition. In an embodiment, an ethylene-based polymer composition is provided and is formed by high pressure (greater than or equal to 100 MPa), free-radical polymerization, by reacting: ethylene monomer and a mixture of hydrocarbon-based molecules, with each hydrocarbon-based molecule comprising three or more terminal alkene groups.

No. of Pages : 45 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023716 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : NON-GRAIN COMPOSITIONS COMPRISING THERMALLY INHIBITED AND/OR HEAT MOISTURE TREATED WAXY TAPIOCA

(51) International classification	:A23L0003100000, A23L0029212000, A23C0009154000, A23L0029219000, A23C0013120000	(71) Name of Applicant : 1)CARGILL, INCORPORATED Address of Applicant :15407 McGinty Road West Wayzata, Minnesota 55391 U.S.A.
(31) Priority Document No	:62/773526	(72) Name of Inventor :
(32) Priority Date	:30/11/2018	1)PURL, Joseph
(33) Name of priority country	:U.S.A.	2)VAMADEVAN, Varatharajan
(86) International Application No	:PCT/US2019/061635	
Filing Date	:15/11/2019	
(87) International Publication No	:WO 2020/112385	
(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 non-grain composition, comprising at least a thermally inhibited or HMT waxy tapioca starch having a post-retort viscosity of less than 1500 centipoise. Such composition can be used for retort food applications; shelf-stable, thermally processed food applications; canned food applications; and/or aseptic packing and ultra-heat treated process food applications.

No. of Pages : 8 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023717 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : HIGH-PURITY STEVIOL GLYCOSIDES

(51) International classification	:A23L0027300000, C07H0015256000, C12P0019560000, A23L0002600000, C12N0015810000	(71) Name of Applicant : 1)PURECIRCLE USA INC. Address of Applicant :5 Westbrook Corporate Center Westchester, IL 60154 U.S.A.
(31) Priority Document No	:62/771937	(72) Name of Inventor :
(32) Priority Date	:27/11/2018	1)MARKOSYAN, Avetik
(33) Name of priority country	:U.S.A.	2)CHOW, Siew Yin
(86) International Application No	:PCT/US2019/063543	3)NIZAM BIN NAWI, Khairul
Filing Date	:27/11/2019	4)CHKHAN, Kristina
(87) International Publication No	:WO 2020/112957	5)AFZAAL BIN HASIM, Mohamad
(61) Patent of Addition to Application Number	:NA	6)RAMANDACH, Saravanan, A/L
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods of preparing highly purified steviol glycosides, particularly steviolmonoside, steviolmonoside A, steviolbioside, steviolbioside D, rubusoside, steviolbioside A, steviolbioside B, rebaudioside B, stevioside, rebaudioside G, stevioside A, stevioside B, stevioside C, rebaudioside A, rebaudioside E, rebaudioside E2, rebaudioside E4, rebaudioside E6, rebaudioside E3, rebaudioside D, rebaudioside I, rebaudioside AM, rebaudioside D7, rebaudioside M, rebaudioside M4, rebaudioside 1a, rebaudioside 1b, rebaudioside 1c, rebaudioside 1d, rebaudioside 1e, rebaudioside 1f rebaudioside 1g, rebaudioside 1h, rebaudioside 1i, rebaudioside 1j, rebaudioside 1k, rebaudioside 1l, rebaudioside 1m, rebaudioside 1n, rebaudioside 2a and/or SvG7 are described. The methods include utilizing enzyme preparations and recombinant microorganisms for converting various starting compositions to target steviol glycosides. The highly purified steviol glycosides are useful as non-caloric sweetener, flavor enhancer, sweetness enhancer, and foaming suppressor in edible and chewable compositions such as any beverages, confectioneries, bakery products, cookies, and chewing gums.

No. of Pages : 94 No. of Claims : 17

(54) Title of the invention : PANDA POLARIZATION MAINTAINING OPTICAL FIBER

(51) International classification	:G02B0006036000, G02B0006028000, G02B0006024000, C03B0037012000, G02B0006020000	(71)Name of Applicant : 1)FIBERHOME TELECOMMUNICATION TECHNOLOGIES CO., LTD Address of Applicant :No. 6 High-Tech 4 Road, East Lake High-Tech Zone Wuhan, Hubei 430000 China 2)RUIGUANG TELECOMMUNICATION TECHNOLOGIES CO., LTD
(31) Priority Document No	:201910507961.4	(72)Name of Inventor :
(32) Priority Date	:12/06/2019	1)LUO, Wenyong
(33) Name of priority country	:China	2)CHEN, Baoping
(86) International Application No	:PCT/CN2019/124883	3)KE, Yili
Filing Date	:12/12/2019	4)DU, Cheng
(87) International Publication No	:WO 2020/248549	5)ZHANG, Tao
(61) Patent of Addition to Application Number	:NA	6)LI, Wei
Filing Date	:NA	7)SHAO, Shuai
(62) Divisional to Application Number	:NA	8)ZHU, Qiao
Filing Date	:NA	9)ZENG, Fanqiu

(57) Abstract :

Disclosed is a PANDA polarization maintaining optical fiber, comprising a core layer (1) and quartz cladding (2), wherein two stress regions (3), which are centrosymmetric along the core layer (1), are provided in the quartz cladding (2), and transition annular regions (4), which are concentric with the stress regions (3), are provided outside the stress regions (3); the core layer (1) comprises a germanium-doped core layer (10) and a fluorine-doped core layer (11) successively arranged from the inside to the outside; the germanium-doped core layer (10) comprises a flat germanium-doped layer (100) and a gradient germanium-doped layer (101) successively arranged from the inside to the outside; the refractive index profile of the gradient germanium-doped layer (101) is of a parabolic shape, and the refractive index of the gradient germanium-doped layer (101) gradually decreases in a direction away from the flat germanium-doped layer (100); the fluorine-doped core layer (11) comprises a quartz core layer (110), a first gradient fluorine-doped layer (111), a flat fluorine-doped layer (112) and a second gradient fluorine-doped layer (113) successively arranged from the inside to the outside; the refractive index profiles of the first gradient fluorine-doped layer (111) and the second gradient fluorine-doped layer (113) are both in the shape of a curve, and are symmetric along the refractive index profile of the flat fluorine-doped layer (112); and the refractive index of the first gradient fluorine-doped layer (111) gradually decreases in a direction away from the quartz core layer (110). The cut-off wavelength of the polarization maintaining optical fiber is less than 830 nm. The PANDA polarization maintaining optical fiber is applicable to multiple bands and has a good attenuation and a good extinction ratio.

No. of Pages : 16 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023727 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PYRAZOLES AS MODULATORS OF HEMOGLOBIN

(51) International classification	:A61P0027020000, A61P0037000000, A61P0017000000, A61K0031417800, A61K0031433000	(71)Name of Applicant : 1)PFIZER INC. Address of Applicant :235 East 42nd Street New York, New York 10017 U.S.A.
(31) Priority Document No	:62/772815	(72)Name of Inventor :
(32) Priority Date	:29/11/2018	1)GOPALSAMY, Ariamala
(33) Name of priority country	:U.S.A.	2)NARAYANAN, Arjun Venkat
(86) International Application No	:PCT/IB2019/060171	3)CASIMIRO-GARCIA, Agustin
Filing Date	:26/11/2019	4)CHOI, Chulho
(87) International Publication No	:WO 2020/109994	5)HEPWORTH, David
(61) Patent of Addition to Application Number	:NA	6)PIOTROWSKI, David Walter
Filing Date	:NA	7)YAYLA, Hatice Gizem
(62) Divisional to Application Number	:NA	8)JASTI, Jayasankar
Filing Date	:NA	9)ROBERTS, Lee Richard
		10)JONES, Lyn Howard
		11)PARIKH, Mihir Dineshkumar
		12)CHEN, Ming Zhu
		13)FADEYI, Olugbeminiyi Omezia
		14)ROBINSON, JR., Ralph Pelton
		15)DOW, Robert Lee
		16)CABRAL, Shawn

(57) Abstract :

The invention relates to pyrazole derivatives, to their use in medicine, to compositions containing them, to processes for their preparation and to intermediates used in such processes. More particularly the invention relates to HbS modulators of formula (I) or tautomers thereof, or pharmaceutically acceptable salts of said modulators or tautomers thereof, wherein X, Y, R2 and R3 are as defined in the description. HbS modulators are potentially useful in the treatment of a wide range of disorders, including sickle cell disease (SCD).

No. of Pages : 221 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023728 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ADJUSTABLE CUTTING AND CREASING HEADS FOR CREATING ANGLED CUTS AND CREASES

(51) International classification :B31B0050140000,
B26D0003080000,
B31B0050250000,
H03H0009000000,
B31B0050100000

(31) Priority Document No :62/773484

(32) Priority Date :30/11/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/062696
Filing Date :21/11/2019

(87) International Publication No :WO 2020/112503

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

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

(71)Name of Applicant :

1)PACKSIZE LLC

Address of Applicant :3760 W. Smart Pack Way Salt Lake City, Utah 84104 U.S.A.

(72)Name of Inventor :

1)PETTERSSON, Niklas

2)BLOMBERG, Johan

3)THUNELL, Bjorn

(57) Abstract :

A converting machine is used to convert sheet material into packaging templates for assembly into boxes or other packaging. The converting machine includes a converting assembly that performs a transverse conversion function, a longitudinal conversion function, and an angled conversion function on the sheet material to create the packaging templates. The converting machine includes a tool head with a converting instrument. The orientation of the converting instrument is adjustable to enable performance of the angled conversion function and at least one of the longitudinal conversion function and the transverse conversion function.

No. of Pages : 17 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023729 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SUBCUTANEOUS DOSAGE AND ADMINISTRATION OF ANTI-C5 ANTIBODIES FOR TREATMENT OF PAROXYSMAL NOCTURNAL HEMOGLOBINURIA (PNH)

(51) International classification	:A61K0039000000, C07K0016180000, A61K0039395000, G06Q0050220000, A61K0009000000	(71) Name of Applicant : 1)ALEXION PHARMACEUTICALS, INC. Address of Applicant :121 Seaport Boulevard Boston, MA 02210 U.S.A.
(31) Priority Document No	:62/752563	(72) Name of Inventor :
(32) Priority Date	:30/10/2018	1)VOLLES, Lori
(33) Name of priority country	:U.S.A.	2)PRADHAN, Rajendra
(86) International Application No	:PCT/US2019/058846	3)SHERIDAN, Douglas, L.
Filing Date	:30/10/2019	4)VALLEE, Marc
(87) International Publication No	:WO 2020/092549	5)GAO, Xiang
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are methods for clinical treatment of Paroxysmal Nocturnal Hemoglobinuria (PNH) comprising administering to the patient an anti-C5 antibody, or antigen binding fragment thereof, wherein the anti-C5 antibody, or antigen binding fragment thereof, is administered (or is for administration) subcutaneously according to a particular clinical dosage regimen (i.e., at a particular dose amount and according to a specific dosing schedule). In one embodiment, the patient has previously been treated with eculizumab (Soliris®).

No. of Pages : 78 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023730 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ARYLSULFONYLPYROLECARBOXAMIDE DERIVATIVES AS KV3 POTASSIUM CHANNEL ACTIVATORS

(51) International classification	:A61K0031443900, A61K0031506000, C07D0307940000, C07D0405120000, C07D0405140000	(71) Name of Applicant : 1)H. LUNDBECK A/S Address of Applicant :Ottiliavej 9 2500 Valby Denmark
(31) Priority Document No	:PA 2018 00787	(72) Name of Inventor :
(32) Priority Date	:30/10/2018	1)SAMS, Anette, Graven
(33) Name of priority country	:Denmark	2)RASMUSSEN, Lars, Kyhn
(86) International Application No	:PCT/EP2019/079587	3)YU, Wanwan
Filing Date	:30/10/2019	4)FLEMING, Paul, Robert
(87) International Publication No	:WO 2020/089262	
(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 novel compounds which activate the Kv3 potassium channels. The compounds have the structure (Formula I), Separate aspects of the invention are directed to pharmaceutical compositions comprising said compounds and use of the compounds to treat disorders responsive to the activation of Kv3 potassium channels.

No. of Pages : 64 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023744 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEM FOR RECOGNITION OF BIOLOGICAL ALTERATION IN HUMAN TISSUES

(51) International classification	:H01Q0021060000, H01Q0001270000, H04B0001180000, H04B0001380500, H04W0052020000	(71) Name of Applicant : 1)PAEGASUS MÉDICAL SA Address of Applicant :c/o Michel Alberton Route des Jeunes 41A 1227 Carouge GE Switzerland
(31) Priority Document No	:18203207.8	(72) Name of Inventor : 1)CANEPA, Stefano Nicolò
(32) Priority Date	:29/10/2018	
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2019/061088	
Filing Date	:30/04/2019	
(87) International Publication No	:WO 2020/088805	
(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 to a system for recognition of biological alteration in human tissues using electromagnetic waves in the microwave range, the device comprising: a transmitter device (100) comprising at least one transmitting antenna (101), a transmitter (102), and a power supply (103); a receiving device (200) comprising at least one receiving antenna (201), a receiver (202), a pre-processing module (204), and a power supply (203); a microprocessor (301; 104) and a display (302; 105); wherein the transmitter device (100) and the receiving device (200) are configured to operate at a frequency comprised between 2.0 GHz and 3.0 GHz. In a preferred embodiment, the operating frequency is comprised between 2.3 GHz and 2.5 GHz, and the device is suitable for the detection of a cancer in the human body, for example for the screening of prostate cancer, colorectal cancer, breast cancer, thyroid cancer. The device according to the invention is capable of high sensitivity and accuracy of results and can detect not only the presence, but also the position of a cancer.

No. of Pages : 13 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023745 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : FIBER OPTIC ALIGNMENT DEVICES; SYSTEMS; AND METHODS

(51) International classification	:G02B0006380000, G02B0006360000, G02B0006420000, G02B0006430000, H04B0010073000	(71) Name of Applicant : 1)COMMSCOPE TECHNOLOGIES LLC Address of Applicant :1100 CommScope Place SE Hickory, North Carolina 28602 U.S.A.
(31) Priority Document No	:62/773642	(72) Name of Inventor :
(32) Priority Date	:30/11/2018	1)VERHEYDEN, Danny Willy August
(33) Name of priority country	:U.S.A.	2)VERSLEEGERS, Jozef Christiaan Mathieu
(86) International Application No	:PCT/US2019/063026	3)MARIS, Michael
Filing Date	:25/11/2019	4)HERMANS, Alfons Rudi
(87) International Publication No	:WO 2020/112645	5)MATTHEUS, Walter
(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 methods, devices and systems for co-axially aligning first and second optical fibers to provide an optical coupling between the first and second optical fibers. A fiber engagement element is used to force the first and second optical fibers into an alignment groove.

No. of Pages : 52 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023775 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : RNAI INDUCED REDUCTION OF ATAXIN-3 FOR THE TREATMENT OF SPINOCEREBELLAR ATAXIA TYPE 3

(51) International classification	:A61K0048000000, C12N0015113000, C12N0005079300, C07K0014520000, A01K0067027000	(71) Name of Applicant : 1)UNIQUE IP B.V. Address of Applicant :Paasheuvelweg 25 1105 BP Amsterdam Netherlands
(31) Priority Document No	:18206963.3	(72) Name of Inventor :
(32) Priority Date	:19/11/2018	1)EVERS, Melvin Maurice
(33) Name of priority country	:EPO	2)KONSTANTINOVA, Pavlina Stefanova
(86) International Application No	:PCT/EP2019/081379	3)MARTIER, Raygene Michaël
Filing Date	:14/11/2019	
(87) International Publication No	:WO 2020/104295	
(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 relates to gene therapy approaches for the treatment of SCA3, in particular RNAi based gene therapy approaches utilizing a total knockdown approach. The inventors provide for selected target regions and/or target sequences for which highly efficient knockdown of the ATXN3 gene expression can be advantageously obtained in human neuronal cells and in mouse models relevant for SCA3.

No. of Pages : 53 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023793 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : REFRIGERATION ARRANGEMENT FOR A MOTOR VEHICLE

(51) International classification	:F25B0009000000, F25B0023000000, F01P0003200000, F25B0043000000, H05K0003200000	(71) Name of Applicant : 1)SIEMENS MOBILITY GMBH Address of Applicant :Otto-Hahn-Ring 6 81739 München Germany
(31) Priority Document No	:10 2018 221 771.8	(72) Name of Inventor :
(32) Priority Date	:14/12/2018	1)WICHMANN, Rainer
(33) Name of priority country	:Germany	2)MEHLAN, Markus
(86) International Application No	:PCT/EP2019/081289	
Filing Date	:14/11/2019	
(87) International Publication No	:WO 2020/120063	
(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 refrigeration arrangement for a motor vehicle, having a first closed circuit which is designed as a compression refrigeration machine (CRM) and contains a refrigerant as first carrier medium (CM1) and an evaporator (4), and also a condenser (2). The evaporator (4) is designed to take up heat into the first circuit, while the condenser (2) is designed to give off heat from the first circuit. The first circuit is coupled, via the evaporator (4), to a closed second circuit of the motor vehicle that contains a liquid second carrier medium for heat transport. In which the second circuit is designed such that, for cooling purposes, heat is taken at a predetermined point and is transferred to the second carrier medium (CM2), and that the heat is conveyed, by means of the second carrier medium, to the evaporator (4) in order to be transferred to the first circuit. The first circuit is coupled, via the condenser (2), to a closed third circuit which contains a liquid third carrier medium for heat transport. The third circuit is designed such that heat from the first circuit, transferred into the third circuit by means of the condenser, is transferred to the surroundings together with heat from traction installations of the motor vehicle.

No. of Pages : 15 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023795 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : IMAGE PROCESSING DEVICE AND METHOD

(51) International classification	:H04N0019700000, H04N0019593000, H04N0019300000, H04N0019105000, H04N0019122000	(71) Name of Applicant : 1)SONY GROUP CORPORATION Address of Applicant :1-7-1, Konan, Minato-ku, Tokyo 1080075 Japan
(31) Priority Document No	:2018-240108	(72) Name of Inventor :
(32) Priority Date	:21/12/2018	1)FUJIMOTO Yuji
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/047782	
Filing Date	:06/12/2019	
(87) International Publication No	:WO 2020/129698	
(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 an image processing device and method that enable the suppression of reductions in encoding-decoding parallelism. Coefficient data for an image is encoded in parallel for each line of an encoding tree unit constituting the highest level of a tree-structured encoding block made up of conversion blocks, and the encoding of each line is performed at a delay of one encoding tree unit with respect to the encoding of the line above. The encoded data obtained by encoding the coefficient data for the image is decoded in parallel for each line of the encoding tree unit constituting the highest level of the tree-structured encoding block made up of the conversion blocks, and the decoding of each line is performed at a delay of one encoding tree unit with respect to the decoding of the line above. The present disclosure can be applied, for example, to image processing devices, image encoding devices, image decoding devices, and the like.

No. of Pages : 135 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023796 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : NEW CRYSTALLINE FORMS OF A MCL-1 INHIBITOR, A PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM.

(51) International classification	:G01N0021650000, C07C0309300000, C07D0307850000, C07H0017000000, C07D0417120000	(71) Name of Applicant : 1)LES LABORATOIRES SERVIER Address of Applicant :35 rue de Verdun 92284 SURESNES Cedex France 2)VERNALIS (R&D) LIMITED
(31) Priority Document No	:18306634.9	(72) Name of Inventor :
(32) Priority Date	:06/12/2018	1)DE BAETS, Emilie
(33) Name of priority country	:EPO	2)AUVRAY, Julien
(86) International Application No	:PCT/EP2019/083773	3)LYNCH, Michael
Filing Date	:05/12/2019	4)LEBLANC, Nicolas
(87) International Publication No	:WO 2020/115183	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Crystalline forms of Compound A: (I) characterized by its X-ray powder diffraction diagram, solid-state ¹³C NMR spectrum, MIR spectrum and Raman spectrum and pharmaceutical compositions containing it.

No. of Pages : 37 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023797 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : TETHER

(51) International classification :B60R0021233800,
B29C0065000000,
E04C0005160000,
G02C0005140000,
B60R0021000000

(31) Priority Document No :2018260900

(32) Priority Date :08/11/2018

(33) Name of priority country :Australia

(86) International Application No :PCT/AU2019/051167
Filing Date :24/10/2019

(87) International Publication No :WO 2020/093086

(61) 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.BOX FOR KIDS DEVELOPMENTS PTY LTD
Address of Applicant :Unit 5, 677 Springvale Road Mulgrave,
Victoria 3170 Australia

(72)Name of Inventor :
1)TJERNBERG, Lisa, Edlund
2)AMATOURY, Sylvain, Jacques

(57) Abstract :

A tether (10) for connecting two different objects together, the tether (10) having first and second elongate and flexible end portions (16, 17), having proximal and distal ends, and an elongate and flexible intermediate portion (15). The intermediate portion (15) being releasably connectible with the first and second end portions (16, 17), by the intermediate portion (15) having connectors (30) at either end and the first and second end portions (16, 17) having connectors (32, 33) at respective proximal ends to form first and second safety breakaways (40, 41). The connections of the first and second safety breakaways (40, 41), being made in-line with the general lengthwise axis of the tether (10). The first and second end portions (16, 17), being arranged for connection to a respective object. Whereby the safety breakaways (40, 41) between the intermediate portion (15) and the first and second end portions (16, 17), are releasable at a predetermined release load.

No. of Pages : 15 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023798 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PESTICIDAL COMPOSITIONS AND METHODS

(51) International classification	:A01N0053000000, C07D0249080000, C07C0255460000, A01N0037260000, A01N0041060000	(71) Name of Applicant : 1)CORTEVA AGRISCIENCE LLC Address of Applicant :9330 Zionsville Road INDIANAPOLIS, Indiana 46268 U.S.A.
(31) Priority Document No	:62/784911	(72) Name of Inventor :
(32) Priority Date	:26/12/2018	1)GIAMPIETRO, Natalie
(33) Name of priority country	:U.S.A.	2)DEMETER, David
(86) International Application No	:PCT/US2019/065869	3)HORTY, Lindsey G.
Filing Date	:12/12/2019	4)CROUSE, Gary D
(87) International Publication No	:WO 2020/139566	5)SPARKS, Thomas C
(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 the field of molecules having pesticidal utility against pests in phyla Nematoda, Arthropoda, and/or Mollusca, processes to produce such molecules and intermediates used in such processes, compositions containing such molecules, and processes of using such molecules against such pests. These molecules may be used, for example, as nematocides, acaricides, insecticides, miticides, and/or molluscicides. This document discloses molecules having the structure of Formula A.

No. of Pages : 118 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023799 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SPOT WELDING MEMBER

(51) International classification :B23K0011110000,
B23K0011160000,
B23K0103040000,
B23K0101000000,
B23K0101180000

(31) Priority Document No :2018-239565

(32) Priority Date :21/12/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/049846
Filing Date :19/12/2019

(87) International Publication No :WO 2020/130079

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

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

(71)Name of Applicant :

1)JFE STEEL CORPORATION

Address of Applicant :2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 1000011 Japan

(72)Name of Inventor :

1)TANAKA Minoru

2)TANIGUCHI Koichi

3)SATO Rinta

4)TAKASHIMA Katsutoshi

5)MATSUDA Hiroshi

6)IKEDA Rinsei

(57) Abstract :

The purpose of the present invention is to provide a spot welding member having a spot welding part formed by spot welding a plurality of steel sheets that include zinc-based plating layers. The present invention is a spot welding member having a spot welding part formed by spot welding a sheet assembly in which a plurality of steel sheets are overlapped, the sheet assembly being sandwiched between a pair of electrodes, wherein: at least one of the plurality of steel sheets is a high-strength zinc-plated steel sheet having a tensile strength of 780 MPa or higher, the Al content of the plating on the high-strength zinc-plated steel sheet being 0.5 mass% or higher; and, at the interface of the plating and a parent-material steel sheet of the high-strength zinc-plated steel sheet, a thermal shock region on the outer side of a corona-bond end part of the spot welding part has an FeAl alloy layer having an average thickness of 0.3 μm or higher and a plating layer in which a zinc-based plating layer having an average thickness of 2.0 μm or higher is formed on the FeAl alloy layer.

No. of Pages : 39 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023800 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR PRODUCING FERRIC CITRATE HYDRATE

(51) International classification :A61K0031295000,
C07C0069540000,
C12N0015090000,
C07C0021180000,
C08B0015100000

(31) Priority Document No :2018-214016
(32) Priority Date :14/11/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/044384
Filing Date :12/11/2019
(87) International Publication No :WO 2020/100911
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)TOKUYAMA CORPORATION
Address of Applicant :1-1, Mikage-cho, Shunan-shi,
Yamaguchi 7458648 Japan
(72)**Name of Inventor :**
1)MIYAOKU Takayuki
2)SAITO Kohei

(57) Abstract :

The present invention provides a production method for efficiently obtaining ferric citrate hydrate which exhibits various BET specific surface areas and a high degree of purity regardless of the starting material which is used. The present invention involves a method for producing a modified ferric citrate hydrate which includes a step 2 for contacting a water-soluble organic solvent and a solution containing water, ferric chloride and ferric citrate, which is a starting material.

No. of Pages : 86 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023801 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : STACKED CORE AND ROTARY ELECTRIC MACHINE

(51) International classification	:H02K0001140000, H02K0001270000, H02K0001180000, H02K0015020000, C21D0008120000	(71) Name of Applicant : 1)NIPPON STEEL CORPORATION Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008071 Japan
(31) Priority Document No	:2018-235857	(72) Name of Inventor :
(32) Priority Date	:17/12/2018	1)HIRAYAMA Ryu
(33) Name of priority country	:Japan	2)TAKEDA Kazutoshi
(86) International Application No	:PCT/JP2019/049294	
Filing Date	:17/12/2019	
(87) International Publication No	:WO 2020/129942	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This stacked core is provided with: a plurality of electromagnetic steel sheets stacked on each other; and bonding parts that are each disposed between the electromagnetic steel sheets adjacent to each other in the stacking direction and that each bond the electromagnetic steel sheets. The electromagnetic steel sheets each have an annular core back part and a plurality of tooth parts that extend from the core back part in the radial direction of the core back part and that are arranged with intervals therebetween in the circumferential direction of the core back part. The tooth parts of the electromagnetic steel sheet have bonding regions in which belt-shaped bonding parts extending in the circumferential direction are disposed.

No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023810 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MULTI-LAYER BAG WITH LOSS OF INTEGRITY MEANS OF DETECTION

(51) International classification	:A61K0047100000, A61K0009240000, A61K0047240000, F16L0009133000, A61K0031485000	(71) Name of Applicant : 1)BECTON DICKINSON FRANCE Address of Applicant :11, rue Aristide Bergès 38800 Le Pont de Claix France
(31) Priority Document No	:18306426.0	(72) Name of Inventor :
(32) Priority Date	:31/10/2018	1)NICOLAS, Maxime
(33) Name of priority country	:EPO	2)GUILLEMOT, Julien
(86) International Application No	:PCT/EP2019/079367	
Filing Date	:28/10/2019	
(87) International Publication No	:WO 2020/089156	
(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 multi-layer bag (2) comprising a porous portion (20) configured to allow a sterilizing gas to penetrate into the bag and a gas-impervious portion (21), characterized in that: the gas-impervious portion (21) comprises an outer layer (211), an inner layer (213) and an intermediate layer (212) integrally formed together so that the intermediate layer (212) is sealingly enclosed between the outer layer (211) and the inner layer (213) so as to be physically isolated from inner and outer environment of the bag, and the intermediate layer (212) comprises a matrix and at least one pigment distributed within the matrix, the pigment being configured to change at least one optical property in reaction to an environment change resulting from a damage of the outer and/or inner layer.

No. of Pages : 16 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023818 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ORALLY ACTIVE PRODRUG OF GEMCITABINE

(51) International classification	:A61K0045060000, C07D0417140000, A61P0035000000, A61K0031695000, A61K0031495000	(71) Name of Applicant : 1)TNT MEDICAL CORPORATION Address of Applicant :Voltestrasse 6 Zurich CH-8044 Switzerland
(31) Priority Document No	:62/771100	(72) Name of Inventor :
(32) Priority Date	:25/11/2018	1)LI, Xiang
(33) Name of priority country	:U.S.A.	2)LI, Bing Ying
(86) International Application No	:PCT/US2019/062747	3)CHENG, Starr Sing Chung
Filing Date	:22/11/2019	4)WANG, Andrew
(87) International Publication No	:WO 2020/107013	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The disclosure includes compounds of Formula (I): wherein R1, R2, and R3, are defined herein. Also disclosed is a method for treating a neoplastic disease with these compounds.

No. of Pages : 35 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023828 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : TETRAHYDROPYRAN (THP)-SUBSTITUTED BICYCLIC-PYRIMIDINEDIONE COMPOUNDS

(51) International classification	:C07D0405040000, C07D0403040000, C07D0405120000, C07D0401040000, C07D0239545000	(71) Name of Applicant : 1)MYOKARDIA, INC. Address of Applicant :1000 Sierra Point Parkway Brisbane, CA 94005 U.S.A.
(31) Priority Document No	:62/752278	(72) Name of Inventor :
(32) Priority Date	:29/10/2018	1)GRILLO, Mark
(33) Name of priority country	:U.S.A.	2)KANE, Brian
(86) International Application No	:PCT/US2019/058297	3)OSLOB, Johan
Filing Date	:28/10/2019	4)ZHONG, Min
(87) International Publication No	:WO 2020/092208	5)THOMPSON, Fabienne
(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 novel tetrahydropyran (THP)-substituted bicyclic pyrimidinedione compounds that are useful for the treatment of hypertrophic cardiomyopathy (HCM), conditions associated with left ventricular hypertrophy, conditions associated with diastolic dysfunction, and/or symptoms associated thereof. The synthesis and characterization of the compounds is described, as well as methods for treating HCM and other forms of heart disease.

No. of Pages : 84 No. of Claims : 58

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023829 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AEROSOL-GENERATING ARTICLE WITH LAMINATED WRAPPER

(51) International classification	:A24F0047000000, A24B0013000000, A24B0015160000, B65D0085100000, A24D0001020000	(71) Name of Applicant : 1)PHILIP MORRIS PRODUCTS S.A. Address of Applicant :Quai Jeanrenaud 3 2000 Neuchtel Switzerland
(31) Priority Document No	:18210864.7	(72) Name of Inventor :
(32) Priority Date	:06/12/2018	1)LAVANCHY, Frédéric
(33) Name of priority country	:EPO	2)JORDIL, Yves
(86) International Application No	:PCT/EP2019/083705	
Filing Date	:04/12/2019	
(87) International Publication No	:WO 2020/115150	
(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 aerosol-generating article comprising aerosol-forming substrate and a laminated wrapper. The aerosol-forming substrate comprises plant material cut filler, and wherein the plant material cut filler comprises at least 25 percent of plant lamina per weight of the total plant material and wherein the aerosol-forming substrate further comprises between about 6 percent and about 20 percent of an aerosol-former. The laminated wrapper is at least partly wrapped around the aerosol-forming substrate. The laminated wrapper comprises a heat conductive layer and a heat insulating layer. The heat conductive layer and the heat insulating layer overlap along an axial direction of the aerosol-generating article.

No. of Pages : 23 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023836 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : TRIALLING

(51) International classification	:A61F0002460000, A61F0002360000, A61F0002300000, A61B0017160000, F16K0031126000	(71) Name of Applicant : 1)DEPUY IRELAND UNLIMITED COMPANY Address of Applicant :Loughbeg Industrial Estate Ringaskiddy, Cork Ireland
(31) Priority Document No	:62/774971	(72) Name of Inventor :
(32) Priority Date	:04/12/2018	1)AIT SI SELMI, Tarik
(33) Name of priority country	:U.S.A.	2)BUSHELL, Sarah
(86) International Application No	:PCT/IB2019/060251	3)CANNON, Patrick
Filing Date	:27/11/2019	4)CORTEN, Kristoff
(87) International Publication No	:WO 2020/115618	5)LINDEMAN, Phillip
(61) Patent of Addition to Application Number	:NA	6)MASON, John Bohannon
Filing Date	:NA	7)OLSON, Jamie
(62) Divisional to Application Number	:NA	8)WAGNER, Carol
Filing Date	:NA	9)YOUNG, Duncan
		10)BROCK, Michael

(57) Abstract :

A neck trial (170) is disclosed. The neck trial has a body (182) and a neck (186). The body has an exterior surface. The neck extends away from the body along a neck axis (190). At least one first line (194) is provided on the exterior surface, which extends in a first direction parallel to an inferior-superior axis of a patient when in use. At least one second line (196) is provided on the exterior surface, which extends in a second direction parallel to a medial-lateral axis of the patient in use. The number of first lines, or the position of the first line or lines relative to the second line or lines, is indicative of an amount of offset in the medial-lateral direction caused by the neck trial. The number of second lines, or the position of the second line or lines relative to the first line or lines, is indicative of an amount of leg-length in the inferior-superior direction caused by the neck trial. A kit of parts, a trial assembly and a method of trialling a joint of a patient are also disclosed.

No. of Pages : 29 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023842 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : REACTOR AND PROCESS FOR GASIFYING AND/OR MELTING OF FEED MATERIALS

(51) International classification :C10J0003660000,
C10J0003260000,
F23G0005027000,
C10B0053000000,
C10J0003460000

(31) Priority Document No :2018/08023

(32) Priority Date :28/11/2018

(33) Name of priority country :South Africa

(86) International Application No :PCT/IB2019/060279
Filing Date :28/11/2019

(87) International Publication No :WO 2020/110061

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

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

(71)**Name of Applicant :**
1)AFRICAN RAINBOW MINERALS LIMITED
Address of Applicant :24 Impala Road Chislehurst Sandton
2196 Johannesburg South Africa

(72)**Name of Inventor :**
1)WEGNER, André
2)BOUWER, Petrus, Hendrik, Ferreira

(57) Abstract :

This invention relates to a method and a reactor for gasifying a carbonaceous feedstock material. The method includes the steps of choke-feeding a carbonaceous feedstock material into a pyrolysis zone of the reactor to form a discharge bed; heating the discharge bed to initiate pyrolysis of the feedstock material to form a pyrolysis product; providing a lower lying upper oxidation zone; gasifying the pyrolysis product to form a bed of char; converting thermal energy into chemical energy in an upper reduction zone; providing a lower lying lower oxidation zone; collecting any metal slag and/or slag melts in the lower oxidation zone; and discharging hot reducing gases having a temperature of at least 1300°C and a CO/CO₂ ratio of = 5, more preferably = 15.

No. of Pages : 36 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023844 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : CYLINDER LINER AND MANUFACTURING METHOD FOR SAME

(51) International classification	:F02F0001000000, F04B0053160000, C08K0003040000, F02F0001180000, C09D0167000000	(71) Name of Applicant : 1)TPR CO., LTD. Address of Applicant :6-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo 1000005 Japan 2)TPR INDUSTRY CO., LTD.
(31) Priority Document No	:2018-222727	(72) Name of Inventor :
(32) Priority Date	:28/11/2018	1)KUROMASA Yuki
(33) Name of priority country	:Japan	2)HATAKEYAMA Koichi
(86) International Application No	:PCT/JP2019/028782	3)OZAWA Takashi
Filing Date	:23/07/2019	
(87) International Publication No	:WO 2020/110366	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A cylinder liner according to the present invention is characterized by being made of a flaky graphite cast iron, attached to a cylinder block, having at least a nitrided layer on the inner peripheral surface of the cylinder liner, and having a cross hatch section formed therein, wherein the roughness curve of the inner peripheral surface has a flat honing shape, the ten point average roughness Rz of the inner peripheral surface according to JIS B0601:1982 is no greater than 4.0 μm, and the area fraction of bits formed on the inner peripheral surface has an average value of no greater than 8%.

No. of Pages : 27 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023846 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR CHARGING AN ENERGY STORAGE SYSTEM USING A WIND TURBINE

(51) International classification	:F03D0007020000, F03D0009250000, H02J0003320000, H02J0007340000, F03D0009170000	(71) Name of Applicant : 1)VESTAS WIND SYSTEMS A/S Address of Applicant :Hedeager 42 8200 Aarhus N Denmark
(31) Priority Document No	:PA 2018 70722	(72) Name of Inventor :
(32) Priority Date	:02/11/2018	1)DALSGAARD, Søren
(33) Name of priority country	:Denmark	2)NETO, Julio Xavier Vianna
(86) International Application No	:PCT/DK2019/050301	3)SØRENSEN, Kim Hylling
Filing Date	:09/10/2019	4)CHRISTENSEN, Poul Brandt
(87) International Publication No	:WO 2020/088725	5)CAPONETTI, Fabio
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method of charging an energy storage system, such as a battery, a capacitor, or a super capacitor, using a wind turbine is described. The method comprises establishing if turbine power production can be increased and establishing if the energy storage system is capable of taking a charge. If both conditions are met, the power generated by the wind turbine is increased above a rated power of the wind turbine and the additional power is used to charge the energy storage systems. A method of control is also disclosed.

No. of Pages : 14 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023852 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : HYDROCYCLONE

(51) International classification :F16L0021020000,
E21B0043380000,
E21B0043120000,
A61F0013000000,
A62C0037110000

(31) Priority Document No :1821140.9

(32) Priority Date :21/12/2018

(33) Name of priority country :U.K.

(86) International Application No :PCT/IB2019/060690
Filing Date :12/12/2019

(87) International Publication No :WO 2020/128736

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

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

(71)Name of Applicant :

1)WEIR GROUP IP LIMITED

Address of Applicant :10th Floor 1 West Regent Street
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2)VULCO S.A.

(72)Name of Inventor :

1)SCHMIDT, Mark

2)CEPEDA, Eduardo

3)LAGOS, Jorge

(57) Abstract :

A part-conical section (20,22) for use as part of a separation chamber (14) of a hydrocyclone (10) is described. The part-conical section comprises: an upper end defining internal and external diameters and including an upper mount (44,48); a lower end defining smaller internal and external diameters than the upper end, and including a lower mount (46,50); and a sidewall (26) defining an internal passageway (28) along a fluid transport axis (30) and an external surface. The internal passageway extends from the upper end to the lower end and defines a radially-inward tapering portion with respect to the fluid transport axis, and a non-inwardly-tapering portion with respect to the fluid transport axis. The tapering portion extends from the upper end to the non-inwardly-tapering portion, and the non-inwardly-tapering portion extends from a narrow end of the tapering portion to the lower end. A spigot (24) and a hydrocyclone (10) are also described.

No. of Pages : 14 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023854 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHODS, APPARATUS AND MACHINE-READABLE MEDIUMS RELATED TO WIRELESS ACCESS IN COMMUNICATION NETWORKS

(51) International classification	:H04B0007060000, H04W0072040000, H04B0017318000, H04B0010116000, H04W0016280000	(71) Name of Applicant : 1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) Address of Applicant :SE-164 83 Stockholm Sweden
(31) Priority Document No	:PCT/EP2018/086612	(72) Name of Inventor :
(32) Priority Date	:21/12/2018	1)STAVRIDIS, Athanasios
(33) Name of priority country	:	2)LOPEZ, Miguel
(86) International Application No	:PCT/EP2018/086612	3)WILHELMSSON, Leif
Filing Date	:21/12/2018	
(87) International Publication No	:WO 2020/126039	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods, apparatus and non-transitory machine-readable mediums are provided for wireless access in communications networks comprising radio access network nodes and wireless light communication network nodes. In one embodiment, a method is performed by a radio access network node for selecting a transmit or receive beam for communication with a wireless device in a communication network. The radio access network node comprises a plurality of antenna elements configurable to provide a plurality of transmit or receive beams. The communication network further comprises one or more wireless light communication, LC, network nodes. The method comprises: obtaining information identifying a wireless LC network node to which the wireless device is connected; based on the identified wireless LC network node, selecting a subset of the plurality of transmit or receive beams; and initiating a beam-sweeping procedure using the subset of transmit or receive beams to select a transmit or receive beam for communication with the wireless device.

No. of Pages : 42 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023855 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD AND APPARATUS FOR DETERMINING A POSITION OF A VEHICLE

(51) International classification :G01C0021160000,
B61L0025020000,
G05D0001000000,
G06N0007000000,
G06T0007277000

(31) Priority Document No :1819620.4
(32) Priority Date :30/11/2018
(33) Name of priority country :U.K.
(86) International Application No :PCT/EP2019/082918
Filing Date :28/11/2019
(87) International Publication No :WO 2020/109471
(61) 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 HOLDINGS UK PLC
Address of Applicant :350 Longwater Avenue Green Park
Reading Berkshire RG2 6GF U.K.
(72)**Name of Inventor :**
1)BATCHELOR, Andrew
2)WATSON, Douglas

(57) Abstract :

There is provided a computer-implemented method of determining a position of a vehicle 10 within a transport network. The method comprises obtaining track geometry data indicating track geometry of at least a part of the transport network; receiving first sensor data from an inertial measurement unit 26 mounted to the vehicle 10; executing a Bayesian estimation filter algorithm 34 to predict a position of the vehicle, wherein the Bayesian estimation filter algorithm comprises a process model, the process model comprising a strapdown inertial navigation algorithm 47, and wherein the strapdown inertial navigation algorithm 47 generates data indicative of the predicted position of the vehicle based at least upon the first sensor data and the track geometry data such that the predicted position of the vehicle lies on a track defined by the track geometry data; receiving second sensor data from a sensor 25, 27 other than an inertial measurement unit 26, wherein the sensor is mounted to the vehicle; executing the Bayesian estimation filter algorithm 34 to update the predicted position of the vehicle based at least upon the second sensor data; and generating an output indicative of a position of the vehicle within the transport network based upon at least one of the predicted position of the vehicle and the updated predicted position of the vehicle.

No. of Pages : 34 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023856 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD AND APPARATUS FOR DETERMINING A POSITION OF A VEHICLE

(51) International classification :G06N0007000000,
G01C0021340000,
G01C0021000000,
B61L0025020000,
G01C0021360000

(31) Priority Document No :1819619.6
(32) Priority Date :30/11/2018
(33) Name of priority country :U.K.
(86) International Application No :PCT/EP2019/082929
Filing Date :28/11/2019
(87) International Publication No :WO 2020/109476
(61) 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 HOLDINGS UK PLC
Address of Applicant :350 Longwater Avenue Green Park
Reading Berkshire RG2 6GF U.K.
(72)**Name of Inventor :**
1)BATCHELOR, Andrew
2)WATSON, Douglas

(57) Abstract :

There is provided a computer-implemented method of determining a position of a vehicle within a transport network. The method comprises: obtaining track geometry data indicating track geometry of at least a part of the transport network; determining, based upon the track geometry data, that the vehicle is approaching a junction; determining, based upon the track geometry data, a plurality of route options from the junction; generating a plurality of Bayesian estimation filter algorithms 34 each associated with a respective one of the plurality of route options and configured to estimate a position of the vehicle based upon the track geometry data indicative of the associated route option, wherein the plurality of Bayesian estimation filter algorithms are configured to output data indicative of probabilities of the vehicle taking the associated route options; monitoring the output of the plurality of Bayesian estimation filter algorithms as the vehicle passes through the junction; and determining the route option taken by the vehicle by selecting one of the plurality of route options which presents the highest probability based upon the output of the plurality of Bayesian estimation filter algorithms.

No. of Pages : 39 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023861 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : HIGH-STRENGTH HOT-DIP ZINC-COATED STEEL SHEET AND METHOD FOR MANUFACTURING SAME

(51) International classification :C22C0038000000,
C22C0038020000,
C22C0038040000,
C22C0038060000,
C21D0009460000

(31) Priority Document No :2018-242711

(32) Priority Date :26/12/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/033081
Filing Date :23/08/2019

(87) International Publication No :WO 2020/136989

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

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

(71)Name of Applicant :

1)JFE STEEL CORPORATION

Address of Applicant :2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 100011 Japan

(72)Name of Inventor :

1)HASEGAWA Hiroshi

2)MINAMI Hidekazu

3)NAKAGAITO Tatsuya

(57) Abstract :

Provided are: a high-strength hot-dip zinc-coated steel sheet having high strength and excellent properties to be resistant to the delayed fracture from a sheared edge face thereof; and a method for manufacturing the high-strength hot-dip zinc-coated steel sheet. A high-strength hot-dip zinc-coated steel sheet having a specified component composition and also having such a steel structure that the total content of martensite and bainite containing a carbide is 90 to 100% by area and the content of retained austenite is 0 to 10% by area in a region extending to the depth of 300 to 400 μm from the surface layer of the steel sheet as observed in the sheet thickness direction and the aspect ratio of each of prior austenite grains is 2.0 or less, wherein the ratio of the average C amount at a position corresponding to the depth of 5 μm from the surface layer of the steel sheet as observed in the sheet thickness direction to that at a position corresponding to the depth of 70 μm from the surface layer of the steel sheet as observed in the sheet thickness direction is 0.2 to 0.8, the ratio of the standard deviation of the C amount to the average C amount in the region extending to the depth of 300 to 400 μm from the surface layer of the steel sheet as observed in the sheet thickness direction as analyzed by FE-EPMA is 0.40 or less, and a hot-dip zinc coating layer is arranged on the surface of the steel sheet.

No. of Pages : 43 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023862 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SURFACE DEFECT DETECTING METHOD, SURFACE DEFECT DETECTING DEVICE, METHOD FOR MANUFACTURING STEEL MATERIAL, STEEL MATERIAL QUALITY CONTROL METHOD, STEEL MATERIAL MANUFACTURING EQUIPMENT, METHOD FOR CREATING SURFACE DEFECT DETERMINATION MODEL, AND SURFACE DEFECT DETERMINATION MODEL

(51) International classification	:G01N0021880000, G01N0021952000, G01B0011300000, G01B0011245000, G01N0021892000	(71) Name of Applicant : 1)JFE STEEL CORPORATION Address of Applicant :2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 1000011 Japan
(31) Priority Document No	:2018-224403	(72) Name of Inventor :
(32) Priority Date	:30/11/2018	1)ONO, Hiroaki
(33) Name of priority country	:Japan	2)TATE, Masami
(86) International Application No	:PCT/JP2019/043930	
Filing Date	:08/11/2019	
(87) International Publication No	:WO 2020/110667	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A surface defect detecting method according to the present invention is a surface defect detecting method for optically detecting surface defects in a steel material, and includes: a radiating step of radiating illuminating light from different directions onto the same inspection target position using at least two distinguishable light sources; and a detection step of detecting a surface defect at the inspection target position on the basis of a degree of overlap of bright portions extracted from at least two images obtained using reflected light originating from the illuminating light.

No. of Pages : 49 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023863 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : HIGH-STRENGTH HOT-DIP GALVANIZED STEEL SHEET AND METHOD FOR MANUFACTURING SAME

(51) International classification :C22C0038000000,
C22C0038060000,
C22C0038040000,
C22C0038020000,
C23C0002060000

(31) Priority Document No :2018-242710

(32) Priority Date :26/12/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/033080
Filing Date :23/08/2019

(87) International Publication No :WO 2020/136988

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

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

(71)Name of Applicant :

1)JFE STEEL CORPORATION

Address of Applicant :2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 100011 Japan

(72)Name of Inventor :

1)HASEGAWA Hiroshi

2)NAKAGAITO Tatsuya

(57) Abstract :

A high-strength hot-dip galvanized steel sheet which is high-strength and has excellent hole expandability and delayed fracture resistance, and a manufacturing method thereof are provided. This high-strength hot-dip galvanized steel sheet has a specific component composition, and a steel composition in which, by area ratio, the total of ferrite and upper bainite is 0-15%, the total of lower bainite and martensite is 80-100%, and the residual austenite is 0-10%, and in which, in the range 100-300 μm from the steel sheet surface in the sheet thickness direction, there are 109-1012 precipitates/ m^2 that have a particle size of 100-2000 nm by equivalent circle diameter, and the ratio of the average amount of C at the position 5 μm from the steel sheet surface layer in the sheet thickness direction to the average amount of C at the position 70 μm from the steel sheet surface layer in the sheet thickness direction is 0.20-0.80, and there is a hot-dip galvanized layer on the steel sheet surface.

No. of Pages : 44 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023864 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : HIGH-STRENGTH HOT-DIP ZINC-COATED STEEL SHEET AND METHOD FOR MANUFACTURING SAME

(51) International classification	:C22C0038020000, C22C0038000000, C22C0038060000, C22C0038040000, C23C0002060000	(71) Name of Applicant : 1)JFE STEEL CORPORATION Address of Applicant :2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 100011 Japan
(31) Priority Document No	:2018-242712	(72) Name of Inventor :
(32) Priority Date	:26/12/2018	1)HASEGAWA Hiroshi
(33) Name of priority country	:Japan	2)NAKAGAITO Tatsuya
(86) International Application No	:PCT/JP2019/033082	3)TAKEDA Yuki
Filing Date	:23/08/2019	
(87) International Publication No	:WO 2020/136990	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are: a high-strength hot-dip zinc-coated steel sheet having high strength and excellent delayed fracture resistance properties; and a method for manufacturing the high-strength hot-dip zinc-coated steel sheet. A high-strength hot-dip zinc-coated steel sheet having a specified component composition and also having such a steel structure that the total content of martensite and bainite containing a carbide is 60 to 100% by area in a region extending to the depth of 300 to 400 μm from the surface layer of the steel sheet as observed in the sheet thickness direction, the average grain diameter of prior austenite is 15 μm or less, and the ratio of the height of a peak of an Auger electron spectrum of P at a position 5 nm or more away from a prior austenite grain boundary to that at the prior austenite grain boundary in the region extending to the depth of 300 to 400 μm from the surface layer of the steel sheet as observed in the sheet thickness direction is 0.20 or more, wherein a hot-dip zinc coating layer is arranged on the surface of the steel sheet.

No. of Pages : 42 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023865 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SELF-SEALING PACKAGING BOX

(51) International classification	:B65B0051060000, B65D0005700000, B65B0043240000, B65B0007200000, B65D0055020000
(31) Priority Document No	:201811295277.6
(32) Priority Date	:01/11/2018
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2019/072963
Filing Date	:24/01/2019
(87) International Publication No	:WO 2020/087789
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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Address of Applicant :Anwei 16, Bitang Village, Gangtou Town, Fuqing City, Fuzhou, Fujian China

(72)**Name of Inventor :**
1)WANG, Changguang

(57) Abstract :

Provided is a self-sealing packaging box. When one end of a box body needs to be sealed, only a first lining board (200), a second lining board (300) and a third lining board (400) all cover one end of the box body, a first plug connector is switched to a folding position and inserted into the box body from a first socket (310) so that a first panel (100) finally covers one end of the box body and the first plug connector is automatically unfolded to an unfolding position so as to be snap-fitted in the first socket, thus achieving a self-sealing function. A box sealer does not need to seal a box with an adhesive tape, which is environment-friendly. Moreover, the packaging box has the self-sealing function, and the box cannot be opened by hand after box sealing is completed, so that the integrity of goods in the box body is guaranteed; particularly in the express industry, when a buyer receives the goods, if the packaging box is intact, it can be determined that the goods are complete, and if the packaging box has a box opening mark or is damaged, it can be determined that the packaging box has been unpacked.

No. of Pages : 16 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023878 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SADDLED ELECTRICALLY-POWERED VEHICLE

(51) International classification	:B60L0050600000, B62M0007120000, B62K0025280000, B60K0001000000, B60L0050640000	(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	:NA	(72) Name of Inventor : 1)MATSUSHIMA Satoshi
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT/JP2018/048011	
Filing Date	:27/12/2018	
(87) International Publication No	:WO 2020/136783	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This saddled electrically-powered vehicle comprises: a drive device (8) that has a vehicle driving motor (50), a battery (100) serving as a power supply for the motor (50), and a control unit (130) for controlling the motor (50); a body frame (5) that supports the drive device (8); a reservoir (91A, 91B, 191) that has the function of retaining cooling water circulating in the drive device (8); and a swing arm (30) that supports a rear wheel (3) and that is provided so as to be rotatable about a pivot axis (P) that extends in the vehicle width direction with respect to the body frame (5). The battery (100) is disposed further toward the front than the pivot axis (P), and the reservoir (91A, 91B, 191) is disposed further toward the rear than the pivot axis (P).

No. of Pages : 35 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023885 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : CRYSTALLINE SALTS OF A PLASMA KALLIKREIN INHIBITOR

(51) International classification	:A61K0031501000, A61K0031420000, H01L0027120000, C12Q0001480000, A61K0031451000	(71) Name of Applicant : 1)BIOCRYST PHARMACEUTICALS, INC. Address of Applicant :4505 Emperor Blvd. Suite 200 Durham, NC 27703 U.S.A.
(31) Priority Document No	:62/754983	(72) Name of Inventor :
(32) Priority Date	:02/11/2018	1)EL-KATTAN, Yahya
(33) Name of priority country	:U.S.A.	2)BABU, Yarlagadda, S.
(86) International Application No	:PCT/US2019/059385	
Filing Date	:01/11/2019	
(87) International Publication No	:WO 2020/092898	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are crystalline salts of Compound I, methods of preparing them, and related pharmaceutical preparations thereof. Also disclosed are methods of treatment using the crystalline salts of the invention.

No. of Pages : 36 No. of Claims : 60

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023886 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SINGLE USE ASEPTIC TANGENTIAL FLOW FILTRATION SYSTEMS AND METHODS

(51) International classification	:B01D0061140000, A61K0039000000, B01D0063080000, C07K0001340000, B01D0061180000	(71) Name of Applicant : 1)REPLIGEN CORPORATION Address of Applicant :41 Seyon Street Building 1, Suite 100 Waltham, MA 02453 U.S.A.
(31) Priority Document No	:62/773262	(72) Name of Inventor :
(32) Priority Date	:30/11/2018	1)PERREAULT, Mark, A.
(33) Name of priority country	:U.S.A.	2)CONNORS, John, F.
(86) International Application No	:PCT/US2019/063530	3)LOWELL, Paul, C.
Filing Date	:27/11/2019	
(87) International Publication No	:WO 2020/112946	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Cassettes for tangential flow filtration (TFF) are disclosed which reduce assembly and disassembly required for aseptic filtration. Packaging systems and methods for the TFF cassettes are also disclosed.

No. of Pages : 14 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023887 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR MANUFACTURING CHLORINATED POLYVINYL CHLORIDE RESIN

(51) International classification	:C08F0014060000, C08L0027060000, C08F0002180000, C08F0008200000, C08F0008220000	(71) Name of Applicant : 1)HANWHA SOLUTIONS CORPORATION Address of Applicant :86, Cheonggyecheon-ro, Jung-gu, Seoul 04541 Republic of Korea
(31) Priority Document No	:10-2018-0154716	(72) Name of Inventor :
(32) Priority Date	:04/12/2018	1)LEE, Wooyoung
(33) Name of priority country	:Republic of Korea	2)JIN, Seon Jeong
(86) International Application No	:PCT/KR2019/017021	3)NAMKOONG, Ji Eun
Filing Date	:04/12/2019	4)HONG, Kiwon
(87) International Publication No	:WO 2020/116935	5)LEE, Sojung
(61) Patent of Addition to Application Number	:NA	6)PYEON, Wonbum
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method for manufacturing a chlorinated polyvinyl chloride resin, and provides a method wherein, by optimizing all of: a polymerization step of preparing a vinyl chloride-based polymer; a step of chlorinating the vinyl chloride-based polymer; and a step of neutralizing same, a floating phenomenon of the resin and a cavitation phenomenon in a pump are eliminated in the manufacturing of the chlorinated polyvinyl chloride resin, thereby manufacturing a chlorinated polyvinyl chloride resin excellent in all properties, such as whiteness, bulk density, and porosity, with high process efficiency while achieving an improvement in productivity.

No. of Pages : 38 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023888 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MACHINE LEARNING SYSTEMS AND METHODS FOR ASSESSMENT, HEALING PREDICTION, AND TREATMENT OF WOUNDS

(51) International classification	:A61B0005000000, G06T0007110000, G06T0007000000, A61B0005026000, G06T0007187000	(71) Name of Applicant : 1)SPECTRAL MD, INC. Address of Applicant :2515 McKinney Avenue, Suite 1000 Dallas, Texas 75201 U.S.A.
(31) Priority Document No	:62/780121	(72) Name of Inventor :
(32) Priority Date	:14/12/2018	1)FAN, Wensheng
(33) Name of priority country	:U.S.A.	2)DIMAIO, John Michael
(86) International Application No	:PCT/US2019/065820	3)THATCHER, Jeffrey E.
Filing Date	:11/12/2019	4)QUAN, Peiran
(87) International Publication No	:WO 2020/123724	5)YI, Faliu
(61) Patent of Addition to Application Number	:NA	6)PLANT, Kevin
Filing Date	:NA	7)BAXTER, Ronald
(62) Divisional to Application Number	:NA	8)MCCALL, Brian
Filing Date	:NA	9)GAO, Zhicun
		10)DWIGHT, Jason

(57) Abstract :

Machine learning systems and methods are disclosed for prediction of wound healing, such as for diabetic foot ulcers or other wounds, and for assessment implementations such as segmentation of images into wound regions and non-wound regions. Systems for assessing or predicting wound healing can include a light detection element configured to collect light of at least a first wavelength reflected from a tissue region including a wound, and one or more processors configured to generate an image based on a signal from the light detection element having pixels depicting the tissue region, determine reflectance intensity values for at least a subset of the pixels, determine one or more quantitative features of the subset of the plurality of pixels based on the reflectance intensity values, and generate a predicted or assessed healing parameter associated with the wound over a predetermined time interval.

No. of Pages : 83 No. of Claims : 45

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023891 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : FLUID TREATMENT MODULE

(51) International classification	:F21Y0115100000, C02F0001320000, A61N0005060000, F21V0008000000, F21V0029700000	(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	:10-2018-0129936	(72) Name of Inventor :
(32) Priority Date	:29/10/2018	1)LEE, Jae Ho
(33) Name of priority country	:Republic of Korea	2)CHOI, Jae Young
(86) International Application No	:PCT/KR2019/014173	3)JUNG, Woong Ki
Filing Date	:25/10/2019	4)HAN, Kyu Won
(87) International Publication No	:WO 2020/091318	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A fluid treatment module comprises: a pipe for providing a flow path through which a fluid moves, and having one or more inlets and one or more outlets; a light source module including a substrate and at least one light-emitting element provided on the front surface of the substrate to emit, into the pipe, light for treating the fluid; a reflector provided in the pipe, having a higher reflectivity with respect to the light than the pipe, and reflecting the light ejected from the light source module; and a heat radiation plate in contact with the rear surface of the substrate to discharge heat of the light source module. The pipe includes either multiple inlets, multiple outlets, or both, to control the moving speed and the moving direction of the fluid moving into the pipe. The heat radiation plate has a thermal conductivity larger than the thermal conductivity of the substrate.

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023898 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : HETEROCYCLIC COMPOUNDS AS BET INHIBITORS

(51) International classification :A61K0031401000,
A61K0045060000,
A61K0031551000,
C07D0451040000,
A61P0031180000

(31) Priority Document No :62/753022

(32) Priority Date :30/10/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/058952
Filing Date :30/10/2019

(87) International Publication No :WO 2020/092638

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

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

(71)**Name of Applicant :**
1)NUVATION BIO INC.
Address of Applicant :1500 Broadway, Ste 1401 New York,
New York 10036 U.S.A.

(72)**Name of Inventor :**
1)PHAM, Son Minh
2)CHAKRAVARTY, Sarvajit
3)KANKANALA, Jayakanth
4)CHEN, Jiyun
5)NAYAK, Anjan Kumar
6)BARDE, Anup

(57) Abstract :

Novel bromodomain and extraterminal domain (BET) inhibitors and to therapeutic methods of treating conditions and diseases using these novel BET inhibitors are provided.

No. of Pages : 354 No. of Claims : 29

(54) Title of the invention : DRINKING CUP

(51) International classification	:A47G0019220000, B65D0003060000, B65D0041040000, B65D0077280000, B65D0051240000
(31) Priority Document No	:2018904571
(32) Priority Date	:30/11/2018
(33) Name of priority country	:Australia
(86) International Application No	:PCT/AU2019/051293
Filing Date	:26/11/2019
(87) International Publication No	:WO 2020/107064
(61) 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.BOX FOR KIDS DEVELOPMENTS PTY LTD

Address of Applicant :Unit 5, 677 Springvale Road Mulgrave, Victoria 3170 Australia

(72)Name of Inventor :

1)JUNG, Mayer, Charles, William**2)TJERNBERG, Lisa, Edlund****3)AMATOURY, Sylvain, Jacques****4)HERMANS, Ty, Gerard****5)CHANDRASEKARAN, Navin, Chandrakanth**

(57) Abstract :

A drinking cup (10) comprising a container (11) and a detachable closure (12). The closure (12) having a connection end (25) for connection to the container (11) and the connection end (25) being open for receipt of liquid from within the container (11). The closure (12) having a closed end (13) opposite the connection end (25) and a drinking rim (17) formed at the peripheral edge of the closed end (13). The closure (12) having a side wall (14) extending between the connection end (25) and the closed end (13), and at least one opening (37) that facilitates the passage of liquid from within the container (11) to the drinking rim (17). A seal (15) supported by the closure (12) and extending around an outside surface of the side wall (14) and sealing the drinking rim (17) against the passage of liquid through the drinking rim (17). The seal (15) being flexible and being responsive to pressure to lift away from the drinking rim (17) to allow the passage of liquid through the drinking rim (17) for drinking from the cup (10).

No. of Pages : 22 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023901 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR CELL SELECTION AND RESELECTION

(51) International classification	:H04W0036000000, H04W0092200000, H04W0048200000, H04L0029080000, H04W0074080000	(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	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)NIU, Li
(33) Name of priority country	:NA	2)ZHAO, Yajun
(86) International Application No	:PCT/CN2019/070832	
Filing Date	:08/01/2019	
(87) International Publication No	:WO 2020/142896	
(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 generally to wireless communications. In one embodiment, a method performed by a communication device includes: receiving information from a first communication node; and decreasing a probability of selecting a second communication node, in communication node selection or reselection, in response to the information indicating a condition.

No. of Pages : 24 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023902 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : COMPOUNDS USEFUL IN HIV THERAPY

(51) International classification	:C07D0487040000, C07D0239280000, C07C0059540000, C07C0057620000, C07H0015260000	(71) Name of Applicant : 1)GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED Address of Applicant :980 Great West Road Brentford Middlesex TW89GS U.K.
(31) Priority Document No	:62/773563	2)VIIV HEALTHCARE COMPANY
(32) Priority Date	:30/11/2018	3)THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
(33) Name of priority country	:U.S.A.	(72) Name of Inventor :
(86) International Application No	:PCT/IB2019/060267	1)DE LA ROSA, Martha Alicia
Filing Date	:28/11/2019	2)DUNHAM, Richard M
(87) International Publication No	:WO 2020/110056	3)MARGOLIS, David
(61) Patent of Addition to Application Number	:NA	4)TAI, Vincent Wing-Fai
Filing Date	:NA	5)TANG, Jun
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to compounds of Formula (I), (Ia), (Ib), (II) or (III), salts thereof, pharmaceutical compositions thereof, as well as therapeutic methods of treatment and prevention.

No. of Pages : 274 No. of Claims : 54

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023903 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ADHERED/LAYERED CORE FOR STATOR AND ROTATING ELECTRICAL MACHINE

(51) International classification :C22C0038000000,
C22C0038060000,
C22C0038020000,
C22C0038040000,
C21D0008120000

(31) Priority Document No :2018-235865

(32) Priority Date :17/12/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/049257
Filing Date :17/12/2019

(87) International Publication No :WO 2020/129921

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

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

(71)Name of Applicant :
1)NIPPON STEEL CORPORATION
Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku,
Tokyo 1008071 Japan

(72)Name of Inventor :
1)TAKEDA Kazutoshi
2)HIRAYAMA Ryu

(57) Abstract :

Provided is an adhered/layered core for a stator. A chemical component of each of electromagnetic steel sheets contains 2.5-3.9% by mass of Si. The average tensile modulus of elasticity of each of adhesion parts is 2500-5000 MPa. If the average sheet thickness of each electromagnetic steel sheet is t_1 in mm units, the average thickness of each adhesion part is t_2 in μm units, and the average value of yield strength of each electromagnetic steel sheet is YP in MPa units, at least one of condition A satisfying equations 1, 2, and 3 below and condition B satisfying equations 3, 4, and 5 below is satisfied. (Equation 1): $50 \times t_1 - 12 = t_2 = 50 \times t_1 - 6$ (Equation 2): $0.15 = t_1 = 0.27$ (Equation 3): $0.5 = t_2 = 2.5$ (Equation 4): $0.025 \times YP - 12 = t_2 = 0.025 \times YP - 8$ (Equation 5): $380 = YP = 540$

No. of Pages : 32 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023914 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : HYDROFORMYLATION PROCESS

(51) International classification :C07C0045500000,
C10L0001080000,
C12P0019040000,
C07C0029160000,
C08G0018420000

(31) Priority Document No :62/772681
(32) Priority Date :29/11/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/061509
Filing Date :14/11/2019
(87) International Publication No :WO 2020/112373
(61) 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 TECHNOLOGY INVESTMENTS LLC
Address of Applicant :2020 Dow Center Midland, Michigan
48674 U.S.A.
(72)**Name of Inventor :**
1)BRAMMER, Michael A.
2)GILES, Jason F.
3)MILLER, Glenn A.

(57) Abstract :

Embodiments of the present invention are directed to processes to improve rhodium accountability in continuous liquid recycle hydroformylation processes. In some embodiments, a process comprises contacting in a reaction zone reactants comprising mixed C8 olefins or mixed C9 olefins, hydrogen, and carbon monoxide in the presence of a catalyst comprising rhodium and an organomonophosphite ligand to form a reaction fluid, wherein the reaction fluid is introduced to a strip gas vaporizer to produce a product stream and a vaporizer tails stream, and wherein the vaporizer tails stream comprises at least 1.2 percent by weight C8 internal olefins or at least 1.3 percent by weight C9 internal olefins.

No. of Pages : 35 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023915 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SELECTIVE PLATING OF THREE DIMENSIONAL SURFACES TO PRODUCE DECORATIVE AND FUNCTIONAL EFFECTS

(51) International classification	:H05K0003180000, B29C0043220000, B82Y0010000000, B32B0027360000, C08L0069000000
(31) Priority Document No	:16/201092
(32) Priority Date	:27/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/052869
Filing Date	:25/09/2019
(87) International Publication No	:WO 2020/112224
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)MACDERMID ENTHONE INC.
Address of Applicant :245 Freight Street Waterbury, CT
06702 U.S.A.
(72)**Name of Inventor :**
1)BRAY, Paul, A.
2)HERBERT, Martin, V.
3)PARSONS, Keith, P.
4)WARWICK, Peter, A.

(57) Abstract :

A method of creating a selectively plated three-dimensional thermoplastic part. The method includes the steps of: a) providing a film of uncured polycarbonate film having a hardcoated layer on a first surface thereof; b) selectively catalyzing the polycarbonate film by depositing a catalyst in a desired pattern on the first surface of the polycarbonate film; c) thermoforming the polycarbonate film to form a three-dimensional polycarbonate film; d) UV- curing the hardcoated polycarbonate film by irradiating the film with UV rays; e) molding the hardcoated polycarbonate film to produce a three-dimensional molded part comprising the hardcoated polycarbonate film; f) activating the selectively catalyzed hardcoated polycarbonate film; and g) plating a metal layer on the catalyzed portions of the hardcoated polycarbonate film, wherein the plated metal only deposits on the catalyzed portions of the hardcoated polycarbonate film.

No. of Pages : 14 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023917 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD AND SYSTEM FOR AUDIO-VISUAL LIVE CONTENT DELIVERY

(51) International classification	:H04L0029060000, H04L0029080000, H04L0012180000, H04N0021218700, H04N0021640500	(71) Name of Applicant : 1)BROADPEAK Address of Applicant :15 rue Claude Chappe Zone des Champs Blancs 35510 Cesson Sévigné France
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BLÉ, Sophie
(33) Name of priority country	:NA	2)BREBION, Rémy
(86) International Application No	:PCT/IB2018/001488	3)RENARD, Nicolas
Filing Date	:28/11/2018	4)MARTIN, Jean-François
(87) International Publication No	:WO 2020/109834	5)BOUTEAU, Pierre-Olivier
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An audio-visual live content delivery system includes: a client (110) having access to a provider network (102) via a gateway (140); an audio-visual live content delivering equipment (120) comprising a multicaster for transmitting audio-visual live contents in multicast form via the provider network (102); a de-multicaster (150) being able to perform a conversion in unicast form of audio-visual live contents received in multicast form from the multicaster; and a controller (130) managing routing of requests to get audio-visual live contents. The client (110) performs a discovery procedure aiming at receiving information on potential presence and availability of the de-multicaster (150). When the client (110) intends receiving a targeted audio-visual live content, the client (110) sends to the controller (130) a request providing indication of presence and availability, or not, of the de-multicaster (150). Then the controller (130) decides how redirecting the client (110) to fulfill the request, according at least to the indication of presence and availability, or not, of the de-multicaster (150).

No. of Pages : 28 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023918 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : NON NEWTONIAN BALLPOINT PEN INK COMPRISING CELLULOSE NANOFIBERS

(51) International classification	:C09D0011160000, A61K0009060000, H01M0004620000, B43K0007080000, B43K0007020000	(71) Name of Applicant : 1)SOCIETE BIC Address of Applicant :14 rue Jeanne d'Asnières 92110 CLICHY France
(31) Priority Document No	:19305099.4	(72) Name of Inventor :
(32) Priority Date	:25/01/2019	1)CAFFIER, Guillaume
(33) Name of priority country	:EPO	2)LIU, Wing Yam
(86) International Application No	:PCT/EP2020/051830	
Filing Date	:24/01/2020	
(87) International Publication No	:WO 2020/152357	
(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 concerns non-aqueous gel writing ink comprising an organic solvent, a coloring agent and a gelling agent, wherein the gelling agent comprises non-oxidized cellulose nanofibers. It also concerns the use of non-oxidized cellulose nanofibers as gelling agent in a non-aqueous gel writing ink. It finally concerns a writing instrument containing the ink according to the present invention.

No. of Pages : 20 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023919 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : HYBRID ADAPTIVE NETWORKS

(51) International classification	:H04B0007185000, H04L0012240000, H04W0048180000, H04W0088060000, H04L0012701000
(31) Priority Document No	:62/772402
(32) Priority Date	:28/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/063438
Filing Date	:26/11/2019
(87) International Publication No	:WO 2020/112897
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)VIASAT, INC.

Address of Applicant :Patent Department 6155 El Camino
Real Carlsbad, California 92009 U.S.A.

(72)Name of Inventor :

1)MILLER, Craig A.

2)CALIGIURI, Meredith L.

3)VANDERMEULEN, Richard A.

(57) Abstract :

Described herein are hybrid adaptive networks (HAN) that enable the use of multiple, independent communications networks as a unified communications system. The disclosed HAN includes multiple communications networks that user terminals can simultaneously access. The disclosed HAN enables a user terminal to seamlessly roam across multiple communications networks. The disclosed HAN can increase the capabilities and resilience of user terminals by providing simultaneous access to multiple communications networks. For example, these communications networks may span multiple orbital regions, operate over multiple frequency bands, provide independent terrestrial infrastructure, and/or feature different network management and cyber defense implementations thereby providing inherent diversity and removing single points of failure and/or targets for attack.

No. of Pages : 37 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023926 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHODS AND COMBINATIONS FOR TREATMENT AND T CELL MODULATION

(51) International classification	:A61K0035170000, A61P0035000000, C12N0005078300, A61K0031519000, C07K0014705000	(71) Name of Applicant : 1)JUNO THERAPEUTICS, INC. Address of Applicant :400 Dexter Ave. N Suite 1200 Seattle, Washington 98109 U.S.A.
(31) Priority Document No	:62/757755	(72) Name of Inventor :
(32) Priority Date	:08/11/2018	1)HASSKARL, Jens
(33) Name of priority country	:U.S.A.	2)FRANKEL, Stanley R.
(86) International Application No	:PCT/US2019/060367	3)PORTS, Michael
Filing Date	:07/11/2019	4)POURDEHNAD, Michael
(87) International Publication No	:WO 2020/097403	5)JESSUP, Heidi
(61) Patent of Addition to Application Number	:NA	6)JIANG, Yue
Filing Date	:NA	7)QIN, Jim Shi Xiang
(62) Divisional to Application Number	:NA	8)SONI, Neha
Filing Date	:NA	9)WORKS, Melissa

(57) Abstract :

The present disclosure relates in some aspects to methods, compositions and uses involving immunotherapies, such as adoptive cell therapy, e.g., T cell therapy, and an immunomodulatory compound, such as a structural or functional analog or derivative of thalidomide and/or an inhibitor of E3-ubiquitin ligase. The provided methods, compositions and uses include those for combination therapies involving the administration or use of one or more immunomodulatory compounds in conjunction with a T cell therapy, such as a genetically engineered T cell therapy involving cells engineered with a recombinant receptor, such as chimeric antigen receptor (CAR)-expressing T cells. Also provided are compositions, methods of administration to subjects, articles of manufacture and kits for use in the methods. In some aspects, features of the methods and cells provide for increased or improved activity, efficacy, persistence, expansion and/or proliferation of T cells for adoptive cell therapy or endogenous T cells recruited by immunotherapeutic agents.

No. of Pages : 307 No. of Claims : 189

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023928 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MIXTURES AND COMPOSITIONS COMPRISING 5-FLUORO-4-IMINO-3- METHYL-1-TOSYL-3,4-DIHYDROPYRIMIDIN-2-ONE, AND METHODS OF USE THEREOF

(51) International classification	:C07D0495040000, C11D0003370000, A61K0009000000, C08L0071020000, C08K0005060000	(71) Name of Applicant : 1)ADAMA MAKHTESHIM LTD. Address of Applicant :P.O. BOX 60 8410001 Beer Sheva Israel
(31) Priority Document No	:62/755866	(72) Name of Inventor :
(32) Priority Date	:05/11/2018	1)SHABTAI, Sami
(33) Name of priority country	:U.S.A.	2)SHEFFER, Noam
(86) International Application No	:PCT/IB2019/059456	3)LERNER YARDENI, Jenny
Filing Date	:04/11/2019	4)SLOAN, James
(87) International Publication No	:WO 2020/095181	
(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 stable, liquid compositions comprising (a) a fungicidally effective amount of a compound of Formula I and (b) a liquid carrier. The present invention also provides mixtures and compositions comprising (a) a fungicidally effective amount of a compound of Formula I and (b) at least one adjuvant selected from the group consisting of: (i) polyalkylene oxide alkyl ether; (ii) siloxane polyalkyleneoxide copolymer; (iii) esters of fatty acid; (iv) vinylpyrrolidones and derivatives thereof; and (v) sugar-based surfactants. The present invention also provides methods of use of the mixtures and compositions disclosed herein and processes of preparing the mixtures and compositions disclosed herein.

No. of Pages : 126 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023929 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : DEVICE AND METHOD FOR MONITORING THE LIFETIME OF A HYDRAULIC APPARATUS OF AN AIRCRAFT

(51) International classification	:G01M0005000000, G06F0030130000, G01L0001260000, B66C0023900000, G06F0017100000	(71) Name of Applicant : 1)SAFRAN AIRCRAFT ENGINES Address of Applicant :2 boulevard du Général Martial Valin 75015 PARIS France
(31) Priority Document No	:1860113	(72) Name of Inventor :
(32) Priority Date	:31/10/2018	1)ELBAZ, Ruben Abraham
(33) Name of priority country	:France	2)GUILLOU, Lancelot
(86) International Application No	:PCT/FR2019/052566	3)FABBRO, Nicolas Andrea
Filing Date	:29/10/2019	
(87) International Publication No	:WO 2020/089555	
(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 device for monitoring the lifetime of at least one hydraulic apparatus of an aircraft that is subject to variations in hydraulic pressure during flight, comprising an interface for receiving measurement data which are representative of hydraulic pressure (P). The invention is characterised in that the device comprises a processing device, comprising a means for detecting a pressure (P) load (SOLLEND) of a damaging nature, which load is defined by the fact that the pressure (P) comprises a pressure increase (PAUG) that is greater than a predetermined damage threshold (SP), followed by a pressure decrease (PDIM) that is greater than the threshold (SP), a means for calculating a pressure variation magnitude that is equal to the maximum increase (PAUG) and the maximum decrease (PDIM), a means for projecting the magnitude onto a decreasing curve or straight line of a damage model in order to determine the permissible number of loads corresponding to the magnitude, a means for calculating a potential damage ratio that is equal to a number of reference loads divided by the permissible number, a means for increasing a count of accumulated ratios by said ratio.

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023960 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : REACTOR AND PROCESS FOR GASIFYING AND/OR MELTING OF FEED MATERIALS

(51) International classification	:C10J0003260000, F23G0005240000, F23G0005027000, C21B0013000000, C10J0003660000	(71) Name of Applicant : 1)KBI INVEST & MANAGEMENT AG Address of Applicant :Dorfstrasse 12 8916 Jonen Switzerland
(31) Priority Document No	:18208810.4	(72) Name of Inventor : 1)WEGNER, André
(32) Priority Date	:28/11/2018	
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2019/082807	
Filing Date	:27/11/2019	
(87) International Publication No	:WO 2020/109425	
(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 reactor (100) for the gasifying and/or melting of feed materials. The reactor comprises: a co-current section (110), comprising a plenum section (111), comprising a feed section with a sluice (112), wherein feed materials are introduced into the reactor (100) from above via the feed section, a buffer section (113), a pre-treatment section (114), which adjoins a bottom of the buffer section (113) to create a cross-sectional enlargement, and an intermediate section (115) adjoining the pre-treatment section, an upper oxidation section (116) adjoining a bottom of the intermediate section and comprising tuyeres (117), and an upper reduction section (118) adjoining a bottom of the upper oxidation section (116), a gas outlet section (120) comprising at least one gas outlet (121), and a countercurrent section (130) comprising a conical lower reduction section (138) adjoining the gas outlet section (120) and a conical lower oxidation section (136) adjoining the lower reduction section (138) comprising at least one tuyere (137) and at least one tapping (131).

No. of Pages : 40 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023961 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SPEAKER COMBINED WITH LIGHTING APPARATUS

(51) International classification	:F21V0033000000, H04R0001020000, G10L0021013000, H04N0009820000, H05B0035000000	(71) Name of Applicant : 1)RNS CO.,LTD Address of Applicant :#7, Coworking-Space, 202dong 10th Fl., Chunyee Technopark II, 18, Bucheon-ro 198beon-gi Wonmi- gu, Bucheon-si Gyeonggi-do 14557 Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KIM, Jun Sung
(33) Name of priority country	:NA	
(86) International Application No	:PCT/KR2018/014762	
Filing Date	:28/11/2018	
(87) International Publication No	:WO 2020/111300	
(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 speaker combined with a lighting apparatus. A speaker combined with a lighting apparatus according to the present invention is an apparatus which not only can reproduce a sound source through a speaker by being connected to an external apparatus, but also function as a lighting apparatus, thereby inspiring the atmosphere at event halls, parties, and clubs.

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023977 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AUTO-IRRIGATION SYSTEM WITH ANTIMICROBIAL EFFECT

(51) International classification :A01G0027000000,
A01G0013020000,
A01G0029000000,
A01G0027040000,
A01G0025020000
(31) Priority Document No :002236-2018/DIN
(32) Priority Date :29/10/2018
(33) Name of priority country :PERU
(86) International Application No :PCT/PE2019/000016
Filing Date :22/10/2019
(87) International Publication No :WO 2020/091614
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)PEDROZA SANDOVAL, Elar Pio
Address of Applicant :Jr. Raúl Porras Barrenechea 2200,
Chacra Ríos Sur Lima, Lima 01 PERU
(72)Name of Inventor :
1)PEDROZA SANDOVAL, Elar Pio

(57) Abstract :

The invention relates to an irrigation system with an antimicrobial effect, in particular one that can be supplied automatically and can also be manually refilled with water. The system is characterised by comprising a doughnut-shaped reservoir comprising holes in the upper part thereof for the inlet of water collected from the environment, by means of a mist catcher, which has a channel at the base for guiding the water to the supply holes of the reservoir, as well as comprising regulating valves for supplying the water from the reservoir to the ground to be irrigated around the plant. This constant supply is carried out by means of a special strand, which permits the water to flow to the end part of the strand. It is designed to prevent losses via evaporation, and the reservoir and a film for covering the area around the stem are formed by a material based on Cu nanoparticles, which prevents microbial growth. The device has different dimensions and is adjusted to the irrigation and water demand of the different plants or vegetable varieties.

No. of Pages : 13 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023978 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : MIXING DEVICE

(51) International classification :A61M0005240000,
F02D0019060000,
A61M0005190000,
B01F0005040000,
F02M0021020000
(31) Priority Document No :10 2019 200 823.2
(32) Priority Date :23/01/2019
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2020/051587
Filing Date :23/01/2020
(87) International Publication No :WO 2020/152250
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)RAMPF HOLDING GMBH & CO. KG
Address of Applicant :Albstraße 37 72661 Grafenberg
Germany
(72)Name of Inventor :
1)RIEDLINGER, Manfred

(57) Abstract :

The invention relates to a mixing device (10) for mixing a first liquid and a second liquid with a gas, comprising a mixing chamber (16) and a gas injection device (36), wherein the gas injection device (36) has a gas source (40) and a metering unit (42) which is designed to limit the gas provided by the gas source (40) to a predetermined flow rate, and which is in contact with the mixing chamber (16) on the gas outlet side, wherein the gas outlet side of the metering unit (42) has an elongated gap (32) via which the gas passes out of the metering unit (42) into the mixing chamber (16).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023986 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHODS OF TREATMENT USING ANTI-CD123 IMMUNOCONJUGATES

(51) International classification	:C07K0016280000, A61K0039000000, A61K0009000000, A61K0047680000, A61K0031519000	(71) Name of Applicant : 1)IMMUNOGEN, INC. Address of Applicant :830 Winter Street Waltham, Massachusetts 02451 U.S.A.
(31) Priority Document No	:62/752832	(72) Name of Inventor :
(32) Priority Date	:30/10/2018	1)ZWEIDLER-MCKAY, Patrick
(33) Name of priority country	:U.S.A.	2)CULM-MERDEK, Kerry
(86) International Application No	:PCT/US2019/058824	3)SLOSS, Callum
Filing Date	:30/10/2019	4)ROMANELLI, Angela
(87) International Publication No	:WO 2020/092533	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods of administering immunoconjugates that bind to CD123 are provided. The methods comprise administering an anti-CD123 immunoconjugate (e.g., IMG632) to a subject in need thereof, for example, a patient with a hematologic malignancy, at a therapeutically effective dose regimen that results in treatment of the hematologic malignancy.

No. of Pages : 51 No. of Claims : 56

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023987 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PLANT EQUIPMENT CONSTRUCTION METHOD AND PLANT CONFIGURATION MODULE

(51) International classification :F27D0001000000,
E04B0001348000,
A01G0009020000,
G06T0001200000,
H01M0002100000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/JP2019/021413
Filing Date :29/05/2019
(87) International Publication No :WO 2020/240745
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)IMAC ENGINEERING CO., LTD.

Address of Applicant :21-7, Nihonbashikabutocho, Chuo-ku,
Tokyo 103-0026, Japan Japan

(72)Name of Inventor :

1)IZUMI Yoshitaka

(57) Abstract :

[Problem] To make it possible to ensure space for pipes and space for providing passageways simply by assembling plant configuration modules at a plant building site, without affecting the arrangement of plant elements arranged in the plant configuration modules. [Solution] A plant configuration module is created that comprises: a frame that includes a lower frame member which is rectangular, an upper frame member of the same shape as the lower frame member, and a column member which connects the upper frame member and the lower frame member; and a plant element that is disposed inside the frame. The column member has formed thereon a protruding column part which protrudes from either the lower frame member or the upper frame member, or from both. A flange plate for coupling is provided at a tip section of the protruding column part. At a plant construction site, the plant configuration modules are stacked in a predetermined number of levels, two overlapping flange parts of the stacked plant configuration modules are connected, and horizontally adjacent plant configuration modules are connected by a bond beam.

No. of Pages : 37 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117023997 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : FLOSSING TOOL

(51) International classification	:A61C0015040000, G11C0016040000, E21B0007060000, E21B0043300000, F41B0005100000	(71) Name of Applicant : 1)ANDERSEN, Leonhardt Address of Applicant :417 West Front Street Erie, PA 16507 U.S.A. 2)MOROSKY, William
(31) Priority Document No	:62/772783	(72) Name of Inventor :
(32) Priority Date	:29/11/2018	1)ANDERSEN, Leonhardt
(33) Name of priority country	:U.S.A.	2)MOROSKY, William
(86) International Application No	:PCT/US2019/063870	
Filing Date	:29/11/2019	
(87) International Publication No	:WO 2020/113177	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An adjustable flossing tool includes a tool body having a major tool axis and a headstock. At least one string positioner having first and second positioner arms is positioned on the headstock. A floss string extends from the first positioner arm to the second positioner arm of each string positioner. Adjustment can be made to position the first string in a first string position in parallel to or at an angle to the major tool axis. Adjustment can also be made to position the first string to a second string position, the second string position being different from the first string position relative to the major tool axis.

No. of Pages : 12 No. of Claims : 56

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117024007 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : ORAL CARE AGENT DISPENSING SYSTEM

(51) International classification	:A46B0011000000, A61C0019060000, A61Q0011000000, A46B0009040000, A61K0008220000	(71) Name of Applicant : 1)COLGATE-PALMOLIVE COMPANY Address of Applicant :300 Park Avenue New York, New York 10022 U.S.A.
(31) Priority Document No	:16/221533	(72) Name of Inventor :
(32) Priority Date	:16/12/2018	1)SPEICHER, Erin
(33) Name of priority country	:U.S.A.	2)DAVIES-SMITH, Leighton
(86) International Application No	:PCT/US2019/064358	
Filing Date	:04/12/2019	
(87) International Publication No	:WO 2020/131371	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An oral care implement for dispensing an oral care agent includes a housing, reservoir therein containing an oral care fluid, and an electrical circuit comprising first and second electrodes connected to an onboard power source. Each electrode is in contact with the oral care fluid in the housing. An actuator, operably coupled to the power source, is configured to both selectively energize the circuit and activate dispensing of the oral care fluid. An electrical charge is applied to the oral care fluid by activating the actuator when dispensing the oral care fluid. When the fluid comprises a peroxide based tooth whitening agent, the dispensed fluid pH is increased by the electrical charge which improves the efficacy of the whitener. In one embodiment, the implement is a modular system including a powered base unit and one or more interchangeable cartridges each having a reservoir containing an oral care fluid.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117024013 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHODS AND APPARATUS FOR USER PLANE FUNCTION ANALYTICS

(51) International classification	:H04L0012721000, H04L0012240000, H04L0012801000, H04L0012260000, H04L0012851000	(71) Name of Applicant : 1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) Address of Applicant :164 83 Stockholm Sweden
(31) Priority Document No	:18382954.8	(72) Name of Inventor :
(32) Priority Date	:20/12/2018	1)PUENTE PESTAÑA, Miguel Angel
(33) Name of priority country	:EPO	2)JIMENEZ CORDON, Carlos
(86) International Application No	:PCT/EP2019/052055	3)MUÑOZ DE LA TORRE ALONSO, Miguel Angel
Filing Date	:29/01/2019	
(87) International Publication No	:WO 2020/126108	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments described herein relate to methods and apparatus for configuring UPF analytics in a service based architecture. The method in an analytics controller comprises: obtaining an indication of an analytics policy rule, APR, wherein the APR indicates analytics to be carried out by a user plane function node; translating the APR into at least one rule setting a condition for reporting analytics to a network data analytics function, NWDAF, or for forwarding packets to an analytics engine, wherein the rule applies to one of: a particular user and particular traffic type; a particular user for all traffic types; and a particular user plane function node; and transmitting the at least one rule to the user plane function node.

No. of Pages : 23 No. of Claims : 54

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117024014 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : COMBINATION COMPOSITIONS COMPRISING A BETA-LACTAMASE INHIBITOR AND USES THEREOF

(51) International classification :C07F0005020000,
C12Q0001180000,
C12Q0001340000,
A61K0031545000,
A61K0031439000

(31) Priority Document No :62/773063
(32) Priority Date :29/11/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/062798
Filing Date :22/11/2019
(87) International Publication No :WO 2020/112542
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)VENATORX PHARMACEUTICALS, INC.
Address of Applicant :30 Spring Mill Drive Malvern,
Pennsylvania 19355 U.S.A.

(72)Name of Inventor :
1)BURNS, Christopher J.
2)DAIGLE, Denis
3)HAMRICK, Jodie
4)PEVEAR, Daniel C.
5)TROUT, Robert E. Lee
6)XERRI, Luigi
7)HENKEL, Timothy
8)MYERS, Cullen L.
9)CONDON, Stephen M.
10)DRAGER, Anthony
11)ROSEN, Lawrence

(57) Abstract :

The present invention relates to pharmaceutical compositions containing boron-containing compounds and their use as inhibitors of beta-lactamase enzymes and as antibacterial agents in combination with a beta-lactam antibiotic.

No. of Pages : 103 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117024019 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR OPERATING A PALLET PICK PUT SYSTEM FOR TRANSPORTING OBJECTS

(51) International classification	:G06Q0010080000, B65G0047900000, B61L0003120000, H04W0004020000, B65G0047140000	(71) Name of Applicant : 1)GREY ORANGE PTE, LTD. Address of Applicant :20 Bendemeer Road #3-12 Cyberhub Building Singapore 339914 Singapore
(31) Priority Document No	:1817706.3	(72) Name of Inventor :
(32) Priority Date	:30/10/2018	1)KUMAR, Mohit
(33) Name of priority country	:U.K.	2)PANCHOLI, Nitin
(86) International Application No	:PCT/IB2019/059293	3)JHA, Anuj R.
Filing Date	:30/10/2019	
(87) International Publication No	:WO 2020/089805	
(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 transporting objects using a pallet pick put system (102) is disclosed. The method includes placing an Object Carrying Unit (OCU) (116) at a first location by a bot (126). The bot (126) is designed to move the Object Carrying Unit (OCU) (116) and receives an address of the first location. Further, the Object Carrying Unit (OCU) (116) is clamped by a clamping unit (128) to restrict movement of the Object Carrying Unit (OCU) (116). A pallet (114) and an object placed over the pallet (114) are lifted using a mechanical equipment (118) designed for transporting objects. Further, the pallet (114) and the mechanical equipment (118) are aligned by an alignment unit (122). Further, the pallet (114) and the object are transferred on the Object Carrying Unit (OCU) (116). Thereafter, the bot (126) is instructed to carry the Object Carrying Unit (OCU) (116) upon loading to a second location after the Object Carrying Unit (OCU) (116) is released by the clamping unit (128).

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117024023 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : NON-POWER OF TWO MEMORY CONFIGURATION

(51) International classification	:G06F0013160000, G11C0008060000, G06F0012060000, G06F0012089700, G06F0001329600	(71) Name of Applicant : 1)ADVANCED MICRO DEVICES, INC. Address of Applicant :2485 Augustine Drive Santa Clara, California 95054 U.S.A.
(31) Priority Document No	:16/208139	(72) Name of Inventor :
(32) Priority Date	:03/12/2018	1)PILLAI, Pazhani
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/064017	
Filing Date	:02/12/2019	
(87) International Publication No	:WO 2020/117678	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems, apparatuses, and methods for managing a non-power of two memory configuration are disclosed. A computing system includes at least one or more clients, a control unit, and a memory subsystem with a non-power of two number of active memory channels. The control unit reduces a ratio of the number of active memory channels over the total number of physical memory channels to a ratio of a first number to a second number. If a first subset of physical address bits of a received memory request are greater than or equal to the first number, the control unit calculates a third number which is equal to a second subset of physical address bits modulo the first number and the control unit uses a concatenation of the third number and a third subset of physical address bits to select a memory channel for issuing the received memory request.

No. of Pages : 13 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117024025 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : USER EQUIPMENT, RADIO NETWORK NODE AND METHODS FOR MANAGING RECOVERY PROCEDURES THEREIN

(51) International classification	:H04W0072080000, H04L0012741000, H04W0004400000, H04W0072040000, C21D0006000000	(71) Name of Applicant : 1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) Address of Applicant :164 83 Stockholm Sweden
(31) Priority Document No	:62/804791	(72) Name of Inventor :
(32) Priority Date	:13/02/2019	1)BELLESCHI, Marco
(33) Name of priority country	:U.S.A.	2)KARLSSON, Robert
(86) International Application No	:PCT/SE2020/050133	3)CHRISTOFFERSSON, Jan
Filing Date	:11/02/2020	4)RUNE, Johan
(87) International Publication No	:WO 2020/167219	5)WANG, Min
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments herein relate to e.g. a method performed by a user equipment, UE, for handling communication in a wireless communication network. The UE (10) triggers a recovery procedure upon fulfilling one or more conditions, wherein at least one condition, of the one or more conditions, is related to a QoS requirement, or a level of a QoS requirement of a service used by the UE.

No. of Pages : 48 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117024026 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : 3-(1,2,3,6-TETRAHYDROPYRIDIN-2-YL)PYRIDINE GLUTARATE OR A PHARMACEUTICALLY ACCEPTABLE SOLVATE THEREOF

(51) International classification	:A61K0031122000, A61K0031550000, A61K0031704800, C07D0491220000, A61K0047380000	(71) Name of Applicant : 1)PHILIP MORRIS PRODUCTS S.A. Address of Applicant :Quai Jeanrenaud 3 2000 Neuchtel Switzerland
(31) Priority Document No	:18213200.1	(72) Name of Inventor :
(32) Priority Date	:17/12/2018	1)MAZUROV, Anatoly
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2019/085598	
Filing Date	:17/12/2019	
(87) International Publication No	:WO 2020/127225	
(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 3 -(1,2,3,6-tetrahydropyridin-2-yl)pyridine glutarate or a pharmaceutically acceptable solvate thereof, to a crystal thereof and to a polymorph of this crystal It further relates to the medicinal use of each of these, in particular in the treatment or prophylaxis of substance addiction or inflammation

No. of Pages : 47 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117024030 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : SLIDING CORRECTION METHOD AND APPARATUS FOR SLIDING COMPONENT

(51) International classification :H04N0005232000,
G06F0003041000,
F16C0033200000,
G01R0033070000,
G01B0005280000

(31) Priority Document No :201811457561.9

(32) Priority Date :30/11/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/105423
Filing Date :11/09/2019

(87) International Publication No :WO 2020/108006

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

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

(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

(72)Name of Inventor :

**1)ZHONG, Peng
2)ZHENG, Jianrong**

(57) Abstract :

The present invention provides a sliding correction method and apparatus for a sliding component. Said method comprises: during the sliding of a sliding component, acquiring a first detection signal value, sent by a first Hall element, corresponding to one or more first calibration positions reached, and a second detection signal value sent by a second Hall element; comparing the first detection signal value from each of the first calibration positions with a preset first reference signal value, and comparing the second detection signal value with a preset second reference signal value; and if the number of times that the comparison result belongs to a preset abnormal range reaches a preset threshold, correcting the first reference signal value according to the first detection signal value(s), and correcting the second reference signal value according to the second detection signal value. Thus, the present invention reduces the influence of a related component on the screen proportion by means of a sliding component, and improves the stability of the sliding component and the sliding service quality.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117024032 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND APPARATUS THEREFOR

(51) International classification	:H04N0019176000, H04N0019119000, H04N0019105000, H04N0019503000, H04N0019910000	(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
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(32) Priority Date	:08/11/2018	1)LEE, Bae Keun
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:PCT/KR2019/015096	
Filing Date	:07/11/2019	
(87) International Publication No	:WO 2020/096388	
(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 decoding an image, according to the present invention, comprises the steps of: determining whether a coding block is divided into a first prediction unit and a second prediction unit; determining a partition type of the coding block when determining that the coding block is divided; deriving first motion information about a first prediction unit and second motion information about a second prediction unit within the coding block; and acquiring a prediction sample within the coding block on the basis of the first motion information and the second motion information.

No. of Pages : 120 No. of Claims : 10

(54) Title of the invention : LIGHT-EMITTING DIODE

(51) International classification	:H01L0027150000, H01L0033100000, H01L0033380000, H01L0033620000, H01L0033360000
(31) Priority Document No	:62/754733
(32) Priority Date	:02/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/KR2019/014710
Filing Date	:01/11/2019
(87) International Publication No	:WO 2020/091507
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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5)CHAE, Jong Hyeon

(57) Abstract :

A light-emitting diode is provided. A light-emitting diode comprises: a first light-emitting unit comprising a 1-1 type semiconductor layer, a first active layer and a 1-2 type semiconductor layer; a second light-emitting unit disposed on the first light-emitting unit and comprising a 2-1 type semiconductor layer, a second active layer and a 2-2 type semiconductor layer; a third light-emitting unit disposed on the second light-emitting unit and comprising a 3-1 type semiconductor layer, a third active layer and a 3-2 type semiconductor layer; a first conductive pattern comprising a first part, which is disposed inside the second light-emitting unit and is electrically connected to at least one of the 1-1 type, 1-2 type, 2-1 type and 2-2 type semiconductor layers, and a second part which extends from the first part to one surface of the second light-emitting unit between the second and third light-emitting units; and a second conductive pattern which is disposed on the third light-emitting unit and is electrically connected to the first conductive pattern, wherein the second conductive pattern comprises an area which at least partly overlaps the second part of the first conductive pattern.

No. of Pages : 43 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117024039 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : METHOD AND APPARATUS FOR PERFORMING A REAL-TIME COLORIMETRIC NUCLEIC ACID AMPLIFICATION ASSAY

(51) International classification	:B01L0007000000, C12Q0001684400, G01N0021030000, G01N0031000000, B01J0019000000	(71) Name of Applicant : 1)FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS Address of Applicant :100 Nikolaou Plastira str. Vassilika Vouton 70013 Heraklion, Crete Greece
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(32) Priority Date	:31/10/2018	1)PAPADAKIS, Georgios
(33) Name of priority country	:EPO	2)GIZELI, Electra
(86) International Application No	:PCT/EP2019/079845	3)PANTAZIS, Alexandros
Filing Date	:31/10/2019	
(87) International Publication No	:WO 2020/089399	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Method and apparatus for performing a real-time colorimetric nucleic acid amplification assay wherein the heating of the liquid sample comprised in a reaction tube is carried out by bringing the bottom of the tube in thermal contact with a heating element. The real-time monitoring of the content of the reaction tube is carried out visually through the side wall of the tube, preferably by using a camera.

No. of Pages : 14 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117024087 A

(19) INDIA

(22) Date of filing of Application :30/05/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : PROCESS FOR PRODUCING GENETICALLY ENGINEERED T CELLS

(51) International classification	:G01N0033569000, C12N0005000000, C12N0005078300, C07K0016280000, C07K0014725000	(71) Name of Applicant : 1)JUNO THERAPEUTICS, INC. Address of Applicant :400 Dexter Ave. N Suite 1200 Seattle, Washington 98109 U.S.A.
(31) Priority Document No	:62/756571	(72) Name of Inventor :
(32) Priority Date	:06/11/2018	1)COOPER, Sara
(33) Name of priority country	:U.S.A.	2)COSSETTE, Daniel
(86) International Application No	:PCT/US2019/059946	3)LARSON, Ryan
Filing Date	:05/11/2019	4)TEOH, Jeffrey
(87) International Publication No	:WO 2020/097132	
(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 cell populations enriched for CD57 negative T cells, or depleted for CD57 positive cells, and methods for stimulating, cultivating, expanding, and/or genetically engineering cell populations enriched for CD57- T cells or depleted for CD57+ T cells. Also included are methods for generating, isolating, enriching, or selecting CD57- T cells or depleting CD57+ cells, such as by negative selection.

No. of Pages : 356 No. of Claims : 154

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