

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 04/2021
ISSUE NO. 04/2021

शुक्रवार
FRIDAY

दिनांक: 22/01/2021
DATE: 22/01/2021

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

22ND JANUARY, 2021

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**THE PATENT OFFICE
KOLKATA, 22/01/2021**

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

www.patentoffice.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 22/01/2021

• 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>
www.patentoffice.nic.in

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

SPECIAL NOTICE

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

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

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

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

SPECIAL NOTICE

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

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

SPECIAL NOTICE

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



बौद्धिक सम्पदा भारत
एकरस/अभिकल्प/व्यापार चिह्न
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भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

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

संख्या/No. : H-45011/1/2004-Admn.

दिनांक/Date: 21-12-2021

REVISED LIST OF HOLIDAYS FOR THE YEAR - 2021

The following days have been declared as Holidays to be observed by the Patent Office Kolkata during the year 2021.

Sl. No.	Holidays & Connected Festivals	Date	Days of Week
1.	Republic Day	January, 26	Tuesday
2.	Basant Panchami or Sri Panchami	February, 16	Tuesday
3.	Holi	March 29	Monday
4.	Good Friday	April, 02	Friday
5.	Mahavir Jayanti	April 25	Sunday
6.	Idu'l Fitr	May, 14	Friday
7.	Buddha Purnima	May, 26	Wednesday
8.	Id-Uz-Zuha(Bakrid)	July, 21	Wednesday
9.	Independence Day	August, 15	Sunday
10.	Muharram	August, 19	Thursday
11.	Mahatama Gandhi's Birth Day	October 02	Saturday
12.	Maha Navami (Additional day for Dussehra)	October, 14	Thursday
13.	Dussehra	October, 15	Friday
14.	Milad-un-Nabi or Id-E-Milad (Birth Day Prophet Mahammad)	October, 19	Tuesday
15.	Diwali (Deepavali)	November, 04	Thursday
16.	Guru Nanak's Birthday	November, 19	Friday
17.	Christmas Day	December, 25	Saturday

Note: Central Government Organizations, which include industrial, commercial & training establishments (i.e. other than doing work of Secretariat nature) would observe 17 holidays in a year out of which 3 namely Republic Day, Independence Day and Mahatma Gandhi's Birthday will be compulsory. The remaining holidays/occasions may be determined by such Establishments/Organizations themselves on year to year basis.

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

The date of Holidays for the Muslim festivals may be changed on sighting of the Moon and decision to be taken by the State Govt.

(Sanjay Bhattacharya)
Dy. Controller of Patents & Designs
& Head of Office



बौद्धिक सम्पदा भारत
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भौगोलिक संकेत/पेटेंट सूचना पद्धति
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GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

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

संख्या/No. : एच-45011/1/2004-प्रशासन

दिनांक/Date: 21-12-2020

वर्ष 2021 में छुट्टियों की सूची

वर्ष 2021 के दौरान पेटेंट कार्यालय, कोलकाता के लिए निम्नलिखित दिनों को छुट्टी घोषित किया गया है।

क्र.सं.	छुट्टियाँ तथा संबंधित त्यौहार	दिनांक	सप्ताह के दिन
1.	गणतंत्र दिवस	जनवरी, 26	मंगलवार
2.	बसंत पंचमी/श्री पंचमी	फरवरी, 16	मंगलवार
3.	होली	मार्च, 29	सोमवार
4.	गुड फ्राइडे	अप्रैल, 02	शुक्रवार
5.	महावीर जयंती	अप्रैल, 25	रविवार
6.	ईद-उल-फितर	मई, 14	शुक्रवार
7.	बुद्ध पुर्णिमा	मई, 26	बुधवार
8.	ईद-उल-जुहा (बकरीद)	जुलाई, 21	बुधवार
9.	स्वतंत्रता दिवस	अगस्त, 15	रविवार
10.	मुहर्रम	अगस्त, 19	गुरुवार
11.	महात्मा गाँधी जयंती	अक्तुबर, 02	शनिवार
12.	दशहरा (महा नवमी) (अतिरिक्त)	अक्तुबर, 14	गुरुवार
13.	दशहरा	अक्तुबर, 15	शुक्रवार
14.	मिलाद-उन-नबी या ईद-ए-मिलाद (प्रोफेट मोहम्मद जन्मदिवस)	अक्तुबर, 19	मंगलवार
15.	दिवाली (दिपावली)	नवम्बर, 04	गुरुवार
16.	गुरुनानक जयंती	नवम्बर, 19	शुक्रवार
17.	क्रिसमस डे	दिसम्बर, 25	शनिवार

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

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

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

(संजय भट्टाचार्य)

उप नियंत्रक एकस्व एवं अभिकल्प
तथा कार्यालय प्रधान

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.202011004534 A

(19) INDIA

(22) Date of filing of Application :01/02/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : AN ECOFRIENDLY BIO LEATHER AND PROCESS THEREOF

(51) International classification	:G01N0021640000, B32B0027120000, B01J0037020000, G06F0016245700, C09K0021120000	(71) Name of Applicant : 1)Gautam Nathany Address of Applicant :34, Kamani Road, Jhotwara, Industrial Area, Jaipur-302012 Rajasthan India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Gautam Nathany
(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 :

An ecofriendly bio-leather (100) comprising one or more layers wherein the base layer (110) comprising of the wool and the middle layer (120) comprises composites of fibre pulp of Musa acuminata, dried clay, soapstone powder water and binding agents; top layer (130) comprising coating of water and lacquer. Furthermore, the bio leather is biodegradable and does not use toxic and polluting tanning chemicals and so is more socially responsible than the existing leather.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011005799 A

(19) INDIA

(22) Date of filing of Application :11/02/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : HUMAN MEMORY ASSISTIVE DEVICE

(51) International classification	:G06N0020000000, H04N0005232000, A61B0005049200, G11C0007160000, G10H0001000000	(71) Name of Applicant : 1)ABES Engineering College Address of Applicant :Campus -1, 19th Km Stone NH-24 Ghaziabad Uttar Pradesh India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Santosh Kumar
(33) Name of priority country	:NA	2)Dr. Anil Kumar Dubey
(86) International Application No	:NA	3)Dr. Gaurav Dubey
Filing Date	:NA	4)Dr. Vikash Yadav
(87) International Publication No	: NA	5)Harivansh Pratap Singh
(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 human memory assistive device to assist the human memory for important ideas retrieval, comprising a memory card, a high-quality camera and sensors like sonar and machine learning program, to remove the noises and sense out the commands of user for further reminder also the device will assist to recall the past situation to generate the new ideas. The camera continuously captures the scenario and deletes automatically except the just previous 5 minutes information/video. Therefore, the device will be most suitable to record and save the past activities.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011019168 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : DOMAIN-DEPENDENT DATA LABELING

(51) International classification	:G06N0020000000, G06K0009000000, A61B0005026000, H01L0029786000, G06K0009620000	(71) Name of Applicant : 1)ERINDA PATHAK Address of Applicant :Bernardstrae 13, 63067, Offenbach am Main Germany Germany (72) Name of Inventor : 1)ERINDA PATHAK 2)ISHA PORWAL 3)PRAKHAR GUPTA
(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 :

A methodology for labeling data is provided such that domain-specific knowledge is imbibed into it, making it a more effective resource for devising efficient machine learning algorithms for detection and recognition tasks. A method to annotate data directly in a domain-specific context is also provided. Furthermore, with regard to the collection of data, an automated approach for detecting variance in data with respect to the domain and skill to be learned is provided. Similarly, an automated approach to collect and quantify corner-cases in the dataset, with respect to the domain and skill to be learned, is pr.

No. of Pages : 20 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011045875 A

(19) INDIA

(22) Date of filing of Application :21/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : VERTICAL INJECTION MOLDING MACHINE HAVING FOUR PILLARS AND FIXED PLATEN WITH TWO WORKSTATIONS FOR A CLAMPED MOLD

(51) International classification	:B29C 45/17 B29C 45/76 B29C 45/12	(71) Name of Applicant : 1)TECHNO MACHINES INDIA Address of Applicant :H-244, Sector 2, Bawana Industrial Area, Dsiidc, New Delhi, 110039, INDIA Delhi India (72) Name of Inventor : 1)Sethi, Praveen
(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 discloses a vertical injection molding machine (100). The machine includes a clamping unit (5) having a fixed platen (30) with two plates (32, 34) flanking edges (2, 4) of the fixed platen (30). The configuration of the plates makes two workstations (W1, W2) for allowing two workers to work on the fixed platen (30) simultaneously. The machine further includes an injection unit (20) capable of reciprocating vertically to inject molten material into a clamped mold (36) of the machine (100). The machine further includes a control unit (50) adapted to control functions for carrying a molding operation. Furthermore, the machine (100) includes four pillars (40) disposed on the fixed platen (30), the pillars (40) operatively connected to the said injection unit (20), the pillars adapted to provide support while providing clamping force to the mold (36).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011050119 A

(19) INDIA

(22) Date of filing of Application :18/11/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : AN INDIGENOUS & NOVEL TYPE OF SENSOR INSTRUMENTED GRIPPER

(51) International classification	:B23K 9/095 B25J 9/16 B25J 15/00	(71) Name of Applicant : 1)GLA University, Mathura Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Shailesh Sharma
(32) Priority Date	:NA	2)Anas Islam
(33) Name of priority country	:NA	3)Aman Sharma
(86) International Application No	:NA	4)Rishabh Chaturvedi
Filing Date	:NA	5)Dr. Kamal Sharma
(87) International Publication No	: NA	6)Rohit Sharma
(61) Patent of Addition to Application Number	:NA	7)Dr. Debanik Roy
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a robotic arm gripper for Automated (robotic) Shielded Metal Arc Welding (SMAW). The robotic arm gripper comprises a gripper body having a stabilizing unit, end effector & a holder, a master micro-controller & a slave micro-controller, a Vibration Sensor, a K-Type Thermocouple, an infrared Proximity Sensor, a Bluetooth Module, and a Wi-Fi module. All the sensors and micro-controller are integrated into the body for collecting, storing, and transmitting the welding data to the userTMs mobile and computers.

No. of Pages : 13 No. of Claims : 1

(54) Title of the invention : ELLIPTICAL PATCH MULTIBAND ANTENNA USING FRACTAL AND DEFECTED GROUND STRUCTURES

(51) International classification	:H01Q 1/48 H01Q 1/24 H01Q 1/38	(71) Name of Applicant : 1)Amandeep Kaur Address of Applicant :VPO: Aklia Kalan, Distt. Bathinda, Punjab, India Punjab India 2)Dr. Praveen Kumar Malik
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Amandeep Kaur
(32) Priority Date	:NA	2)Dr. Praveen Kumar Malik
(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 proposed structure is designed using Rogers RT Duroid 5880 substrate material with the thickness ($t=0.8\text{mm}$), dielectric constant ($\epsilon_r=2.2$), and loss tangent of 0.0009. The RT Duroid substrate dimensions are 50mm x 50mm x 0.8mm with an elliptical-shaped patch. To obtain impedance matching Lumped port with 50-ohm resistance is used with Y-axis and Z-axis dimensions of 3.87mm and 0.8mm respectively and the microstrip feed method is used for antenna feeding with dimensions 12.94 mm x 3.87mm. To achieve more compactness in antenna design, an elliptical patch with $n=3$ iterations are used, without changing the physical length of the antenna to obtain multiband characteristics of the proposed antenna structure. The defective ground plan is used to improve antenna performance parameters like bandwidth, gain, and to suppress cross-polarization. These structures are used to divert current distribution in the ground plane to change the inductive and capacitive properties of the proposed antenna. Defected ground dimensions considered are 12.7mm x 50mm x 0.8mm.

No. of Pages : 40 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052293 A

(19) INDIA

(22) Date of filing of Application :01/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SOLAR POWER ENABLED MOTOR OPERATED EXTENDED CYCLE FOR RAILWAY TRACK INSPECTION

(51) International classification	:F04B 17/00 F21S 9/03 H02J 7/35	(71) Name of Applicant : 1)GLA University, Mathura Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Prof. Kamal Sharma
(32) Priority Date	:NA	2)Prof. Piyush Singhal
(33) Name of priority country	:NA	3)Aman Sharma
(86) International Application No	:NA	4)Anas Islam
Filing Date	:NA	5)Rajat Yadav
(87) International Publication No	: NA	6)Rishabh Chaturvedi
(61) Patent of Addition to Application Number	:NA	7)Rohit Sharma
Filing Date	:NA	8)Pooja Saharan
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a solar-powered bicycle for railway track inspection by receiving solar energy. The bicycle includes a solar panel (1), a motor (2), a kinematic link rod (3), a front rail wheel (4) & rear rail wheel (5), and an accelerator. The solar panel (1) is installed on the bicycle and attached to the motor (2). The solar powered bicycle minimizes the manual work performed by laborers.

No. of Pages : 12 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052294 A

(19) INDIA

(22) Date of filing of Application :01/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : FDM (FUEL DETECTION METER)

(51) International classification	:G09F 9/33 A61B 5/1455 B60K 15/03	(71) Name of Applicant : 1)GLA University, Mathura Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Aman Sharma
(32) Priority Date	:NA	2)Anas Islam
(33) Name of priority country	:NA	3)Rajat Yadav
(86) International Application No	:NA	4)Rishabh Chaturvedi
Filing Date	:NA	5)Nitin Kukreja
(87) International Publication No	: NA	6)Rohit 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 provides a fuel detection system for automobiles. The fuel detection system includes a microcontroller, a sensor, a LED display, a LED light, and a buzzer. The indication of the actual amount of the fuel filled in the tank of the vehicle is directing to the system to the sensors to start blinking and displaying the amount of fuel in numeric values.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053107 A

(19) INDIA

(22) Date of filing of Application :07/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : COMBINATION OF SCISSOR AND FORK LIFT

(51) International classification	:B66F 7/06 B66F 11/04 B66F 9/12	(71) Name of Applicant : 1)JAGDEEP SINGH Address of Applicant :82-A VIKAS VIHAR NILOTHI EXTENSION, NANGLOI, DELHI-110041, INDIA Delhi India (72) Name of Inventor : 1)JAGDEEP SINGH
(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 :

A combination of scissor with fork lift is device for lifting heavy loads from ground level to maximum height. This Scissor lift is comprising of upper platform, three pair of scissors pinned with each other to lower platform The upper pair scissor is fixed to the upper platform at one end and at the other end rollers are attached for the sliding movement. A fork lift is an additional accessory to the scissor lift. Fork lift is installed at the rear of the scissor lift which is operated by the Hydraulic pump. The combination can lift heavy loads 250kg or more and can extend till 15 ft (the concept can vary as per the size and weight).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053315 A

(19) INDIA

(22) Date of filing of Application :08/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : WASTE HEAT POWER GENERATION SYSTEM USING THERMO-ELECTRIC GENERATOR FROM SILENCER

(51) International classification	:H01L 35/00 H02N 11/00 H01L 35/30	(71) Name of Applicant : 1)GLA University, Mathura Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Prof. Kamal Sharma
(33) Name of priority country	:NA	2)Rishabh Chaturvedi
(86) International Application No	:NA	3)Aman Sharma
Filing Date	:NA	4)Anas Islam
(87) International Publication No	: NA	5)Rajat Yadav
(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 heat power generation system for a vehicle to transform the waste heat from the pollution control system into electric power. The system comprises a thermoelectric generator, heat source and heat sink, aluminum heat sink, booster circuit, multimeters, digital thermometer, heat paste, I.C. engine. The system is connected to the vehicle and when the engine starts, the heat intersection heats up and the heat transfer rate increases through the thermoelectric power generator. The provided system is a cost-effective mechanism for generating electrical energy.

No. of Pages : 16 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053316 A

(19) INDIA

(22) Date of filing of Application :08/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : WASTEWATER ENERGY GENERATOR

(51) International classification	:H04L 12/28 H02K 7/18 F03B 13/06	(71) Name of Applicant : 1)GLA University, Mathura Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Shantanu Upadhyay
(32) Priority Date	:NA	2)Bharat Singh
(33) Name of priority country	:NA	3)Yash Sharma
(86) International Application No	:NA	4)Shailesh Sharma
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a wastewater energy generator to power the IoT enabled smart home automation systems using the waste water flowing in the faucet pipes and washbasin pipes in homes. It includes a casing (1), a cleaner (2), a plurality of fins (3), a turbine (4), an alternator (5), a cover (6), a battery (7), a housing (8), and a nozzle (9). The turbine (4) converts the potential energy of the water into rotational energy and the alternator (5) converts the rotational energy into electrical energy and saves it into the battery (7).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053317 A

(19) INDIA

(22) Date of filing of Application :08/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SMART FINGER PRINT BASED UNLOCKING SYSTEM FOR TWO WHEELERSV

(51) International classification	:G07C 9/00 G06K 9/00 B60R 25/24	(71) Name of Applicant : 1)GLA University, Mathura Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Bharat Singh
(33) Name of priority country	:NA	2)Prof. Piyush Singhal
(86) International Application No	:NA	3)Abhishek Dhawan
Filing Date	:NA	
(87) 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 fingerprint-based unlocking system for two-wheelers. The fingerprint-based unlocking system includes a micro controller; a fingerprint sensor; and a battery. The system requires registering the user™s finger to operate the three switches ignition switch, engine kill switch, and self-start switch. All three switches are used to complete the circuit so that the bike can start and stop with the help of a fingerprint sensor. The present invention provides an anti-theft system for the two-wheeler by secure locking and unlocking the vehicle.

No. of Pages : 11 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011054138 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : SENSOR INSTRUMENTED WINDOW (SIW)

(51) International classification	:E05F 15/71 E06B 7/28 G08B 13/08	(71) Name of Applicant : 1)GLA University, Mathura Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Pooja Pathak
(33) Name of priority country	:NA	2)Dr. Vijay Kumar Dwivedi
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a sensor instrumented window having a UV sensor and a temperature sensor which are configured in a window. It further includes a ratchet mechanism. The UV sensor detects the UV radiation coming from the sunlight to open the windows automatically and when these radiations diminish and sun sets, these doors close automatically without any manual human intervention. The ratchet mechanism is provided at a top corner of the window in order to lock the doors of windows once opened.

No. of Pages : 17 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011055706 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : HI-TECH LIGHT BEAM ADJUSTMENT FOR 4 WHEELERS

(51) International classification	:B60Q 1/076 G08B 21/06	(71) Name of Applicant : 1)GLA University, Mathura Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Prof. Kamal Sharma
(33) Name of priority country	:NA	2)Aman Sharma
(86) International Application No	:NA	3)Rishabh Chaturvedi
Filing Date	:NA	4)Rohit Sharma
(87) International Publication No	: NA	5)Dr. Pradeep Kumar Singh
(61) Patent of Addition to Application Number	:NA	6)Avinash Dutt Kaushik
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a light beam adjustment system for vehicles. The system comprises a laser distance measuring sensor; a matrix LED light, a light-dependent resistor (LDR), and a raspberry pi. The sensors include in the system reduces the glare in the drivers eyes to minimize the chances of accidents.

No. of Pages : 19 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011055936 A

(19) INDIA

(22) Date of filing of Application :23/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PLASTO BRICKS

(51) International classification	:E04C 1/39 C04B 111/00	(71) Name of Applicant : 1)GLA University, Mathura Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Raghav Rohatgi
(33) Name of priority country	:NA	2)Prof. Kamal Sharma
(86) International Application No	:NA	3)Nitin Kukreja
Filing Date	:NA	4)Pushkar sharma
(87) 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 plasto brick which includes a mixture of cement, sand, lime, gypsum, stone dust, admixture, plastic, fodder, and small pieces of cloth. The brick is formed by mixing the cement, sand, lime, gypsum, stone dust, admixture, plastic, fodder, and small pieces of cloth. Then the mixture is poured into a mold to provide the brick shape and let it dry.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011056913 A

(19) INDIA

(22) Date of filing of Application :29/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A TACTILE ELECTRONICS DEVICE FOR VISUALLY IMPAIRED

(51) International classification	:G06F 3/01 G09B 21/00 G04G 21/04	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR- 208016, UTTAR PRADESH, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Vishwaraj Srivastava
(33) Name of priority country	:NA	2)Siddhartha Panda
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a portable electronic device, preferably a tactile wristwatch based on vibration function. In present invention, the user especially the visually impaired ones sense the time accurately by the vibrations generated from said device. The processor within the device does all the computation and executes the program stored in memory. Overall, a microcontroller with embedded processors, memory, etc will be used. Timer is either an external IC or can also be an inbuilt IC within the microcontroller. Timer IC communicates time related information that is used by the processor to keep track of time. Moreover, there is a haptic actuator within the enclosure coupled with the microprocessor. It produces long vibrations to indicate hour and shorter ones to indicate minutes.

No. of Pages : 31 No. of Claims : 9

(54) Title of the invention : PISTON RING

(51) International classification	:F16J 9/26, C23C 14/06, F02F 5/00
(31) Priority Document No	:2018-123839
(32) Priority Date	:29/06/2018
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2019/023500
Filing Date	:13/06/2019
(87) International Publication No	:WO 2020/004061
(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)SATO, Tomoyuki**2)KITAZUME, Yutaka****3)IWASHITA, Takatsugu**

(57) Abstract :

The present invention addresses the problem of providing a piston ring covered with a DLC coating that has excellent wear resistance and shows a low attacking property on a cylinder bore sliding surface. The problem is solved by a piston ring which is used in the presence of an engine lubricating oil and includes a DLC coating on an outer peripheral sliding surface. The DLC coating has an sp² component ratio of 0.5 to 0.85 as determined from a TEM-EELS spectrum obtained by a combination of a transmission electron microscope (TEM) and electron energy loss spectroscopy (EELS), as well as a coating hardness of 12 GPa to 26 GPa and a Young's modulus of 250 GPa or less as measured by a nanoindentation method.

No. of Pages : 32 No. of Claims : 7

(54) Title of the invention : LITHIUM ION BATTERY AND ELECTRICAL APPARATUS INCLUDING THE SAME

(51) International classification :H01M10/0525,H01M10/0567,H01M10/0587
 (31) Priority Document No :201910618619.1
 (32) Priority Date :10/07/2019
 (33) Name of priority country :China
 (86) International Application No :PCT/CN2020/090079
 Filing Date :13/05/2020
 (87) International Publication No :WO 2021/004151
 (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 :No.2, Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 China
 (72)**Name of Inventor :**
1)ZOU, Hailin
2)ZHANG, Ming
3)HAN, Changlong
4)ZHANG, Cuiping

(57) Abstract :

The present disclosure relates to a lithium ion battery and an electrical apparatus including the same. The lithium ion battery includes an electrode assembly; and an electrolytic solution for infiltrating the electrode assembly, wherein the electrode assembly includes an electrode body, a positive electrode tab, and a negative electrode tab. The electrode body includes a positive electrode plate, a negative electrode plate, and a separator that are wound together around an axis. The positive electrode plate includes a positive current collector and a positive material layer provided on at least one surface of the positive electrode current collector. In an axial direction (X), the electrode body has two opposite side portions, and the positive electrode tab and the negative electrode tab extend from the two side portions of the electrode body, respectively. The electrolytic solution includes an additive A, and a diffusion rate v of the electrolytic solution to the electrode body is in a range of $0.01\mu\text{g/s}$ to $5\mu\text{g/s}$.

No. of Pages : 39 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017054525 A

(19) INDIA

(22) Date of filing of Application :15/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : MAGNESIUM ALLOY

(51) International classification :C22C 23/04, A61L
27/04, A61L 29/02
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/JP2018/025869
Filing Date :09/07/2018
(87) International Publication No :WO 2020/012529
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)JAPAN MEDICAL DEVICE TECHNOLOGY CO., LTD.
Address of Applicant :2020-3-D, Oaza Tabaru, Mashiki-
machi, Kamimashiki-gun, Kumamoto 861-2202, Japan Japan
2)JAPAN MEDICAL DEVICE TECHNOLOGY CO., LTD.
(72)Name of Inventor :
1)UEDA, Hironori
2)INOUE, Masashi
3)SASAKI, Makoto

(57) Abstract :

A magnesium alloy containing, in % by mass, 0.95 to 2.00 % of Zn, 0.05 % or more and less than 0.30 % of Zr, 0.05 to 0.20 % of Mn, and the 5 balance consisting of Mg and unavoidable impurities, wherein the magnesium alloy has a particle size distribution with an average crystal particle size from 1.0 to 3.0 μm and a standard deviation of 0.7 or smaller.

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : SELF-LEARNING BASED YOGA POSE ASSESSMENT SYSTEM

(51) International classification	:G06T 7/73 G06K 9/00 B25J 9/16	(71)Name of Applicant : 1)Dr.Mandeep Singh Address of Applicant :Cluster University of Jammu, J&K Jammu & Kashmir India 2)Dr. Birendra Jhajharia 3)Dr. Chetna Choudhray 4)Dr. Anek Goel 5)Mary Chingngaih lun Lethil 6)Dr. Suman Pandey Mahadevan 7)Dr. Jagjeet Singh 8)Dr P Ponmurugan
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr.Mandeep Singh 2)Dr. Birendra Jhajharia 3)Dr. Chetna Choudhray 4)Dr. Anek Goel 5)Mary Chingngaih lun Lethil 6)Dr. Suman Pandey Mahadevan 7)Dr. Jagjeet Singh 8)Dr P Ponmurugan
(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 :

Nowadays, Yoga is popular around the world. A lot of people are participating in it by themselves through watching TV/videos or teaching each other. However, it is not easy for novice people to find the incorrect parts of their Yoga poses by themselves. The proposed system is a Yoga pose assessment method using pose detection to help the self-learning of Yoga. The system first detects a Yoga pose using multi parts detection only with PC camera. Then, it calculates the difference of the specified body angles between the pose of an instructor and that of a user. Then, it calculates the difference of the specified body angles between the pose of an instructor and that of a user, and suggests the correction if larger than the given threshold. The total angle difference values are calculated averagely and defined as performance class level.

No. of Pages : 7 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001198 A

(19) INDIA

(22) Date of filing of Application :11/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : INTELLIGENT THREE LAYERED SECURITY LOCK

(51) International classification	:H04L 9/32 G06F 21/32 F16K 31/12	(71) Name of Applicant : 1)ABES Engineering College Address of Applicant :Campus -1, 19th KM Stone, NH 24, Ghaziabad, Uttar Pradesh, India, 201009 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Pradeep Singh
(33) Name of priority country	:NA	2)Mr. Harsh Khatter
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 for controlling an intelligent three-layered security lock for a door, the method comprising: receiving, a PIN and biometric information from of the user; matching, the received PIN with a pre-stored PIN, and received biometric information with pre-stored biometric information; sensing, a rotor angle of a lever panel, via a rotor angle sensor; and activating, an actuator to move the locking means from a closed position to an open position.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001199 A

(19) INDIA

(22) Date of filing of Application :11/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYSTEM AND APPARATUS FOR STIMULATION OF BIOMASS GROWTH USING INTERNET OF THING (IOT)

(51) International classification	:G03F 7/20 C02F 3/08 H04L 29/08	(71) Name of Applicant : 1)Dr. Kavita Choudhary Address of Applicant :JK LakshmiPat University, Mahapura, Near Mahindra SEZ, Jaipur, Rajasthan, India. Pin Code - 302026 Rajasthan India 2)Dr. Yogita Gigras 3)Dr. Taruna Sunil 4)Yatharth Sreedharan
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Kavita Choudhary
(33) Name of priority country	:NA	2)Dr. Yogita Gigras
(86) International Application No	:NA	3)Dr. Taruna Sunil
Filing Date	:NA	4)Yatharth Sreedharan
(87) 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 system and apparatus for stimulation of biomass growth using the internet of things (IoT) based sensors. The apparatus is arranged to rotate the biomass to increase the exposure of the part of biomass to the radiation. Increased and even distribution of the radiation results in improved carbon fixation rate and growth the biomass.

No. of Pages : 27 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001226 A

(19) INDIA

(22) Date of filing of Application :11/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYSTEM AND METHOD TO CONVERT A MIXED LANGUAGE CONVERSATION INTO TEXT

(51) International classification	:G10L 15/26 G06F 40/40 G06F 40/58	(71) Name of Applicant : 1)Kamacak Analytics Private Limited Address of Applicant :Flat No. 2058, Tower Felecita, 20th Floor, Mahagun Moderne, Plot No. GH-02, Sector 78, Noida, Gautam Buddh Nagar, Uttar Pradesh, 201301, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Anant Tripathi
(33) Name of priority country	:NA	2)Chakrapani Mishra
(86) International Application No	:NA	3)Rohit Chaudhary
Filing Date	:NA	4)Siddharth Tyagi
(87) 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 to convert a mixed language conversation into text is disclosed. The system includes an audio analysis module, identify one or more speakers in a conversation from one or more audio files, segregate one or more words corresponding to each of the one or more speakers of the one or more audio files, identify one or more languages associated with segregated one or more words and convert the one or more audio files into a text in real time based on inferred text data for each of the segregated one or more words and predicted sequence of words in the conversation. The system includes an entity extraction module, extract one or more entities present in the speaker diary. The system also includes an entity search module search each of extracted one or more entities in a repository database based on n-grams.

No. of Pages : 27 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001286 A

(19) INDIA

(22) Date of filing of Application :11/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : SENSOR BASED SMART FACE SHIELD FOR HEALTHCARE WORKERS DURING COVID-19 PANDEMICS

(51) International classification	:A61B 5/01 A41D 13/12 A61Q 17/00	(71)Name of Applicant : 1)Dr. Hardeep Singh Saini Address of Applicant :Professor, Indo Global College of Engineering, Abhipur, Distt.Mohali, Pin Code-140109, Punjab, INDIA Punjab India 2)Dr K. Sakthipandi 3)Mr.Pijush Dutta 4)Dr.K.Arumugam MCA.,MPhil.,PhD. 5)Dr. Md. Khaja Mohiddin 6)Dr.M.Jayasanthi 7)Mr. Javed Miya 8)Mr. Suresh Kumar 9)Mr. Ranjit Kumar 10)Dr.S.Balamurugan
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Hardeep Singh Saini 2)Dr K. Sakthipandi 3)Mr.Pijush Dutta 4)Dr.K.Arumugam MCA.,MPhil.,PhD. 5)Dr. Md. Khaja Mohiddin 6)Dr.M.Jayasanthi 7)Mr. Javed Miya 8)Mr. Suresh Kumar 9)Mr. Ranjit Kumar 10)Dr.S.Balamurugan
(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 Sensor Based Smart Face Shield for Healthcare Workers during COVID-19 Pandemics (SBSFS) helps the healthcare workers to make use of the SBSFS to identify the person/COVID-19 person nearby as an automatic and contactless manner and protect from themselves. Human body sensor senses the human/patient body. The temperature sensor senses the human/patient body temperature. Oxygen sensor senses the Oxygen level of healthcare workers while wearing the face shield and supply the Oxygen when it lowers the threshold automatically. Speaker is attached to SBSFS control unit itself. The SBSFS control unit instructs the speaker to alert the user with a beeb sound when a person/patient opposite to healthcare workers whose body temperature is crossing the threshold. Also By using this SBSFS, the healthcare workers can identify the person/COVID-19 person nearby as an automatic and contactless manner and away from the spread of COVID-19 viruses

No. of Pages : 16 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001305 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : AN ELECTRONIC HEAD WEARABLE BAND FOR MEASURING AND ALERTING CLOSE DISTANCE CONTACT

(51) International classification	:G02B 27/01 G06F 3/14 G06F	(71) Name of Applicant : 1)GraphicEra Hill University, Dehradun Campus Address of Applicant :510, Society Area, Clement Town, Dehradun, 248002, Uttrakhand, India Uttarakhand India
(31) Priority Document No	3/01	(72) Name of Inventor : 1)Ms. Divya Kapil
(32) Priority Date	:NA	2)Ms. Atika Gupta
(33) Name of priority country	:NA	3)Ms. Anupriya
(86) International Application No	:NA	4)Ms. Deepti Negi
Filing Date	:NA	5)Aditya Harbola
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the electronic head wearable band for measuring and alerting close distance contact and method thereof. The electronic head wearable band for measuring and alerting close distance contact comprised of a polycarbonate casing of dimension 3X2X1 cm and a head wearable band with variable length. The polycarbonate casing are attach on the head wearable band. A controlling unit is configured to operate at voltage 5 volt and having automatic voltage regulator architecture. The head wearable band comprises at least one IR proximity sensor for scanning and detecting any object entering an area of radius 1 m from user. The controlling unit, network unit, IR proximity sensor, buzzer, the LED, and the power supply are embed inside the polycarbonate casing.

No. of Pages : 29 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001307 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR BALANCE MODEL FOR TRANSITIONING ROTE LEARNING AT HIGHER LEVEL

(51) International classification	:G06Q 10/06 G09B 19/02 G09B 19/22	(71) Name of Applicant : 1)Sharda University Address of Applicant :Plot No. 32, 34, Knowledge Park III, Greater Noida, Uttar Pradesh 201310 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Mohit Maurya
(33) Name of priority country	:NA	2)Dr. Sweta Dixit
(86) International Application No	:NA	3)Dr. Mridul Dharwal
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In the present disclosure a conceptual model for determining for Transitioning Rote Learning at Higher level. ItTMs important to differentiate between rote learning • and the remembering of facts that aid execution of various abstract and physical processes. One is not better than the other, each has its place. Be wary of advice that suggests otherwise. Good education must teach theory, impact knowledge, inculcate skills, relate how to apply to immediate environment and apply evaluation checks that align the objectives of learning with the desired outcomes. Thus in an attempt to learn, how to learn higher-level critical skills a sustained BALANCE approach should be practiced and must be honed on a continual basis. BALANCE as a framework in the transition from rote to conceptualization in higher learning, may contribute significantly in joining the dots.

No. of Pages : 18 No. of Claims : 1

(54) Title of the invention : RECEPTION AND AMPLIFICATION OF THE SIGNALS OF A SPEAKERS™ VOICE COIL WIRELESSLY.

(51) International classification	:H04R 9/04 H04R 1/10 H04R 9/02	(71) Name of Applicant : 1)Shivam Kumar Nikhel Address of Applicant :3524, sector 23, gurugram Haryana India (72) Name of Inventor : 1)Shivam Kumar Nikhel
(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 :

An electromagnetic signal reception and amplification system, based on electromagnetic induction, for the voice coil of the speaker unit of an information appliance. The speaker unit, comprising a voice coil acting as an input for the reception antenna, is placed in reception antenna™s proximity. When the user runs a command on the information appliance comprising the use of its inbuilt speaker unit, the corresponding signal produced in the voice coil of the speaker unit of information appliance is acquired by the reception antenna. The acquired signal is then amplified and adjusted by amplification module & automatic gain control module and processed into a digital signal by analog to digital converter & digital signal processor and thus, the signal is further used for running a loudspeaker module, thereby amplifying the speaker output of the information appliance, resulting in minimal ambient sound noise during transmission of signal and low latency.

No. of Pages : 27 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001350 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : ACCESS CONTROL USING SIGNALS OF A SPEAKERS™ VOICE COIL WIRELESSLY

(51) International classification	:H04L 29/06 G06F 21/62 G06F 1/16	(71) Name of Applicant : 1)Shivam Kumar Nikhel Address of Applicant :3524, sector 23, gurugram Haryana India (72) Name of Inventor : 1)Shivam Kumar Nikhel
(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 :

An access control and management system 100 based on electromagnetic induction for signal reception from the voice coil of an information appliances™ speaker. The speaker unit comprised of a voice coil, acting as an input for the reception antenna 102, is placed in reception antenna™s proximity. When the user wants to access a secured environment, the user runs a command on the information appliance. A corresponding encrypted signal produced by the microprocessor is sent to the voice coil whereby it gets converted into an electromagnetic signal. But, the speaker output remains inaudible to ears. The encrypted signal in the electromagnetic form is acquired by the reception antenna and is then further processed using various modules 104-114. The processed signal is used suitably for access control & management by decoding the transmitted encrypted code and thus granting access if personal identity is verified by matching credentials.

No. of Pages : 44 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001386 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : A COMPOSITION AND METHOD FOR JOINT AND MUSCLE PAIN RELIEF

(51) International classification	:A61K 36/185 A61K 36/8962 A61K	(71) Name of Applicant : 1)PATHANIA, RANVIR SINGH Address of Applicant :Flat No. 207, Pine Homes, Dhakoli, Zirakpur Sas Nagar, Mohali (Punjab) 140603, India (IN) Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)PATHANIA, RANVIR SINGH
(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 relates to a composition and method for alleviating joint and muscle pain. The claimed composition is easy to prepare and the ingredients, namely sesame oil, yellow bee nest and garlic, are easily available. The composition is completely free from preservatives and artificial additives. The organically derived nature of the claimed invention has substantial value to those individuals who desire to reduce pain without un-natural, man-made compositions.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001387 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYSTEM AND METHOD FOR TEXT-TO-SPEECH SYNTHESIS

(51) International classification	:G10L 13/07 G10L 13/04 G10L 13/06	(71) Name of Applicant : 1)Kamacak Analytics Private Limited Address of Applicant :Flat No. 2058, Tower Felecita, 20th Floor, Mahagun Moderne, Plot No. GH-02, Sector 78, Noida, Gautam Buddh Nagar, Uttar Pradesh, 201301, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Anant Tripathi
(33) Name of priority country	:NA	2)Chakrapani Mishra
(86) International Application No	:NA	3)Ziya Khan
Filing Date	:NA	
(87) 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 text-to-speech synthesis is disclosed. The system includes a concatenation module, configured to generate one or more sentences at runtime by concatenating the plurality of speech units and produce a resulting waveform for a plurality of concatenated speech units. The system includes a variance analysis module, configured to calculate spectrogram of the resulting waveform by short time Fourier transform and analysis variance of calculated spectrogram across energies of all frequencies. The system includes a click sound removable module configured to detect the click sound in formulated threshold, segregate the click sound over the spectrogram by adding a time window around the detected click sound in formulated threshold and minimise amplitude of the click sound by using a fade out filter before the click sound and fade in filter after the click sound.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001636 A

(19) INDIA

(22) Date of filing of Application :13/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : AUTOMATED PERSONALITY PREDICTION

(51) International classification	:A61B 5/00 A61B 5/0476 A61B 5/16	(71) Name of Applicant : 1)BENNETT UNIVERSITY Address of Applicant :8-11, TechZone II, Greater Noida, Uttar Pradesh - 201310, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Divya Acharya
(33) Name of priority country	:NA	2)Harshit Bhardwaj
(86) International Application No	:NA	3)Aditi Sakalle
Filing Date	:NA	4)Shivani Goel
(87) International Publication No	: NA	5)Kanad Kishore Biswas
(61) Patent of Addition to Application Number	:NA	6)Pradeep Tomar
Filing Date	:NA	7)Arpit Bhardwaj
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An automated method for prediction of personality of a candidate is provided. The automated method includes capturing Electroencephalography (EEG) signals while the candidate is watching a predefined media. The method further includes pre-processing the captured EEG signals to extract a set of EEG data. The method also includes analyzing the set of EEG data to obtain personality traits by employing a deep learning based deep network. Further, assimilating the obtained personality traits to obtain a predefined properties associated with the personality traits. Next, predicting personality type of the candidate based on the predefined properties by the deep network.

No. of Pages : 27 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001642 A

(19) INDIA

(22) Date of filing of Application :13/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : A SYSTEM FOR WEATHER MONITORING AND NATURAL DISASTERS PREVENTION USING IOT ENABLED DEVICES

(51) International classification	:H04Q 9/00 H04W 4/38 G16H 40/67	(71) Name of Applicant : 1)DR. SMRITI SRIVASTAVA Address of Applicant :DEPTT. OF INSTRUMENTATION AND CONTROL ENGG. NSUT DWARKA NEW DELHI -75 Delhi India 2)DR. MANJU KHARI 3)MR. SUSHANT KUMAR 4)DR. MONIKA GUPTA 5)DR. SAURABH MUKHERJEE
(31) Priority Document No	:NA	(72) Name of Inventor : 1)DR. SMRITI SRIVASTAVA 2)DR. MANJU KHARI 3)MR. SUSHANT KUMAR 4)DR. MONIKA GUPTA 5)DR. SAURABH MUKHERJEE
(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 :

Aspects of the present disclosure relate to a system (100) for disaster safety which comprises of a beacon (102) for collecting the data related the environment, a smart device (104) for collecting and displaying the data on the display unit, a server (106) for analyzing the data received from the smart device, a peripheral device (108) that is an independent device. The present disclosure also related method (200) for disaster safety which comprises step of measuring (202) the environmental data, transmitting (204) the data to the smart device (104), sending (206) the data to the server (106), analyzing (208) of the data by the server (106), if the server (106) predicts the disaster then it sends a warning signal to the smart device (104), controlling (214) the peripheral devices (108) and storing (216) the data in the server (106).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001650 A

(19) INDIA

(22) Date of filing of Application :13/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : APPARATUS AND METHOD FOR ASSISTING VISUALLY IMPAIRED PERSONS

(51) International classification	:G06Q 30/00 G10L 13/00 G09B 21/00	(71) Name of Applicant : 1)Axis Institute of Technology & Management Address of Applicant :Axis Institute of Technology and Management, Axis Knowledge City, Hathipur, Rooma NH-2, Milestone 478, Kanpur Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Ms. Shail Dubey
(32) Priority Date	:NA	2)Dr. Shubh Jain
(33) Name of priority country	:NA	3)Vaibhav Mishra
(86) International Application No	:NA	4)Durgesh Kumar Mishra
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for providing information from a code to assist a virtually impaired person is disclosed. The method comprising receiving, by an input unit (102), a scanned image, wherein the scanned image includes the code of a product; transmitting, to a microcontroller (104), the scanned image to extract the code; and converting the extracted code from the scanned image to text using an image-to-text converter and from the text to speech using a text-to speech converter configured in the microcontroller (104) and transmitting the speech to an output unit (106) to provide details of the product.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001652 A

(19) INDIA

(22) Date of filing of Application :13/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : SELF-HEALING COMPOSITE MATERIAL, SELF-HEALING COMPOSITE SHAFT AND FABRICATION THEREOF

(51) International classification	:C09J 4/00 B32B 5/26	(71) Name of Applicant : 1)Axis Institute of Technology & Management Address of Applicant :Axis Knowledge City, Hathipur, Rooma, NH-2, Milestone 478, Kanpur Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Rajeev Kumar
(33) Name of priority country	:NA	2)Dr. Anuj Kumar Jain
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 self-healing composite material, self-healing composite shaft and fabrication thereof is disclosed. The self-healing composite material consists of methacrylic acid, methyl methacrylate, ethyl cyanoacrylate and nitro benzene, wherein the methacrylic acid, the methyl methacrylate, the ethyl cyanoacrylate and the nitro benzene are mixed in proportion of 17.5:3.5:0.5:1 respectively. The self-healing composite shaft (300) includes a hollow glass fiber having a self-healing composite material (104), the self-healing composite material consisting of methacrylic acid, methyl methacrylate, ethyl cyanoacrylate and nitro benzene mixed in proportion of 17.5:3.5:0.5:1 respectively, where the hollow glass fiber is embed with the self-healing composite material inside a matrix consisting BisPhenol-A based epoxy resin and a hardener mixed in proportion of 10:1.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001746 A

(19) INDIA

(22) Date of filing of Application :14/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR CONTROL AND MANAGEMENT OF SET-TOP BOX

(51) International classification	:H04N 21/475 H04N 21/45 H04N 21/454	(71) Name of Applicant : 1)ABES Engineering College Address of Applicant :CAMPUS 1,19 KM STONE, NH-24, GHAZIABAD, UTTARPRADESH, INDIA-201009 Uttar Pradesh India (72) Name of Inventor :
(31) Priority Document No	:NA	1)Dr. Pradeep Singh
(32) Priority Date	:NA	2)Dr. Pradeep Singh
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a method for providing parental control of a set-top box of a television (TV), the method comprising: receiving, at the set-top box, one or more parameters related to parental control, from a computing device, via a network interface; comparing, the received one or more parental control parameters with a supported format, to identify a first list of programs which satisfy the parental control and a second list of programs which do not satisfy the parental control; and displaying, at least one program from the first list on the TV.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001793 A

(19) INDIA

(22) Date of filing of Application :14/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR PATIENT TREATMENT BY UTILIZING CLOUD COMPUTING ENVIRONMENT

(51) International classification	:H04L 29/08 H04L 12/24 G06F 16/2458	(71)Name of Applicant : 1)Hradesh Kumar Address of Applicant :Plot No. 2, Yamuna Expressway, Opposite, Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh 203201 Uttar Pradesh India 2)Dr. Varun Tiwari 3)Deepandra Rastogi 4)Heena 5)Shobhit Kumar 6)Mukesh Kumar 7)Lalita Chaudhary 8)Abhishek Sharma 9)Megha Agarwal
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Hradesh Kumar 2)Dr. Varun Tiwari 3)Deepandra Rastogi 4)Heena 5)Shobhit Kumar 6)Mukesh Kumar 7)Lalita Chaudhary 8)Abhishek Sharma 9)Megha Agarwal
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA	
(62) Divisional to Application Number Filing Date	:NA	

(57) Abstract :

The present invention provides a method for utilizing multiple cloud computing nodes for treatment of a patient. Causing one or more processors which are coupled to a non-transitory storage device and operable to perform the steps of: establishing, communication of each cloud node with other cloud nodes and a master node, through a communication network; storing information, in the cloud node, of the hospital to which the cloud node is associated; receiving a query, from a computing device associated with a user, wherein the query includes a patient admission details; transmitting, the reply according to the query of the computing device, wherein the reply transmission module utilizes the master node to dynamically determine that if the cloud node is not able to serve the query, automatically determines an alternate solution and transmits the alternate solution to the computing device.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001795 A

(19) INDIA

(22) Date of filing of Application :14/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR PRENATAL SCREENING FOR FETAL ABNORMALITIES

(51) International classification	:A61B 8/00 A61B 8/08 H04N 7/14	(71)Name of Applicant : 1)Dr. Prabhat Kumar Shrivasava Address of Applicant :Tower No-19, P2-304 Gulmohar Garden, RajNagar Extension, Ghaziabad, Uttar Pradesh, India, 201017 Uttar Pradesh India 2)Dr. Prabhat Kumar Srivastava
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Prabhat Kumar Shrivasava
(33) Name of priority country	:NA	2)Ms. Purnima Gupta
(86) International Application No	:NA	3)Dr. Prabhat Kumar Srivastava
Filing Date	:NA	4)Dr. Narendra Kumar Gupta
(87) International Publication No	: NA	5)Dr. Bramah Hazela
(61) Patent of Addition to Application Number	:NA	6)Mr. Sateesh Kumar Rai
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a system and method for prenatal screening of one or more fetal abnormalities of fetus/foetus at various gestation ages. The method comprising: receiving, at server, from an input means, the high resolution ultrasound video, through a communication interface; generating, a set of frames from the received high resolution ultrasound video; creating, a collection of region of interests (RoIs) from the generated set of frames; categorizing, the created collection of RoIs, to determine one or more fetal abnormalities, through a machine-trained classifier; and notifying, the determined one or more fetal abnormalities to one or more computing devices, through the communication interface.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001797 A

(19) INDIA

(22) Date of filing of Application :14/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : INTELLIGENT THREE LAYERED SECURITY LOCK

(51) International classification	:G07C 9/00 H04L 29/08 A47G 29/14	(71) Name of Applicant : 1)ABES Engineering College Address of Applicant : CAMPUS 1,19 KM STONE, NH-24, GHAZIABAD, UTTARPRADESH, INDIA-201009 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Dr. Akash Punhani
(32) Priority Date	:NA	2)Dr. Pradeep Singh
(33) Name of priority country	:NA	3)Dr. Shalish Tiwari
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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, method of management of an Intelligent internet of things (IoT) based smart delivery box for receiving one or more packets comprising one or more perishable items, the method box comprising: receiving, a password via an IoT based receiver; matching, the received password with a pre-stored password, to arrange an electronic locking member in an open position to open a container; receiving, one or more packets in the container; activating, an UV radiation source to generate electromagnetic radiation of wavelength in a range of 160-480 nanometer, wherein the generated electromagnetic radiation causes the generation of ionizing radiation within the container; and transmitting, a notification to one or more computing devices, through a network interface.

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

(54) Title of the invention : METHOD FOR PRODUCING PBTTT-C14 FIBERS

(51) International classification	:C07D 495/04 G01N 21/31 D01F 1/10	(71) Name of Applicant : 1)Dr. MANISH KUMAR SINGH Address of Applicant :Assistant Professor, Dept. of Electronics Engg. HBTU Kanpur, UP, India-208002 Uttar Pradesh India 2)Dr. MANOJ KUMAR SHUKLA
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. MANISH KUMAR SINGH
(33) Name of priority country	:NA	2)Dr. MANOJ KUMAR SHUKLA
(86) International Application No	:NA	3)Dr. ASHISH KUMAR
Filing Date	:NA	4)RAJIV PRAKASH
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for producing a poly [2, 5-bis (3- tetradecylthiophen-2-yl) thieno [3,2-b] thiophene (pBTTT-C14) fibers having high aspect ratios using an ageing technique, the method comprising steps of: preparing, a blend of a poor solvent and a rich solvent; adding, a polymer into the prepared blend; subjecting, the polymeric solution to heating; ageing, the heated polymeric solution at room temperature for a predefined time; and monitoring, the formation of the pBTTT-C14 fibers through pp interaction using Ultraviolet-visible spectroscopy.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111001925 A

(19) INDIA

(22) Date of filing of Application :15/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : IOT BASED SMART COMPLAINT BOX

(51) International classification	:H04L 29/08 H04L 12/58 G06Q 30/00	(71)Name of Applicant : 1)Dr.PRABHJOT KAUR SIDHU Address of Applicant :Associate Professor, Department of Information Technology, Maharaja Surajmal Institute of Technology, New Delhi, India - 110058 Delhi India 2)Mr.RONISH SINGH 3)Dr.ANUPAMA KAUSHIK 4)Dr.PUNEET AZAD 5)Dr.KAVITA SHEORAN 6)Dr.KAMALJIT SINGH SAINI 7)Dr.KRISHAN PAL CHAUDHARY
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr.PRABHJOT KAUR SIDHU 2)Mr.RONISH SINGH 3)Dr.ANUPAMA KAUSHIK 4)Dr.PUNEET AZAD 5)Dr.KAVITA SHEORAN 6)Dr.KAMALJIT SINGH SAINI 7)Dr.KRISHAN PAL CHAUDHARY
(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 :

This Invention relates to IoT Based Smart Complaint Box. The complaint box here means, the box which is locked and accepts the complaint written on a piece of paper. This invention is related with the notification and alerting of the presence of complaint in the complaint box immediately as and when received by the Complaint box. The components involved in this invention are Ultrasonic sensor to detect post in the complaint box, ESP8266 (Wi Fi module) to publish data on the cloud in order to trigger E-mail notification and GSM 800/900 module to send notification on mobile phone in the form of SMS alert.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202112001406 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : DRY SCREW VACUUM PUMP

(51) International classification	:F04C 18/16 F04C 25/02 F04C 29/00
(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	:202011043626
Filed on	:07/10/2020

(71)**Name of Applicant :**

1)Everest Blower System Pvt. Ltd.

Address of Applicant :Plot no. 6, Sector 16, HSIIDC,
Bahadurgarh, Dist. Jhajjar Haryana India

(72)**Name of Inventor :**

1)MALHOTRA, Dhruv

2)ZAKIR, Mohammad

(57) Abstract :

Disclosed herein a dry screw vacuum pump comprises a casing connected to a motor, wherein the casing comprises of a driver rotor and a driven rotor, inlet suction port and discharge port, a pair of driver rotor shafts and a pair of driven rotor shafts and a composite sealer encompassed around the rotor shafts on the inlet suction and discharge side, wherein the rotors are having an open machined balancing pockets on their front and rear surface helping in counterbalancing of the dynamic and static imbalance produced in the rotors while the dry screw vacuum pump is operational. The above-mentioned innovative rotor plays a vital role in avoiding premature pump failure and enhancing the service life of the dry screw vacuum pump.

No. of Pages : 16 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921053055 A

(19) INDIA

(22) Date of filing of Application :20/12/2019

(43) Publication Date : 22/01/2021

(54) Title of the invention : DRAFTING INSTRUMENT

(51) International classification :G06Q0040040000,
G06Q0050180000,
B43L0013020000,
G06Q0040060000,
C08J0007040000

(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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DHAYARI, PUNE - 411 068, MAHARASHTRA, INDIA.
Maharashtra India
(72)**Name of Inventor :**
1)KALE SANDIP ACHUTRAO

(57) Abstract :

Drawing isometric views involves significant time and efforts for skilled persons and avoided by the unskilled persons. Additionally, drawing circles, squares and hexagons in isometric views is very important and consumes more time. The present plane drafting instrument is useful for drawing isometric views, as well as for drawing horizontal and vertical lines, parallel and perpendicular lines in orthographic views. The drafting instrument as per this invention consists of the horizontal base portion (1), eleven ruler edges (2 to 12) includes horizontal ruler edges, vertical ruler edges and inclined ruler edges making angles of 30 and 150 degrees. This invention also includes provision to draw isometric views circles different 60 dimensions. Similarly, additional embodiments have the capability to draw squares and hexagons of 60 sizes each.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021006489 A

(19) INDIA

(22) Date of filing of Application :14/02/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ELECTRONIC SEAL

(51) International classification	:G09F0003030000, H01Q0009040000, G06K0019077000, G06K0019073000, G08B0013240000	(71) Name of Applicant : 1)SWASTID AUTO PRODUCTS PVT. LTD. Address of Applicant :36, VIJAY,AMAR SOCIETY,S.No.44/2,ERANDWANE,PUNE 411004, MAHARASHTRA, INDIA Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sunil Chamanlal Patel
(33) Name of priority country	:NA	2)Darshana Sunil Patel
(86) International Application No	:NA	3)Shailendra Vishwas Divekar
Filing Date	:NA	
(87) 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 :

ELECTRONIC SEAL Abstract Disclosed is an electronic seal (100) for identifying or securing the containers and the cargos therein. The electronic seal (100) comprises a first housing (10) accommodating a second housing (11) configured with an electronic circuit board (12) therein and a locking pin (15). The electronic circuit board (12) includes an integrated circuit board, embedded with an RFID operably connected to a patch antenna board, etched with a patch antenna capable of radiating in the presence of an electromagnetic field. The contact between the electronic circuit board (12) and the locking pin (15) through the securing plate (13) completes the electrical circuit and the patch antenna remains radiating until experienced with a failure in the electrical circuit due to disengagement of the locking pin (15) or disruption in the patch antenna board. Thus provides an easy to assemble nonreusable or tamper proof RFID based security device for containers. Figure 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021009612 A

(19) INDIA

(22) Date of filing of Application :05/03/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : MECHANISM FOR CROP PROTECTION AND RAIN WATER HARVESTING

(51) International classification	:A01G0013020000, A01G0009140000, E04H0017000000, H02S0020230000, H02K0001120000	(71) Name of Applicant : 1)VAIBHAV SHIVKUMAR GUNTUK Address of Applicant :ShivManisha Nivas, Tuljabhavani Nagar, Dargah Road, Jalna Maharashtra India 2)VIJAY NANDURDIKAR 3)KHANDU BHADADE
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)VAIBHAV SHIVKUMAR GUNTUK
(33) Name of priority country	:NA	2)VIJAY NANDURDIKAR
(86) International Application No	:NA	3)KHANDU BHADADE
Filing Date	:NA	
(87) 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 mechanism for crop protection and rain water harvesting. Crop protection from severe and disastrous weather has been a major concern over a long time. Undesired and unseasonal rains have caused serious damages affecting the agricultural production. The present invention provides one of the cheapest solutions for above mentioned problems. The said mechanism comprises the horizontal pipes (11) connected to one another with Tee adapter (12) provided for harvesting purpose, wherein the vertical pipes (1) holding the whole covering structure are installed vertically. The whole covering structure includes a guiding bush (2) with rollers (10) from inside for guiding the up and down movement, a locking bush (3) for locking the covering structure in open condition, a support bush (4) for supporting the structure, a linkage system comprising linkage rods 1 (5), linkage rods 2 (6), linkage rods 3 (7), linkage pins (9) and curtain (8) as a covering material. The present invention provides a cheaper, simple and effective solution over the unseasonal rains and for rain water harvesting.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021010101 A

(19) INDIA

(22) Date of filing of Application :09/03/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYSTEM AND METHOD FOR REVENUE AND ASSET MANAGEMENT BASED ON MICRO-SERVICE ARCHITECTURE

(51) International classification	:G06Q0010000000, G06F0016290000, G06K0009620000, G06N0020000000, G06F0017240000	(71) Name of Applicant : 1)Transerve Technologies Private Limited Address of Applicant :111, 112 & 114, Gera Grand, EDC Patto Plaza, Panaji, Goa 403001 Goa India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ashwani Kumar Rawat
(33) Name of priority country	:NA	2)Amarsh Chaturvedi
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :

SYSTEM AND METHOD FOR REVENUE AND ASSET MANAGEMENT BASED ON MICRO-SERVICE ARCHITECTURE
ABSTRACT A system for revenue and asset management based on micro-service architecture is disclosed. The system includes a plurality of containerized micro-service units, configured to manage spatial data information and a plurality of workflows in conjunction with a spatial data managing unit. The system also includes the spatial data managing unit, configured to integrate the plurality of workflows. The spatial data managing unit includes a form designer module, a data collection module, a data analysing module, a verification module and an administrative processing module. The system includes a dashboard unit, configured to display at least one of the collected one or more entries after analysis, the one or more verified entries, and ongoing administrative management of different domains of the revenue and asset management with respect to the property being assessed over a geographical information system map. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021042255 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SEALISURE

(51) International classification	:A61B 17/00	(71) Name of Applicant : 1)DR. PRATIMA SHENOI Address of Applicant :301, ABHINAV RESIDENCY, B-1, PT MASE ROAD, LAXMINAGAR, NAGPUR - 440022, MAHARASHTRA,INDIA. Maharashtra India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	2)DR. RAMKRISHNA SHENOI
Filing Date	:NA	3)DR. SHRIYA SHAHU
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)DR. PRATIMA SHENOI
Filing Date	:NA	2)DR. RAMKRISHNA SHENOI
(62) Divisional to Application Number	:NA	3)DR. SHRIYA SHAHU
Filing Date	:NA	

(57) Abstract :

ABSTRACT The following Specification describes the invention. Sealisure is a novel design for dental instrument pouch for holding items during steam sterilization and storing them in sterile condition after completion of the process. This pouch is made up of silicone ensuring appropriate sterilization of dental instruments. It consists of plurality of close-ended pockets, allowing each to receive an individual instrument. Its unique design allows for simplified cleaning and ease of handling. It is a zero-maintenance way of displaying and later sterilizing hand instrument set for each patient during clinical dental procedures. The additional benefits of this design include protection of instrument tips from puncturing the holder or becoming damaged, and prevention of injuries to users. The flexible design of the pouch facilitates its direct placement over dental instrument tray post-sterilization, allowing reduction in chairside time required for instrument arrangement.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021045993 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : A CUTANEOUS PUNCH BIOPSY INSTRUMENT WITH AN ATTACHED BASE CUTTER AND A TISSUE RETENTION SYSTEM

(51) International classification	:A61B 17/00	(71) Name of Applicant : 1)DR. D. Y. PATIL VIDYAPEETH, PUNE (DEEMED TO BE UNIVERSITY)
(31) Priority Document No	:NA	Address of Applicant :SANT TUKARAM NAGAR, PIMPRI,
(32) Priority Date	:NA	PUNE-411018, MAHARASHTRA, INDIA. Maharashtra India
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)DR. AAYUSH GUPTA
Filing Date	:NA	2)GEETHANJALI RADHAKRISHNAN
(87) International Publication No	: NA	3)JOHN KING
(61) Patent of Addition to Application Number	:NA	4)MOHAMMED IRFAN
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A device and method for performing a routine skin biopsy. A punch biopsy apparatus has: a hollow cylinder body with an internal wire locking apparatus that cuts the tissue by triggering a spring-loaded thrust tube. Thus, the biopsy instrument is able to hold the skin . specimen and sever it from the attaching underlying dermis/fatty tissue and avoid damage to the specimen incidental to its being lifted and held during the severing operation whilst simultaneously minimizing bleeding as well.

No. of Pages : 9 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021046445 A

(19) INDIA

(22) Date of filing of Application :24/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A SYSTEM FOR BLOOD ANALYSIS

(51) International classification	:A61B5/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT
(32) Priority Date	:NA	Address of Applicant :SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT KATOL ROAD, GITTIKHADAN, NAGPUR- 440013 Maharashtra India
(33) Name of priority country	:NA	2)KALAMBE JAYU
(86) International Application No	:NA	3)PALEKAR SANGEETA
Filing Date	:NA	4)PATRIKAR RAJENDRA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)KALAMBE JAYU
Filing Date	:NA	2)PALEKAR SANGEETA
(62) Divisional to Application Number	:NA	3)PATRIKAR RAJENDRA
Filing Date	:NA	

(57) Abstract :

The present invention relates to a system for blood analysis. The object of the invention is to improve performance and accuracy of biochemistry analyzers with the help of image processing. The proposed system is based on the principle of colorimetric. This provides a filter wheel module in system using python language to replace conventional filter wheel assembly. The blood analysis is carried out using CCD sensor [108] and wavelength filtering method. The proposed system comprises CCD sensor [108] to capture cuvette image, LED [103] for illuminating cuvette area, peltier device for maintaining temperature of sample [101] in cuvette [104] along with exhaust fan, peristaltic pump [100] for accurate sample [101] and reagent [102] aspiration, digital processor [107], graphical user interface, display [110] and printer [113].Following invention is described in detail with the help of Figure 1 of sheet 1 showing block diagram of the proposed system.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021049277 A

(19) INDIA

(22) Date of filing of Application :11/11/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A SYSTEM FOR VIRTUAL REALITY ASSISTED TRAINING AND LEARNING

(51) International classification	:G06F 19/00	(71)Name of Applicant : 1)SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT
(31) Priority Document No	:NA	Address of Applicant :SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT KATOL ROAD, GITTIKHADAN, NAGPUR- 440013 Maharashtra India
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	2)HIRA SWATI
Filing Date	:NA	3)NERKAR SNEHAL
(87) International Publication No	: NA	4)FATING HARSHAL
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)HIRA SWATI
(62) Divisional to Application Number	:NA	2)NERKAR SNEHAL
Filing Date	:NA	3)FATING HARSHAL

(57) Abstract :

A SYSTEM FOR VIRTUAL REALITY ASSISTED TRAINING AND LEARNING The present invention relates to a virtual reality assisted training and learning system. The object of the proposed invention is to provide an information technology driven system helps learner to assemble (110), disassemble (111) and maintenance of the computer hardware in a real time virtual environment by drag-and-drop facility. The proposed invention implemented the idea by using a mobile application which will be mounted on a basic virtual reality (VR) box and be controlled by a basic Bluetooth controller. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the diagrammatic representation.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021049278 A

(19) INDIA

(22) Date of filing of Application :11/11/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A COMMUNICATION SYSTEM FOR VISUALLY IMPAIRED PEOPLE

(51) International classification

:H04W
21/00

(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

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3)TOLANI NANCY

4)POPLI SIDDHESH

5)ITKELWAR TANMAY

(72)Name of Inventor :

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2)TOLANI NANCY

3)POPLI SIDDHESH

4)ITKELWAR TANMAY

(57) Abstract :

A COMMUNICATION SYSTEM FOR VISUALLY IMPAIRED PEOPLE The present invention relates to a communication system for visually impaired people. The object is to provide a system which acts as communication channel where physically disabled person can communicate through Morse code with an able person. The communication system is run by system in a python language. The python code converts the scanned text into Morse code. This code is presented by using a set of hardware. Rasberry Pi acts as a medium by which the python code run on Pi to give hardware an output signal. This will help the receiver to easily understand the output in Morse code format. And for opposite side interaction the Morse code will simply be converted into text directly and it will be displayed on the screen. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the working flow diagram of the proposed system.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021049279 A

(19) INDIA

(22) Date of filing of Application :11/11/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A SYSTEM FOR REAL TIME PAYMENT USING RANDOM FACIAL GESTURES

(51) International classification

:G06F
16/00

(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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2)KALYANI KANAK

3)BONGIRWAR VRUSHALI

4)NAIDU DEVISHREE

5)TIRPUDE SHUBHANGI

(72)Name of Inventor :

1)KALYANI KANAK

2)BONGIRWAR VRUSHALI

3)NAIDU DEVISHREE

4)TIRPUDE SHUBHANGI

(57) Abstract :

A SYSTEM FOR REAL TIME PAYMENT USING RANDOM FACIAL GESTURES The present invention relates to a system for real time payment using random facial gestures. The object of the proposed invention is to provide a system and method for preventing theft by asking for on demand facial gesture as an input to authentication module. The proposed invention provides a system which recognizes the user by capturing image from selfie camera (102) and provides a strong authentication mechanism for digital payments. This will be followed by raising request of various facial gestures (104) from user to complete the authentication process. Following invention is described in detail with the help of Figure 1 of sheet 1 showing model structure for online payment security using unique random facial gestures.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021053532 A

(19) INDIA

(22) Date of filing of Application :09/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ANCHOR SYSTEM BASED PIPE PILE FOUNDATION

(51) International classification	:F16B12/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)Khemraj Pandurang shinde
(32) Priority Date	:NA	Address of Applicant :At Post Kusumba, Lane no. 2,cha.
(33) Name of priority country	:NA	Shivaji chowk, Tal & Dist. Dhule, Pin-424302, MS, India
(86) International Application No	:NA	Maharashtra India
Filing Date	:NA	2)Yuvaraj Lomdas Bhirud
(87) International Publication No	: NA	3)Jagruti Adhik Shinde
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Khemraj Pandurang shinde
(62) Divisional to Application Number	:NA	2)Yuvaraj Lomdas Bhirud
Filing Date	:NA	3)Jagruti Adhik Shinde

(57) Abstract :

ANCHOR SYSTEM BASED PIPE PILE FOUNDATION The present invention provides a design and implementation of a mechanical civil structure element in foundation of heavy structure to provide stability and strength by using prongs and roto-reciprocation mechanism (interchangeably hereinafter referred to as Swastik pile foundation •). An anchor device for anchoring an above-ground upright when the device is screwed into soil, includes a drive shaft (1) enclosed inside a hollow cylindrical housing portion (6) having one or more anchors (4) operatively coupled along body of the drive shaft (1). The hollow housing portion comprises one or more perforations (5) along body of the hollow housing portion (6) to allow extension and/or retraction of the one or more anchors (4) therethrough when the hollow cylindrical housing portion (6) is twisted. (FIG. 1)

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021054885 A

(19) INDIA

(22) Date of filing of Application :17/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : EVACUATED TUBE SOLAR AIR HEATER WITH JET IMPINGEMENT SYSTEM

(51) International classification :F16B12/00
(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)DR. T.V. ARJUNAN

Address of Applicant :PROFESSOR AND HEAD,
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TECHNOLOGY, GURU GHASIDAS VISHWAVIDYALAYA
(A CENTRAL UNIVERSITY), BILASPUR, CHHATTISGARH-
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2)MR. A. VEERAKUMAR

3)MR. R. VENKATRAMANAN

4)DR. D. SEENIVASAN

5)DR.M.M. MATHESWARAN

6)DR. S. VIJAYAN

(72)Name of Inventor :

1)DR. T.V. ARJUNAN

2)MR. A. VEERAKUMAR

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5)DR.M.M. MATHESWARAN

6)DR. S. VIJAYAN

(57) Abstract :

Abstract An evacuated tube solar collector with inserted baffles is developed using one ended all glass tubes. This system comprises of a header, evacuated tubes with inserted baffles. An aluminum baffle is inserted for separating air flow path as inlet and outlet in the header. The evacuated tubes are connected to the header section such that the lower portion of the tube is connected with bottom half of the header and the upper half of the tube is connected with top half of the header. The baffle plate is provided with holes at the open end, which allows the air to flow from the lower portion of the tube to top portion. Holes on the baffle plate form the air jets, which impinges on the hot absorber tube surface, where it collects the heat. This system is used to generate hot air at desired temperature by optimizing the flow rate and the baffle hole diameters.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021054890 A

(19) INDIA

(22) Date of filing of Application :17/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : IOT ENABLED SYSTEM FOR CYBER POLICING AT HIGH ALERT CRIMINAL ACTIVITY ZONE (IOT-CPHCZ)

(51) International classification	:G06F16/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Romil Rawat
(32) Priority Date	:NA	Address of Applicant :Department of Computer Science and Engineering , SVIIT , Shri Vaishnav Vidyapeeth Vishwavidyalaya Madhya Pradesh India
(33) Name of priority country	:NA	2)Ms. Sadhna Bijrothiya
(86) International Application No	:NA	3)Mr. Vinod Mahor
Filing Date	:NA	4)Mr. Chandrapal Singh Dangi
(87) International Publication No	: NA	5)Dr. Sudhir Kumar Rathi
(61) Patent of Addition to Application Number	:NA	6)Mr. Sachin Chirgaiya
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)Dr. Sudhir Kumar Rathi
Filing Date	:NA	2)Mr. Chandrapal Singh Dangi
		3)Ms. Sadhna Bijrothiya
		4)Mr. Vinod Mahor
		5)Romil Rawat
		6)Mr. Sachin Chirgaiya

(57) Abstract :

The IoT based system is used to transfer the data to police control room server. The system is designed to put on patrolling for tracking the illegal behaviors and activities, especially for predicting, controlling and quickly responding in the riot situations. The Present Invention generates high_alert message of crime incidents happening or about to happen with location coordinates (GPS), photos, and time bounded video clips (Using Night Vision camera with infrared technology and waterproofing design) to police control room based on the analysis of crime possibility by observing and generating prediction based on defined rules ,and and will track the presence of criminals marked in police record, weapons, crowd gathering, shrieking sound and screaming gestures, bleeding wound in Violence, and Location disturbance scenario observation. Live Object Detection in video streaming and image frames using the Tensorflow API for the analysis and detection of illegal objects (Like weapons) is done using Local Binary Pattern (LBP) ,Histogram of Oriented Gradients (HOG) and artificial neural network (ANN) with back propagation algorithm (BPA) for classification.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021054891 A

(19) INDIA

(22) Date of filing of Application :17/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DESIGN AND DEVELOPMENT OF MEDICINE DISPENSING UNIT WITH PREDICTION OF ILLNESS USING MACHINE LEARNING

(51) International classification	:A61B5/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR. K. RAJESHWARI
(32) Priority Date	:NA	Address of Applicant :PIMPRI CHINCHWAD COLLEGE
(33) Name of priority country	:NA	OF ENGINEERING, SECTOR NO. 26, PRADHIKARAN,
(86) International Application No	:NA	NIGDI, PUNE - 411044, MAHARASHTRA, INDIA.
Filing Date	:NA	Maharashtra India
(87) International Publication No	: NA	2)AHIRE HEMANGI SUNIL
(61) Patent of Addition to Application Number	:NA	3)BHOSALE ADITI SANJAY
Filing Date	:NA	4)JADHAV SWAPNIL SANJAY
(62) Divisional to Application Number	:NA	5)JAYBHAY AVINASH YUVRAJ
Filing Date	:NA	6)PROF. CHAUDHARI ANAGHA NEELKANTH
		(72)Name of Inventor :
		1)DR. K. RAJESHWARI
		2)AHIRE HEMANGI SUNIL
		3)BHOSALE ADITI SANJAY
		4)JADHAV SWAPNIL SANJAY
		5)JAYBHAY AVINASH YUVRAJ
		6)PROF. CHAUDHARI ANAGHA NEELKANTH

(57) Abstract :

Abstract Due to the unavailability of medical facilities in some areas, Medicine Dispensing machines can be used for fulfilling the primary health care requirement. The proposed system uses an automated intelligent prediction algorithm along with traditional vending machines controlled by the microcontroller embedded with sensors. The system will take oral symptoms and certain physiological parameters as the input from the patient and predicts the illness using Machine Learning Algorithms. The prescription predicted will be authenticated by the doctor and then the machine will dispense the medicine. The proposed system works user-friendly and is available 24 x 7.

No. of Pages : 12 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021054933 A

(19) INDIA

(22) Date of filing of Application :17/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ENZYME IMMUNOASSAY FOR QUALITATIVE DETERMINATION OF ATEZOLIZUMAB NEUTRALIZING ANTIBODY IN HUMAN SERUM AND PLASMA

(51) International classification	:C12M21/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)KALPESH JAIN C/O KRISHGEN BIOSYSTEMS
(32) Priority Date	:NA	Address of Applicant :UNIT NO. #117, SHAH & NAHAR,
(33) Name of priority country	:NA	WORLI, MUMBAI-400018, MAHARASHTRA, INDIA.
(86) International Application No	:NA	Maharashtra India
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)KALPESH JAIN C/O KRISHGEN BIOSYSTEMS
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

6. ABSTRACT OF THE INVENTION The KRIBIOLISA,, Atezolizumab (TECENTRIQ) Neutralizing Antibody ELISA is a competitive ligand binding assay (CLBA) for Qualitative Determination of Neutralizing Antibodies to Atezolizumab in human serum and plasma. Atezolizumab (trade name Tecentriq) is a fully humanized, engineered monoclonal antibody of IgG1 isotype against the protein programmed cell death-ligand 1 (PD-L1). In 2015, it was in clinical trials as an immunotherapy for several types of solid tumors. It was under investigation by Genentech/Roche. In April 2016, Roche announced that atezolizumab had been granted fast track status for lung cancer by the FDA. Anti-Drug Antibodies (ADA) may induce unwanted side effects in biopharmaceuticals. Hence, ADA has been subjected to increase in scrutiny by the regulatory authorities using immunogenicity safety studies. ADA has been observed in pre-clinical and clinical studies, resulting in significant changes in toxicology, pharmacokinetics and efficacy. These effects result from the generation of drug-induced (neutralizing) autoantibodies against Atezolizumab and can be responsible for allergic reaction, or even anaphylactic shock. This ELISA kit detects neutralizing antibodies for Atezolizumab and may be used for monitoring immunogenicity. Note:- Repeat boxes in case of more than one entry. To be signed by the applicant(s) or by authorized registered patent agent. Name of the applicant should be given in full, family name in the beginning. Complete address of the applicant should be given stating the postal index no./code, state and country. Strike out the column(s) which is/are not applicable.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021054935 A

(19) INDIA

(22) Date of filing of Application :17/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ENZYME IMMUNOASSAY FOR QUALITATIVE ESTIMATION OF DEGARELIX IN HUMAN SERUM AND PLASMA AND CELL CULTURE SUPERNATANT.

(51) International classification	:C12C 11/00	(71) Name of Applicant : 1)KALPESH JAIN C/O KRISHGEN BIOSYSTEMS Address of Applicant :UNIT NO. #117, SHAH & NAHAR, DR. E. MOSES ROAD, WORLI, MUMBAI-400 018, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)KALPESH JAIN C/O KRISHGEN BIOSYSTEMS
(87) 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 :

6. ABSTRACT OF THE INVENTION Degarelix is used for the treatment of advanced prostate cancer. Degarelix is a synthetic peptide derivative drug which binds to gonadotropin-releasing hormone (GnRH) receptors in the pituitary gland and blocks interaction with GnRH. This antagonism reduces luteinizing hormone (LH) and follicle-stimulating hormone (FSH) which ultimately causes testosterone suppression. Reduction in testosterone is important in treating men with advanced prostate cancer. US FDA approved the same as drug under the trade name Firmagon in December 2008. The ELISA is a competitive immunoassay for the determination of Degarelix. A constant concentration of Degarelix coated on the microplate and varying concentration of standard or sample will compete for binding to degarelix agonist. Detection antibody against the agonist conjugated to HRP is added to form a complex. The complex will produce a soluble colored product on substrate addition. The enzyme reaction is stopped by dispensing of Stop Solution into the wells. The optical density (OD) of the solution at 450 nm is inversely proportional to the amount of bound Degarelix present in standards or samples.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021054967 A

(19) INDIA

(22) Date of filing of Application :17/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A PHARMACEUTICAL COMPOSITION OF NITAZOXANIDE AND MEFLOQUINE AND METHOD THEREOF

(51) International classification	:A61K 31/00	(71) Name of Applicant : 1)CHANDER MOHAN NEGI Address of Applicant :FLAT NO. 1002, B-2, ACE AVIANA, NR 'BLDG' NEXT TO ASHOK SMRUTI, KASARVADAVALI NAKA, G.B. ROAD, THANE(W), 400615, MAHARASHTRA, INDIA Maharashtra India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)CHANDER MOHAN NEGI
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A pharmaceutical composition for treating Covid-19 virus comprising a therapeutically effective amount of a nitazoxanide or its pharmaceutically acceptable salts thereof and an mefloquine or its pharmaceutically acceptable salts thereof is disclosed. The pharmaceutical composition comprises the nitazoxanide in the ratio of 0.05% to 66% w/v and the mefloquine in the ratio of 0.05% to 90% w/v. The composition is found to be effective for the treatment of COVID -19 (SARS-CoV2). The pharmaceutical composition of nitazoxanide and mefloquine has been found to be effective and is unexpectedly well tolerated with a low rate of side-effects, and equally high cure-rates than in comparable treatments.

No. of Pages : 18 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055079 A

(19) INDIA

(22) Date of filing of Application :17/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : NOVEL FIVE NECKED DIFFERENTIAL ORGANIC REACTION CONDENSER DEVICE

(51) International classification	:F16B12/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)Ranjit Shashikant Jadhav
(32) Priority Date	:NA	Address of Applicant :A/P- Dushare, Tal- Karad, Dist- Satara-
(33) Name of priority country	:NA	415110 Maharashtra, India Maharashtra India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Ranjit Shashikant Jadhav
(87) 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 related to a novel five necked differential organic reaction condenser device. More particularly the present invention relates to device for multiple and differential reaction condensers for performing organic synthesis reaction.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055090 A

(19) INDIA

(22) Date of filing of Application :18/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : NHAM- COMBINED HEALTH MONITORING: IOT- BASED COMBINED HEALTH MONITORING, NOTIFICATION, HOME AUTOMATION AND MEDICINE PREDICTION SYSTEM.

(51) International classification	:A61B 17/00	(71)Name of Applicant : 1)Prof. SAURABH AVINASH TEJPAL (ASSISTANT PROFESSOR) Address of Applicant :TERNA ENGINEERING COLLEGE PLOT NO 12, SECTOR 22, OPP. NERUL RAILWAY STATION, PHASE II, NERUL(W), NAVI MUMBAI 400706, INDIA. Maharashtra India
(31) Priority Document No	:NA	2)B.V. SUBBAYAMMA (ASSISTANT PROFESSOR)
(32) Priority Date	:NA	3)Dr. SWATI N. DESHMUKH (ASSOCIATE PROFESSOR)
(33) Name of priority country	:NA	4)Prof.(Dr.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)
(86) International Application No Filing Date	:NA :NA	5)Miss. PARI NIDHI SINGH
(87) International Publication No	: NA	6)Prof. (Dr.) BEG RAJ (DIRECTOR)
(61) Patent of Addition to Application Number Filing Date	:NA :NA	(72)Name of Inventor : 1)Prof. SAURABH AVINASH TEJPAL (ASSISTANT PROFESSOR)
(62) Divisional to Application Number Filing Date	:NA :NA	2)B.V. SUBBAYAMMA (ASSISTANT PROFESSOR) 3)Dr. SWATI N. DESHMUKH (ASSOCIATE PROFESSOR) 4)Prof.(Dr.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS) 5)Miss. PARI NIDHI SINGH 6)Prof. (Dr.) BEG RAJ (DIRECTOR)

(57) Abstract :

ABSTRACT Our Invention • NHAM- Combined Health Monitoring • is a data collection system a high resolution and a high data rate and sends a low-resolution and down defined version of the data to a remote server via a wireless network. The Indented technology also includes the advanced server automatically analyzes the less detailed data to detect an anomaly and a Two-tiered analysis is used where the first tier is less specific than the second tier than the third tier. The Indented technology also includes the received data and make it available to a user and the invented technology also includes the is an advanced patient monitoring concept and a sensor is coupled to a patient and configured to detect biometric data associated with the patient and a mobile computing device includes a memory that stores computer-executable instructions and a processor executes the computer-executable instructions. The Indented technology also includes a monitoring system for a person includes a processor coupled to one or more wireless nodes a #4-G mobile appliance in communication with the client and more then two wireless nodes and one or more computer implemented agents with rules executed by the processor the rules being selected to respond to a client communication relating. The invented technology also includes the to a predetermined health condition each agent communicating with another computer implemented agent the client or the treatment professional, and upon receiving a communication from the client, the processor selecting one or more computer implemented agents to reply with an instruction on healthy client behavior.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055176 A

(19) INDIA

(22) Date of filing of Application :18/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A PROCESS FOR CONTROLLED IN-SITU COAL GASIFICATION AND A FILLING DEVICE TO OPERATE THE SAME

(51) International classification	:F16D3/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)JAYANT CHANDULAL MEHTA
(32) Priority Date	:NA	Address of Applicant :FLAT NO.4, MHADA VASAHAT,
(33) Name of priority country	:NA	NARENDRA NAGAR, NAGPUR, MAHARASHTRA, 440015,
(86) International Application No	:NA	INDIA Maharashtra India
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)JAYANT CHANDULAL MEHTA
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A process for controlled in-situ coal gasification is disclosed. The process includes surveying one or more selected coal bearing sites for designing a plurality of panels; designing a plurality of sub-panels of a plurality of corresponding panels with a plurality of bi-directional boreholes and a plurality of vertical service boreholes; channelizing the plurality of bi-directional boreholes and vertical service boreholes to one or more layers of coal seams; constructing one or more coal slice areas of predefined dimensions within the one or more layers of the coal seams; combusting coal inside the one or more coal slice areas; extracting combusted coal from the one or more coal slice areas through the plurality of vertical service boreholes; monitoring physical condition of at least one cavity created by extraction of the combusted coal; controlling remote filling of a filling material simultaneously at the at least one cavity using the filling device. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055331 A

(19) INDIA

(22) Date of filing of Application :18/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : THE THERMAL DEVICE FILLED WITH DI WATER-BASED ALUMINUM OXIDE AND COPPER OXIDE HYBRID NANO FLUID

(51) International classification	:C22C 22/00	(71)Name of Applicant : 1)Bumataria, Rakesh Kantilal (Beneficiary of GTU SSIP IP Filing Scheme) Address of Applicant :Research Scholar of Gujarat Technological University, B/H Primary School, Vadi Vistar, At. Ambardi (Gajabhi), Ta. Bhanvad, City Devbhumi Dwarka,Gujarat , INDIA, 360515 Gujarat India
(31) Priority Document No	:NA	2)Chavda, Neerajkumar Kabirdin (Beneficiary of GTU SSIP IP Filing Scheme)
(32) Priority Date	:NA	3)Vala, Monicaba Mahendrasinh (Beneficiary of GTU SSIP IP Filing Scheme)
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)Bumataria, Rakesh Kantilal (Beneficiary of GTU SSIP IP Filing Scheme)
Filing Date	:NA	2)Chavda, Neerajkumar Kabirdin (Beneficiary of GTU SSIP IP Filing Scheme)
(87) International Publication No	: NA	3)Vala, Monicaba Mahendrasinh (Beneficiary of GTU SSIP IP Filing Scheme)
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The thermal device filled with di water-based aluminum oxide and copper oxide hybrid nano fluid comprising Two different nano additives, Aluminium oxide (Al₂O₃) and Copper Oxide CuO), were used in, wherein three different combinations of hybrid nanofluids such as 25wt% Al₂O₃-75wt% CuO (hybrid fluid-1#Al₂O₃:CuO(25:75)/DI Water), 50wt% Al₂O₃-50wt% CuO (hybrid fluid-2#Al₂O₃:CuO(50:50)/DI Water) and 75wt% Al₂O₃-25wt% CuO (hybrid fluid-3#Al₂O₃:CuO(75:25)/DI Water). Al₂O₃:CuO(75:25) / DI water as a working medium with 60° inclination angle yields better thermal performance when operated in the range of 60-160W heat input due to synergic effect. The present invention carried by the provided the screen mesh wicked heat pipe by applying combined form of aluminium oxide and copper oxide-based hybrid nanofluids as working medium, wherein combination of hybridization of nanoparticles aluminum oxide and copper oxide (25% Al₂O₃-75%CuO, 50% Al₂O₃-50%CuO, 75% Al₂O₃-25%CuO) in DI water as base fluid were used in heat pipe.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055337 A

(19) INDIA

(22) Date of filing of Application :19/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : EFFICIENT ALGORITHM FOR TRACKING OF OBJECT IN VIDEO CAMERA NETWORK AND THEIR ESTABLISHMENT THEREOF •

(51) International classification	:G06F 19/00	(71) Name of Applicant : 1)Dr. Mukesh Tiwari
(31) Priority Document No	:NA	Address of Applicant :123 Amrit Enclave Ayodhya By Pass
(32) Priority Date	:NA	Bhopal Madhya Pradesh India-462041 Madhya Pradesh India
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)Dr. Mukesh Tiwari
Filing Date	:NA	
(87) 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 of this present work is to establishment work based on the multiple targets tracking in an environment with human detection and tracking application thereof. Also the present invention work involves with target tracking and its management in real time application. The thesis includes the work of Data processing from sensor as camera, using Gaussian Mixture Model (GMM) background subtraction method for object detection and mapping it with 2D map of an environment using blob analysis, Bayesian, Kalman and Multiple Hypothesis Tracking (MHT) algorithm thereof.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055414 A

(19) INDIA

(22) Date of filing of Application :20/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ADVANCED SUPPLY CHAIN LINK PERFORMANCE AND FINANCIAL STATEMENT ANALYZER.

(51) International classification	:G06T7/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Dr. Paritosh Dube , Associate Professor, Faculty of Commerce & Management
(32) Priority Date	:NA	Address of Applicant :Kalinga University, Raipur, Kotni Near
(33) Name of priority country	:NA	Mantralaya Naya Raipur 492101 (CG) India. Chattisgarh India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr. Paritosh Dube , Associate Professor, Faculty of Commerce & Management
(87) 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 :

ABSTRACT Our Invention is an apparatus, technology, methods and media for providing a supply chain link performance change indicator and mapping link. The invented technology is also including the methods and media may involve a processor module, a receiver module, a checking module, a integrated module and an output device. The invented technology the processor module may provide to a user a vector selection control and the receiver module may receive financial data corresponding to the supply chain link and supply chain mapping link. The invented technology the financial data may include a plurality of vectors and the receiver may receive via the vector selection control a first vector identifier corresponding to a first vector in the plurality of vectors and a second vector identifier corresponding to a second vector in the plurality of vectors. The invented technology the indicator may be used to understand and interpret financial performance trends of an entity, determine creditworthiness of an entity, determine the likelihood that a borrowing entity will repay a debt, examine entity credit limits and portfolios for adherence to policies and procedures, appropriate risk ratings, and sound underwriting and determine any other suitable financial health characteristics of the entity.

No. of Pages : 24 No. of Claims : 5

(54) Title of the invention : INTELLIGENT DATASET DISCOVERY IN DATA ANALYTICS AND MACHINE LEARNING ALGORITHM.

(51) International classification	:G06F 19/00	(71) Name of Applicant : 1)Mr. Rahul Mishra, Assistant Professor, Faculty of Engineering & Technology.
(31) Priority Document No	:NA	Address of Applicant :Kalinga University, Raipur, Kotni Near
(32) Priority Date	:NA	Mantralaya Naya Raipur 492101 (CG) India. Chattisgarh India
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)Mr. Rahul Mishra, Assistant Professor, Faculty of Engineering & Technology.
Filing Date	:NA	
(87) 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 :

ABSTRACT Our Invention is a system for synthesizing new datasets from a corpus of data sources and the system analyzes attributes between the different datasets between the data sources to determine if there are possible relationships between the attributes. The dataset discovery is also a possible relationship is identified, the system could generate a confidence metric between 0%-50 %, 51% to 100% reflecting how likely it is that the attributes are relate and the system could then synthesize a new dataset as a function of the generated confidence metri. The dataset discovery is also recitation of ranges of values herein is merely intended to serve as a shorthand method of referring individually to each separate value falling within the range and also includes unless otherwise indicated herein each individual value is incorporated into the specification as if it were individually recited herein. The dataset discovery the methods described herein can be performed in any suitable order unless otherwise indicated herein or otherwise clearly contradicted by context and the use of any. For examples: The exemplary language (e.g. such as •) provided with respect to certain embodiments herein is intended merely to better illuminate the invention and does not pose a limitation on the scope of the invention otherwise claimed. No language in the specification should be construed as indicating any non-claimed element essential to the practice of the invention.

No. of Pages : 26 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055416 A

(19) INDIA

(22) Date of filing of Application :20/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : INTELLIGENT METHOD AND PROCESS TO EXTRACTION OF SILICA FROM RICE HULLS.

(51) International classification	:C02F3/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Dr. Shilpi Shrivastava ,Associate Professor, Faculty of Science.
(32) Priority Date	:NA	Address of Applicant :Kalinga University, Raipur, Kotni Near
(33) Name of priority country	:NA	Mantralaya , Naya Raipur 492101 (CG) India. Chattisgarh India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr. Shilpi Shrivastava ,Associate Professor, Faculty of Science.
(87) 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 :

ABSTRACT Our invention a kind of in the rice husk process and Deep learning programming technology of extraction of high quality pure silica. The rice husk is placed in the defined volume hermetically sealed can, add respectively then red , green fuming nitric acid and concentration be 29% to 32% hydrogen peroxide in rice husk other composition also add H₂O + O₂ : H₂O₂(by weight) be 1: 45 or 1: 50 or rice husk : H₂O₂ Be 2: 4 or 1: 5, H₂O₂ : H₂O + NO₂ + O₂ : HNO₃(volume ratio) is 12 : 2 Or 10 : 1, H₂O₂With the hermetically sealed can volumetric ratio be 1.2 : 4.9 or 1: 5, tighten sealed tank cap, in 1480C to 150 of lower insulations 2 to 3 hours; Naturally be chilled to room temperature, open sealed tank cap, to neutral, can obtain purity and be the silica approx. 98.9999% with deionized water rinsing. This method is easy and simple to handle, and extraction rate is fast, and raw material sources are abundant, low production cost. The Invented technology also includes a resides in an efficient plant nutrient obtained from the rice husk without firing the husk, whereby the extract having rich content of dissolved silica in the range of 5 to 20 %. The invented technology skilled in the art can be motivated from the invention and modify application of the said extract from crop to crop and such modification should be construed within the scope and spirit of the invention.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055417 A

(19) INDIA

(22) Date of filing of Application :20/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : HERBAL DISINFECTANT (LIQUID, POWDER, SEMI- LIQUID) FOR PANDEMIC CONDITION (COVID19).

(51) International classification	:A61K 31/00	(71) Name of Applicant : 1)Mr. Sudeep Kumar, Assistant Professor, Faculty of Pharmacy.
(31) Priority Document No	:NA	Address of Applicant :Kalinga University, Raipur, Kotni Near
(32) Priority Date	:NA	Mantralaya, Naya Raipur 492101 (CG) India. Chattisgarh India
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)Mr. Sudeep Kumar, Assistant Professor, Faculty of Pharmacy.
Filing Date	:NA	
(87) 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 :

ABSTRACT My invention is an herbal disinfectant composition that destroys harmful microorganisms to maintain hygiene. It containing Neem Extract, Tulshi Extract, Eucalyptus Extract, Citrus Extract, clove Extract, cinnamon extracts & soapnut etc. in different concentration. The composition may also include one or more of natural fragrance, lubricant, plant-derived phytochemicals, antimicrobial component or plant-derived essential oil. These compositions can be formulated as herbal disinfectant and also The disinfectant liquid and antichloristic powder is prepared with mixer like 1: Edible alcohol. 2: Alive centipede. 3: Alive pallas pit viper.4: Alive black snake.5: Royal jelly.6: Notoginseng. 7: Honeysuckle. 8: Bamboo leaf. 9: Cactus.10: aloe vera ,11: Other required things(Etc). The invention has the advantage of using alcohol to extract the active matter in toxic wild animals to make medicine liquid with functions of strongly killing Covid19, virus, pathogenetic bacteria. Clinical application of the invention shows that it has certain treating effect on skin ulcer caused by wound infection, Covid19, virus, fungi and bacteria. The invented technology also includes herbal ingredients may be selected from a group including Vetiver, Mentha, Rosemary, Ocimum, Ajowan, Geranium, Palmarosa, Celery, Salvia, Thyme, Coriander, Cardamom, Cinnamon, Clove, Ginger, Patchouli, Fennel, Lavender, Lemon, Lime, Orange, Jasmine, Chamomile, Nutmeg, Cumin and the like. The invention is the formulation can further comprise carbon dioxide, wherein the formulation can be carbonated with carbon dioxide and the formulation can further comprise one or more sweetening agents, wherein the one or more sweetening agents can be selected from a group comprising artificial sweetening agents in the concentration range of 1—10-5 g to 2—10-1 µg per L and natural sweetening agents in the concentration range up to 1.46—10-1M.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055418 A

(19) INDIA

(22) Date of filing of Application :20/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ANALYSIS OF THE VARIOUS SCHOOLS OF THOUGHT IN RELATION TO THE MEANING OF LAW.

(51) International classification	:G06F 16/00	(71) Name of Applicant : 1)Mrs. Shobha Singh Thakur, Assistant Professor, Faculty of Law.
(31) Priority Document No	:NA	Address of Applicant :Kalinga University, Raipur, Kotni Near
(32) Priority Date	:NA	Mantralaya, Naya Raipur 492101 (CG) India. Chattisgarh India
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)Mrs. Shobha Singh Thakur, Assistant Professor, Faculty of Law.
Filing Date	:NA	
(87) 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 :

Analysis of The Various Schools of Thought in Relation to the Meaning of Law. ABSTRACT Our Invention is a method for providing online education is disclosed and the method may comprise receiving first data via a first user interface (UI •) comprising a parent student portal (PSP •), receiving second data via a second user interface (UI •) comprising a learning management system (LMS •), receiving third data via a third user interface (UI •) comprising a student information system (SIS •), and storing the first data, the second data, and the third data to a central data repository (CDR •). The invented technology also includes the method may further comprise enabling customization of at least one of the first UI, the second UI, and the third UI by an education provider. Further still, the method may comprise filtering data based upon a filter criterion, and communicating a notification to a plurality of users based upon the filtering.

No. of Pages : 26 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055419 A

(19) INDIA

(22) Date of filing of Application :20/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ADVANCED MOBILE AD HOC NETWORK (MANET) PROVIDING CONNECTIVITY ENHANCEMENT SYSTEM.

(51) International classification	:G06F19/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Mr. Rahul Chawda, Assistant Professor, Faculty of Information Technology.
(32) Priority Date	:NA	Address of Applicant :Kalinga University, Raipur, Kotni Near Mantralaya, Naya Raipur 492101 (CG) India. Chattisgarh India
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)Mr. Rahul Chawda, Assistant Professor, Faculty of Information Technology.
Filing Date	:NA	
(87) 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 :

Advanced Mobile Ad hoc Network (MANET) Providing Connectivity Enhancement System. Abstract Our Invention Mobile Ad hoc Network System is a mobile ad hoc network (MANET) may include a plurality of mobile nodes each including a wireless communications device and a controller connected intelligent system. The invented system also includes a determine whether a QoS metric for the selected route falls below the threshold and at a lower protocol layer, the controller may cooperate with the wireless communications device to transmit data to the at least one destination mobile node via the at least one selected route. The invented system also the cooperate with the wireless communications device at the lower protocol layer to adjust signal transmission power, pattern, and gain based upon a determination that the QoS metric has fallen below the QoS threshold. The lower protocol layer may be a physical layer and additionally, the QoS threshold may be based upon at least one of available bandwidth, error rate, end-to-end delay, end-to-end delay variation (i.e., jitter), hop count, expected path durability, and priority, for example: The invented system at least one intermediate protocol layer below the upper protocol layer, at least one route may be selected for transmitting data to at least one destination mobile node based upon the QoS threshold, and it may also be determined whether a QoS metric for the selected route falls below the QoS threshold.

No. of Pages : 21 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055420 A

(19) INDIA

(22) Date of filing of Application :20/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : HUMAN ACTIVITY RECOGNITION USING SMARTPHONE.

(51) International classification	:G06F19/00	(71) Name of Applicant : 1)Dr. M.S. Mishra ,Professor, Faculty of Arts and Humanities.
(31) Priority Document No	:NA	Address of Applicant :Kalinga University, Raipur, Kotni Near
(32) Priority Date	:NA	Mantralaya, Naya Raipur 492101 (CG) India. Chattisgarh India
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)Dr. M.S. Mishra ,Professor, Faculty of Arts and Humanities.
Filing Date	:NA	
(87) 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 :

ABSTRACT Our invention human activity recognition is a kind of human action identification system utilizing intelligent mobile phone sensor platform and correlation technique and also utilizes multiple sensors integrated in smart mobile phone and network connection service devise the online human action identification system of a kind of client end/server end framework, solve the unfixing sensor axis caused of mobile phone attitude to the problem of information dropout by designing the attitude correction algorithm of a kind of multi-sensor information fusion. The invented technology also utilizes sliding window that acceleration time series carries out the scheme of feature extraction, and utilize multi-kernel support vector machine to carry out multi-modal information assembled classification. In this patent, the human action identification system utilizing intelligent mobile phone sensor platform of design has general and effectiveness. The human activity recognition is a method for automatic recognition of human activity is provided and includes the steps of decomposing human activity into a plurality of fundamental component attributes needed to perform an activity and defining ontologies of fundamental component attributes from the plurality of the fundamental component attributes identified during the decomposing step for each of a plurality of different targeted activities. The invention also includes the steps of converting a data stream captured during a performance of an activity performed by a human into a sequence of fundamental component attributes and classifying the performed activity as one of the plurality of different targeted activities based on a closest match of the sequence of fundamental component attributes obtained during the converting step to at least a part of one of the ontologies of fundamental component attributes defined during the defining step. A system for performing the method is also disclosed.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055421 A

(19) INDIA

(22) Date of filing of Application :20/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ADVANCED QUANTUM COMPUTING INTEGRATED DEVELOPMENT EDUCATION ENVIRONMENT USING IOT-BASED SYSTEM.

(51) International classification	:G06F 16/00	(71) Name of Applicant : 1)Dr. Harsha Patil, Assistant Professor, Faculty of Education.
(31) Priority Document No	:NA	Address of Applicant :Kalinga University, Raipur, Kotni Near
(32) Priority Date	:NA	Mantralaya, Naya Raipur 492101 (CG) India. Chattisgarh India
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)Dr. Harsha Patil, Assistant Professor, Faculty of Education.
Filing Date	:NA	
(87) 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 :

Patent Title: Advanced Quantum Computing Integrated Development Education Environment Using IoT-Based System. ABSTRACT
Our Invention is a computer-implemented, quantum computer method provides an educational environment in a virtual reality setting and individuals navigate a virtual reality campus by using an avatar to interact with other users and to engage in learning experiences in the virtual setting. The invented technology also includes virtual reality campus emulates a physical campus by providing meeting spaces and work areas where students spontaneously share information and complete pre-planned tasks. The database also links to other systems such as a registration database so that the students entire learning experience on both a physical campus and in virtual reality can be conveniently accessed electronically.

No. of Pages : 28 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055426 A

(19) INDIA

(22) Date of filing of Application :20/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A SYSTEM FOR DEVELOPMENT OF GERMICIDAL PROPERTIES IN AC UNITS BY APPLICATION OF ULTRAVIOLET LIGHT.

(51) International classification	:F16D3/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)VAIBHAV VERMA
(32) Priority Date	:NA	Address of Applicant :D20/7, NEW RAJENDRA NAGAR
(33) Name of priority country	:NA	Chattisgarh India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)VAIBHAV VERMA
(87) 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 current invention portrays to application of ultraviolet electromagnetic radiation in disinfection of air flowing through air conditioning and air cooling systems (AC unit) by installing a UV source device inside the AC unit. Herein, air flowing through the AC unit is exposed to ultraviolet range of electromagnetic radiation and the UV light eliminates the microorganisms and pathogens present in the airstream by damaging their DNA/RNA and also automatically eliminating odour from the airstream. This invention also provides methods to further enhance the efficiency of the system with the use of photocatalyst and/or by installation of reflective materials in the unit and also provides methods to control the switch on/off state of the UV source device. Hence, providing the facility of eliminating bacteria, virus, fungus, etc. present in air hence disinfecting the air stream flowing through the AC unit.

No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055427 A

(19) INDIA

(22) Date of filing of Application :20/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A SYSTEM FOR DEVELOPING GERMICIDAL PROPERTIES IN AC UNITS BY EXTERNALLY INSTALLING AN ULTRAVIOLET SOURCE DEVICE.

(51) International classification	:F16B12/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)Vaibhav Verma
(32) Priority Date	:NA	Address of Applicant :D20/7, NEW RAJENDRA NAGAR,
(33) Name of priority country	:NA	RAIPUR Chattisgarh India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Vaibhav Verma
(87) 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 current invention portrays to application of ultraviolet electromagnetic radiation in disinfection of air flowing through air conditioning and air cooling systems (AC unit). Herein, a UV source device is installed externally/outside the AC unit such that the air flowing through the AC unit is exposed to ultraviolet range of electromagnetic radiation emitted by the device and the UV light eliminates the microorganisms and pathogens present in the airstream by damaging their DNA/RNA and also automatically eliminating odour from the airstream. Also, an enclosure/cover is installed in order to prevent the escape/leakage of the UV light in the surroundings. This invention also provides methods to further enhance the efficiency of the system with the use of photocatalyst and by installation of reflective materials in the unit and also provides methods to control the switch on/off state of the UV source device. Hence, providing the facility of eliminating bacteria, virus, fungus, etc. present in air, hence disinfecting the air stream flowing through the AC unit.

No. of Pages : 28 No. of Claims : 11

(54) Title of the invention : AUTONOMOUS DRONE BASED CYBER POLICING ASSISTANCE AT CRITICAL RISK SCENARIO USING AI AND MACHINE LEARNING TECHNIQUE

<p>(51) International classification :G06T7/00</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr. Romil Rawat Address of Applicant :Mr. Romil Rawat , Assistant Professor, SVIIT , Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore (MP), India Madhya Pradesh India</p> <p>2)Dr. Sudhir Kumar Rathi</p> <p>3)Mr. Sumit Dhariwal</p> <p>4)Mr. Vinod Mahor</p> <p>5)Ms. Sadhna Bijrothiya</p> <p>6)Mr. Avinash Raipuria</p> <p>7)Ms. Anita Sharma</p> <p>8)Mr. Chandrapal Singh Dangi</p> <p>9)Mr. Sachin Chirgaiya</p> <p>(72)Name of Inventor :</p> <p>1)Mr. Romil Rawat</p> <p>2)Dr. Sudhir Kumar Rathi</p> <p>3)Mr. Sumit Dhariwal</p> <p>4)Mr. Vinod Mahor</p> <p>5)Ms. Sadhna Bijrothiya</p> <p>6)Mr. Avinash Raipuria</p> <p>7)Ms. Anita Sharma</p> <p>8)Mr. Chandrapal Singh Dangi</p> <p>9)Mr. Sachin Chirgaiya</p>
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(57) Abstract :

The invention provides rapid cyber drone assistance to person in emergency situation just by dialing the SoS Number (Emergency Number).The Intelligent Drone is well equipped with high quality camera for taking images and Video recordings, and Voice recorder, with helping sound and message announcement for assistance connected with cloud environment for storing the collected data analyzed using given interface by cyber Police assistance system. The Autonomous Drone is based on Decision support system for performing self Piloting or Self-navigation operations for aerial imagery based on Machine Learning, Computer Vision, Natural Language Processing (NLP) and Deep Neural Network(Convolutional Neural Networks) Techniques with High quality Training dataset used for illicit activity identification, involved person tracking if found in database, detect and avoid collision with midair flying route Object obstacles using sensors configuration. The log report is also generated at the control server and scheduled to send designated higher official for analysis of assistance provided to caller (Victim) with other relevant details. The artificial Intelligence used in Autonomous Drone ,processes data efficiently and generates reports in real time environment enabled with public safety features.

No. of Pages : 16 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055474 A

(19) INDIA

(22) Date of filing of Application :21/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : TAKAGI SUGENO FUZZY RULE BASED SYSTEM TO QUANTIFYING IMPACT ON ENVIRONMENT

(51) International classification	:G06N7/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)DILENDRA BHAURAO JASUTKAR
(32) Priority Date	:NA	Address of Applicant :A-13, OM SHANTI HOME, VETAL
(33) Name of priority country	:NA	NAGAR AMBEGAON, KATRAJ, PUNE - 411046,
(86) International Application No	:NA	MAHARASHTRA, INDIA. Maharashtra India
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)MR. DILENDRA BHAURAO JUSUTKAR
(61) Patent of Addition to Application Number	:NA	2)DR. ARIF KHAN
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

11. Abstract The present study shows a new and rigorous methodology based on fuzzy logic for the design and subsequent assessment of impact on environment. It is a versatile methodology which enables the design of specific indexes addressed to evaluate the quality in any compartment of the environment air, water, noise, land and biodiversity, and social-economic from different perspectives depending on the attributes included in the index. The information required for the design and assessment of the index should be supplied by a local authority and stockholders, which should include experts in all the different aspects of environment.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055655 A

(19) INDIA

(22) Date of filing of Application :21/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A SYSTEM FOR SIMULATION OF COLLISION RESISTANT SECURE SUM PROTOCOL AND METHOD THEREOF

(51) International classification	:G06F 16/00	(71)Name of Applicant : 1)Dr. Samiksha Shukla Address of Applicant :Associate Professor and HOD, Department of Data Science, CHRIST (Deemed to be University), Pune Lavasa Campus, Dasve, Lavasa, Pune Maharashtra India
(31) Priority Document No	:NA	2)Dr. Durgesh Kumar Mishra
(32) Priority Date	:NA	3)Dr. G Sadashivappa
(33) Name of priority country	:NA	4)Dr. Jossy P George
(86) International Application No	:NA	5)Kapil Tiwari
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Dr. Samiksha Shukla
(61) Patent of Addition to Application Number	:NA	2)Dr. Durgesh Kumar Mishra
Filing Date	:NA	3)Dr. G Sadashivappa
(62) Divisional to Application Number	:NA	4)Dr. Jossy P George
Filing Date	:NA	5)Kapil Tiwari

(57) Abstract :

[044] The present invention discloses a system for simulation of collision resistant secure sum protocol and method thereof. The present invention discloses a simulation apparatus, system and method thereof having a computation system conjugated with a processor and a Trusted Third Party (TTP) system provided on a computation server system, in which computing, by the Trusted Third Party (TTP) system having an initiator, and via the processor, for number of party, packets per party and anonymizers; providing a random number by a Distributed Randomized Secure Sum (DRSS) protocol in the batches by using a random function, with predefined varying parameters to test the protocol in different predefined settings; analysing & testing, after completion of the each run of the above steps and outcome produced; and providing comparative analysis, after completing a batch run with the average of the time. Accompanied Drawing [FIG. 1]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055672 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : A FLAT RICE (KHICHIYA) PAPAD DRYER

(51) International classification	:F16D3/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)SHAH RAKESHKUMAR PRAMODBHAI
(32) Priority Date	:NA	Address of Applicant :103, COPPER STONE-B, TOWER,
(33) Name of priority country	:NA	SADHUVASWANI ROAD, RAJKOT-360 005, GUJARAT,
(86) International Application No	:NA	INDIA. Gujarat India
Filing Date	:NA	2)VARIA NILESH PRAFULCHANDRA
(87) International Publication No	: NA	3)VARIA DEVANG PRAFULCHANDRA
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor :
Filing Date	:NA	1)SHAH RAKESHKUMAR PRAMODBHAI
(62) Divisional to Application Number	:NA	2)VARIA NILESH PRAFULCHANDRA
Filing Date	:NA	3)VARIA DEVANG PRAFULCHANDRA

(57) Abstract :

ABSTRACT This invention is related to Flat Rice (khichiya) Papad Dryer which is useful in drying the rice papad without much distortion in their shape. This invention is less man power intensive so can take more production in same man power and is also faster than natural drying. It helps eliminate different problems like exposure to dust which are faced in natural drying process. Moreover, this invention allows -drying of Rice Papad in any weather condition and in much smaller area. It also reduces the packaging size and makes the transportation of rice papad easier. The invention is also helpful as it ensures uniform drying.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055692 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR CHECKING EQUALITY OF DATA USING PRIVACY-PRESERVING IDEAL MODEL

(51) International classification	:G06F11/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)Rashid Sheikh
(32) Priority Date	:NA	Address of Applicant :Acropolis Institute of Technology and
(33) Name of priority country	:NA	Research, Computer Science and Engineering, Indore, Associate
(86) International Application No	:NA	Professor Madhya Pradesh India
Filing Date	:NA	2)Dr. Durgesh Kumar Mishra
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Rashid Sheikh
Filing Date	:NA	2)Dr. Durgesh Kumar Mishra
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a system and method for checking equality of data using privacy-preserving Ideal Model. The present invention discloses a computation system conjugated with a processor and a TTP system provided on a computation server system, in which all the participating parties who wish to check the equality of their individual data use a common hash function. All the parties supply hash code of their data to the third party (TTP) system. The TP system checks all these hash value for equality. The result of equality check is announced to all the parties. The privacy of the data among participating parties is preserved as these parties do not communicate with each other. Similarly, the data is also hidden from the TP as it receives hash value, not the actual data. The system and method is suitable for semi-honest adversary. Accompanied Drawing [FIG. 1]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055696 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : N.H. SPRINGLE AIR

(51) International classification	:F16B12/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)NEEL DIPENKUMAR RAJANI
(32) Priority Date	:NA	Address of Applicant :Shrikunaj • , Jalaram 2, Shivsangam
(33) Name of priority country	:NA	society, Near indira circle, Rajkot 360005 Gujarat, India. Gujarat
(86) International Application No	:NA	India
Filing Date	:NA	2)VRITIKA DIPENKUMAR RAJANI
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)NEEL DIPENKUMAR RAJANI
Filing Date	:NA	2)VRITIKA DIPENKUMAR RAJANI
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

N.H. SPRINGLE AIR The present invention is the air pollution control device which controls air pollution by using various materials. This device is works on electric power supply as well as solar system. This device is handy and easy to install and handle. This device has vary in size based on requirements. This device reduces amount of sulfur dioxide, nitrogen oxide and carbon monoxide. The present device also increases amount of oxygen.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055735 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : ENERGY EFFICIENT CLUSTERING PROTOCOL FOR V-MIMO WIRELESS SENSOR NETWORK

(51) International classification	:H04W 16/00	(71) Name of Applicant : 1)MONALI PRAJAPATI Address of Applicant :Student from GTU Affiliated College 1101, Sky One Apartment, Near Saint Ann TM s School, Inside Sterling City, Bopal, Ahmedabad Gujarat-380058, India Gujarat India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)MONALI PRAJAPATI
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In recent times, many Medium Access Control (MAC) protocols were implemented for boosting and improving Energy Efficiency (EE) in wireless sensor networks (WSNs) i.e LEACH (Low Energy Aware Cluster Head selection protocol). Clustering has been proven to be one of the most efficient techniques for saving energy of WSNs. However, in a hierarchical cluster based WSN, cluster heads (CHs) consume more energy due to extra overload for receiving and aggregating the data from their member sensor nodes and transmitting the aggregated data to the base station. Therefore, the proper selection of CHs plays a vital role to conserve the energy of sensor nodes for prolonging the lifetime of WSNs. Swarm intelligence is an emerging field of biologically-inspired artificial intelligence based on the behavioural models of social insects such as ants, bees, wasps, termites etc. In this invention, we propose an energy efficient cluster head selection method which is based on Swarm Intelligence Optimization techniques with underlying Virtual MIMO architecture for WSN. The proposed protocol architecture has been modelled and simulated with results showing overall reduced energy consumption in end- to end packet delivery in multi hop wireless sensor networks.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021055740 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : A NOVEL MIRNA 21 EXPRESSION OPTIMAL CUTOFF VALUE AS PREDICTOR OF LYMPH NODE METASTASIS IN PATIENTS WITH ORAL SQUAMOUS CELL CARCINOMA

(51) International classification	:A61K 31/00	(71) Name of Applicant : 1)DR. KIRAN BALASAHEB JADHAV
(31) Priority Document No	:NA	Address of Applicant :F4, ROYEL HEIGHTS, NEAR
(32) Priority Date	:NA	AINAPURE HOSPITAL, RAJHANS SOCIETY, VIJAY
(33) Name of priority country	:NA	NAGAR-416 416, SANGLI, MAHARASHTRA, INDIA.
(86) International Application No	:NA	Maharashtra India
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)DR. KIRAN BALASAHEB JADHAV
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract The present invention related to a novel miRNA 21 expression optimal cutoff value as predictor of lymph node metastasis in patients with oral squamous cell carcinoma. Moreover present invention related to histopathologic examination of excised cervical lymphnodes revealed 52.30% patients with positive metastasis and 47.69% patients with negative metastasis. The cutoff values were for saliva miRNA 21-3p is 2.16, for saliva miRNA 21- 5p is 2.32, for Tissue miRNA 21-3p is 0.89 and for Tissue miRNA 21-5p is 1.80. In this study we have observed that when the miRNA 21 expression is above the cut off score the more chances of presence of lymph node metastasis is there and vice versa.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021056020 A

(19) INDIA

(22) Date of filing of Application :23/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : QR CODE BASED DIGITAL INFORMATION CARD (DIC) CONTAINING EMERGENCY INFORMATION FOR AUTOMOBILE DRIVER IN CRISIS SITUATION. DIGITAL INFORMATION CARD FOR VEHICLE USER HOLDING ALL THE PERSONAL AND VITAL VEHICLE DOCUMENTS AND INFORMATION

(51) International classification	:G06F19/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)Vinayak Baliram Gayakwad
(32) Priority Date	:NA	Address of Applicant :At/Post-Borgaon, Tal-Panhala, Dist-
(33) Name of priority country	:NA	Kolhapur 416230 Maharashtra India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Vinayak Baliram Gayakwad
(87) 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 mainly pointed on a QR code based Digital Information Card (hereinafter DIC •) wherein in the situation of emergency the first responder (the person helping the DIC holder) can scan the QR code based Digital Information Card printed/engraved/laser printed on the keys/smart key of the vehicle /keychain to retrieve the Name, Address, Photograph, Mobile No., Emergency Contact / Mobile Nos. (Set by the User) in the system, Medical Information, Vehicle Documents, & Insurance details (Personal & Vehicle) of the User (hereinafter Emergency Information •).

No. of Pages : 18 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021056051 A

(19) INDIA

(22) Date of filing of Application :23/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : NOVEL NAPHTHYRIDINE COMPOUNDS AND PROCESS FOR PREPARATION THEREOF

(51) International classification	:C05F17/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)PAL, DILIPKUMAR
(32) Priority Date	:NA	Address of Applicant :SLT INSTITUTE OF
(33) Name of priority country	:NA	PHARMACEUTICAL SCIENCES GURU GHASIDAS
(86) International Application No	:NA	VISHWAVIDYALAYA (A CENTRAL UNIVERSITY) KONI,
Filing Date	:NA	BILASPUR, C.G., 495 009, INDIA Chattisgarh India
(87) International Publication No	: NA	2)GURJAR, VINOD KUMAR
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)PAL, DILIPKUMAR
(62) Divisional to Application Number	:NA	2)GURJAR, VINOD KUMAR
Filing Date	:NA	

(57) Abstract :

ABSTRACT NOVEL NAPHTHYRIDINE COMPOUNDS AND PROCESS FOR PREPARATION THEREOF The present invention provides a novel compound 1-benzyl-4-oxo-1,4-dihydro-1,8-naphthyridine-3-carboxylic acid of the following Formula I effective in the treatment of ovarian cancer Formula I or a pharmaceutically acceptable salt, a pharmaceutically acceptable solvate, a prodrug, a polymorph, an N-oxide or a S-oxide thereof.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021056087 A

(19) INDIA

(22) Date of filing of Application :23/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : AN ELECTRIC BROACHING PRESS OPERATING WITH AN ELECTRIC CYLINDER

(51) International classification	:H01L21/00
(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)Bhutada Nikhil Ramesh
Address of Applicant :# 19, ~Shubham™, Bungalow,
Chakradhar Society, Takli Road, Nasik-422011, Maharashtra,
India Maharashtra India
(72)**Name of Inventor :**
1)Bhutada Nikhil Ramesh

(57) Abstract :

AN ELECTRIC BROACHING PRESS OPERATING WITH AN ELECTRIC CYLINDER ABSTRACT An electric broaching press 1 with electric cylinder 4 having a ball nut assembly with internal linear guide way support 5 is presented herewith. The ball nut assembly 5 is driven by electric motor 2 through set of pulleys 4a. Rotational motion generated by the electric motor 2 is transmitted into linear motion by a ball screw and nut assembly 8. The ball screw and nut assembly 8 comprises a ball nut 8a, a ball nut housing 8b, and a ball screw 8c. The ball screw 8c transmits the rotational energy in to linear energy to a piston rod 12. The piston rod 12 causes vertical displacement and is attached to a cantilever support structure 20a holding broach tool to carry out broaching operation. <<To be published with Fig. 3>>

No. of Pages : 26 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021056096 A

(19) INDIA

(22) Date of filing of Application :23/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A HIGH TORQUE DENSITY SYNCHRONOUS RELUCTANCE MOTOR

(51) International classification	:F16D3/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)KESHRI RITESH KUMAR
(32) Priority Date	:NA	Address of Applicant :ELECTRICAL ENGINEERING
(33) Name of priority country	:NA	DEPARTMENT, VNIT NAGPUR SOUTH AMBAZARI ROAD,
(86) International Application No	:NA	NAGPUR-440010, MAHARASHTRA Maharashtra India
Filing Date	:NA	2)PANDA SIBASISH
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)KESHRI RITESH KUMAR
Filing Date	:NA	2)PANDA SIBASISH
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A HIGH TORQUE DENSITY SYNCHRONOUS RELUCTANCE MOTOR The present invention relates to a high torque density synchronous reluctance motor. The object is to provide a high torque density synchronous reluctance motor utilizing non-magnetic radial ribs. Synchronous reluctance motors rated 1 kW at 1500 rpm are fabricated and prototyped using cold rolled non-grain oriented (CRNO) steel of M19 grade (104). The design of the rotor is differ from conventional motor while the stator and winding parameters remain unchanged. The titanium (102) component is mounted inside the flux barriers (101)in order to minimize the leakage flux along q-axis with adequate mechanical strength for high speed operations. $\sim H^{\text{TM}}$ shaped titanium components (102) are fabricated so that the axial and radial movement of the titanium (102) component is prevented. The axial motion is avoided by applying two Bakelite sheets at both ends of the rotor. Once the titanium components are fabricated, they are inserted in the radial ribs by using epoxy resin and hydraulic pressure.

No. of Pages : 19 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021056103 A

(19) INDIA

(22) Date of filing of Application :23/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A METHOD OF STIRRING FLUID USING HORIZONTAL STIRRER DEVICE

(51) International classification	:F16D3/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)MAITRY BHATIYA
(32) Priority Date	:NA	Address of Applicant :11, Pramukh park Society, near
(33) Name of priority country	:NA	Dhanlaxmi complex, Waghodia Dabhoi Ring Road, Vadodara-
(86) International Application No	:NA	390025, India Gujarat India
Filing Date	:NA	2)MUKESH BHATIYA
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)MAITRY BHATIYA
Filing Date	:NA	2)MUKESH BHATIYA
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

TITLE: A METHOD OF STIRRING FLUID USING HORIZONTAL STIRRER DEVICE ABSTRACT A method of stirring fluid using horizontal stirrer device is to provide an apparatus wherein a method of stirring fluid using a method of stirring fluid using horizontal stirrer device comprising stirrer which is mount at parallel to the plane of the horizon wherein stirrer is a non-magnetic stirrer or magnetic stirrer is a device. Moreover, a horizontal stirrer device also consisting of motor; motor shaft; cylindrical rod; full driving supporting plate; stirrer; container; hose connection inlets; outlets; nozzle; valve.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021056204 A

(19) INDIA

(22) Date of filing of Application :24/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ECOFRIENDLY THIN LAYER CHROMATOGRAPY USING HYDROTROPY AND A METHOD THEREOF

(51) International classification :C02F2103/00
(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)Dr. R.K Maheshwari

Address of Applicant :Shri G.S Institute of Technology & Science 23, Sir M. Visvesvaraya Marg, Vallabh Nagar, Indore, Madhya Pradesh 452003 Madhya Pradesh India

2)Anirudh Padiyar

(72)Name of Inventor :

1)Dr. R.K Maheshwari

2)Anirudh Padiyar

3)Anuj Jain

4)Pawan Jat

5)Harshal Wadhvani

6)Ayushi Mohadikar

7)Isha Kalaria

(57) Abstract :

The invention relates to eco-friendly thin layer chromatography process using hydrotropic solutions as mobile phase precluding the use of organic solvents. A large number of organic solvents, viz. butanol, acetic acid, hexane, acetone, chloroform, ether, ethyl acetate, ethanol, toluene, dichloromethane, xylene, heptane, and cyclohexane are employed to perform thin-layer chromatography (TLC) of various drugs. Most of these organic solvents are costly and hazardous to health. Some have been reported to be carcinogenic. To a certain extent, such solvents are responsible for environmental pollution also. Also, their disposal requires stringent procedures which makes the process both costly and typical. In the present investigation, hydrotropic and mixed hydrotropic solutions were employed as mobile phase to perform TLC of poorly water-soluble drugs precluding the use of organic solvents.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021056208 A

(19) INDIA

(22) Date of filing of Application :24/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : 3D PRINTING BASED DESIGN AND DEVELOPMENT OF TOUCHLESS SENSOREENABLED HAND AND ROOM SANITIZER MACHINE

(51) International classification	:H01L21/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR. MOHIT GANGWAR
(32) Priority Date	:NA	Address of Applicant :(DEAN-ENGINEERING) FACULTY
(33) Name of priority country	:NA	OF ENGINEERING, BHABHA UNIVERSITY, BHOPAL,
(86) International Application No	:NA	MADHYA PRADESH 462026, INDIA. Madhya Pradesh India
Filing Date	:NA	2)DR. SANJAY KUMAR
(87) International Publication No	: NA	3)DR. SAURABH PAL
(61) Patent of Addition to Application Number	:NA	4)DR. VEER P. GANGWAR
Filing Date	:NA	5)DR. SWATI JAIN
(62) Divisional to Application Number	:NA	6)DR. UMESH KUMAR
Filing Date	:NA	(72)Name of Inventor :
		1)DR. MOHIT GANGWAR
		2)DR. SANJAY KUMAR
		3)DR. SAURABH PAL
		4)DR. VEER P. GANGWAR
		5)DR. SWATI JAIN
		6)DR. UMESH KUMAR

(57) Abstract :

By the name of Covid-19, which also hit India in February 2020, many people got infected. They died out of those mostly suffering from a disease that came in early 2020. WHO noticed that this disease is mostly transmitted by hand and mouth from one person to another person. They declared, with the aid of sanitizer and soap, to wear a mask and use sanitizer or wash hands frequently and properly. Many business organizations developed a Touchless Hand Sanitizer Dispenser that was expensive for individuals. When this disease infects our city and our neighborhood, our elders decided to purchase expensive machines for their use. The cost of those machines is Rs. 3000 to Rs. 6000 on the market. We are talking about why we cannot make this machine at a low and affordable price to hit every person according to their wallet. We went forward and manufactured this machine at a very low-cost price of Rs. 300, which is our product price. The unique and novel machine is to design and develop using 3D printing technology. The machine works on touchless sensor-based technology and very handy to move and operate. Its primary use to sanitize room and hand. The machine can also use to sanitize a 5x5 square feet area around a chair or sitting place.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021056213 A

(19) INDIA

(22) Date of filing of Application :24/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A CURING AGENT , A PROCESS FOR PREPARATION AND APPLICATION THEREOF

(51) International classification	:C06C 11/00	(71) Name of Applicant : 1)PALADIN PAINTS AND CHEMICALS PRIVATE LIMITED
(31) Priority Document No	:NA	Address of Applicant :UNIT NO-204, MONARCH
(32) Priority Date	:NA	CHAMBERS, MAROL MAROSHI ROAD, MAROL NAKA,
(33) Name of priority country	:NA	ANDHERI (E), MUMBAI-400059, MAHARASHTRA INDIA
(86) International Application No	:NA	Maharashtra India
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)DR. DATTATRAYA PANDURANG BARDE
(61) Patent of Addition to Application Number	:NA	2)DR. RAKESH NAMA PATIL
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is directed to phenalkamide curing agent of general formula (I) and a process for preparation thereof. The present invention further directed to an epoxy paint composition based on phenalkamide curing agent of formula (I).

No. of Pages : 48 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021056289 A

(19) INDIA

(22) Date of filing of Application :24/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A LEARNING ASSISTANCE DEVICE AND A METHOD THEREOF

(51) International classification	:H04W 21/00	(71) Name of Applicant : 1)KARISHMA RODRIGUES Address of Applicant :C-301, NATASHA HILLVIEW, NIBM ROAD, KONDHWA, PUNE, 411048, MAHARASHTRA, INDIA Maharashtra India
(31) Priority Document No	:NA	2)JASON RODRIGUES
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)KARISHMA RODRIGUES
(86) International Application No	:NA	2)JASON RODRIGUES
Filing Date	:NA	
(87) 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 learning assistance device is disclosed. The device includes a frame (70) including a circular center subframe (20) and at least four circular side subframes (30, 40, 50, 60). Each subframe includes a base plate (80) to display concepts/sub-concepts associated with a language. The at least four circular side subframes includes a first surface having a first rotating disc (90) and the second surface having a second rotating disc (140). The circular center subframe includes a first surface to display a color key comprising color codes of rules/types/structures of sentences associated with the language and second surface comprises a third rotating disc (200). The first rotating disc, the second rotating disc and the third rotating disc includes an undercut (160) and rotated to line up the undercut with a predefined place corresponding to the concepts/sub-concepts to reveal the rules/structures. Each subframe includes a pop-out tab (100) coupled to the corresponding base plate and indicate a concept/sub-concept from the concepts/sub-concepts present on the corresponding base plate. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021056309 A

(19) INDIA

(22) Date of filing of Application :24/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : UNIFIED PROVISIONING FRAMEWORK FOR VIRTUAL MACHINE PLACEMENT OPTIMIZATION IN A CLOUD DATA CENTER

(51) International classification	:G06F11/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)Darshan Maheshbhai Shah
(32) Priority Date	:NA	Address of Applicant :40 krishna Corner Society, Anandwadi,
(33) Name of priority country	:NA	Isanpur Road, Ahmedabad 382443. Gujarat, India. Gujarat India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Darshan Maheshbhai Shah
(87) International Publication No	: NA	2)Dr. M Vinayaka Murthy
(61) Patent of Addition to Application Number	:NA	3)Dr. Anand Kumar
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a method for optimizing Virtual Machine placement of one or more requests from a plurality of resources available on hosts in a cloud environment. In one embodiment, this is accomplished by the steps including (a) receiving a computing request from a user to deploy for use of at least one virtual machine (VM), where the request indicates a set of data or configuration to be instantiated, (b)reading the requested values in association with the indicated VM from the VM Queue, and initializing a plurality of variables including assigning VM request details and the number of VMs need to process, and setting the respective request constraints and objective, (c) identifying a plurality of potential hosts for VMs in response to the computing request, wherein the step of identifying comprising getting hosts and VMs list, generating a lower bound for each VMs in the list, creating a graph model by allocating one or more color based on number of resources, check for any monochromatic clique on the created graph, and placing the identified VM to the host accordingly, and (d) mapping all the VMs requests to hosts based on the above step (c).

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021056313 A

(19) INDIA

(22) Date of filing of Application :24/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DEVICE FOR STATIC POWER GENERATION

(51) International classification	:H01L 31/00	(71) Name of Applicant : 1)Nitin Prabhakar Naik
(31) Priority Document No	:NA	Address of Applicant :160, Nandanvan Colony, Nagpur, Maharashtra, Pin Code- 440024 Maharashtra India
(32) Priority Date	:NA	
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)Nitin Prabhakar Naik
Filing Date	:NA	
(87) 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 :

DEVICE FOR STATIC POWER GENERATION A device for static power generation is disclosed. The static power generator comprises of a static rotor unit 120, a battery unit 110, a battery charging unit 160, a pulse distribution unit 130, a pulse triggering unit 140 and a transformer unit150. The said static rotor unit 120 includes an oscillator unit 170, a pulse generator unit 180, an output circuit of pulse generator 190 and a pulse feedback unit. The static rotor unit 120 consumes DC supply from battery unit 110 and provides a series of pulses to transformer unit 150 through pulse distribution unit 130 and pulse triggering unit 140. The complete assembly with all non-moving parts generate rotating magnetic field that induces electromagnetic force (EMF) in the secondary winding of transformer and a three phase power is generated. (Fig. 1 For Publication)

No. of Pages : 25 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021056370 A

(19) INDIA

(22) Date of filing of Application :24/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : IMPROVED PROCESS FOR PREPARATION OF ANTHRANILAMIDES

(51) International classification :A01N43/00
(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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1)MANE, Avinash Sheshrao
2)JANI, Nilesh N.
3)SHAH, Kenal V
4)SHAH, Bhavesh V
5)SERVAIYA, Nikulsinh.
6)PATEL, Ritesh

(57) Abstract :

The present disclosure is directed to simple, efficient and economically viable process for preparing anthranilamide compounds of Formula I useful as insecticidal agents for combating harmful pests, such as insects which destroy agricultural plants and crops.

No. of Pages : 34 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021056371 A

(19) INDIA

(22) Date of filing of Application :24/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : POWER GENERATION SYSTEM

(51) International classification :H01L21/00
(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 :In Front of Shriram Vidhyalaya,
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2)YENCHEWAD, Yashoda Somnath
(72)**Name of Inventor :**
1)WAGHMARE, Ganesh Vasant
2)YENCHEWAD, Yashoda Somnath

(57) Abstract :

A power generation system is disclosed. The power generation system includes a first housing partially submerged in a body of water, and having openings on a side wall to receive water in an hollow interior from the body of water; a first storage tank submerged in the body of water; a penstock hydraulically coupled between first housing and the first storage tank to carry water from the first housing to the first storage tank; a turbine configured between the penstock and the first storage tank; and a second housing partially submerged in the body of water, and hydraulically connected to the first storage tank through an inlet opening for receiving water from the first storage tank. The turbine is coupled to a generator that generates electric power when the turbine is rotated by the water flowing through the penstock to the first storage.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021057345 A

(19) INDIA

(22) Date of filing of Application :31/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYSTEM FOR GENERATING GERMICIDAL PROPERTIES IN AIR CONDITIONING SYSTEMS IN VEHICLES USING ULTRAVIOLET LIGHT.

(51) International classification	:F16B12/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)Vaibhav Verma
(32) Priority Date	:NA	Address of Applicant :S/o RAMESH KUMAR VERMA,
(33) Name of priority country	:NA	D20/7, NEW RAJENDRA NAGAR Chattisgarh India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Vaibhav Verma
(87) 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 :

Abstract : System for generating germicidal properties in air conditioning systems in vehicles using ultraviolet light. The current invention portrays to application of ultraviolet electromagnetic radiation in disinfection of air flowing through air conditioning and air circulation systems (AC system) in vehicles by installing a UV source device inside the vehicle. Herein, air flowing through the AC system is exposed to ultraviolet range of electromagnetic radiation and the UV light eliminates the microorganisms and pathogens present in the airstream by damaging their DNA/RNA and also automatically eliminating odour from the airstream. This invention also provides methods to further enhance the efficiency of the system with the use of photocatalyst materials and/or by installation of reflective materials in the system. Hence, providing the facility of eliminating bacteria, virus, fungus, etc. present in air therefore disinfecting the airstream flowing through the AC system.

No. of Pages : 31 No. of Claims : 8

(54) Title of the invention : METHODS AND SYSTEMS FOR DISPLAYING ON MAP CURRENT OR NEAREST AND NEARBY OR SEARCHED AND SELECTED LOCATION(S), GEO-FENCE(S), PLACE(S) AND USER(S) AND IDENTIFYING ASSOCIATED PAYMENTS AND ACCOUNT INFORMATION FOR ENABLING TO MAKE AND RECEIVE PAYMENTS

(51) International classification	:H04W0004021000, G06Q0050000000, G06Q0030060000, G06Q0030020000, G06F0016480000	(71) Name of Applicant : 1)RATHOD, Yogesh Address of Applicant :1502/A, Mahavir Residency, L.B.S. Marg, Mulund (W), Mumbai 400080 Maharashtra India
(31) Priority Document No	:PCT/IB2019/050436	(72) Name of Inventor : 1)RATHOD, Yogesh
(32) Priority Date	:18/01/2019	
(33) Name of priority country	:International Bureau of the World Intellectual	
(86) International Application No	:PCT/IB2020/050281	
Filing Date	:15/01/2020	
(87) International Publication No	:WO 2020/148658	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Various embodiments of a system, methods, platform, and device relates to enabling user to directly make payment to current or nearest place or particular place or searched or selected place on map associated merchant or user. In another embodiment identifying and scanning QR code image or file based on current location of user device and directly make payment from user's account to said QR code associated merchant's account from user's mobile device, wherein QR code associated with particular place of business. The present invention also relates to displaying multi-tasking control labeled as location or geofence specific geofilters and enable user to capture photo or video and integrate selected geofilter with said captured or recorded or selected one or more types of media or contents. Present invention also relates to displaying multi-tasking control labeled as suggestion for taking particular type of media at particular place or location or pre-defined geofence. Present invention also relates to view products from augmented reality system or application or specific camera application and select one or more products to add to cart to make order. Present invention also relates to preparing contents an attach or integrate one or more controls with said prepared contents and share with one or more types of contacts, users of network and destinations.

No. of Pages : 247 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121000460 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYSTEM FOR DISINFECTING WATER IN DOMESTIC AND MUNICIPAL WATER STORAGE TANKS USING ULTRAVIOLET LIGHT.

(51) International classification	:H01L21/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)VAIBHAV VERMA
(32) Priority Date	:NA	Address of Applicant :S/o SHRI RAMESH KUMAR
(33) Name of priority country	:NA	VERMA, D20/7, NEW RAJENDRA NAGAR Chattisgarh India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)VAIBHAV VERMA
(87) 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 :

Abstract : System for disinfecting water in domestic and municipal water storage tanks using ultraviolet light. The current invention portrays to application of ultraviolet electromagnetic radiation in disinfection of water stored in domestic and municipal water storage tanks by installing a UV source device inside it. Herein, water in the tank is exposed to ultraviolet range of electromagnetic radiation and the UV light eliminates the microorganisms and pathogens present in the water by damaging their DNA/RNA. This invention also provides methods to further enhance the efficiency of the system with the use of photocatalyst materials and/or by installation of reflective materials in the system. Hence, providing the facility of eliminating bacteria, virus, fungus, etc. present in water therefore disinfecting the water stored in the tanks.

No. of Pages : 23 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121000624 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYSTEM FOR DEVELOPING GERMICIDAL PROPERTIES IN FANS BY APPLICATION OF ULTRAVIOLET LIGHT.

(51) International classification	:H01L21/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1)VAIBHAV VERMA
(32) Priority Date	:NA	Address of Applicant :S/o RAMESH KUMAR VERMA,
(33) Name of priority country	:NA	D20/7, NEW RAJENDRA NAGAR Chattisgarh India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)VAIBHAV VERMA
(87) 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 :

Abstract : A system for developing germicidal properties in fans by application of ultraviolet light. The current invention portrays to application of ultraviolet electromagnetic radiation in disinfection of air flowing through fans by installing a UV source device on or near the fan. Herein, air flowing through the fan is exposed to ultraviolet range of electromagnetic radiation and the UV light eliminates the microorganisms and pathogens present in the airstream by damaging their DNA/RNA and also automatically eliminating odour from the airstream. This invention also provides methods to further enhance the efficiency of the system with the use of photocatalyst materials in the system. Hence, providing the facility of eliminating bacteria, virus, fungus, etc. present in air hence disinfecting the air stream flowing through the fan.

No. of Pages : 25 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941036170 A

(19) INDIA

(22) Date of filing of Application :09/09/2019

(43) Publication Date : 22/01/2021

(54) Title of the invention : AUTOMATIC DISPENSING, COOKING AND SERVING APPARATUS, AND METHOD OF OPERATING THE SAME

(51) International classification	:A23K0020147000, C12P0019040000, B82Y0030000000, C22B0003000000, C08L0097020000	(71) Name of Applicant : 1)EVOCHEF LLP Address of Applicant :Co working Desk no 49, Level 2, Agnitio Tech Park, 141, Kandanchavadi, Near Perungudi, OMR, Chennai, Tamil Nadu 600096, India. Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)MADHURA PRIYA S.
(33) Name of priority country	:NA	2)SENTHILNATHAN L.
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :
attached

No. of Pages : 40 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041001723 A

(19) INDIA

(22) Date of filing of Application :14/01/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : WHEEL STEERING CONTROL SYSTEM

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71) Name of Applicant : 1)BEML Limited Address of Applicant :BEML Soudha, 23/1, 4th Main, Sampangirama Nagar, Bengaluru - 560 027, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)MOHAN RAO, Lakshmann Rao
(33) Name of priority country	:NA	2)BETTEGOWDA, Roopa
(86) International Application No	:NA	3)SAH, Sanjay Kumar
Filing Date	:NA	4)GOSWAMI, Sushanta
(87) 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 provides for wheel steering control system (100). In the wheel steering control system (100) a steering mode select switch (108) configured to select a desired steering mode, an interface circuit (103) configured to provide the steering mode selection signal for processing in ECU to activate the selected steering mode operation of the vehicle, plurality of sensors (116) configured to detect the wheel positions. An user interface (119) configured to indicate the steering mode selection and to display detected error of the system and a logic and delay circuit (104) configured to detect and store the last steering mode selected, before the vehicle is turned off and to restore the vehicle in same mode once ignition is ON.

No. of Pages : 18 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041001866 A

(19) INDIA

(22) Date of filing of Application :15/01/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PROGRESSIVE INDUCTION HARDENING COIL

(51) International classification	:A23K0020147000, C12P0019040000, B82Y0030000000, C22B0003000000, C08L0097020000	(71) Name of Applicant : 1)BEML Limited Address of Applicant :BEML Soudha, 23/1, 4th Main, Sampangirama Nagar, Bengaluru - 560 027, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SIVA, Baranithar
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A device (100) for progressive induction hardening of V-groove profile components comprising a single turn closed loop hollow copper tube (102) and an angular quench box (106) is disclose. In the present progressive induction hardening, the component is heated at one end and progressively heated to another end of the component. The said progressive induction hardening results in local and uniform heating of the component in the required area with less heat affected zone. After heating, the component is quenched by using an angular quench box (106) wherein the quenching fluid adapted is water or polymer. The induction heating coil (102) and the quench box (106) are separately insulated to eliminate arc in the coil during process. Further, the progressive induction hardening eliminates an overheating, soft patches, cracks, heat affected zone and uneven hardening pattern of the components.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041002471 A

(19) INDIA

(22) Date of filing of Application :20/01/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ELECTRONICALLY CONTROLLED ROTARY TYPE INTAKE AND EXHAUST VALVES OF AN ENGINE

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71) Name of Applicant : 1)BEML Limited Address of Applicant :BEML Soudha, 23/1, 4th Main,Sampangirama Nagar,Bengaluru - 560 027, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GOVINDARAJ, Durai Raj
(33) Name of priority country	:NA	2)PRAKASAVELAYUTHAM, Sathish
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 electronically controlled rotary type intake and exhaust valves of an engine. The system comprises at least one valve, a valve shaft, an actuator, a solenoid and an electronic control unit. The electronic control unit controls rotary motion of the valves by actuating the actuator attached to the valve shaft to rotate the valve shaft and linear motion of valve by actuating the solenoid attached to the valve shaft based on the certain engine and vehicle parameters. In one embodiment of the invention the certain engine and vehicle parameters may include TDC reference, speed of the engine & the vehicle, torque and temperature of the engine.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041002472 A

(19) INDIA

(22) Date of filing of Application :20/01/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A FLOWMETER CALIBRATION SYSTEM AND METHOD OF FLOW METER CALIBRATION THEREOF

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71) Name of Applicant : 1)BEML Limited Address of Applicant :BEML Soudha, 23/1, 4th Main,Sampangirama Nagar,Bengaluru - 560 027, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DUDHE, Chhatrashal Maroti
(33) Name of priority country	:NA	2)GADI, Giridhar Kumar
(86) International Application No	:NA	3)SANTHOSHAM, Sathian
Filing Date	:NA	4)VENKATACHALAM, Jeyaraman
(87) 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 flow meter calibration of a given flow meter is disclosed. The system is characterized by a vertically suspended tank type gravimetric static weighing system. The flow meter calibration system comprises a vertically suspended weighing tank (W1) configured to collect a fluid from a direction control valve 2 (11), a sump tank (S1) mounted below the weighing tank (W1) to collect the drain from drain valve (14) of the weighing tank (W1), single load cell (12) with a rod end bearing (13) at each end of the load cell (12) is suspended above the weighing tank (W1), a separate cooler with separate pump (P6) provided to cool the fluid circulating in the system to maintain a temperature of fluid within target temperature value to minimize uncertainty due variation of a density of the fluid and a flow from a plurality of pumps (P1-P5) is combined at a junction block to minimize uncertainty in a flow rate measurement.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041002621 A

(19) INDIA

(22) Date of filing of Application :21/01/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A MULTI-COOKING APPARATUS

(51) International classification	:F27D0001000000, A61F0002966000, D21C0009180000, H01S0003030000, A61B0005042000	(71) Name of Applicant : 1)SAJITH KUMAR K. Address of Applicant :KALIYAMBATH HOUSE, MANALUR P.O., THRISSUR, PIN-680617, KERALA, INDIA Kerala India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SAJITH KUMAR K.
(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 :

ABSTRACT A MULTI-COOKING APPARATUS A multi-cooking apparatus comprising: a vessel (10) in which food is to be cooked, said vessel comprising an inner wall (10a) spaced apart from an outer wall (10b) with ceramic fibre (11) in the spaced apart region between said inner wall (10a) and said outer wall (10b); a first inner round plate (a first inner ring) (30) placed inside said vessel (10); and a second round plate (a second inner ring) (20) placed close to internal wall (10a) of said vessel (10), an upper portion(upper lip) (20a) of said second ring (20) being slightly curved towards centre of said vessel (10). [[Figure 1]]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041002700 A

(19) INDIA

(22) Date of filing of Application :21/01/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A HYRDAULIC PUSHER AND PULLER SYSTEM FOR LOADING AND UNLOADING CHARGE IN A FURNACE

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71) Name of Applicant : 1)BEML Limited Address of Applicant :BEML Soudha, 23/1, 4th Main, Sampangirama Nagar, Bengaluru - 560 027, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)HR, Kalleshaiah
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A hydraulic pusher and puller system (100) is disclosed. The system (100) comprises a guide rod (106) configured for mounting a hydraulic cylinder (108), wherein said hydraulic cylinder (108) is configured for receiving oil into a rod end (118) or a piston end (120) from a vane pump (112). Further, a directional control valve (114) configured for selectively directing flow of oil from said vane pump (112) into said rod end (118) or said piston end (120) of said hydraulic cylinder (108) for extending or retracting piston of said hydraulic cylinder (108) to push or pull container into and from said furnace (102) respectively.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041003351 A

(19) INDIA

(22) Date of filing of Application :24/01/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : AN EXHAUST AFTER TREATMENT SYSTEM FOR AN ENGINE

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71) Name of Applicant : 1)BEML Limited Address of Applicant :BEML Soudha, 23/1, 4th Main,Sampangirama Nagar,Bengaluru - 560 027, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GOVINDARAJ, Durai Raj
(33) Name of priority country	:NA	2)PRAKASAVELAYUTHAM, Sathish
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present subject matter discloses an exhaust after treatment system (100) for an engine (10). The exhaust after treatment system (100) is comprises a Diesel Oxidation Catalyst (110), a Diesel Particulate Filter (120), a Selective Catalytic Reduction filter (130) and a passage (160). The Diesel Oxidation Catalyst (110) is configured to receive exhaust gases from an exhaust manifold (14) of the engine (10) through a turbocharger (18). The Diesel Particulate Filter (120) is configured to receive the exhaust gases from the Oxidation Catalyst (110). The Selective Catalytic Reduction filter (130) is configured to receive the exhaust gases from the Particulate Filter (120). The passage (160) is configured to divert the exhaust gases from the exhaust manifold (14) to the Diesel Oxidation Catalyst (110) bypassing before the turbocharger (18). The exhaust gases received by the Diesel Oxidation Catalyst (110) through the passage (160) is with higher temperature than the exhaust gases received through the turbocharger (18).

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041020059 A

(19) INDIA

(22) Date of filing of Application :12/05/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR IMPLEMENTING SECURE VOTING IN A DIGITAL VOTING SYSTEM

(51) International classification	:G07C0013000000, G06Q0030020000, G06F0021640000, G06F0016245000, G06Q0020360000	(71) Name of Applicant : 1)Dr. Shreekanth Mooroor Prabhu Address of Applicant :Akashaya Redstone, Villa 14, Whitefield-Hosakote Road, Kannamangala, Bangalore Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Shreekanth Mooroor Prabhu
(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 system (100) and method (200) for implementing secure voting in a digital voting system for accomplishing the conduction of elections. The method (200) comprises the steps of authorizing one or more voters/electors for engaging in a digital transaction to exercise their vote, after due authentication in an election, that involves making a choice or rank-ordered choices among multiple alternatives including but not limited to choosing a peopleTMs representative, configured prior to the election by designated personnel. The digital transactions and operations are done in relative confinement by using only fixed memory space, inputs and outputs. State of election and results of election are stored and updated in a persistent authenticated data-structures that enables validation of authenticity of voting actions and integrity of voting results. Further authenticated data structures are constructed in such a manner that protects the secrecy of voting.

No. of Pages : 36 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041030091 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SUBSTITUTED MANNICH BASES OF BENZOTRIAZOLE DERIVATIVES AS ANTICANCER AGENTS

(51) International classification	:C07D0249180000, C08G0059620000, C23F0011140000, C07D0249200000, C07D0401120000	(71) Name of Applicant : 1)E. SUSITHRA Address of Applicant :D/O K. ETHIRAJ, NEW NO: 4/3, OLD NO: 21/3, BAJANA KOIL STREET, NEAR MUNIAPPA CHETTY STREET, SEMBIUM, PERAMBUR, CHENNAI - 600011, TAMILNADU, INDIA. Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)E. SUSITHRA
(33) Name of priority country	:NA	2)MANDAVA V . BASAVESWARA RAO
(86) International Application No	:NA	3)RAJASEKHAR CHEKKARA
Filing Date	:NA	4)SHOBHA RANI TENKAYALA
(87) 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 :

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041037429 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : A DEVICE FOR MEASURING VARIOUS HEALTH PARAMETERS NON-INVASIVELY ALONG WITH A SMARTPHONE APPLICATION

(51) International classification	:A61B0005000000, A61B0005145000, A61B0005145500, G01N0033490000, A61B0005020500	(71) Name of Applicant : 1)SHRUTHI K Address of Applicant :D/O KARUNAKAR P, #1, Morison Lyt, Hesarghatta Main Road, Chikkabanavara Post, Bangalore 560090 Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)MOHIT JAIN
(33) Name of priority country	:NA	2)PRATHIKSHA SHETTY
(86) International Application No	:NA	3)SHRUTHI K
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A device for measuring various health parameters Non-invasively along with a smart phone application will help the common man to get involved in his/her treatment. The traditional method for testing the health parameters such as blood glucose and hemoglobin is invasive. The invasive techniques are painful and outside the knowledge of common man. Thus, there arises a need for a non-invasive method to check the various health parameters. Though invasive techniques have higher level of accuracy, they are difficult to operate and interpret for non-medical personnel. Few monitoring systems are often bulky and hard to transport and requires constant maintenance to ensure sterility. Thus, the proposed invention is to develop and implement a non-invasive monitoring system that is compact and portable.

No. of Pages : 27 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041052708 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYSTEM AND METHOD FOR SECURING AND RESOLVING INTERNET PROTOCOL ADDRESS

(51) International classification	:H04L 29/12	(71) Name of Applicant : 1)BHARANISHUNKKAR SHANMUGAVEL
(31) Priority Document No	:NA	Address of Applicant :SFS B1 95, 6TH B CROSS, B
(32) Priority Date	:NA	SECTOR, YELAHANKA NEW TOWN, YELAHANKA,
(33) Name of priority country	:NA	BANGALORE, KARNATAKA 560064, INDIA Karnataka India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)BHARANISHUNKKAR SHANMUGAVEL
(87) 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 :

System and method for securing and resolving the IP address is disclosed. The method includes modifying an SSL certificate. Modifying the SSL certificate includes receiving one or more IP addresses, registering the SSL certificate for the received IP addresses, embedding the SSL certificate with the IP addresses, validating an embedded SSL certificate with the IP addresses, storing a validated SSL certificate. The method also includes resolving the IP addresses of the domain. Resolving the IP addresses includes receiving a query, translating the query received by the client, encrypting a translated query and transmitting an encrypted query. The method also includes integrating one or more service providers on the platform. Integrating one or more service providers includes registering the one or more service providers, sharing the database comprising the validated SSL certificate with the one or more service providers on the platform for resolving the IP addresses. FIG. 1

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

(54) Title of the invention : CHROMENO [4,3-B] QUINOLINE COMPOUNDS AND THEIR SYNTHESIS BY USING SILICOTUNGSTIC ACID [H4SIW12O40]

(51) International classification	:A61K 31/47	(71)Name of Applicant : 1)Subramanya Gopal Hegde Address of Applicant :Department of Chemistry Vijayanagara Sri Krishnadevaraya University, Jnana Sagara Campus, Vinayaka nagara, Bellary-583105 Karnataka India
(31) Priority Document No	:NA	2)Koodlur Sannegowda Lokesh
(32) Priority Date	:NA	
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)Subramanya Gopal Hegde
Filing Date	:NA	2)Koodlur Sannegowda Lokesh
(87) International Publication No	: NA	3)JAYACHAMARAJAPURA PRANESH SHUBHA
(61) Patent of Addition to Application Number	:NA	4)NURANI VISWANATHAN SUSHMA
Filing Date	:NA	5)GIRISH BASAVARAJU
(62) Divisional to Application Number	:NA	6)ANANDA DANAGOUDAR
Filing Date	:NA	7)VIJAY KUMAR BODA

(57) Abstract :

CHROMENO [4,3-b] QUINOLINE COMPOUNDS AND THEIR SYNTHESIS BY USING SILICOTUNGSTIC ACID

[H4SiW12O40] Abstract: The present invention relates to the development of novel compounds of chromeno [4,3-b] quinolone derivatives. It particularly relates to the development of novel compounds of thiochromeno [4,3-b] quinolone derivatives for the treatment of coronary artery diseases, dyslipidemia, and metabolic syndrome. The present invention also relates to the first synthesis of Silicotungstic -catalyzed Aza-Diels-Alder-reactions (ADAR) with s-prenyl derivatives of a-tetralone, 4-chromanone and Thiochroman-4-one and various substituted amines to deliver cycloadducts in good yield and excellent diastereoselectivity under mild reaction conditions. The invention further relates to the method for the treatment of coronary artery diseases, dyslipidemia, and metabolic syndrome by using synthesized compounds of thiochromeno [4,3-b] quinolone derivatives. The present invention provides the use of Silicotungstic acid as Lewis acid for Aza-Diels-Alder-reactions to get a mixture of diastereomers are the first examples. In addition to its efficiency, simplicity, and mild reaction conditions, the catalyst is very cheap and only a small amount (10 mol%) is needed. Intramolecular cyclization was carried out very conveniently as a one-pot reaction starting from the S-prenyl chromene-3-carbaldehyde and arylamines without isolation of the intermediate imines.

No. of Pages : 35 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041053804 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : IOT BASED DESIGN FOR BRAIN TUMOR DETECTION AND ANALYSIS WITH ADVANCED IMAGING TECHNIQUES ON MRI IMAGES

(51) International classification	:G06T 7/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Dr.S.Sridevi
(32) Priority Date	:NA	Address of Applicant :Professor IT, Sethu Institute of
(33) Name of priority country	:NA	Technology, Pulloor, Kariapatti, Virudhunagar DT -626115.
(86) International Application No	:PCT//	Tamilnadu, India. Tamil Nadu India
Filing Date	:01/01/1900	2)Dr.C. Callins Christiyana
(87) International Publication No	: NA	3)Dr.D.Abithakumari
(61) Patent of Addition to Application Number	:NA	4)Dr.M. Parvathy
Filing Date	:NA	5)Ms.V.SuthaJebakumari
(62) Divisional to Application Number	:NA	6)Dr.J.Deepa
Filing Date	:NA	(72)Name of Inventor :
		1)Dr.S.Sridevi
		2)Dr.C. Callins Christiyana
		3)Dr.D.Abithakumari
		4)Dr.M. Parvathy
		5)Ms.V.SuthaJebakumari
		6)Dr.J.Deepa

(57) Abstract :

Present invention provides specially design and develops a system for IoT enabled brain cancer detection and analysis with advanced imaging technologies using deep learning. Present invention relates to IoT enabled health care domain specifically brain cancer MRI. This system will be useful in detecting, analyzing and predicting the brain cancer disease by using deep learning technology. Our system will make better representations from big-data and neuroscience. This invention will assist the various stakeholders like radiologists, neurosurgeons and clinical practitioner to reach at precise decision level. This invention will also predict, whether brain tumor is cancerous (malignant) or not (benign), prediction of cancer growth over a period of time, prediction of survival time of patient and prediction of post-surgery recovery. Resultant data of our system will be stored on portal that portal can be accessed by all the stake holders mentioned above. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the process of the invention.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041054182 A

(19) INDIA

(22) Date of filing of Application :11/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A METHOD TO OPERATE A WINDOW LIFTER ANTI-PINCH SYSTEM.

(51) International classification	:E05F	(71)Name of Applicant :
(31) Priority Document No	11/48	1)Robert Bosch Engineering and Business Solutions Private Limited
(32) Priority Date	:NA	Address of Applicant :123, Industrial Layout, Hosur Road,
(33) Name of priority country	:NA	Koramangala, Bangalore 560095, Karnataka, India Karnataka
(86) International Application No	:NA	India
Filing Date	:NA	2)Robert Bosch GmbH
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Santosh Gnanasekaran
Filing Date	:NA	2)Gnanaguru Masilamani
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure proposes method steps (200) to operate the window lifter anti-pinch system. In method step 201, a motor (5 101) speed value is received by the ECU (102). In method step 202 a slope rate is computed for the received motor (101) speed. In method step 203 the computed slope rate is compared with a pre-defined threshold. In method step 204 a dynamic offset value is calculated for the slope rate, if the computed slope 10 rate exceeds the predefined threshold. In step 205, the calculated dynamic offset is updated based on the set pre-defined threshold value. In method step 206, the motor (101) is operated to move the window glass (104) based on said comparison.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041055058 A

(19) INDIA

(22) Date of filing of Application :17/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : Effects of the wind on the High Level Water Collecting Wet Cooling Tower

(51) International classification :F28C 1/14
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr.Ramu Inala

Address of Applicant :Associate Professor, Department of Mechanical Engineering, Vishnu Institute of Technology, Bhimavaram, Andhra Pradesh, India. Pin Code: 534202 Andhra Pradesh India

2)Mr.Vinod M

3)Mr.Raghuraman M

4)Mr.Srinivas P

5)Mr.Mahesh Chakravarthi V

6)Mr.Bhanuteja Krapa

7)Dr.Venu Mangam

(72)Name of Inventor :

1)Dr.Ramu Inala

2)Mr.Vinod M

3)Mr.Raghuraman M

4)Mr.Srinivas P

5)Mr.Mahesh Chakravarthi V

6)Mr.Bhanuteja Krapa

7)Dr.Venu Mangam

(57) Abstract :

The Cooling Tower is a device used to wipe out the waste heat which is generated to the atmosphere through the cooling of a water stream to a lower temperature. The Water collecting Wet Cooling Towers uses evaporation to transform the heat from the water stream to the Air steam to the atmosphere, Saturated Air is discharged into the atmosphere. The High Level Water Collecting Wet Cooling Tower are used in the industries such as Thermal Power Plant, Oil refined industry, Petrochemical industries and in the Heating, ventilation, and air conditioning (HVAC). The invention disclosed here is Effects of the wind on the High Level Water Collecting Wet Cooling Tower comprising of: Water Cooling Tower (201); Electric Control (202); Fan-L (203); Fan-H (204); Heater (205); Lower Water Tank (206); Water Pump (207); Upper Water Tank (208); Water Inlet (209); Cold Water Container (210); Water Outlet (211); and Data Recorder (212); facilitates the understanding of the effect of the external wind on the thermal characteristics of the cooling tower. The performance of the cooling tower decreases when there is external wind on the tower and increased performance can be attain without any external wind applied.

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

(54) Title of the invention : System and the method for Software Quality prediction by Machine Learning

<p>(51) International classification :G06F 11/36</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</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.P.Pavankumar Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Keshav Memorial Institute of Technology, Hyderabad, Telangana, India. Pin Code:500029 Telangana India</p> <p>2)Dr.G.Narender</p> <p>3)Dr.Sandhya Rani.M</p> <p>4)Ms.Boreda Varsha</p> <p>5)Mr.Appireddy V Nagireddy</p> <p>6)Ms.Arshiya Begum</p> <p>7)Dr.Venkataramana Kathi</p> <p>8)Mr. Kiran Kumar Ch</p> <p>9)Mr.Boggarapu Srinivasulu</p> <p>10)Mr.Samuel Chepuri</p> <p>(72)Name of Inventor :</p> <p>1)Dr.P.Pavankumar</p> <p>2)Dr.G.Narender</p> <p>3)Dr.Sandhya Rani.M</p> <p>4)Ms.Boreda Varsha</p> <p>5)Mr.Appireddy V Nagireddy</p> <p>6)Ms.Arshiya Begum</p> <p>7)Dr.Venkataramana Kathi</p> <p>8)Mr. Kiran Kumar Ch</p> <p>9)Mr.Boggarapu Srinivasulu</p> <p>10)Mr.Samuel Chepuri</p>
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(57) Abstract :

The Quality Software satisfies the end user requirements such as Specifications, Reliability, Compatibility, Easy to operate, and Less Error Rate. The number of errors must be removed from the software developed to achieve its quality. The identification of error and fixing the errors in the software is difficult manually; a continuous measure is required to reduce the maintenance cost and can be achieved quality Software. The Present invention disclosed here is System and the method for Software Quality prediction by Machine Learning comprising of: Training Data (201); Preprocessing (202); Testing Data (203); Preprocessing (204); Ant Colony Optimization (205); Support Vector Machine (206); Error Predictions (207); used to predict the errors present in the software to know the quality of the software. The present invention disclosed here facilitates the automatic prediction of software quality by the machine learning.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041055400 A

(19) INDIA

(22) Date of filing of Application :19/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : System and Method for Prediction of Tropospheric Scintillation Effects for the Accurate Design of Adaptive Link Control System in Satellite Communications

(51) International classification :H04B
7/185
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Mr.Prabhakar.Rapaka
Address of Applicant :Assistant Professor, Department of
ECE, Mahaveer Institute of Science and Technology, Bandlaguda,
Hyderabad, Telangana, India. Pin Code:500005 Telangana India
2)Dr.T.Venkataramana
(72)Name of Inventor :
1)Mr.Prabhakar.Rapaka
2)Dr.T.Venkataramana

(57) Abstract :

In the Satellite Communications, Ka band (30/20GHz) link Scintillation effects are more significant impairments than rain attenuation. The Scintillation • term means rapid signal fluctuations in phase and amplitude due turbulence. These fluctuations caused by irregularities of turbulence in humidity, temperature and pressure possess rapid changes in fraction time in the radio refractive index which is a function of wet term radio refractive index. The Humidity fluctuations are more dominant at microwave propagation region result enhancement and degradation in amplitude and phase angle of satellite signals on the communication path. The present invention disclosed here is a System and Method of Prediction of Tropospheric Scintillation Effects for the Accurate Design of Adaptive Link Control System in Satellite Communications comprising of: Satellite (101); Receiver (102); Data Collection (103); Data Preprocessing (104); Scintillation Analysis (105); Amplitude Scintillation (106); Phase Scintillation (107); is used to predict the scintillation effects Ka band (30/20GHz). The invention disclosed here is performed at a frequency of 20.2GHz, 30.5 GHz and Path Elevation of 64.67°. The Matlab software and Origin Pro 8 tool kits are used for simulation, statistical and graphical results illustrations.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041055617 A

(19) INDIA

(22) Date of filing of Application :21/12/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : Stress Test on Single Thermoelectric Cell in water-based Cooling CTEG System

(51) International classification	:G11C 29/50	(71)Name of Applicant : 1)Dr.Ramu Inala Address of Applicant :Associate Professor, Department of Mechanical Engineering, Vishnu Institute of Technology, Bhimavaram, Andhra Pradesh, India. Pin Code: 534202 Andhra Pradesh India
(31) Priority Document No	:NA	2)Mr.Daloji Locherla
(32) Priority Date	:NA	3)Mr.Ch.Bhanu Prakash
(33) Name of priority country	:NA	4)Mr.Gullipalli Narasinga Rao
(86) International Application No	:PCT//	5)Mr.Duvvuri VamseeKrishna
Filing Date	:01/01/1900	6)Mr.B.Bangarraju
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr.Ramu Inala
Filing Date	:NA	2)Mr.Daloji Locherla
(62) Divisional to Application Number	:NA	3)Mr.Ch.Bhanu Prakash
Filing Date	:NA	4)Mr.Gullipalli Narasinga Rao
		5)Mr.Duvvuri VamseeKrishna
		6)Mr.B.Bangarraju

(57) Abstract :

The supply of non-polluted electrical energy is the major challenge right now. The future generations of the world should reduce the electrical energy consumption and should become more diverse in the use of renewable energy sources such as solar, wind, and Hydropower. The Solar flux or the radiation is considered as one of the thermal energy. The Thermoelectric Cells are constructed with the thermoelectric materials to convert the thermal energy into electrical Energy. The Thermoelectric Generators are made up of with these cells to generate electrical power from the thermal energy. The Thermoelectric Generators are having two thermocouples on both hot and cold side. The Stress test on these modules creates a good contact between the hot and cold side creates an electric power. The Present invention disclosed here is Stress Test on Single Thermoelectric Cell in water-based Cooling CTEG System comprising of: Thermoelectric Cell (201); Cool Side (202); Cool Water Inlet (203); Stress by Weights (204); Hot Side (205); Variable Supply Voltage (206); Load (207); Data Acquisition System (208); Computer (209); generates greater thermoelectric power due to the stress applied on the cool side of the Thermoelectric Generator in water-based Cooling CTEG System.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041055662 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : CHILDREARING SUPPORT SYSTEM AND INFANT SENSOR DEVICE USNG IOT

(51) International classification	:H04L 29/08	(71)Name of Applicant : 1)Dr.J Bridget Nirmala Address of Applicant :Professor Department of Computer Science and Engineering St.Michael College of Engineering and Technology St. Santhiagappar Nagar Kalaiyarkoil, Sivagangai District Tamil Nadu India
(31) Priority Document No	:NA	2)K.Nagalakshmi
(32) Priority Date	:NA	3)T. GraceShalini
(33) Name of priority country	:NA	4)G.Susan shiny
(86) International Application No	:PCT//	5)Dr.G Devika
Filing Date	:01/01/1900	6)Dr.S.Shaik parveen
(87) International Publication No	: NA	7)Gifty R
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr.J Bridget Nirmala
(62) Divisional to Application Number	:NA	2)K.Nagalakshmi
Filing Date	:NA	3)T. GraceShalini
		4)G.Susan shiny
		5)Dr.G Devika
		6)Dr.S.Shaik parveen
		7)Gifty R

(57) Abstract :

There is provided a program that causes a computer capable of communicating with a sensor unit attached to an infant, to execute: at least two of the following processes: a first process in which a signal output from the sensor unit is processed to evaluate how much time the infant sleeps; a second process to evaluate how much the infant laughs; and a third process to evaluate how much the infant performs an activity; a process of displaying a main icon that includes a main indicator indicating a level of an emotional state of the infant on a screen of the computer; and a process of displaying at least two icons based on the at least two processes when the main icon is tapped, the at least two icons corresponding to the at least two processes, the at least two icons being selected from a first icon including a first indicator that indicates a level of how much time the infant sleeps and some other icons, in the process of displaying the main icon, the levels indicated by the indicators that are included in the at least two icons determining the level indicated by the main indicator.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041055664 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : NEW SYSTEM FOR FACEPRINT GENERATION USING IOT

(51) International classification	:H04L 29/08	(71)Name of Applicant : 1)Dr.N.Bharathiraja Address of Applicant :Assistant Professor (SG), Department of Computer Science and Engineering Saveetha Engineering College,Saveetha Nagar, Thandalam, Chennai-602 105, TamilNadu, India Tamil Nadu India 2)Dr.M. Shobana, 3)Mrs. K.Pradeepa 4)Mr. Gopirajan PV 5)Mr.V.Aravinda Rajan (72)Name of Inventor : 1)Dr.N.Bharathiraja 2)Dr.M. Shobana, 3)Mrs. K.Pradeepa 4)Mr. Gopirajan PV 5)Mr.V.Aravinda Rajan
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(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	

(57) Abstract :

A method for optimizing a face print (245) of a given user comprising a plurality of reference images for performing facial recognition at a client device (205), the optimization comprising: calculating one or more distances between a face candidate and the plurality of reference images of the faceprint of the given user in a plurality of users, the face candidate evaluated to determine an optimized faceprint for the client device (205); selecting a set of reference images in the plurality of reference images having one or more minimal distances to the face candidate; calculating distances between the face candidate and reference images in faceprints of other users in the plurality of users, and between the set of reference images and the reference images in the faceprints of other users in the plurality of users; selecting from the face candidate and the set of reference images, a reduced set of reference images having one or more greatest distances to the reference images in the faceprints of other users in the plurality of users; and providing the reduced set of reference images to the client device (205) in the optimized faceprint, wherein the reduced set of reference images having one or more greatest distances to the reference images in the faceprints of other users in the plurality of users reduces a number of comparisons that provide false positive recognition results.

No. of Pages : 22 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044042393 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PROGRAMMABLE-CONTROLLER BASEBOARD AND PROGRAMMABLE CONTROLLER SYSTEM

(51) International classification	:G05B 19/05	(71)Name of Applicant : 1)Fuji Electric Co., Ltd. Address of Applicant :1-1, Tanabeshinden, Kawasaki-ku, Kawasaki-shi, Kanagawa 210-9530, Japan Japan
(31) Priority Document No	:2019- 206010	(72)Name of Inventor : 1)MIYASHITA, Hiroshi
(32) Priority Date	:14/11/2019	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Problem] To ensure the coupling of a PLC module to a baseboard and prevent the occurrence of an incompletely locked state.

[Problem Solving Means] A PLC baseboard (2) includes: a base board (21) that includes a connection part (22) to which a connector part (30) of a PLC module (3) is connected, a base-side hinge part (25) that is provided on one edge side of the base board and supports one edge side of the PLC module in a rotationally movable manner, and a lock mechanism (5) that is provided on another edge side of the base board and fixes another edge side of the PLC module. The lock mechanism includes a coupler lock part (6) capable of reciprocating in one direction extending between the one edge side and the other edge side of the base board, a guide part (7) for guiding movement of the coupler lock part, and a biasing member (50) for biasing the coupler lock part toward the other edge side of the base board with reference to the guide part. The coupler lock part includes an engagement lug section (60) capable of engaging an engagement reception section provided on the other edge side of the PLC module. The engagement lug section is capable of engaging the engagement reception section at an engagement position resulting from the coupler lock part moving in a predetermined direction against a biasing force of the biasing member. [Figure 2]

No. of Pages : 30 No. of Claims : 8

(54) Title of the invention : AUTOMATIC POLISHING SYSTEM

(51) International classification	:B24B 27/00, B25J 13/08, B24B 49/12, B64F 5/40	(71) Name of Applicant : 1)TAIKISHA LTD. Address of Applicant :17-1, Nishishinjuku 8-chome, Shinjuku-ku, Tokyo 160-6129, Japan Japan
(31) Priority Document No	:2019-016890	(72) Name of Inventor :
(32) Priority Date	:01/02/2019	1)NAKAYAMA Genji
(33) Name of priority country	:Japan	2)HIGASHI Yoshio
(86) International Application No	:PCT/JP2019/050038	3)HAYASHI Yoshikazu
Filing Date	:20/12/2019	4)SUZUKI Hiroyuki
(87) International Publication No	:WO 2020/158245	5)AKIMOTO Shun
(61) Patent of Addition to Application Number	:NA	6)KAWAI Yoshifumi
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is an automated polishing system capable of polishing an article while avoiding sites where polishing is to be avoided. The automated polishing system includes a polishing machine 8 attached to the tip of a moveable arm 7a of a work robot 7 and a control device 3 that, on the basis of position information Js of a surface for polishing S of an article 1, controls the work robot 7 and the polishing machine 8 such that the action of the work robot 7 moves the polishing machine 8 along the surface for polishing S and the polishing machine 8 polishes the surface for polishing S. Therein, an image G of the article 1 showing area-defining markers 14 that have been attached to the article 1 so as to define the area of the surface for polishing S is captured by a three-dimensional imaging machine 4. The control device 3 generates the aforementioned positional information Js for the surface S for polishing by determining the positions of the area-defining markers 14 on the basis of the image data Dg of the image G.

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141000112 A

(19) INDIA

(22) Date of filing of Application :02/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : LOW COST VIRUS FREE AIR CIRCULATOR FOR PERSONAL PROTECTIVE EQUIPMENT FOR THE HOSPITAL STAFF IN THE COVID-19 WARDS

(51) International classification	:G06Q 50/22	(71)Name of Applicant : 1)Dr.A.Prakash Address of Applicant :Assistant Professor Department of Computer Science and Engineering Veltech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology No.42, Avadi-Vel Tech Road, Vel Nagar, Avadi, Chennai 600 062, Tamil Nadu, India. Tamil Nadu India
(31) Priority Document No	:NA	2)Dr.B.Dwarakanath
(32) Priority Date	:NA	3)Dr.A.R.Kavitha
(33) Name of priority country	:NA	4)Ms.I.Juvanna
(86) International Application No	:PCT//	5)Dr.Baiju B V
Filing Date	:01/01/1900	6)K.S. Kavitha Kumari
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr.A.Prakash
Filing Date	:NA	2)Dr.B.Dwarakanath
(62) Divisional to Application Number	:NA	3)Dr.A.R.Kavitha
Filing Date	:NA	4)Ms.I.Juvanna
		5)Dr.Baiju B V
		6)K.S. Kavitha Kumari

(57) Abstract :

The medical staffs like Doctors, nurses, operation theatre staff, ICU staff who directly come in direct contact with the patients, are provided with a full set of Personal Protective Equipment , which consist of multiple layers of gloves, face mask, head cover, gown and shoes. They are expected to work continuously for 6 to 8 hrs, without a tea break. As air conditioners are not allowed, they got to work with a support of fans or air circulators. One can understand the difficult situation of the working environment for the hospital staff in the Covid-19 wards. Working principle of the proposed gadget is simple. The innovative element in the proposed project is to provide ventilation inside the PPE. The ventilated hood supplies Virus free air, ensuring safety of the medical staff. Also it will supply air uniformly within the PPE, to ensure comfort for the users in the Covid-19 wards.

No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : Development of Multi-Focus Image Fusion Algorithm for Improving the Depth of Field of imaging sensors in Visual Sensor Network Applications

(51) International classification	:G06T 5/50	(71) Name of Applicant :
(31) Priority Document No	:NA	1)Ms. N. RADHA (Associate Professor)
(32) Priority Date	:NA	Address of Applicant :DEPARTMENT OF ELECTRONICS
(33) Name of priority country	:NA	AND COMMUNICATION ENGINEERING, ADITYA
(86) International Application No	:PCT//	ENGINEERING COLLEGE, ADB Road, Aditya Nagar,
Filing Date	:01/01/1900	Surampalem, Andhra Pradesh 533437. E-mail :
(87) International Publication No	: NA	radha_naina@yahoo.com Andhra Pradesh India
(61) Patent of Addition to Application Number	:NA	2)Dr. T. RANGABABU (Professor)
Filing Date	:NA	(72) Name of Inventor :
(62) Divisional to Application Number	:NA	1)Ms. N. RADHA (Associate Professor)
Filing Date	:NA	2)Dr. T. RANGABABU (Professor)

(57) Abstract :

ABSTRACT Our Invention is development of multi-focus image fusion algorithm for improving the depth of field of imaging sensors in visual sensor network applications. In Visual Sensor Networks (VSN), imaging or vision sensors can be used to capture, process, and transmit a large set of images for monitoring objects and their behavior in surveillance, traffic, and industrial applications. However, the cameras that are used in vision sensors have a narrow depth of field (DOF). Because of this, when we capture an image, objects at a definite distance from the lens is focused (sharp) and remaining will be defocused (or blurred). This makes it tough for VSN to evaluate and analyse these divergent focused images. Multi-focus image fusion methods solve these issues by the fusion of extracted sharp details of divergent focused images to get a single fused image with more descriptive and reliable information. Identifying the focused areas, while extracting the sharp details of divergent focused images is the main challenge of multi-focus image fusion. many algorithms had existed for image fusion over a decade but their inability to distinguish between the focused and de-focused image regions lead to improper extraction of sharp details. Recently, transform and focus measurebased fusion algorithms have gained significant attention in multifocus image fusion. However, the existing focus measures based fusion methods lose some focused details due to neglecting the diagonal neighbour pixels during the extraction of the focused details, which reduce the quality of the fused image.To overcome these problems, a novel image fusion method based on stationary wavelet transform and focus measures is proposed to get a single image with all objects in focus. The proposed method aims to improve the fused image quality by effective selection of focused areas without unintended effects (edge smoothing, contrast reduction and artifacts). While the focus measures used in the proposed algorithm are able to extract the focused details effectively considering the diagonal pixels, the multi resolution property of Stationary wavelet transform helps in extracting the sharp details from the low and high frequency sub bands, with no loss of focused information. The proposed method not only removes artifacts in the fused image due to the shift-invariance of stationary wavelet transform but also preserves sharp details using extended spatial frequency and wavelet based focus measures. It can extract the focused details effectively with improved fusion results, making it easier for Visual Sensor Networks to evaluate and analyze the images. Thus, the proposed method is most preferred choice for real time VSN applications.

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141000128 A

(19) INDIA

(22) Date of filing of Application :03/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : Solar Panel Rotation System: Automatic Solar Panel Rotation System.

<p>(51) International classification :F24S 30/00</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</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. Dande Srilatha (Associate Professor) Address of Applicant :Department of Electrical and Electronics Engineering, Vasireddy Venkatadri Institute of Technology (Autonomous), Nambur, Guntur(Dt.), Andhra Pradesh, India-522508, E-mail: srilatha.dande@gmail.com Andhra Pradesh India</p> <p>2)Dr. RVS Lakshmi Kumari (Associate Professor & HoD)</p> <p>3)Mr. B. Srinivasaraju (Assistant Professor)</p> <p>4)Mr. Umamaheswararao Mallepula (Assistant Professor)</p> <p>5)Mr. Katta Deevan Kumar (Research Scholar)</p> <p>6)Dr. K. Venkateswara Rao (Associate Professor)</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Dande Srilatha (Associate Professor)</p> <p>2)Dr. RVS Lakshmi Kumari (Associate Professor & HoD)</p> <p>3)Mr. B. Srinivasaraju (Assistant Professor)</p> <p>4)Mr. Umamaheswararao Mallepula (Assistant Professor)</p> <p>5)Mr. Katta Deevan Kumar (Research Scholar)</p> <p>6)Dr. K. Venkateswara Rao (Associate Professor)</p>
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(57) Abstract :

ABSTRACT Our invention Solar Panel Rotation System: is a system for use in solar power generation and to the arrangement of solar panel drive and tilt mechanisms to follow the movement of the sun relative to the earth and the invention more relates to a drive mechanism for rotating a large defined array of solar panels in a very cost effectively. The invented technology also includes a solar tracking control system selectively energizes and deenergizes a motor and the motor causes a rotatable shaft supported on a base and situated parallel to the earths axis of rotation to be rotated. The invented technology also a U-member is connected to the rotatable shaft and to a frame upon which there is mounted a solar panel or collector and a bracket is connected to each of the two U-member legs and to the frame. The invented technology also includes a two reinforcing walls are connected to the U-member legs and the U-member middle portion so as to reinforce and retain the U-member shape and by selectively rotating the rotatable shaft the solar panel or collector is pivoted in a substantially perpendicular position to the sun throughout the day. The invented technology also follow the another mounting assembly the frame is connected to a first plate having a pivot hole and a plurality of equidistant angle displacement holes and a second plate is connected to the base and has a pivot hole and an angle displacement hole. The invented technology also includes a pivot shaft is received through the pivot holes thereby allowing the frame to pivot and an angle displacement shaft is selectively received through the second plate angle displacement hole and any one of the first plate angle displacement holes so as to selectively angularly fix the frame and solar panel or collectors to more substantially be perpendicular to the sun during the various seasons of the year.

No. of Pages : 29 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141000835 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : Objects Selecting Recommender System Using AI- Based and Deep Learning Programming.

<p>(51) International classification :G06N 3/04 (31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (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</p>	<p>(71)Name of Applicant : 1)Dr. VENKUMAHANTI ASHOK KUMAR (PROFESSOR) Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT (AUTONOMOUS), K. KOTTURU, TEKKALI-532201, SRIKAKULAM-(DIST), ANDHRA PRADESH, INDIA. E-mail: venkuash123@gmail.com Andhra Pradesh India 2)Dr. CHINTADA RAJASEKHARA RAO (ASSOCIATE PROFESSOR) 3)Dr. M.S.R. NAIDU (ASSOCIATE PROFESSOR) 4)Dr. M. JAYAMANMADHA RAO (PROFESSOR) 5)MEESALA LAKSHMU NAIDU (SR. ASSISTANT PROFESSOR) 6)Dr. KRISHNA MOHAN GSSSSV (ASSOCIATE PROFESSOR) (72)Name of Inventor : 1)Dr. VENKUMAHANTI ASHOK KUMAR (PROFESSOR) 2)Dr. CHINTADA RAJASEKHARA RAO (ASSOCIATE PROFESSOR) 3)Dr. M.S.R. NAIDU (ASSOCIATE PROFESSOR) 4)Dr. M. JAYAMANMADHA RAO (PROFESSOR) 5)MEESALA LAKSHMU NAIDU (SR. ASSISTANT PROFESSOR) 6)Dr. KRISHNA MOHAN GSSSSV (ASSOCIATE PROFESSOR)</p>
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(57) Abstract :

ABSTRACT Our Invention Objects Selecting Recommender System Using AI- Based and Deep Learning Programming is a recommender system is analyzed to determine various performance characteristics, such as a learning rate for new items, or a learning rate for new subscriber tastes. The invention is also comparisons of different recommenders are presented to assist consumers and marketers in selecting appropriate e-commerce sites for purchasing, advertising, etc. and a recommendations system is provided in various embodiments for selecting items to recommend to a user. The invented technology also includes a recommendation engine with a plurality of recommenders, and each recommender identifies a different type of reason for recommending items. The invention is to each recommender retrieves item preference data and generates candidate recommendations responsive to a subset of that data and the recommenders also score the candidate recommendations. The invention is a normalization engine normalizes the scores of the candidate recommendations provided by each recommender and a candidate selector selects at least a portion of the candidate recommendations based on the normalized scores to provide as recommendations to the user. The candidate selector also outputs the recommendations with associated reasons for recommending the items.

No. of Pages : 25 No. of Claims : 6

(54) Title of the invention : MISALIGNMENT TOLERABLE COIL STRUCTURE FOR BIOMEDICAL IMPLANT DEVICE WITH WIRELESS POWER TRANSFER METHOD

(51) International classification	:H02J 50/12	(71)Name of Applicant : 1)Dr.BALAPANUR MOULI CHANDRA Address of Applicant :PROFESSOR, ELECTRICAL AND ELECTRONICS ENGINEERING, QIS COLLEGE OF ENGINEERING & TECHNOLOGY(AUTONOMOUS), PONDURU ROAD, VENGAMUKKAPALEM, ONGOLE, PRAKASAM DIST., ANDHRA PRADESH, INDIA-523272. Andhra Pradesh India
(31) Priority Document No	:NA	2)Dr.BADATHALA VENKATA PRASANTH
(32) Priority Date	:NA	3)Dr.ARUMUGAM PRAKASH
(33) Name of priority country	:NA	4)4.PROF.JAMPANI KRISHNA KISHORE
(86) International Application No	:NA	5)Mr.NAKKA NARASIMHA RAO
Filing Date	:NA	6)Dr.P.MARIMUTHU
(87) International Publication No	: NA	7)Dr.JAFAR ALI IBRAHIM.S
(61) Patent of Addition to Application Number	:NA	8)Dr.SURYA KALYAN CHAKRAVARTHY
Filing Date	:NA	NIDAMANURI
(62) Divisional to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr.BALAPANUR MOULI CHANDRA
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		3)Dr.ARUMUGAM PRAKASH
		4)4.PROF.JAMPANI KRISHNA KISHORE
		5)Mr.NAKKA NARASIMHA RAO
		6)Dr.P.MARIMUTHU
		7)Dr.JAFAR ALI IBRAHIM.S
		8)Dr.SURYA KALYAN CHAKRAVARTHY
		NIDAMANURI

(57) Abstract :

Demand for bio-medical implantable devices is going high due to increased number of patients and their concern towards health. Use of plug-in chargers for such devices may lead to multiple numbers of surgeries for the replacement of batteries. Coil-misalignment is one of the major hurdles for inductively coupled wireless power transfer in applications. To limit the number of surgeries, an alternate solution for such issues the concept of wireless charging becomes an attractive field in recent times. Obtaining good power transfer efficiency is the challenging factor in such systems. Wireless sensor network (WSN) technologies are considered as one of the key research areas in computer science and the healthcare application industries for improving the quality of life. In addition, misalignment is another foremost issue to be considered while designing for wireless charging system. The proposed receiver is composed of two receiver coils placed orthogonally, to reduce the variation of mutual inductance between transmitting and receiving coils under misalignment conditions. Three different receiver coil structures are analyzed and compared using the same length of wire. The system provide an alternative to the battery as the energy source; reduces the size of implant substantially; allows the implant to be placed in a restricted space within the body; reduces both medical cost and chances of complications; and eliminates repeated surgeries for battery replacements

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001144 A

(19) INDIA

(22) Date of filing of Application :11/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : OPTIMAL VIDEO AND AUDIO STREAMING IN DENSE 5G NETWORKS

(51) International classification	:H04R 25/00	(71)Name of Applicant : 1)Mrs.K.GAYATHRI Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY, KOTHANDARAMAN NAGAR, DINDIGUL, TAMIL NADU, INDIA-624622. Tamil Nadu India
(31) Priority Document No	:NA	2)Mrs.A.SANGEETHA
(32) Priority Date	:NA	3)Mrs.B.KARTHIKA
(33) Name of priority country	:NA	4)Ms.R.SUDHA
(86) International Application No	:NA	5)Mrs.K.KALAIVANI
Filing Date	:NA	6)Dr.R.VENKATESH
(87) International Publication No	: NA	7)Dr.N.UMA MAHESWARI
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
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(62) Divisional to Application Number	:NA	2)Mrs.A.SANGEETHA
Filing Date	:NA	3)Mrs.B.KARTHIKA
		4)Ms.R.SUDHA
		5)Mrs.K.KALAIVANI
		6)Dr.R.VENKATESH
		7)Dr.N.UMA MAHESWARI

(57) Abstract :

ABSTRACT OPTIMAL VIDEO AND AUDIO STREAMING IN DENSE 5G NETWORKS Versatile video traffic and portable products have now outperformed other information traffic and fixed Multiples. Overall specialist organizations are endeavoring to propose new versatile engineering and answers for superior of video and sound web-based features, high caliber of involvement (QoE) at high asset proficiency. Despite the fact that gadget to-multi (D2M) interchanges have been an arising procedure that is foreseen to give a monstrous number of portable clients with cutting edge administrations in 5G organizations, the administration of asset and co-channel door squashing between D2M sets, partner requester sets, and cell clients (CUs) is testing. Dispense encoding rates to various layers of a video and sound portion and afterward packetize the video and sound fragment into numerous subtleties of different with implanted forward blunder adjustment before transmission. Simultaneously, the quantities of subtleties and removal to D2M aides and base stations in an agreeable plan for sending to the D2M requesters. Reproduction results proof the advantages of our proposed arrangement regarding superior video and sound real time

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001146 A

(19) INDIA

(22) Date of filing of Application :11/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : BLOCKCHAIN BASED VOTING SYSTEM

(51) International classification	:G07C 13/00	(71)Name of Applicant : 1)Dr.K.VAISHALI Address of Applicant :PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, JYOTISHMATHI INSTITUTE OF TECHNOLOGY SCIENCE, RAMA KRISHNA COLONY, THIMMAPOOR, KARIMNAGAR, TELANGANA, INDIA-505527. Telangana India
(31) Priority Document No	:NA	2)Dr.G.SWAMY
(32) Priority Date	:NA	3)Dr. MULA VEERA HANUMANTHAREDDY
(33) Name of priority country	:NA	4)Mrs.P.YAMINI DEVI
(86) International Application No	:NA	5)Mrs.ADILAKSHMI SIRIPIREDDY
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Dr.K.VAISHALI
(61) Patent of Addition to Application Number	:NA	2)Dr.G.SWAMY
Filing Date	:NA	3)Dr. MULA VEERA HANUMANTHAREDDY
(62) Divisional to Application Number	:NA	4)Mrs.P.YAMINI DEVI
Filing Date	:NA	5)Mrs.ADILAKSHMI SIRIPIREDDY

(57) Abstract :

ABSTRACT BLOCKCHAIN BASED VOTING SYSTEM This invention is identifying with assess the utilization of blockchain as the execution of appropriated electronic democratic frameworks. Decisions have an extraordinary force in deciding the destiny of a country or an association. The part of security and straightforwardness is a danger from still wide spread political decision with the regular framework. General races actually utilize an incorporated framework, there is one association that oversees it. A portion of the issues that can happen in customary discretionary frameworks is with an association that has full authority over the information base and framework, it is conceivable to alter the information base of impressive chances. Blockchain innovation is one of arrangements, since it grasps a circulated framework and the whole information base are possessed by numerous clients. By embracing blockchain in the dissemination of information bases one-casting a ballot framework can diminish one of the bamboozling wellsprings of information base control.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001147 A

(19) INDIA

(22) Date of filing of Application :11/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : WARM SEA WATER FISH SCALE COLLAGEN SCAFFOLD FOR BONE TISSUE ENGINEERING AND METHOD OF MAKING THEREOF

(51) International classification	:A61L 27/56	(71) Name of Applicant : 1)St. JAMES' COLLEGE OF PHARMACEUTICAL SCIENCES
(31) Priority Document No	:NA	Address of Applicant :RIVER BANK, CHALAKUDY,
(32) Priority Date	:NA	THRISSUR, KERALA, INDIA-680307. Kerala India
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)Dr.KRISHNA KUMAR K
Filing Date	:NA	2)Dr.DINESHKUMAR B
(87) 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 :

ABSTRACT OF TNE INVENTION The process for the preparation of Warm sea water fish scale collagen, scaffold for bone tissue engineering involves purification of collagen from scales of warm sea fish by conventional method. Fabrication of scaffold for bone tissue engineering by lyophilisation technique. The developed novel warm sea fish scale collagen scaffold has better mechanical strength when compared to scaffold prepared from collagen of fish skin and fish bone, biodegradable in a controlled manner, biocompatible and does not involve the need for cross linking using toxic chemicals or ionizing radiation

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001148 A

(19) INDIA

(22) Date of filing of Application :11/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED BATTERY MANAGEMENT SYSTEM FOR ELECTRIC VEHICLES TO FORECAST STATE OF CHARGE

(51) International classification	:G06N 20/00	(71)Name of Applicant : 1)Mr.V.CHANDRAN Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ECE, KPR INSTITUTE OF ENGINEERING & TECHNOLOGY, COIMBATORE, TAMIL NADU, INDIA-641407. Tamil Nadu India 2)Dr.M.G.SUMITHRA 3)Dr.T.SENGOLRAJAM 4)Dr.SANJEEV KUMAR 5)Ms.M.MANJUKAVI 6)Ms. POOJA BHAT 7)Mr.R.SASI LAKSHMIKHANTH 8)Dr.M.MADHUSUDAN 9)Mr. VISHAL POLARA
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(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 :

Abstract: - A method for determining state of health (SOH) of an electrochemical device using Deep Learning (i.e., an intelligent system) is presented. State of health of an electrochemical device is determined by an internal characteristic parameters such as Voltage (V), Current (I), Average voltage (VaVg), Average current (Iavg) and Temperature (T) with an intelligent system. The design comprises such devices as Li-ion battery, sensor, edge devices and LCD module. The intelligent system is trained in the relationship between the characteristic parameters of the device, the characteristic parameters of the load and the SoC of the electrochemical device.

No. of Pages : 6 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001153 A

(19) INDIA

(22) Date of filing of Application :11/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : A NOVEL TECHNIQUE FOR WATER SOFTNER USING NATURAL SOURCES

(51) International classification	:C02F 1/42	(71)Name of Applicant : 1)Dr.G.SRINIVASAN Address of Applicant :PROFESSOR & HEAD, DEPARTMENT OF CHEMICAL ENGINEERING, PAAVAI ENGINEERING COLLEGE(AUTONOMOUS) NH-44, PAAVAI NAGAR, PACHAL(PO), NAMAKKAL-637018, TAMIL NADU. Tamil Nadu India
(31) Priority Document No	:NA	2)Mr.S.SARAVANAN
(32) Priority Date	:NA	3)Mr.V.PURUSHOTHAMAN
(33) Name of priority country	:NA	4)Mr.J.MOHAMED ALI
(86) International Application No	:NA	5)Mr.LABUDHAGEER
Filing Date	:NA	6)Mr.M.AJITH
(87) International Publication No	: NA	7)Mr.V.KAILASH
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr.G.SRINIVASAN
(62) Divisional to Application Number	:NA	2)Mr.S.SARAVANAN
Filing Date	:NA	3)Mr.V.PURUSHOTHAMAN
		4)Mr.J.MOHAMED ALI
		5)Mr.LABUDHAGEER
		6)Mr.M.AJITH
		7)Mr.V.KAILASH

(57) Abstract :

ABSTRACT A NOVEL TECHNIQUE FOR WATER SOFTNER USING NATURAL SOURCES The present invention provides a novel system and method for softening hard water. The system and method of the present invention uses natural resources (Chrysopogon Zizanioides) for softening hard water.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001155 A

(19) INDIA

(22) Date of filing of Application :11/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : USER WEARABLE DEVICE FOR FACE RECOGNITION

(51) International classification	:G06K 9/00	(71)Name of Applicant : 1)Mrs.M.SANGEETHA Address of Applicant :DEPATMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA-626117. Tamil Nadu India
(31) Priority Document No	:NA	2)Dr.S.PERIYANAYAGI
(32) Priority Date	:NA	3)Mr.K.RAGAVAN
(33) Name of priority country	:NA	4)Mrs.V.SRIRENGANACHIYAR
(86) International Application No	:NA	5)Mr.V.PAULESAKKI
Filing Date	:NA	6)Mr.S.RAJAGURU
(87) International Publication No	: NA	7)Mr.B.SUNDHARAMOORTHY
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Mrs.M.SANGEETHA
(62) Divisional to Application Number	:NA	2)Dr.S.PERIYANAYAGI
Filing Date	:NA	3)Mr.K.RAGAVAN
		4)Mrs.V.SRIRENGANACHIYAR
		5)Mr.V.PAULESAKKI
		6)Mr.S.RAJAGURU
		7)Mr.B.SUNDHARAMOORTHY

(57) Abstract :

USER WEARABLE DEVICE FOR FACE RECOGNITION ABSTRACT People with visual impairment face various problems in their daily life, as the modern assistive devices are often not meeting the consumer requirements in term of price and level of assistance. Since the number of visually impaired people is growing over the past decades and among all assistive devices, wearable devices are found to be the most useful because they are hand free or require minimum use of hands. The main goal of the work is to improve the lives of visually impaired persons lives despite their economic situations. Smart glass made their day-to-day life easier than now. The Prototype of a smart eyeglass that can help a visually challenged person to recognize the person in front of him and learn about obstacles ahead. This will be enabled by face recognition features.

No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : IAH-WASTE MANAGEMENT: INTELLIGENT WASTE MANAGEMENT FOR AYURVEDA HOSPITALS USING IOT-BASED.

<p>(51) International classification :H04L 12/66</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</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. Pavithra G (Research Consultant) Address of Applicant :Sakala Enterprises (P) Ltd., House No. 132, 1st Floor, 1st Cross, 3rd Main, AMCO Layout, Near Narayana School & Impact Engg. College, Sahakar Nagar, Bangalore-560092, Karnataka, India. Karnataka India</p> <p>2)Dr. T. C. Manjunath (Professor & HOD)</p> <p>3)Dr. K. Sujith (Assistant Professor and Head)</p> <p>4)Dr. Brijesh Sathian (Scientist)</p> <p>5)Mohammed Shuaib (Assistant Professor)</p> <p>6)Dr. Shadab Alam (Assistant Professor)</p> <p>7)Dr. Meenakshi Anurag Thalor (Associate Professor)</p> <p>8)Krishna Prasath S (Assistant Professor)</p> <p>9)Rajakumar. R (Vice Principal)</p> <p>10)Dr. Abdul Hameed (Assistant Professor)</p> <p>11)S. Vidivelli (Assistant Professor)</p> <p>12)Dr S Manju Priya (Professor)</p> <p>13)M. R. Rameeja (Senior Manager)</p> <p>14)Suresh M (Assistant Professor)</p> <p>15)V. Veerakumaran (Assistant Professor)</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Pavithra G (Research Consultant)</p> <p>2)Dr. T. C. Manjunath (Professor & HOD)</p> <p>3)Dr. K. Sujith (Assistant Professor and Head)</p> <p>4)Dr. Brijesh Sathian (Scientist)</p> <p>5)Mohammed Shuaib (Assistant Professor)</p> <p>6)Dr. Shadab Alam (Assistant Professor)</p> <p>7)Dr. Meenakshi Anurag Thalor (Associate Professor)</p> <p>8)Krishna Prasath S (Assistant Professor)</p> <p>9)Rajakumar. R (Vice Principal)</p> <p>10)Dr. Abdul Hameed (Assistant Professor)</p> <p>11)S. Vidivelli (Assistant Professor)</p> <p>12)Dr S Manju Priya (Professor)</p> <p>13)M. R. Rameeja (Senior Manager)</p> <p>14)Suresh M (Assistant Professor)</p> <p>15)V. Veerakumaran (Assistant Professor)</p>
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(57) Abstract :

ABSTRACT Our Invention IAH-waste management: intelligent waste management for Ayurveda hospitals using IOT-based is a apparatus for processing biomedical waste comprises a waste input container having an input door in a top and an output door in a bottom and notified by respective authority using IoT based technology. The Invented technology also includes a shredder is mounted under the output opening and is operative to shred waste to a desired maximum size and a processing chamber is located under the shredder such that when the output door is open solid waste deposited in the waste input container passes through the output opening and through the shredder and shredded waste drops into the processing chamber all the thing managed and controlled by IoT- Based technology. The invention is an Ozone gas is directed into the processing chamber and an ozone indicator indicates ozone concentration and the Exhausts are selectively operative to exhaust the atmosphere from the processing chamber and waste input container. The Gas level and other required things manage and controlled using IoT- Based Technology. The invention is a waste disposal system for treating and disposing of infectious waste articles in a substantially controlled, closed, aseptic environment and for converting such infectious waste articles into a safely disposable, non-infectious non-toxic residue of solid waste independent from disinfecting liquid waste. The invented technology also includes a waste delivery conveyor transfers waste articles from an input region to preliminary waste processing apparatus for preliminarily fragmenting the waste for further treatment by the system. Disinfectant spray is deposited on the waste as it enters the preliminary waste processing apparatus with the fragments resulting therefrom, together with the disinfectant liquid, being transferred to rotary hammermill elements to convert the fragment disinfectant solution to a solution of fine waste particles and disinfectant solution. Liquid solid particle separator apparatus then separates the solid waste particles from the liquid disinfectant for independent evacuation of same and the system further includes vacuum ventilation elements to maintain any released bacteria or particles within the system until completely processed and dis-infected with system switching controls serving to operate and sequence operation of the system components relative to one another by computer.

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

(54) Title of the invention : AUTOMATED PLASTIC INJECTION MOULDING MACHINE USING THE FLUID POWER PNEUMATIC MECHANISM

<p>(51) International classification :B29C 45/17</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</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.D.MURUGANANDAM Address of Applicant :Plot No.28: Jagajeeva Ram Nagar, Selai Yur (Post), Chennai-600073 TamilNadu, India. Tamil Nadu India</p> <p>2)Dr.J.JAYAPRIYA</p> <p>3)Dr.P.MOHANA</p> <p>4)Dr.MARYKUTTY ABRAHAM</p> <p>5)J.THIRUNAVUKKARASU</p> <p>6)S. PRATHIPA</p> <p>7)D.BHARATHY</p> <p>8)R.SELVAKUMAR</p> <p>9)SURAJ SURESHKUMAR</p> <p>10)Dr.C.RAMESH KUMAR</p> <p>(72)Name of Inventor :</p> <p>1)Dr.D.MURUGANANDAM</p> <p>2)Dr.J.JAYAPRIYA</p> <p>3)Dr.P.MOHANA</p> <p>4)Dr.MARYKUTTY ABRAHAM</p> <p>5)J.THIRUNAVUKKARASU</p> <p>6)S. PRATHIPA</p> <p>7)D.BHARATHY</p> <p>8)R.SELVAKUMAR</p> <p>9)SURAJ SURESHKUMAR</p> <p>10)Dr.C.RAMESH KUMAR</p>
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(57) Abstract :

ABSTRACT TITLE: Automated Plastic Injection Moulding Machine Using the Fluid Power Pneumatic Mechanism The present invention is a plastic injection moulding which consists of compressed air (1) which is used to pressure the piston rod (5), the flow control valve (2) controls the quantity of air supply to the pneumatic mechanism, direction control valve (3), controls the direction of the piston inside the pneumatic cylinder (4) which takes air as fluid power and supports in actuating the piston rod (5). Piston Rod (5), is used to compress the molten plastic material to inject to cast-die through the nozzle (8). Heating Coil (7) is placed around the barrel (6) to heat the plastic materia! to the molten state and regulates temperature according to the type of materials, Nozzle (8) injects the molten material from the barrel (6) into the die-cast (9). L-frame (10) supports the entire system such as pneumatic cylinder, piston rod, barrel, heating coil to optimize the space occupied by the entire system. Fig 1A.

No. of Pages : 19 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001325 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : A NOVEL EXTRACT OF MOLLUGO CERVIANA WITH ANTICANCER ACTIVITY AND USE THEREOF

(51) International classification	:C07K 7/08	(71)Name of Applicant : 1)Mrs. A. Annie Aglin
(31) Priority Document No	:NA	Address of Applicant :Assistant Professor (Senior Grade),
(32) Priority Date	:NA	Department of Biotechnology, Mepco Schlenk Engineering
(33) Name of priority country	:NA	College, Sivakasi, Mepco Nagar, Virudhunagar, Tamilnadu, India
(86) International Application No	:NA	626005. Tamil Nadu India
Filing Date	:NA	2)Mrs. M. Indiraleka
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Mrs. A. Annie Aglin
Filing Date	:NA	2)Mrs. M. Indiraleka
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Treating cancer is a major challenge faced by humans now a day. Even though, many chemicals and drugs are available to treat cancer, herbal plants are still considered as an effective source of phytochemicals with antimicrobial, anti-inflammatory, antioxidant, and free radicals scavenging activity. This study is to show the efficacy of Mollugo cerviana aqueous extract on normal cells (Vero) and breast cancer cells (MDA MB-231 and MCF-7). The crude aqueous extract was prepared using the ultra-sonication assistant method. The proliferation assay was performed on Vero, MDA MB-231 and MCF-7 at different concentrations of aqueous extract. At high concentrations of the extract inhibition in cell proliferation was observed on MDA MB-231 and MCF-7 cells when the effect was not significant in Vero cells. The calculated IC₅₀ value of crude aqueous extract for MDA MB-231 and MCF-7 cell lines are 114.26 and 106.99 μ g/ml, respectively. The presence of flavonoids, tannins, and saponins could be the reason for the selective anticancer activity. Thus the study shows efficiency of the M. cerviana aqueous extract as an anticancer agent. Also, the process is cost-effective since the plant is easily available in India, and a simple extraction procedure is followed.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001346 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : DUAL ACCELERATOR FOR BIKES

(51) International classification	:G07F 17/00	(71) Name of Applicant : 1)VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS) Address of Applicant :VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS) VELAN NAGAR, PV VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMIL NADU, INDIA-600117. Tamil Nadu India
(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	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Mr.SENTHIL ARUMUGAM.M
Filing Date	:NA	2)Mr.JAYAKANTH J.J
(62) Divisional to Application Number	:NA	3)Dr.CHANDRASEKARAN.M
Filing Date	:NA	

(57) Abstract :

ABSTRACT OF THE INVENTION Bike riders travel more in highway and many frequently drive with in city, when they accelerate for a longer period of time they suffer pain in right hand and for physically challenged person with some disability in right hand they have discomfort in accelerating the bike. This kind of condition cannot do both acceleration and clutch in one hand, the riders needs to travel in constant gear. So that left hand is free from operating clutch/break. But the right hand will be doing the operation of acceleration. Obviously, right hand is in temper and its hard too. The invention gives the solution for the problems above mentioned. The invention includes the design of the second accelerator and the design of the cable. In Dual accelerator throttle grip is used for the first accelerator and thumb lever is used for the second accelerator. The cable is designed in a way that when one-side of the accelerator is operated, then the other side is control free. So that it is safe and comfort to handle.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001351 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : WIRELESS SENSOR DEVICES IN TRAFFIC SIGNAL POST FOR TRACKING VEHICLE USING ARTIFICIAL NEURAL NETWORK

(51) International classification	:H04W 84/18	(71) Name of Applicant : 1)Vels Institute of Science, Technology & Advanced Studies (VISTAS)
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(32) Priority Date	:NA	Pallavaram, Chennai, Tamil Nadu, India 600117. Tamil Nadu
(33) Name of priority country	:NA	India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Dr. R. Gobinath
(87) International Publication No	: NA	2)Dr. S. Perumal
(61) Patent of Addition to Application Number	:NA	3)Dr. AS. Arunachalam
Filing Date	:NA	4)R. Balamurugan
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

7. ABSTRACT OF THE INVENTION The Accidents occurred during two-wheeler riding are rapidly increasing in recent years. Vehicle theft and changing the vehicle number for illegal activities are also increasing. A proper system is needed to monitor such activities and bringing the overruled persons into judicial custody. There are many traffic rules and road rules are available which are mostly violated during road travel. There are many advanced techniques available in vehicles are most likely available for comfortable and safe journey. Even though there are many techniques available for traffic police to find out the rider disobedient in rules. The perfect solution is needed for our society to find out the riders, basically overrule the rules and regulation of government. The solution of fixing a cheaper wireless sensor device in two wheelers as well as in helmet can be monitored from a device fixed in traffic signal posts. The control rooms present throughout the country can be connected together and maintained in common data storage. The ground control room collects the necessary information and stores for future reference. The riders can be monitored anywhere throughout the country. The process can be implemented in any other vehicle for identification system. The sensor devices in the traffic signal posts finds for the rider without helmet and tracks the vehicle number and cross checks for the information already stored in the database. If the number is not present in the information available in the control room, then the vehicle sensor device is controlled by control room and the vehicle can be stopped. If the sensor device is not present in the vehicle, then the control room send the alarm signal to traffic signal post and traffic police are instructed to stop the vehicle. The alarm system present in the helmet is activated while the rider drives the two wheeler with maximum speed which exceed the limit of traffic rules. The alarm activation system is possible when the sensor devices present in the vehicle is activated.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001354 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : A MULTICOMPONENT SYNTHESIS OF DISPIRO-ACENAPHTHENONE-DIPYRROLOPIPERAZINE SCAFFOLDS THROUGH DIPOLAR CYCLOADDITION METHODOLOGY OF AZOMETHINE YLIDES

(51) International classification	:C09B 55/00	(71) Name of Applicant : 1)Vels Institute of Science, Technology & Advanced Studies (VISTAS)
(31) Priority Document No	:NA	Address of Applicant :Vels Institute of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, PV Vailhiyalngam Rd , Pallavaram, Chennai, Tamil Nadu, India 600117. Tamil Nadu India
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr.Gavaskar D
Filing Date	:NA	2)Mr.Karunakar Badugu
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

7. ABSTRACT OF THE INVENTION The 1,3-dipolar cycloaddition of azomethine ylide generated in-situ from acenaphthenequinone and its derivatives with L-proline in the absence of dipolarophile is investigated. The structures and relative stereochemistry of cycloadducts were to be confirmed by single crystal X-ray diffraction, H and ¹³C NMR spectroscopy and mass spectrometry.

No. of Pages : 2 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001357 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : IDENTIFYING STRUCTURAL PATTERNS OF CHEMICAL BONDS

(51) International classification	:A61F 2/07	(71) Name of Applicant : 1)Vels Institute of Science, Technology & Advanced Studies (VISTAS)
(31) Priority Document No	:NA	Address of Applicant :Vels Institute of Science, Technology & Advanced Studies (VISTAS) Velan Nagar, PV Vaithiyalingam Rd, Pallavaram, Chennai, Tamil Nadu, India, 600117. Tamil Nadu India
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr.S.Sathya
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

7. ABSTRACT OF THE INVENTION Chemical bonding is an interaction that depicts the association of atoms into the molecules, ions, crystals and another stable species which leads to form the well-known substances. By the identification of subset of the most chemical bonds, the structural patterns of chemical bonding are examined successfully. From that, even if sequential pattern mining increases the accuracy in the number of matched sequential patterns, the time consumption for classifying the structure of chemical bonds is concerned. For providing efficient search and retrieval, the indexing of sequence patterns is helped which performs chemical formula identification and index appearances of certain patterns. The chemical structure bond classification or the accurate bond and atoms/molecules selection in the chemical molecular structure is the most significant challenging task for identifying the structural patterns of chemical bond. In order to address the above mentioned issues, our work introduces of effective sequential pattern mining, feature selection with indexing and pattern matching. The three methods are Probabilistic Deterministic Classifier and Sequential Pattern Mining (PDC-SPM) technique, Chemical Structured Bond Tree-based Indexing (CSBT-I) method and Principal Component Analysis based Subgraph Isomorphic Matching (PCA-SIM) framework.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001360 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : VOICE RECOGNITION BASED AUTOMATED MIXER GRINDER

(51) International classification	:G06F	(71) Name of Applicant :
(31) Priority Document No	21/56	1)VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)
(32) Priority Date	:NA	Address of Applicant :VELS INSTITUTE OF SCIENCE,
(33) Name of priority country	:NA	TECHNOLOGY & ADVANCED STUDIES(VISTAS) VELAN
(86) International Application No	:NA	NAGAR, PV VAITHIYALINGAM RD, PALLAVARAM,
Filing Date	:NA	CHENNAI, TAMIL NADU, INDIA-600117. Tamil Nadu India
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr.S.PRASANNA
Filing Date	:NA	2)Dr.K.DHARMARAJAN
(62) Divisional to Application Number	:NA	3)Dr.S.VASANTHA
Filing Date	:NA	

(57) Abstract :

7. ABSTRACT OF THE INVENTION Mixer grinder occupies predominant position in the kitchen. This machine accomplishes wide range of tasks and simplifies manual job. But physically challenged people find it difficult to operate mixer grinder when they are having deficiency in hand and eyesight, who cannot usually help themselves to move around, and might require external assistance. People who live alone might also need a helping hand at home. Therefore, a voice controlled home automation system is designed, so that the users can perform certain tasks by just the use of their voices, .moreover, the system is designed to have a hand-held device(remote). So that the user can easily speak their commands, otherwise they would have to walk over to the microphone to speak. Having a remote will make the system more user-friendly and portable.

No. of Pages : 12 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001362 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : DEVELOPMENT OF 2-CHLORO-4'-METHOXY BENZIL AND STUDY OF ITS ANTIBACTERIAL ACTIVITY

(51) International classification	:G03F 7/031	(71) Name of Applicant : 1)VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)
(31) Priority Document No	:NA	Address of Applicant :VELS INSTITUTE OF SCIENCE,
(32) Priority Date	:NA	TECHNOLOGY & ADVANCED STUDIES(VISTAS), VELAN
(33) Name of priority country	:NA	NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM,
(86) International Application No	:NA	CHENNAI, TAMILNADU-600117, INDIA. Tamil Nadu India
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1) Dr. G. NITHYA
Filing Date	:NA	2)Dr. R. SUDHA
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The compound 2-chloro benzaldehyde and 4-methoxy benzaldehyde when treated with potassium cyanid< and on further steam distillation 2-chloro-4,-methoxy benzoin was synthesized. On oxidation of 2-chloro-4 methoxy benzoin compound with concentrated nitric acid leads to the formation of 2-chloro-4-methoxy benzil The yield of the title compound were good and their biological activity has been delineated. To obtain thi pharmacological data molecular docking studies were conducted. It also provides an evidence for the synthesizec compound antibacterial activity. The results showed that cell growth in vitro is significantly higher in gram positivi bacteria than in gram negative bacteria in different concentration dosages.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001364 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : UVC POLYSTYRENE CHAMBER

(51) International classification	:A61L 2/10	(71) Name of Applicant : 1) Dr. J. JUDITH VIJAYA
(31) Priority Document No	:NA	Address of Applicant :LOYOLA COLLEGE, STERLING
(32) Priority Date	:NA	ROAD, NUNGAMBAKKAM, CHENNAI TAMIL NADU -
(33) Name of priority country	:NA	INDIA 600034 Tamil Nadu India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1) Dr. J. JUDITH VIJAYA
(87) International Publication No	: NA	2)Mr. HARIHARAN M
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This project aims at sanitizing things like phone, cash, foods, bills, etc... used, This contraption is a cost effective and simple way to disinfect. This is done via passing the cash through an intense stream of Ultraviolet-C light that disinfects things from microbes and potential viruses. Our model is cost efficient and user-friendly which makes it unique from other products.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001393 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : MOVING SMART DUSTBIN

(51) International classification	:B65F	(71)Name of Applicant :
(31) Priority Document No	1/14	1) Dr. K.P. SAMPOORNAM
(32) Priority Date	:NA	Address of Applicant : DEPARTMENT OF ECE, BANNARI
(33) Name of priority country	:NA	AMMAN INSTITUTE OF TECHNOLOGY,
(86) International Application No	:NA	SATHYAMANGALAM, ERODE, TAMIL NADU, INDIA -
Filing Date	:NA	638401. Tamil Nadu India
(87) International Publication No	: NA	2)Mr. V. SUDARVANNAN
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr. K.P. SAMPOORNAM
(62) Divisional to Application Number	:NA	2)Mr. V. SUDARVANNAN
Filing Date	:NA	

(57) Abstract :

The increasing industrial, revolution and inventions are leading to technological advancement and the emergence of smart cities, creating a need for smart solid waste management. A new idea- that can handle the, waste in the smart cities is moving smart dustbin. In this the ordinary dustbin is made smart by using sensor systems. The obstacles are find using Ultrasonic- sensor/ piezoelectric sensor is used to measure the weight of the garbage to distinguish the degradable waste from non degradable waste and Metal detector to isolate metal waste, gas.detector is used to detect the unpleasant odor, level of the dustbin can be detect using Infrared sensor and this sensor allows the dustbin to travel in the predefined direction. As soon as the level detector is high,, with the help of the line follower robot, the dustbin will automatically move in the predefined path to reach the main waste area and. empty the dustbin by dumping the waste separately in the main garage area. A piezoelectric sensor is used in this moving smart dustbin, which transforms pressure into an electrical signal. Sensors, which are used in the smart dustbin, are provided the power produced from the waste. The prototype obtained appears to be appealing and we could save a lot of power and automate the city by using the solar panel to charge the battery.

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

(54) Title of the invention : DESIGN AND DEVELOPMENT OF AN AUTOMATED RUNTIME VEHICLE TYRE MONITORING UNIT

(51) International classification

:G06F
11/34

(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

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3)Dr. A. SELVARAJ

4)Dr. T. ABIRAMI

5)Dr. N. MUTHUKUMARAN

6)Dr. T. RAJAPRATHAB

7)Mr. K SARAVANAN

8)Mrs. C. RAMYA

(72)Name of Inventor :

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2)Dr. R. SUJA MANI MALAR

3)Dr. A. SELVARAJ

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5)Dr. N. MUTHUKUMARAN

6)Dr. T. RAJAPRATHAB

7)Mr. K SARAVANAN

8)Mrs. C. RAMYA

(57) Abstract :

Abstract The management of optimum pneumatic pressure is an important aspect that paves the way for enhanced vehicle control and thereby facilitates protection for automobiles and people. National Highway Traffic Safety Administration (NHTSA) estimates say annually 660 deaths and 33.000 injuries caused by irregular pneumatic pull-out incidents. The pressure of the pneumatic is assessed and controlled to ensure pneumatic protection and therefore vehicle stability. The readings are sent to the controller and on the basis of the sensor rating, the ignition required is tested and the ignition is turned off and the vehicle is safely stopped in case of the strain of the pneumatic pulling beyond the specified limits. The key purpose of such a scheme is to improve wisdom and reduce the amount of injuries caused by inappropriately inflated tyres, decreasing the difficulty of travel. This increases the stability of the car, the tyre reliability and the fuel efficiency of the car.

No. of Pages : 18 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001523 A

(19) INDIA

(22) Date of filing of Application :13/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : EMBEDDED SENSOR WITH MATLAB BASED ADVANCED SECURITY SYSTEM FOR FILE COMMUNICATION

(51) International classification	:G06F 12/14	(71)Name of Applicant : 1) V. SANGEETHA Address of Applicant :Dr. M.G.R EDUCATIONAL AND RESEARCH INSTITUTE, MADHURAVOYAL, CHENNAI, TAMIL NADU, INDIA, 600 095 Tamil Nadu India
(31) Priority Document No	:NA	2)N. SARIKA
(32) Priority Date	:NA	3)V. VAIDEHI
(33) Name of priority country	:NA	4)G.S. NISHANTHI
(86) International Application No	:NA	5)K. ANNALAKSHMI
Filing Date	:NA	6)R. PADMAPRIYA
(87) International Publication No	: NA	7)DR. S. KEVIN ANDREWS
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1) V. SANGEETHA
(62) Divisional to Application Number	:NA	2)N. SARIKA
Filing Date	:NA	3)V. VAIDEHI
		4)G.S. NISHANTHI
		5)K. ANNALAKSHMI
		6)R. PADMAPRIYA
		7)DR. S. KEVIN ANDREWS

(57) Abstract :

When sending to the recipients, the preparation and sharing of a vast volume of data has several issues. To strengthen the security of the document, the right end consumer is ensured. The contents of the data file can be accessed and read by those persons who know the protected document password. Often banking attachments contain default passwords or passwords. The name, DOB, etc. combination is usually passwords. Both private and government agencies are now calling for the above specifics to be obligatory to easily remember a folder and file password. The suggested security management scheme for Smart Iris files covers human iris-dependent protection and explicitly prevents unauthorized access to documents and data in order to avoid any problems. This invention is covered by the end-user Iris by the appointed person and forwarded to the individuals concerned. Only the person concerned will view the same document and the system is constantly monitored for the Iris setup of an encrypted document by matching the Iris end-user. Various types of file formats are also provided by the system. It also guarantees multiple individuals simultaneous read-on security mode, copy protection, screenshots, clipping, and skippering, saves as operations, and takes an open file or paper snapshot.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001526 A

(19) INDIA

(22) Date of filing of Application :13/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : A SHOPPING TROLLEY WITH AUTOMATIC BILLING SYSTEM

(51) International classification	:B62B 3/14	(71)Name of Applicant : 1)Dr. S. VENKATESAN Address of Applicant :FLAT NO. FF1, SS MITHRA ENCLAVE, PLOT NO. 4,5,6,7A, BEHIND SAI COMFORTS APTS, NARAYANA NAGAR, 1ST BLOCK, DODDAKALLSANDRA, BANGALORE, KARNATAKA, INDIA - 560062. Karnataka India
(31) Priority Document No	:NA	2)Dr. M. KEMPANNA
(32) Priority Date	:NA	3)Dr. J. NAGARAJA
(33) Name of priority country	:NA	4)Dr. G. DEEPAK
(86) International Application No	:NA	5)Dr. KRISHNA PRAKASHA K
Filing Date	:NA	6)DEEPTI.C
(87) International Publication No	: NA	7)Er. AROGIA VICTOR PAUL
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1) Dr. S. VENKATESAN
(62) Divisional to Application Number	:NA	2)Dr. M. KEMPANNA
Filing Date	:NA	3)Dr. J. NAGARAJA
		4)Dr. G. DEEPAK
		5)Dr. KRISHNA PRAKASHA K
		6)DEEPTI.C
		7)Er. AROGIA VICTOR PAUL

(57) Abstract :

The present invention relates to a smart shopping trolley integrated with a camera, weighing means, a device and a system for enabling the billing and payment process. Said billing system (1) comprises a shopping trolley (31) characterized in that said system (1) comprises an entry gateway(21a), exit gateway(21b) and a smart trolley (31), said trolley (31) comprises of weighing means (35), a display unit (33) with a camera (34) and said trolley is wirelessly connected with entry gateway (21a) and exit gateway(21b) via cloud (41).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001537 A

(19) INDIA

(22) Date of filing of Application :13/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : INTERNET OF THINGS ENABLED SMART AGRICULTURE SYSTEM FOR FRUIT PRODUCTION

(51) International classification	:H04L 29/08	(71)Name of Applicant : 1)Dr.S. SELVAKUMARASAMY Address of Applicant :DEPARTMENT OF SOWTWARE SRM INSTITUTE OF SCIENCE AND TECHNOLOGY,CHENNAI 603203, TAMIL NADU,INDIA. Tamil Nadu India
(31) Priority Document No	:NA	2)Dr.S.KARTHICK
(32) Priority Date	:NA	3)Mr. C. ARUN
(33) Name of priority country	:NA	4)Mr. S. JOSEPH JAMES
(86) International Application No	:NA	5)Mrs. C G ANUPAMA
Filing Date	:NA	6)Dr.T.SABHANAYAGAM
(87) International Publication No	: NA	7)Dr.J.S.SUDARSAN
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr.S. SELVAKUMARASAMY
(62) Divisional to Application Number	:NA	2)Dr.S.KARTHICK
Filing Date	:NA	3)Mr. C. ARUN
		4)Mr. S. JOSEPH JAMES
		5)Mrs. C G ANUPAMA
		6)Dr.T.SABHANAYAGAM
		7)Dr.J.S.SUDARSAN

(57) Abstract :

ABSTRACT INTERNET OF THINGS ENABLED SMART AGRICULTURE SYSTEM FOR FRUIT PRODUCTION In digital era, technology using Internet of Things (IoT) devices play a major role in various applications of agricultural field. The embedding of IoT devices has enabled the assistance by Artificial Intelligence (AI) systems to surmount the production of agricultural crop productivity. To assist such aim and to automate the process of crop production without human intervention, object detection methods plays a vital part. The IoT devices embedded with object detection method could favor real-time implementation on agricultural production. In this project, we develop an IoT powered smart production approach that utilizes IoT devices to monitor and help the farmers to check if the tree has ripened mango fruit. In large mango fields across various regions of India, this project would help the farmers in an optimal way such that the monitoring and ripened state is intimated for reaping the fruit. The movable IoT devices placed over various regions around a tree or a group of trees senses the presence of ripened condition of mango fruit using object detection AI powered module wirelessly and intimate the framers via an android mobile phone. This accounts for automated crop production without the assistance of farmers. .

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001560 A

(19) INDIA

(22) Date of filing of Application :13/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : A MAGNESIUM-BASED COMPOSITE BIOMATERIAL WITH IMPROVED CORROSION RESISTANCE

(51) International classification	:C22C 23/00	(71) Name of Applicant : 1)Vijaykumar Bommala
(31) Priority Document No	:NA	Address of Applicant :Department of Mechanical
(32) Priority Date	:NA	Engineering, Acharya Nagarjuna University, NH-16, Guntur,
(33) Name of priority country	:NA	Andhra Pradesh, India. Andhra Pradesh India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Vijaykumar Bommala
(87) International Publication No	: NA	2)Dr. Gopi Krishna Mallarapu
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A MAGNESIUM-BASED COMPOSITE BIOMATERIAL WITH IMPROVED CORROSION RESISTANCE • ABSTRACT The invention provides a magnesium-based composite biomaterial with improved resistance to corrosion, wherein, the magnesium-based composite biomaterial comprises magnesium alloy AZ91D, and 2% tricalcium phosphate (TCP) by weight, wherein, TCP particulates are of size around 63 µm uniformly distributed in AZ91D alloy matrix; the composite has a measured density of 1.825 g/cc; and the composite has corrosion rate of 10.78 mm/year. The method for preparing magnesium-based composite biomaterial involves stir casting technique.

No. of Pages : 29 No. of Claims : 9

(54) Title of the invention : A WIRELESS AUTOMATION SYSTEM FOR MONITORING AND MANAGING THE POWER CONSUMPTION BY EMBEDDED RFID AND IOT

<p>(51) International classification :G06F 1/3203</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</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)Mrs.V.Sarvani Duti Rekha Address of Applicant :Assistant Professor, Department of ECE, Prasad V Potluri Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh, India. Pin Code:520007 Andhra Pradesh India</p> <p>2)Mr.Pijush Dutta</p> <p>3)Dr.G.Madhusudhanarao</p> <p>4)Ms.Priti Rani Rajvanshi</p> <p>5)Dr.Rohit Kumar</p> <p>6)Dr.D.Rajendra Prasad</p> <p>7)Dr.Himanshu Verma</p> <p>8)Ms.S.Jayachitra</p> <p>9)Dr.S.P.Venu Madhava Rao</p> <p>10)Dr.D.Hemanand</p> <p>(72)Name of Inventor :</p> <p>1)Mrs.V.Sarvani Duti Rekha</p> <p>2)Mr.Pijush Dutta</p> <p>3)Dr.G.Madhusudhanarao</p> <p>4)Ms.Priti Rani Rajvanshi</p> <p>5)Dr.Rohit Kumar</p> <p>6)Dr.D.Rajendra Prasad</p> <p>7)Dr.Himanshu Verma</p> <p>8)Ms.S.Jayachitra</p> <p>9)Dr.S.P.Venu Madhava Rao</p> <p>10)Dr.D.Hemanand</p>
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(57) Abstract :

The Electrical Energy Sources available are limited in nowadays with more energy consumption leads to the Electrical Energy crisis in very coming days. The Energy saving device is required to monitor and manage the power consumption to overcome this crisis. The unnecessary power consumption is monitored and managed by the Energy Saving Devices by providing the information to the consumer from the substation. The present invention disclosed herein is a Wireless Automation System for Monitoring and managing the Power Consumption by Embedded RFID and IoT comprising of: Data Monitoring Module (301); RF Reader Tag (302); Wireless Access (303); Base Station (304); Gateway (305); Server (306); used to monitor and manage the Power Consumption with wireless automation with the help of Embedded Radio-Frequency Identification (RFID), Wireless Sensor Network (WSN), and Internet of Things (IoT). The present invention disclosed herein can be implemented for the household appliances power consumption monitoring and managing with wireless communication. The ZigBee Pro module with 2.6GHz is used in the proposed invention for indoor and outdoor environments for more remote communications.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001669 A

(19) INDIA

(22) Date of filing of Application :13/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : A PROCESS FOR PRODUCTION OF LIQUID FUEL FROM WASTE PLASTIC

(51) International classification	:C10G	(71) Name of Applicant :
(31) Priority Document No	1/10	1)SRM Institute of Science and Technology
(32) Priority Date	:NA	Address of Applicant :Kattankulathur, Chennai-603203, Tamil
(33) Name of priority country	:NA	Nadu, India Tamil Nadu India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)S.Thiyagarajan
(87) International Publication No	: NA	2)GEO V. Edwin
(61) Patent of Addition to Application Number	:NA	3)M. Leenus Jesu Martin
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A PROCESS FOR PRODUCTION OF LIQUID FUEL FROM WASTE PLASTIC The present disclosure relates to a process for production of fuel from plastic waste. The process of the present disclosure is carried out by using waste plastic and eggshell as a catalyst. The liquid fuel obtained is a diesel like fuel for utilization in CI engine.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001705 A

(19) INDIA

(22) Date of filing of Application :13/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD AND SYSTEM TO CONNECT INTERNET OF THINGS TO QUICK RESPONSE CODES IN USER DEVICE •

(51) International classification

:G06Q
30/02

(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)OneON Automations LLP

Address of Applicant :No 157, 5th Cross, South Avenue L/O
Gottigere Sankar Nag Road Bangalore 560083, Karnataka, India
Karnataka India

(72)Name of Inventor :

1)Debjit Basu

(57) Abstract :

Abstract System and method to connect IoT to Quick Response codes in a user device. In particularly, the exemplary embodiment includes a plurality of IoT devices the user scans QR code (102). An HTTP request is sent to the remote serverTMs application programming interface (API) endpoint with action, device ID, and device type as query parameters. IoT Cloud Platform (101) executes a specific manager module based on the device type. IoT Cloud platform (101) then sends an action command to the connected device that matches the device ID. End device (104) is a consumer appliance, connect to the IoT Cloud Platform (101). Device (104) uses Wi-Fi communication to connect to the internet using the Internet Router (103). The state of IoT end devices (104) changes when it receives action commands from the IoT Cloud Platform (101).

No. of Pages : 27 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001745 A

(19) INDIA

(22) Date of filing of Application :14/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : AN INTELLIGENT FAST COMPOST GENERATOR BIN WITH AUTOMATIC SEGREGATION OF KITCHEN WASTE

(51) International classification	:H04W 52/02	(71)Name of Applicant : 1)Dr.M.Vidhyalakshmi,AP/ECE/SRMIST Address of Applicant :SRM INSTITUTE OF SCIENCE AND TECHNOLOGY,RAMAPURAM Tamil Nadu India 2)Dr.M.Periyasamy., Prof/ECE/SAEC 3)Dr.G.Mahendran, Prof/ECE/SAEC 4)Dr.N.Kirubanandasarathy.,Prof/ECE/SAEC 5)Dr.S.M.H.Sithi Shameem Fathima.,Prof/ECE/SAEC 6)Dr. S.Murugeswari., ASP/ECE/SAEC 7)Dr. C.Priya.,ASP/ECE/SAEC 8)Prof.S.Sakubar Sadiq.,ASP/ECE/SAEC 9)Prof. A.Valanarasi.,ASP/ECE/SAEC 10)Mr.S.Praveen Samuel Washburn.,AP/ECE/SAEC
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr.M.Vidhyalakshmi,AP/ECE/SRMIST 2)Dr.M.Periyasamy., Prof/ECE/SAEC 3)Dr.G.Mahendran, Prof/ECE/SAEC 4)Dr.N.Kirubanandasarathy.,Prof/ECE/SAEC 5)Dr.S.M.H.Sithi Shameem Fathima.,Prof/ECE/SAEC 6)Dr. S.Murugeswari., ASP/ECE/SAEC 7)Dr. C.Priya.,ASP/ECE/SAEC 8)Prof.S.Sakubar Sadiq.,ASP/ECE/SAEC 9)Prof. A.Valanarasi.,ASP/ECE/SAEC 10)Mr.S.Praveen Samuel Washburn.,AP/ECE/SAEC
(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 :

An Intelligent compost and Trash Bin that generates compost without human interference after segregating wastes as degradable wastes and non-degradable wastes with the help of cameras, sensors and motors. The non degradable waste is collected separately and disposed. The degradable waste is collected in the compost bin chamber. The motor, chopper and mixer blades are connected to the base of the chamber. A thermal insulation material is filled between the outer and inner wall of the chamber. A heating tube is placed in the compost chamber . Once the kitchen waste is collected to a level, the chopping and heating is started automatically, thereby making compost. A fan is provided for air circulation to prevent bad odors, molds and insects. An automatic notification is given either by light, sound or any kind of message when the compost is ready. There are separate collectors at the bottom of the bin to collect waste water and manure respectively.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001750 A

(19) INDIA

(22) Date of filing of Application :14/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : DESIGN USING IMAGE RECOGNITION FOR LOW-TRAFFIC LONG-ROADS ILLUMINATION CONTROL SYSTEM

(51) International classification	:H04W 52/02	(71)Name of Applicant : 1)MALINI K V Address of Applicant :D/o. VENKATA RAO K V, SRI SAIRAM COLLEGE OF ENGINEERING, SAILEO NAGAR, GUDDANAHALLI POST, ANEKAL, BENGALURU 562106, KARNATAKA, INDIA. Karnataka India
(31) Priority Document No	:NA	2)Dr. B. SHADAKSHARAPPA
(32) Priority Date	:NA	3)RAMYA K
(33) Name of priority country	:NA	4)R GUNASEKARI
(86) International Application No	:NA	5)D A VENNILA
Filing Date	:NA	6)J MADHAVARAO
(87) International Publication No	: NA	7)DINESH P
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)MALINI K V
(62) Divisional to Application Number	:NA	2)Dr. B. SHADAKSHARAPPA
Filing Date	:NA	3)RAMYA K
		4)R GUNASEKARI
		5)D A VENNILA
		6)J MADHAVARAO
		7)DINESH P

(57) Abstract :

The present invention provides optimal solution between expensive safe design utilizes continuous lighting at night for the complete road, or sacrifice the safety to minimize the cost of energy consumption by relying on using vehicles lighting in low traffic road designed without lighting systems. Each of these two scenarios is extremely significant issue and contradicting to each other from economic point of view. By taking into account both of these factors, smart lighting control system is proposed using Image Recognition Technique. The road is sectionalized into zones. By using motion sensors and Infra-Red cameras distributed and installed in each zone, any moving object can be detected and its image can be captured and analyzed using Image Recognition Technique to check whether the object is a vehicle or not.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001792 A

(19) INDIA

(22) Date of filing of Application :14/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : FOOD SAFETY WARNING SYSTEM

(51) International classification	:G06Q 30/00	(71)Name of Applicant : 1)Chetan.V. Sagarnal Address of Applicant :Asst.Professor, Dept. of ECE , K L E Institute of Technology, Opp. Airport, Gokul, Hubballi, Dt: Dharwad-580027 Karnataka India
(31) Priority Document No	:NA	2)Dr.Basavaraj S. Anami
(32) Priority Date	:NA	3)Dr. Pradeep K R
(33) Name of priority country	:NA	4)Mr. Ashoka S
(86) International Application No	:NA	5)Mrs. Swetha P
Filing Date	:NA	6)Dr.Guruprakash C D
(87) International Publication No	: NA	7)VEERANNA A KOTAGI
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Chetan.V. Sagarnal
(62) Divisional to Application Number	:NA	2)Dr.Basavaraj S. Anami
Filing Date	:NA	3)Dr. Pradeep K R
		4)Mr. Ashoka S
		5)Mrs. Swetha P
		6)Dr.Guruprakash C D
		7)VEERANNA A KOTAGI

(57) Abstract :

A food safety alert system, comprising an information acquisition module, a risk evaluation and warning terminals, is revealed in the utility model. The model of acquisition of information gathers information from scent sensors and from the moment of insects around the food from camera sensors. The Risk Assessment Module warns with signals at higher risk levels. User terminals are composed of contact terminals and are used to collect information on food safety.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001828 A

(19) INDIA

(22) Date of filing of Application :14/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : HOUSEHOLD WATER USAGE AUDITING, ASSESSMENT REPORT AND SCHEDULING STRATEGY

(51) International classification	:H04W 72/12	(71)Name of Applicant : 1)Dr. Kumar K Address of Applicant :Associate Professor, Department of EEE, Sri Venkateswara College of Engineering, Tirupathi,Andhra Pradesh 517502 Andhra Pradesh India 2)Dr.V.Lakshmi Devi 3)Mrs. R. Sireesha 4)Mr.N.M.Girish Kumar 5)Mrs. B. Banusuriya 6)Mrs. P. Suneetha 7)Mr. Y V Krishna Reddy 8)Mr. Gowtham Chendra
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Kumar K 2)Dr.V.Lakshmi Devi 3)Mrs. R. Sireesha 4)Mr.N.M.Girish Kumar 5)Mrs. B. Banusuriya 6)Mrs. P. Suneetha 7)Mr. Y V Krishna Reddy 8)Mr. Gowtham Chendra
(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 :

Abstract The subject discloser provides the system for household water consumption monitoring, analyzing, and utilization and to provide assessment and scheduling report for effective usage of available water resource. The water scheduling and assessment report is important for our daily household application, with a view to reduce the water consumption and to schedule the important and essential applications based on the water availability in the sump and overhead tanks.The system generally includes water flow monitoring hardware, water level sensors to find the water availability and an interface. The interface may be implementing in hardware model app or the purpose of this work is to develop an app for getting better information on water availability and to get perfect planning for effective use of it.The component of the system is implemented in one house at different household appliance location and to monitor and maintain the scheduled water consumption based on suggestions given by the system. The developed app will gives suggestions to the consumer for effective use of available water and often saving money from private water tankers suppliers. Dated this 9th day of January 2021 Adv. Swapnil Gawande
BLI Consultancy Pvt. Ltd. Regd. Patent Agent IN/PA 1587

No. of Pages : 13 No. of Claims : 9

(54) Title of the invention : EMOTIONAL COMMUNICATION BASED INFANT FACIAL EXPRESSION MONITORING SYSTEM

<p>(51) International classification :G06K 9/00</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr. A.Udhayakumar Address of Applicant :Assistant Professor, Department of ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore 641 032, Tamilnadu, India. Mail id: udhaya2k6@gmail.com Mobile No : 9952206563 Tamil Nadu India</p> <p>2)Mrs. Varsha Rahul Dange</p> <p>3)Mrs.Asmita Adhikar Pawar</p> <p>4)Mrs. Anita Laxman Devkar Shingade</p> <p>5)Dr. M.Ramesh</p> <p>6)Ms. M.Tamilnidhi</p> <p>7)Dr.B.Senthil Kumar</p> <p>8)Mr.Rahul Bhaurao Diwate</p> <p>9)Dr. Manish Kumar</p> <p>10)Shekhar</p> <p>11)Dr. Seema Tinker</p> <p>12)Mrs.Rupali S. Patil</p> <p>(72)Name of Inventor :</p> <p>1)Mr. A.Udhayakumar</p> <p>2)Mrs. Varsha Rahul Dange</p> <p>3)Mrs.Asmita Adhikar Pawar</p> <p>4)Mrs. Anita Laxman Devkar Shingade</p> <p>5)Dr. M.Ramesh</p> <p>6)Ms. M.Tamilnidhi</p> <p>7)Dr.B.Senthil Kumar</p> <p>8)Mr.Rahul Bhaurao Diwate</p> <p>9)Dr. Manish Kumar</p> <p>10)Shekhar</p> <p>11)Dr. Seema Tinker</p> <p>12)Mrs.Rupali S. Patil</p>
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(57) Abstract :

Busy working mothers often leave infants with teenage caregivers or at day care centres. In such situations, the infants may not be disturbed except for feeding and diaper changes. Further, the mother or the guardian cannot easily measure how much face-time the infant gets in such situations. Often, day care centres have surveillance cameras that show the point of view of the adult observers in the room. The cameras mounted to a fixed position in the room, such as on a crib or on the walls, do not show the point of view of the infant. Therefore, the conventional infant monitoring systems do not make measurements from the point of view of the infant, such as measurements related to the face exposure to the infant for learning facial expression. Infants see and learn from properly presented faces in visual field. Infants learn facial expressions which is important for learning emotional communication. This invention presents a system for monitoring facial presentation of a first user to a second user. 1. The online platform for monitoring facial presentation of a first user to a second user may be hosted on a centralized server, such as, for example, a cloud computing service. The centralized server may communicate with other network entities, such as, for example, a mobile device (such as a smartphone, a laptop, a tablet computer etc.), other electronic devices (such as desktop computers, server computers etc.), display devices (such as an LED display, an LCD display, an OLED display), and sensors (such as a camera sensor), over a communication network, such as, but not limited to, the Internet.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001895 A

(19) INDIA

(22) Date of filing of Application :15/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : A SMART DUSTBIN FOR DISABLED PEOPLE

(51) International classification	:B65F	(71)Name of Applicant :
(31) Priority Document No	1/14	1)Dr. R. Arun Sekar
(32) Priority Date	:NA	Address of Applicant :Assistant Professor, Dept. of ECE,
(33) Name of priority country	:NA	GMR Institute of Technology, Rajam, Andhra Pradesh 532127,
(86) International Application No	:NA	India. Andhra Pradesh India
Filing Date	:NA	2)Dr. Annapantula Sudhakar
(87) International Publication No	: NA	3)Dr. Harsh Pratap Singh
(61) Patent of Addition to Application Number	:NA	4)Radhamani V
Filing Date	:NA	5)Dr.Guntu Nooka Raju
(62) Divisional to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr. R. Arun Sekar
		2)Dr.S. Jaganathan
		3)Dr. M. A. Raja
		4)Dr. A. P. Arun
		5)Mr. R.S.Mohan Kumar
		6)Mr. Sunil L. Bangare
		7)Mrs. Pallavi S. Bangare
		8)Dr.N.Kumareshan

(57) Abstract :

ABSTRACT A SMART DUSTBIN FOR DISABLED PEOPLE The present invention provides a smart dustbin (10) for collecting the industrial and household wastes from the blind/deaf and dumb people in an effective manner. The smart dustbin comprises a dustbin (21), an ultrasonic sensor (11), an arduino (12), servomotor, LED screen, voice recognition sensor module, level sensor and top door. The voice recognition system is providing the information to the blind people of receiving end. The LED screen (15) is providing the information to the deaf and dumb people receiving end. The electronic system (10) will help to collect the waste perfectly without any mistake. Most illustrative Fig 1

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

(54) Title of the invention : DEVELOPMENT OF ARTIFICIAL NECK SKIN, BACK SKIN, CHEST TUBE PRODUCTS FOR SURGERY SUTURE PRACTICE TO INDIAN MEDICAL PRACTITIONERS

(51) International classification	:A61B 5/024	(71)Name of Applicant : 1)Dr. RAJASEKAR RATHANASAMY Address of Applicant :Professor and Head, Department of Mechanical Engineering, Kongu Engineering College (Autonomous), Perundurai, Erode, Tamil Nadu, India 638060 Tamil Nadu India
(31) Priority Document No	:NA	2)Dr. SAMIR KUMAR PAL
(32) Priority Date	:NA	3)Dr. KUPPUSWAMI SUBBARAYA
(33) Name of priority country	:NA	4)Mr. SATHISH KUMAR PALANIAPPAN
(86) International Application No	:NA	5)Dr. MOGANAPRIYA CHINNASAMY
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Dr. RAJASEKAR RATHANASAMY
(61) Patent of Addition to Application Number	:NA	2)Dr. SAMIR KUMAR PAL
Filing Date	:NA	3)Dr. KUPPUSWAMI SUBBARAYA
(62) Divisional to Application Number	:NA	4)Mr. SATHISH KUMAR PALANIAPPAN
Filing Date	:NA	5)Dr. MOGANAPRIYA CHINNASAMY

(57) Abstract :

DEVELOPMENT OF ARTIFICIAL NECK SKIN, BACK SKIN, CHEST TUBE PRODUCTS FOR SURGERY SUTURE PRACTICE TO INDIAN MEDICAL PRACTITIONERS. This invention relates to development of artificial neck skin, back skin, chest tube products for surgery suture practice to Indian Medical Practitioners. Our research team aimed in developing an inexpensive and long term sustainable artificial skin model enables individual medical student to gain basic practical surgical skills in a safe, controlled, risk-free surroundings before proceeding for real time surgery. The developed products are free from viruses, bacteria and avoid complications of potential disease transmission. The developed artificial skin product favours for Indian climates as it retain the technical properties for a prolonged time period due to high temperature processing (HTV silicone rubber). Texture and color are the predominant factors to be considered for developing artificial skin. The following are the parameters adopted during development of artificial skin for surgery suture practice. Selection of suitable polymeric materials, compatible reinforcement, material composition, pigments, preparation methodology, processing temperature and time had been considered to bring the characteristics of artificial skin in-line with human skin in order to enhance the service life of the artificial skin product for Indian environmental conditions. However, the proposed skin will not meet the following requirements like skin transplantation, self-healing, plastic surgery and wound healing.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001930 A

(19) INDIA

(22) Date of filing of Application :15/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD FOR ENHANCED FEATURE SELECTION IN POLLUTION CONTROL MODELS FOR URBAN SUSTAINIBILITY

(51) International classification	:G06K 9/62	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Dr. Anandakumar Haldorai
(32) Priority Date	:NA	Address of Applicant :Department of Computer Science and
(33) Name of priority country	:NA	Engineering, Sri Eshwar College of Engineering, Kondampatti
(86) International Application No	:NA	(post), Vadasithur (via), Kinathukadavu, Coimbatore 641 202,
Filing Date	:NA	Tamil Nadu, India. Tamil Nadu India
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. Anandakumar Haldorai
Filing Date	:NA	2)Dr. Arulmurugan Ramu
(62) Divisional to Application Number	:NA	3)Mr. Shrinand Anandakumar
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHOD FOR ENHANCED FEATURE SELECTION IN POLLUTION CONTROL MODELS FOR URBAN SUSTAINIBILITY Aspects of the present invention relate to a pollution control model for urban sustainability where a canonical correlation analysis based hyper basis feedforward neural network classification is utilized to select the features. The model initially acquires a large size of air pollution dataset as input (102). Then, a canonical correlative analysis based feature selection is applied to select the key pollutant features (106), which bear fundamental implications to the modernize air pollution to maintain for a desired level of urban sustainability. After the feature selection process, the data is classified (108) using the hyper basis feedforward neural network classification in order to classify input air data based on chosen pollutants features. During the classification process, the classification uses three critical layers namely hidden, output and input layers for efficiently categorizing each input data as higher or lower pollution level with higher accuracy. If the level of air pollution on the urban environment is higher, the model significantly reduces the pollution level. FIG. 1 Method for enhanced feature selection in pollution control models using Canonical correlation based feature selection

No. of Pages : 22 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001934 A

(19) INDIA

(22) Date of filing of Application :15/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : CROSSOVER NETWORKING BASED SUSTAINABLE METHODOLOGIES TO ENSURE REAL TIME MONITORING AND CONTROLLING IN AQUACULTURE ENVIRONMENT.

(51) International classification	:A61B 17/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Dr.I.Daniel Lawrence Address of Applicant :Assistant Professor, Loyola Institute of Technology, Chennai. Tamil Nadu India
(32) Priority Date	:NA	2)Ms.A.Rehash Rushmi Pavitra
(33) Name of priority country	:NA	3)Dr.P.Uma Maheswari
(86) International Application No	:NA	4)Dr.E.Shanmugapriya
Filing Date	:NA	5)Dr.S.Antelin Vijila
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr.I.Daniel Lawrence
Filing Date	:NA	2)Ms.A.Rehash Rushmi Pavitra
(62) Divisional to Application Number	:NA	3)Dr.P.Uma Maheswari
Filing Date	:NA	4)Dr.E.Shanmugapriya
		5)Dr.S.Antelin Vijila

(57) Abstract :

The proposed design of the system describes the monitoring and controlling of aquaculture environment through the application of Wireless Sensor Networks (WSNs). The present development is conceded to be extremely projecting with the computerized block integration composing sensors and processor at particular distances in underwater environments. Accordingly, the present intention attempted to attain reliable data across the network remotely. In particular, the design and deploy of sensor nodes are likely to monitor fish classification and feeding process inclusive of water parameters in aquaculture is initially analyzed. The benefit to regulate the parameters ensures the performance of the fish and growth to improve the overall economic accomplishment.

No. of Pages : 12 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141001969 A

(19) INDIA

(22) Date of filing of Application :15/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : 3D-PRINTING PROCESS OF MANUFACTURING AN ELECTRODE-BACKING LAYER FOR POLYMER ELECTROLYTE MEMBRANE FUEL CELL/ELECTROLYSER

(51) International classification	:B33Y 10/00	(71) Name of Applicant : 1)SRM Institute of Science and Technology Address of Applicant :Kattankulathur, Chennai-603203, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)Arunkumar Jayakumar
Filing Date	:NA	2)Sarat Singamneni
(87) International Publication No	: NA	3)Edwin Geo. V
(61) Patent of Addition to Application Number	:NA	4)Rajkumar Velu
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT 3D-PRINTING PROCESS OF MANUFACTURING AN ELECTRODE- BACKING LAYER FOR POLYMER ELECTROLYTE MEMBRANE FUEL CELL/ELECTROLYSER The present disclosure relates to a process for manufacturing an electrode backing layer for a polymer electrolyte membrane fuel cell. The electrode backing layer is manufactured by additive manufacturing technique. The additive manufacturing technique used is selective laser sintering (SLS) process. The electrode backing layer made by additive manufacturing possesses high strength to weight ratio, good conductivity, and good chemical resistance.

No. of Pages : 16 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002009 A

(19) INDIA

(22) Date of filing of Application :15/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : A MACHINE LEARNING TECHNIQUE TO SUPPORT DECISIONS ALONG WITH SELF STUDY OF COVID PATIENTS

(51) International classification	:G06N 20/00	(71)Name of Applicant : 1)Dr. JAGANNATH JADHAV Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ECE, KLECOLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKODI, BELAGAVI591201, KARNATAKA, INDIA. Karnataka India 2)Dr. G. NAGESWARA RAO 3)Dr. J. MUTHUKUMARAN 4)Dr. P. JANARDHAN SAIKUMAR 5)Dr. SYED MUTAHAR AAQIB 6)Dr. RAGHAVENDRA.R. MAGGAVI 7)Dr. SOMASHEKHAR I C 8)Dr. HEMA PATIL 9)Mr. BISWADIP BASU MALLIK 10)Mr. KARKUN M. SUHEL M. UMARBHAI
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. JAGANNATH JADHAV 2)Dr. G. NAGESWARA RAO 3)Dr. J. MUTHUKUMARAN 4)Dr. P. JANARDHAN SAIKUMAR 5)Dr. SYED MUTAHAR AAQIB 6)Dr. RAGHAVENDRA.R. MAGGAVI 7)Dr. SOMASHEKHAR I C 8)Dr. HEMA PATIL 9)Mr. BISWADIP BASU MALLIK 10)Mr. KARKUN M. SUHEL M. UMARBHAI
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A machine learning technique to support decisions along with self-study of COVID, patients aim at implementing techniques to manage the database of COVID recovered patients and run a machine learning algorithm to get a self-decision and suggestion-oriented system to analyze the side effects of COVID recovered patients. This invention will help the medical team to cope up with the new pandemic that is COVID-19.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002013 A

(19) INDIA

(22) Date of filing of Application :15/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : ACCIDENT SURVEILLANCE SYSTEM IN NH4 USING VIDEO ANALYTICS

(51) International classification	:H04N 7/18	(71)Name of Applicant : 1)Dr Rajesh T M Address of Applicant :Assistant Prof Dept. of CSE, Dayananda Sagar University, Hosur main road Near kudlu gate, Bengaluru Karnataka 560114 India Mobile: 9591664668, Email: rajesh-cse@dsu.edu.in Karnataka India
(31) Priority Document No	:NA	2)Dr Shaila S G
(32) Priority Date	:NA	3)Dr Mallanagouda Patil
(33) Name of priority country	:NA	4)Prof. Shivaprasad Ashok Chikop
(86) International Application No	:NA	5)Prof. Nazmin Begum
Filing Date	:NA	6)Prof. Bindu Madavi K P
(87) International Publication No	: NA	7)Prof. Lavanya B Koppal
(61) Patent of Addition to Application Number	:NA	8)Veeranna Kotagi
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)Dr Rajesh T M
Filing Date	:NA	2)Dr Shaila S G
		3)Dr Mallanagouda Patil
		4)Prof. Shivaprasad Ashok Chikop
		5)Prof. Nazmin Begum
		6)Prof. Bindu Madavi K P
		7)Prof. Lavanya B Koppal
		8)Veeranna Kotagi

(57) Abstract :

Nowadays the usage of vehicles in this busy world is tremendously increased. Due to the lack of smooth and safe driving awareness, there is a drastic increase in accidents on national highways. Traffic rules are not strictly followed by everyone, especially by illiterate drivers. So, there are some possibilities for hit and run cases. Hit-and-run cases have become a frequent norm for road accidents. This has to be avoided and we need to identify the real victims who are involved in the crime. In this novel work, we have addressed the problems faced in the forensic crime detection domain mainly the Hit and Run case scenario & also we have introduced some novel solutions to identify the victims using video analytics on NH4 tolls. Installation of CCTV cameras on toll gates helps identification of the victims vehicle. In this novel method, we have a technique to detect and identify a victims vehicle that is involved in a hit and run case. Gaussian mixture analysis is used to detect the object. To recognize the object SURF , SIFT and Classification algorithms are used .

No. of Pages : 11 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002027 A

(19) INDIA

(22) Date of filing of Application :15/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : ANIMAL SURVEILLANCE SYSTEM USING VIDEO ANALYTICS

(51) International classification	:H04N 7/18	(71)Name of Applicant : 1)Dr Rajesh T M Address of Applicant :Assistant Prof Dept. of CSE, Dayananda Sagar University, Hosur main road Near kudlu gate, Bengaluru Karnataka 560114 India Mobile: 9591664668, Email: rajesh-cse@dsu.edu.in Karnataka India
(31) Priority Document No	:NA	2)Dr Shaila S G
(32) Priority Date	:NA	3)Dr Mallanagouda Patil
(33) Name of priority country	:NA	4)Prof. Shivaprasad Ashok Chikop
(86) International Application No	:NA	5)Prof. Bindu Madavi K P
Filing Date	:NA	6)Prof. Nazmin Begum
(87) International Publication No	: NA	7)Prof. Lavanya B Koppal
(61) Patent of Addition to Application Number	:NA	8)Veeranna K
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)Dr Rajesh T M
Filing Date	:NA	2)Dr Shaila S G
		3)Dr Mallanagouda Patil
		4)Prof. Shivaprasad Ashok Chikop
		5)Prof. Bindu Madavi K P
		6)Prof. Nazmin Begum
		7)Prof. Lavanya B Koppal
		8)Veeranna K

(57) Abstract :

One of the key areas focused on by the agriculture, environment and Tourism ministries is the protection of our natural resources. Knowing the count of particular animal species we have and where they are found allows us to effectively manage and benefit the animal species. The main aim here is to sustainably manage wildlife. The ability to involuntarily and accurately gather camera trap image data, also a motion sensor is also present for collecting the movements of wildlife. Although, extracting data from these images remains a costly, sustained, physical task. It™s noticeable that such information can be automatically extracted by using machine learning. A promising alternative is offered by computer vision, which typically provides a lowcost and non-contact displacement measurement that converts the movement of an object, mostly an attached marker, in the captured images into structural displacement.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002064 A

(19) INDIA

(22) Date of filing of Application :15/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : INTERLOCKING BLOCK FOR RECONFIGURABLE ASSEMBLIES

(51) International classification	:E04B 2/02	(71) Name of Applicant : 1)Prashaant CHANDRAMOHAN
(31) Priority Document No	:NA	Address of Applicant :Pl.no.49, I Street, Krishna Nagar, West
(32) Priority Date	:NA	Tambaram, Chennai Tamil Nadu India
(33) Name of priority country	:NA	2)Abhishek CHANDRAMOHAN
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Prashaant CHANDRAMOHAN
(87) International Publication No	: NA	2)Abhishek CHANDRAMOHAN
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

INTERLOCKING BLOCK FOR RECONFIGURABLE ASSEMBLIES In the present invention, an interlocking block is itself an assembly with storage capacity; as such, plurality of said block are interlocked in succession in all three dimensions, so that a structure of interest is assembled, self-aligned, interlinked or reconfigured in such a way that the blocks in an assembly are self-locked, which does not detach nor fall when the said assembly is rotated or suspended such that the final assembled structure resists external impacts.

No. of Pages : 34 No. of Claims : 10

(54) Title of the invention : DEEP LEARNING BASED ROBOTIC JUDGE FOR RASH DRIVING CRIME

<p>(51) International classification :G06N3/04</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Sandeep Kumar (Professor and Dean R&D) Address of Applicant :Department of ECE, Sreyas Institute of Engineering and Technology, Hyderabad-500068, India. E-mail: er.sandeepsahratia@gmail.com Telangana India</p> <p>2)Dr. Arpit Jain (Associate Professor)</p> <p>3)Dr. Rohit Raja (Associate Professor & HOD)</p> <p>4)Prof. Shilpa Rani (Assistant Professor)</p> <p>5)Dr. Mandeep Kumar (Assistant Professor)</p> <p>6)Dr. Kantipudi MVV Prasad (Associate Professor)</p> <p>7)Dr. Sanjay Kumar (Assistant Professor)</p> <p>8)Professor Rakesh Kumar Dwivedi (Director)</p> <p>9)Mrs. Puja Kumari (Assistant Professor)</p> <p>10)Dr. Vivek Sharma (Assistant Professor)</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Sandeep Kumar (Professor and Dean R&D)</p> <p>2)Dr. Arpit Jain (Associate Professor)</p> <p>3)Dr. Rohit Raja (Associate Professor & HOD)</p> <p>4)Prof. Shilpa Rani (Assistant Professor)</p> <p>5)Dr. Mandeep Kumar (Assistant Professor)</p> <p>6)Dr. Kantipudi MVV Prasad (Associate Professor)</p> <p>7)Dr. Sanjay Kumar (Assistant Professor)</p> <p>8)Professor Rakesh Kumar Dwivedi (Director)</p> <p>9)Mrs. Puja Kumari (Assistant Professor)</p> <p>10)Dr. Vivek Sharma (Assistant Professor)</p>
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(57) Abstract :

ABSTRACT Our Invention deep learning based robotic judge for rash driving crime • is an artificial intelligence based systems and method for determination of traffic violations and the provides systems and methods that use deep convolutional neural networks and machine vision based algorithms to perform a task of detection and recognition to provide complete solution to safe, legal and comfortable parking, driving and riding for commuters on the roadways. The invented technology is also including a roadway stewardship systems Parking management systems when made on-demand and crowdsourced can play a very strong role in regulating driving conditions in cities and highways. By allowing the on-demand, crowdsourced, roadway stewardship system to be automated, through the use of Artificial Intelligence (AI) sub-systems, users can be trained to recognize and be educated as well in the laws & regulations around the use of roadways. The invention deep learning based robotic judge for rash driving crime is a can help the process through an interactive console/game-play, which can also be used for monetization for individuals to earn money for their contribution and the AI assisted with Human Intelligence (HI) together called HAI in particular, can play a valuable role in reducing traffic density, traffic movement restrictions and fuel and time waste in large cities. The invention is to an also proper driving on the roads can lead to faster and safer commute and in addition multiple other objects of interest can also be identified and trained to be recognized using the Stewardship System disclosed herein. The traffic safety system includes a comprehensive control server with a mass storage unit, a main data collector with a main data collection mass storage unit, and a sub data collector with a sub-data storage unit also included are vehicle embedded sensors and embedded sensors disposed in various infrastructure components such as roadways, traffic lights street lamps, and the like. The invention technology also includes a the All sensors are in network communication with the control server, main and sub data collectors and the control server, main and sub data collectors are all in operable communication with each other via the same network communications infrastructure. This networked system monitors and controls vehicle activity on roads equipped with the embedded sensors and the system generates alerts, which are sent to drivers warning them of laws, which are applicable to the controlled roadways. Without human intervention, the control system autonomously enforces road activity that is compliant with the applicable roadway laws.

No. of Pages : 29 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002123 A

(19) INDIA

(22) Date of filing of Application :16/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : EFFORT FORECASTING SYSTEM IN IT SERVICE MANAGEMENT USING DECISION TREE

(51) International classification	:G06Q 10/06	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Dr. Sharon Christa I L
(32) Priority Date	:NA	Address of Applicant :Assistant Professor Department of
(33) Name of priority country	:NA	Computer Science and Engineering RV Institute of Technology &
(86) International Application No	:NA	Management, Chaithanya Layout, 8th Phase, J. P. Nagar,
Filing Date	:NA	Bengaluru, Karnataka 560076, India Karnataka India
(87) International Publication No	: NA	2)Dr. Suma V
(61) Patent of Addition to Application Number	:NA	3)Jawahar J
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)Dr. Sharon Christa I L
Filing Date	:NA	2)Dr. Suma V
		3)Jawahar J

(57) Abstract :

According to market research sources, the service management sector will have a minimum growth of 7.76% and the market will be worth US \$ 30.96 Billion by 2020. Services provided to the customers can be optimized and thereby the efficiency of the service management itself by foreseeing the effort required to fill each service request. Advanced machine learning algorithms are developed as a prediction model for forecasting the effort required to resolve an incident and thereby closing the ticket associated with it. The parameters associated with effort are in the time domain. Software maintenance from the service perspective focuses on service management of IT infrastructure, be it hardware or software. ITSM is basically a set of best practices that an IT service provider follows to provide the best and optimized services to the end users and is not specific to any particular organization or industry. The end users of IT services span from the general crowd to other firms from different industries that make use of the services provided by the enterprise. The services span from hardware, hardware-software or software deployed at the customer side by the IT service provider. Any issues related to a deployed IT infrastructure, like failures; both hardware and software, enhancement requests etc.; is an incident if that is not included as a service request. Based on the policies of the service provider, incidents reported by the customers are termed as tickets or incidents itself. A ticket is raised when an incident is reported. The service portal provided to the customers are handled either by a third party assigned by the enterprise or the service provider themselves.

No. of Pages : 25 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002124 A

(19) INDIA

(22) Date of filing of Application :16/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : DISTANCE DETECTION SENSOR IN MASK FOR CHILDREN SAFETY IN COVID-19 ENVIRONMENT

(51) International classification	:B60N 2/28	(71) Name of Applicant : 1)NAZNEEN TAJ
(31) Priority Document No	:NA	Address of Applicant :KNS Institute of Technology,
(32) Priority Date	:NA	Tirumenahalli, Yalahanka, Bengaluru, Karnataka, India, 560064
(33) Name of priority country	:NA	Karnataka India
(86) International Application No	:NA	2)Dr.M. SHAHINA PARVEEN
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)NAZNEEN TAJ
(61) Patent of Addition to Application Number	:NA	2)Dr.M. SHAHINA PARVEEN
Filing Date	:NA	3)Dr.M. SHAHINA PARVEEN
(62) Divisional to Application Number	:NA	4)NAZNEEN TAJ
Filing Date	:NA	

(57) Abstract :

A method of implanting a distance detection sensor which will give beep sound to the wearer when any object or person comes near to it so the kids get alert that they need to maintain safe distance from others. Once the kids get used to the safe distance scenario then they need not to use the device. This is not only useful for the kids but also can be used by old people or careless elders who least bothers about social distancing. Buzzer and sensor can run on a small battery so that it will be compact to use and makes it fit to be used in any accessory. This method is a cost effective, easy to make and implement module for distance detection and alerting. The circuit consists of a small 3.5 v battery, Arduino Uno chip, HC SRO4 sensor and a buzzer. The circuit can be made and implemented in any of our daily wear accessories so we need not to buy an expensive distance detecting wrist band or such devices. As it is compact and easy to install we can make sure it to be aesthetically good by our own creative outer covers.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002127 A

(19) INDIA

(22) Date of filing of Application :17/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : DIS- MICRO-INVERTER: TETRA MODE ELECTRONIC UPS TECHNOLOGY.

(51) International classification	:H02J 3/38	(71)Name of Applicant : 1)Dr. Mortha Sai Veerraju (Professor) Address of Applicant :Department of Electrical and Electronics Engineering, S.R.K.R. Engineering College, Chinna Amiram, Bhimavaram-534204, West Godavari District, Andhra Pradesh, India. Andhra Pradesh India
(31) Priority Document No	:NA	2)Dr. K Muralidhar Goud (Associate Professor EEE)
(32) Priority Date	:NA	3)Prof.(Dr.) S. B. Chordiya (Director-SIMMC-Campus)
(33) Name of priority country	:NA	4)Dr. Vrushsen Purushottam Pawar (Group Director)
(86) International Application No	:NA	5)Miss. Pari Nidhi Singh
Filing Date	:NA	6)Prof. (Dr) Beg Raj (Director)
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. Mortha Sai Veerraju (Professor)
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(62) Divisional to Application Number	:NA	3)Prof.(Dr.) S. B. Chordiya (Director-SIMMC-Campus)
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		6)Prof. (Dr) Beg Raj (Director)

(57) Abstract :

DIS- Micro-Inverter: Tetra Mode Electronic UPS Technology. ABSTRACT Our Invention DIS- Micro-Inverter • is a dual mode direct current-to-alternating current (DC-AC) micro-inverter is capable of operating either with or without connection to an active external AC power source. The invention is also dual mode DC-AC micro-inverter may operate in current control mode • when connection to the active AC power source is present and may operate in voltage control mode • when connection to the active external AC source is absent. The invention is also including processes for operating an array of these micro-inverters are disclosed. The dual mode operation capability enables the micro-inverter(s) to function both in the grid connected mode (i.e., current control mode) as well as off-grid mode (i.e., voltage control mode). The DIS- micro-inverter is configured to sense the presence or absence of grid power and automatically select the appropriate mode of operation and for the voltage control mode of operation a process may include designating a master from the array of micro-inverters in order to establish the voltage and frequency references.

No. of Pages : 26 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002130 A

(19) INDIA

(22) Date of filing of Application :17/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : MATHEMATICAL MODELING OF PARAMETERS OF ELECTRICAL VEHICLES USING MATLAB

(51) International classification	:B60L 58/12	(71)Name of Applicant : 1)Dr. Shivamurthaiah M Address of Applicant :C/O Praveen Kumar K #2009/230, 17th Main 7th Cross, Rangnath Badwane, Davanagere Karnataka India 577005 Karnataka India 2)Dr. Niranjan R Chougala 3)S Manjula 4)Dupadahalli Basavaraja 5)Chetan B V 6)Gururaj E 7)Nagaraj Malagatte 8)Umesh D
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Shivamurthaiah M 2)Dr. Niranjan R Chougala 3)S Manjula 4)Dupadahalli Basavaraja 5)Chetan B V 6)Gururaj E 7)Nagaraj Malagatte 8)Umesh D
(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 :

Huge demand of fuel and increase of cost has raised the usage of electric vehicles. Energy requirement is considerable less for electric vehicles along with its maintenance. This invention focuses on mathematical modeling for prediction of energy requirement of electric vehicles including its energy cycles. The physical parameters and the energy parameters during the operation of electric vehicle such as braking and acceleration are studied by the mathematical model created in this work and then verified. Main focus of this mathematical model is towards the roadTMs rolling resistance, aerodynamic drag and grading resistance on which the vehicle is moving. Power consumption and emissions are determined by the chassis dynamometer in order to perform testing. The simulation is done using MATLAB which is verified experimentally. The proposed invention of mathematical model is useful for evaluating the storage of energy using the chassis dynamometer test representing the efficiency of the electric vehicle.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002133 A

(19) INDIA

(22) Date of filing of Application :17/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : SMART VEHICLE PARKING SYSTEM USING ANDROID APPLICATION

(51) International classification	:G08G	(71)Name of Applicant :
(31) Priority Document No	1/16	1)Dr. VIJI K
(32) Priority Date	:NA	Address of Applicant :Assistant Professor, Department of
(33) Name of priority country	:NA	Electrical and Electronics Engineering, CMR Institute of
(86) International Application No	:NA	Technology, AECS Layout, Bengaluru 560 037, Karnataka, India
Filing Date	:NA	Karnataka India
(87) International Publication No	: NA	2)SUMITHA T L
(61) Patent of Addition to Application Number	:NA	3)RESNA S R
Filing Date	:NA	4)M. RAICHEL RUBY
(62) Divisional to Application Number	:NA	5)SOMESWARI T
Filing Date	:NA	6)SANDHYA RAI
		(72)Name of Inventor :
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		2)SUMITHA T L
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		5)SOMESWARI T
		6)SANDHYA RAI

(57) Abstract :

ABSTRACT SMART VEHICLE PARKING SYSTEM USING ANDROID APPLICATION This invention is a smart vehicle parking system. Multiple parking lots and parking spots may be available at various locations. An android application for identifying and booking of parking systems on a real-time basis is provided. The application is to be loaded on to the phones of the users. The application is configured to disclose parking slots available on a real time basis. The android application is further configured to make payment for the parking slots. Upon payment a pass is issued (e-pass) for enabling parking of the vehicle at the appropriate parking slot. .

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002167 A

(19) INDIA

(22) Date of filing of Application :18/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : CHALLENGE OPERATING SYSTEM

(51) International classification :H04L9/32
(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

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1)Dr. M. NITHYA

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8)Ms. BIRINTHA A

9)Mr. SANKARASUBRAMANIAN V

(57) Abstract :

Abstract Challenge operating system aims to bridge the gap between physically challenged people and the computer, using their face, eyes and hands. Given these gestures, a system can be trained to recognize the patterns and help the physically challenged to control the computer without any difficulty. The user gain access to functionalities controlled by a computing device by using their hand and face. Computing device are configured to permit user to control the device based on gesture and facial movements provided by the user. Operating device may take input in various forms, including hand gestures, eyeball movement and eye wink. Paragraphs, sentences and words are simplified for better understanding for people who suffers from dyslexia and other memory and reading capability problems. The device extracts the data from the screen and process it before displaying to them, this simplification is done by using natural language processing.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002169 A

(19) INDIA

(22) Date of filing of Application :18/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : DEEP TRANSFER LEARNING BASED CROP MONITORING AND YIELD FORECASTING SYSTEM

(51) International classification :G05B19/418
(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

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1)Sarith Divakar M
Address of Applicant :Research Scholar, School of
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2)Dr. Sudheep Elayidom M
3)Dr. Rajesh R
(72)**Name of Inventor :**
1)Sarith Divakar M
2)Dr. Sudheep Elayidom M
3)Dr. Rajesh R

(57) Abstract :

An integrated system and method for vegetation health monitoring module, crop maturity predictor and real-time crop yield forecasting system (ICMYFS) that is crucial for enhanced crop output with less cost. System used labelled remote sensing satellite images collected during growing season at regular intervals for building classification model for vegetation health indicator and crop maturity identification. The system also receives series of images captured periodically by satellites along with historical yield dataset for crop yield forecasting. Deep learning techniques is used to build model from the training data and optimized for providing accurate predictions. Deep transfer learning is used to overcome the limitation of limited labelled training data available. Deployed model is used for real-time monitoring of vegetation health and notification is sent to user at regular intervals. Crop maturity status is identified and alert is sent to user. Yield forecasting is performed in advance and send to user. The system may recommend, course of action based on the predicted output of the respective models for taking further actions during growing season or strategic decisions regarding marketing of the crop. The present invention can be applied for different crops.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002197 A

(19) INDIA

(22) Date of filing of Application :18/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : LOCAL PATTERNS OF GREY LEVEL (LPG) BASED IMAGE FORGERY DETECTION

(51) International classification :G05B19/0425
(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

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2)Dr.Poonkuntran S,Professor,CSE
(72)Name of Inventor :
1)Arun Anoop M,Asst.Professor- CSE
2)Dr.Poonkuntran S,Professor,CSE

(57) Abstract :

The present invention provides a method and system for detecting the forgery and fraudulent performed in the images and more specifically to medical images. The invention utilizes the local patterns of grey level (LPG) architecture which utilizes the local binary patterns (LBP) and grey level co-occurrence matrix (GLCM) based feature extraction. Further, a feature determination strategy of BAT calculation is executed through the extreme learning machine (ELM). The invention then removes the features from unique and manufactured pictures utilizing LPG based chaining class, banding & sub-banding process. The isolated and separated features thus obtained are isolated for testing and training sets. The BAT calculation is utilized for the removal, elimination and subsiding the insignificant features.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002211 A

(19) INDIA

(22) Date of filing of Application :18/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : A CATALYST COMPOSITION FOR REDUCING EMISSION AND A PROCESS FOR ITS PREPARATION

(51) International classification	:C10L1/326	(71) Name of Applicant :
(31) Priority Document No	:NA	1)SRM Institute of Science and Technology
(32) Priority Date	:NA	Address of Applicant :Kattankulathur, Chennai-603203, Tamil
(33) Name of priority country	:NA	Nadu, India Tamil Nadu India
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)G. BALAJI
(87) International Publication No	: NA	2)K.Suresh Kumar
(61) Patent of Addition to Application Number	:NA	3)M Cheralathan
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A CATALYST COMPOSITION FOR REDUCING EMISSION AND A PROCESS FOR ITS PREPARATION The present disclosure relates to a catalyst composition and a process for its preparation. The catalyst composition can be used in the preparation of a catalytic convertor for emission reduction. The process of the present disclosure is simple and produces a low cost catalytic converter.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002235 A

(19) INDIA

(22) Date of filing of Application :18/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : EFFECT OF MECHANICAL PROPERTIES ON JUTE FIBER REINFORCED BY E-GLASS FIBER WHEN TREATED TO CHANGE IN ENVIRONMENT

(51) International classification	:D04H1/4382	(71)Name of Applicant :
(31) Priority Document No	:NA	1)T. Pavan kumar Research Scholar / Department of Mechanical Engineering, Jawaharlal Nehru Technological University Hyderabad
(32) Priority Date	:NA	Address of Applicant :Jawaharlal Nehru Technological University, Kukatpally, Hyderabad, Telangana - 500072.
(33) Name of priority country	:NA	Telangana India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)T. Pavan kumar Research Scholar / Department of Mechanical Engineering, Jawaharlal Nehru Technological University Hyderabad
(87) International Publication No	: NA	2)Dr. A. Chennakesava Reddy Prof./ Director of Foreign Relations Jawaharlal Nehru Technological University Hyderabad
(61) Patent of Addition to Application Number	:NA	3)Y. Renuka Assistant Professor / Department of Mechanical Engineering Malla Reddy Engineering College and Management Sciences
Filing Date	:NA	4)K. Rajashekar PG Scholar/ Mining Engineering National Institute of Technology, Rourkela
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract Fiber reinforced polymer (FRP) composites are used in various atmospheric conditions, tests are under gone for their various stress concentrations when subjected to different atmospheric conditions related to their thermal expansions .The present work aims to study the change in effects when they were subjected to hygrothermal conditioning cycles like change in temperature keeping humidity as constant and change in humidity keeping temperature as constant on Jute/ E-glass composites. Observations on tensile tests, hardness and absorption/desorption were noticed to be dependent on the nature of hygrothermal effects and SEM analysis was conducted on the specimens.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002260 A

(19) INDIA

(22) Date of filing of Application :18/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : SMART MEDICATION SYSTEM FOR REAL-TIME MONITORING OF ELDERLY AND CHRONIC PATIENTS

(51) International classification :A61B5/7275
(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

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(72)Name of Inventor :
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2)Dr. Velmurugan Rajarathinam

(57) Abstract :

Disclosed herein is an IoT based health platform that Integrates Smart Packaging, Unobtrusive Bio-Sensor and Smart Medication Box for Assessment of Adherence to Medication in the Elderly People. A smart medication system for real-time monitoring the elderly and chronic patients, comprises: plurality of bio-sensors for continuous monitoring of the patientTMs physical activities, behaviors, physiological and biochemical parameters; a handheld computing device to collect the sensor parameters and to transmit to a remote device wired or wirelessly for storage and analysis; one or more strain sensors to measure body motion such as respiration, heart sound and BCG information; an IoT enabled smart capsule kit with plurality of sub boxes / compartments to organize different types of pills; a microcontroller with RTC functionality as shown in FIG. 1 to control and process sensor information and to provide real-time alert to the user through alarm systems in the kit.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002284 A

(19) INDIA

(22) Date of filing of Application :18/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : INTELLIGENT RANGE ESTIMATOR AND CRASH DETECTOR FOR ELECTRIC VEHICLES

(51) International classification	:B60R21/0132	(71)Name of Applicant :
(31) Priority Document No	:NA	1)K.Vishnu Vardhan Reddy
(32) Priority Date	:NA	Address of Applicant :Sri Venkateswara College of
(33) Name of priority country	:NA	Engineering, Tirupati Karakambadi Rd, Mangalam, Tirupati,
(86) International Application No	:NA	Andhra Pradesh 517507 Andhra Pradesh India
Filing Date	:NA	2)K .Hemanth Kumar
(87) International Publication No	: NA	3)N .Puneeth Kumar
(61) Patent of Addition to Application Number	:NA	4)Dr. K. Sudheer
Filing Date	:NA	5)P.Suresh
(62) Divisional to Application Number	:NA	6)Dr. D Srinivasulu Reddy
Filing Date	:NA	7)Dr.N.Sudhakar Reddy
		(72)Name of Inventor :
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		3)N .Puneeth Kumar
		4)Dr. K. Sudheer
		5)P.Suresh
		6)Dr. D Srinivasulu Reddy
		7)Dr.N.Sudhakar Reddy

(57) Abstract :

Battery Electric vehicles are future. With the advancement in this vehicle technology booms the launch of new vehicles into the market. But the models at low end prices are failing in the reliability for long distance transit and robust use. The main reason behind it is Range anxiety in the drivers mind, that make them feel like having insufficient charge even with a good amount of charge left. So proper range estimation is needed. A new device which is compact is added onto the vehicle as a solution. In this connected world, with the increase in the risk of accidents, this new compact module will help in detecting crashes and able to transmit a message to the emergency services. The data collected in these processes is further used for analysis along with the alerts generated in case of abnormality. This compact device will be provided with necessary sensors, enough computing power and auxiliary power source that increase reliability. A new algorithm in combination of different sections, each section looking after each mechanism mentioned above is implemented in this compact device. Internet of things (IOT) is implemented to this new module for data transmission. Customized new dashboard is added to the vehicle if existing dash board is not suitable for the need.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002302 A

(19) INDIA

(22) Date of filing of Application :18/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : A NOVEL PROCESS OF FABRICATING DENTURE BASE SPECIMEN HAVING CHARACTERIZED AAROXACRYL CO-MONOMER AND PRODUCTS THEREOF

(51) International classification	:A61M37/0092	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR. R. AJAY
(32) Priority Date	:NA	Address of Applicant :5/36 PANDIAN NAGAR,
(33) Name of priority country	:NA	VADAKKUSALAI, NEIKKARANPATTI NAMAKKAL
(86) International Application No	:NA	TAMIL NADU INDIA 637015 Tamil Nadu India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)DR. R. AJAY
(61) Patent of Addition to Application Number	:NA	2)DR. V.RAKSHAGAN
Filing Date	:NA	3)DR. R.MAHADEVAN
(62) Divisional to Application Number	:NA	4)DR. S.ARULKUMAR
Filing Date	:NA	

(57) Abstract :

APPLICANT: DR. R. AJAY TITLE: A NOVEL PROCESS OF FABRICATING DENTURE BASE SPECIMEN HAVING CHARACTERIZED AAROXACRYL CO-MONOMER AND PRODUCTS THEREOF • ABSTRACT The present invention discloses a process of fabricating denture base specimen with less or negligible polymerization shrinkage, adequate physico-mechanical properties, and biocompatibility made up of characterized novel acrylic copolymer P(MMA-Co-DMTOSU) containing 3,9-dimethylidene-1,5,7,11-tetraoxaspiro[5,5]undecane (DMTOSU) [Aaroxacryl co-monomer]. The process of the present invention comprises of following steps; a) Synthesis of Monomer I (Aaroxacryl co-monomer); b) Preparation of prepolymeric powder; c) Preparation of Monomer II liquid; d) Preparation of P(MMA-Co-DMTOSU) acrylic copolymer containing 3,9-dimethylidene-1,5,7,11-tetraoxaspiro[5,5]undecane (DMTOSU) co-monomer; e) Fabrication of novel P(MMA-Co-DMTOSU) copolymeric denture base specimens.

No. of Pages : 17 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002322 A

(19) INDIA

(22) Date of filing of Application :18/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : EFFICIENT DESIGN OF MECHATRONIC VEHICLE BRAKING SYSTEMS

(51) International classification	:B60R16/037	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Dr. V S Srinivasa Murthy
(32) Priority Date	:NA	Address of Applicant :Professor, Department of Mechanical
(33) Name of priority country	:NA	Engineering, KSRM College of Engineering, Kadapa, Andhra
(86) International Application No	:NA	Pradesh, 516003, India. vssmurthy65@gmail.com Andhra
Filing Date	:NA	Pradesh India
(87) International Publication No	: NA	2)Dr. P Sreenivas
(61) Patent of Addition to Application Number	:NA	3)Mr. K Chandra Sekhar
Filing Date	:NA	4)Mr. S Vijaya Kumar
(62) Divisional to Application Number	:NA	5)Mr. U. Pradeep Kumar
Filing Date	:NA	6)Mr. D Merwin Rajesh
		(72)Name of Inventor :
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		2)Dr. P Sreenivas
		3)Mr. K Chandra Sekhar
		4)Mr. S Vijaya Kumar
		5)Mr. U. Pradeep Kumar
		6)Mr. D Merwin Rajesh

(57) Abstract :

Prosperity and steady nature of current vehicles can be improved by Stopping consequently (ABS by and large), traction control structure, etc. The balance control of the vehicle should be conceivable totally or to some degree by the independent ABS system. The wheel slip is usually kept inside a certain predefined run for a non-freezing halting instrument by using an on-off control framework. In case of single wheel or bicycle model simply consistent common stacking on the wheels is considered, while, for a four-wheel vehicle model interesting normal stacking on the wrangles flat powers are considered for the strong arrangement of easing back component. So, the controller plan needs compromise with the different subsystems of the vehicle components model. The vehicle halting system components and its control for a four-wheel vehicle is appeared here. As the different subsystems of the vehicle live in different imperativeness regions, the interdisciplinary showing technique security chart is used here for showing and control of the system. As the bond diagram gives a deliberate and reformist showing condition, it is a ton of significant for the exhibiting of vehicle dynamic structure. The evaluation of execution of the ABS system under various working conditions is done through bond diagram illustrating. Solidified regenerative and antilock easing back down in electric/cream electric vehicles gives higher prosperity despite imperativeness taking care of capacity. Improvement of control law for such an easing back system is a troublesome task. A sliding mode controller (SMC) for ABS is made to keep up the ideal slip regard. The easing back down of the vehicle, performed by using both regenerative whats more, antilock easing back down, relies upon a computation which picks how to scatter the hindering force between the regenerative easing back down and the antilock easing back down in emergency/alert hindering conditions similarly as in common city driving conditions. It is found that with joined regenerative and antilock easing back down, the vehicles security increases (similar to stopping partition and portability) and some proportion of engine imperativeness can be recovered and taken care of in the regenerative battery pack. The voyager comfort is improved when a sliding mode ABS controller is used rather than standard ABS controller for the mechanical hindering part.

No. of Pages : 10 No. of Claims : 3

(54) Title of the invention : DIABETES MONITORING PATCH FOR VISUALLY IMPAIRED PERSONS USING ARTIFICIAL INTELLIGENCE

<p>(51) International classification :A61B3/11</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. M. MANICKAM Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, SRM Institute of Science and Technology, Kattankulathur,Chengalpattu, Chennai, Tamil Nadu-603203. Ph:9381051032 E-mail: manickam4@gmail.com Tamil Nadu India</p> <p>2)Dr. C. VIJAYAKUMARAN</p> <p>3)Dr. M. BABU</p> <p>4)Dr. M. JEYASELVI</p> <p>5)Dr. S. SUCHITRA</p> <p>6)Dr. A. REVATHI</p> <p>7)Dr. M. SHOBANA</p> <p>8)Mr. P. V. GOPIRAJAN</p> <p>9)Ms. A. MANJU</p> <p>10)Mr. R. SUDHARSANAN</p> <p>(72)Name of Inventor :</p> <p>1)Dr. M. MANICKAM</p> <p>2)Dr. C. VIJAYAKUMARAN</p> <p>3)Dr. M. BABU</p> <p>4)Dr. M. JEYASELVI</p> <p>5)Dr. S. SUCHITRA</p> <p>6)Dr. A. REVATHI</p> <p>7)Dr. M. SHOBANA</p> <p>8)Mr. P. V. GOPIRAJAN</p> <p>9)Ms. A. MANJU</p> <p>10)Mr. R. SUDHARSANAN</p>
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(57) Abstract :

ABSTRACT OF THE INVENTION Diabetes is a chronic disease that occurs when the pancreas is no longer able to make insulin. Insulin is a hormone made by the pancreas, that acts like a key to let glucose from the food we eat pass from the blood stream into the cells in the body to produce energy. Diabetes is a serious condition that causes higher than normal blood sugar levels. There are several tests are used for the diagnosis of diabetes such as fasting plasma glucose test, random plasma glucose test, oral glucose tolerance test and hemoglobin A1c (HbA1c) test. Visiting clinics for doing these tests will leads to number of difficulties especially physically impaired persons. Because they can't stand going to clinics continuously, can't afford visiting a doctor etc. Remote patient monitoring with wearables will reduce wait time to seeing doctor, minimize the number of visits, help to reduce glucose (blood sugar) levels, protect patient kidneys, lower patient blood pressure, perform routine tests and send test results to a doctor in real-time without the necessity of visiting a medical institution. This invention can assist visually impaired persons to monitor diabetes remotely and pain free diabetes monitoring with the use of wearable patch. It is an adhesive patch; it can paste into patient body. Patch composed of glucose sensor, temperature sensor, PPG sensor, Ultrasonic sensor, GPS sensor, PIR sensor and Buzzer. The collected input of Blood glucose level, body temperature, physical activities and position of the patients from sensor are sent to cloud for analysis by using ANN algorithm. Buzzer automatically turns on. Hearing the loud sound of the buzzer the visually impaired person will be able to decide if analyzed result is abnormal or buzzer will make different kind of noises for alerting obstacles. Based on buzzer sound visually impaired persons can get alert condition of abnormal and will take insulin with the help of nearby person detection using PIR sensor. This patch does not require calibration with a blood sample - meaning that finger prick blood tests are unnecessary, due to the design of the array of sensors. Also, this patch will end the frequent use of painful finger-prick blood tests in diabetes patients.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002420 A

(19) INDIA

(22) Date of filing of Application :19/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : IoT BASED MULTI-USER SMART SYSTEM FOR RELIABLE WATER SUPPLY

(51) International classification	:H04W4/80	(71) Name of Applicant :
(31) Priority Document No	:NA	1)Mr.MAHALINGAM COLLEGE OF ENGINEERING
(32) Priority Date	:NA	AND TECHNOLOGY
(33) Name of priority country	:NA	Address of Applicant :NPT-MCET CAMPUS, UDUMALAI
(86) International Application No	:NA	ROAD, POLLACHI, TAMIL NADU, INDIA-642 003. Tamil
Filing Date	:NA	Nadu India
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)A.RATHINAVELU
Filing Date	:NA	2)K.N.VIJEYAKUMAR
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT: Title: IoT based Multi-user smart system for reliable water supply The system comprises of primary controller CI and secondary controller C2. CI consist of an adjustable overload and dry run. over and under voltage protection setting controllers with continuous sensing of sump and borewell motors. Sensors from multiple overhead tanks generate signals for C2 which operates relays to feed user specific power supply through common motor system and generates signal for CI and overhead tank water level indication to the concerned user. CI uses dry sensor at sump to operate sump motor and C2 senses the feedback from CI with a set time delay to ensure operation of sump motor. In case of no feedback from CI. C2 sends voice message to concerned user and get their consensus to switch on the borewell motor. The borewell motor operates in both auto and manual modes. C2 maintains the total run time of motor for a specific user.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141002475 A

(19) INDIA

(22) Date of filing of Application :19/01/2021

(43) Publication Date : 22/01/2021

(54) Title of the invention : MACHINE LEARNING-ENABLED INTELLIGENT TRAFFIC ROUTING USING INTERNET OF THINGS AND GEOGRAPHIC INFORMATION SYSTEM

<p>(51) International classification :H04W4/02</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p> Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p> Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p> Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr .A. BHUVANESWARI Address of Applicant :Assistant Professor (Senior Grade) School of Computer Science and Engineering Vellore Institute of Technology(VIT), Chennai, Kelambakkam - Vandalur Road, Rajan Nagar, Chennai, Tamil Nadu 600127, India Tamil Nadu India</p> <p>2)Dr.R.RADHIKA</p> <p>3)Mrs.G.KALPANA</p> <p>4)Mr.S.PREM KUMAR DEEPAK</p> <p>5)Mr.M. GANESH KARTHIK</p> <p>6)Mr. E. S. PHALGUNA KRISHNA</p> <p>(72)Name of Inventor :</p> <p>1)Dr .A. BHUVANESWARI</p> <p>2)Dr.R.RADHIKA</p> <p>3)Mrs.G.KALPANA</p> <p>4)Mr.S.PREM KUMAR DEEPAK</p> <p>5)Mr.M. GANESH KARTHIK</p> <p>6)Mr. E. S. PHALGUNA KRISHNA</p>
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(57) Abstract :

We are talking about the idea of smart cities at the same time today and how we can use the evolution of the Internet of Things (IoT) to enhance the efficiency of smart transportation. Several Internet of Things attempts have been made to boost the efficiency and effectiveness of public transport. The IoT has managed and regulated many issues, such as automobile traffic congestion, road safety and the inappropriate use of parking spaces for automobiles. This work introduces an intelligent routing based on a distributed cloud architecture of IoT to manage the traffic system combined with a machine learning algorithm to improve the process of finding the optimized route in the minimum time based on the state of traffic on the road. This prototype will help drivers to find the best route and improve the exploitation of the smart transportation in the city.

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

Publication After 18 Months:

The following Patent Applications have been published under Section 11A (3) of The Patents (Amendment) Act, 2005. Any Person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act, 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION (21) Application No.201711037298 A

(19) INDIA

(22) Date of filing of Application :07/11/2017 (43) Publication Date : 22/01/2021

(54) Title of the invention : MULTI-FUNCTION SMART IGNITION LOCK

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71) Name of Applicant : 1)MINDA CORPORATION LIMITED Address of Applicant :D 6-11, Sector 59, Noida, Uttar Pradesh, Pin-201301, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Vikram Puri
(33) Name of priority country	:NA	2)Deepak Goswami
(86) International Application No	:NA	3)Bhanu Seth
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses a multi-function smart ignition lock for vehicles. The said ignition lock comprises a knob (1) being rotatable about a longitudinal axis YY between a plurality of switching positions. The knob is configured to be movable along axis YY in a downward direction at a pre-determined position. A rotor (2) is rotatably coupled with the knob (1) and is configured to operate a lock bar (12) to selectively lock/unlock a handle bar of the vehicle. An actuator sub assembly having at least one micro-switch (8) a control unit and a solenoid (3). The solenoid (3) is configured to drive a lever (3A). The lever (3A) is engageable with the rotor to selectively restrict the rotation of the rotor (2). A rotary actuator (14) is selectively engageable with the rotor (2). The rotary actuator (14) is configured to operate one or more peripheral locks of the vehicle.

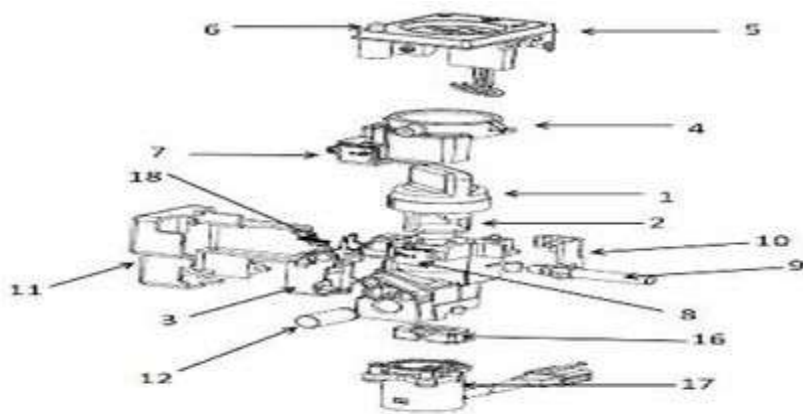


FIGURE 2

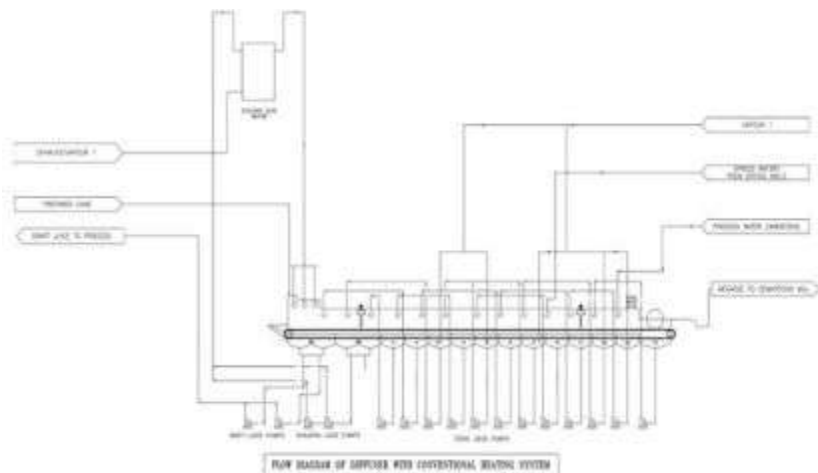
No. of Pages : 15 No. of Claims : 0

(54) Title of the invention : PROCESS FOR JUICE EXTRACTION IN DIFFUSER STATION

(51) International classification	:B32B0037100000, B27N0003240000, C02F0001060000, B29C0039000000, A23N0001020000	(71) Name of Applicant : 1)ISGEC HEAVY ENGINEERING LIMITED Address of Applicant :A4, Sector-24, Noida, Uttar Pradesh-201301 (India) Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)AWASTHI, Sanjay
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a process for juice extraction in a diffuser station from a bed of shredded sugarcane on a perforated conveyer. The process includes a press heating stage, a stage heating and a scalding stage. The process involves utilizing direct contact juice heaters which operates at low approach temperature and hence low pressure vapours (V3, V4) effects from evaporator can be utilized for scalding, press and stage juice heating. The process is cost effective since the process is based on low pressure and low temperature vapour.



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

(54) Title of the invention : PHARMACEUTICAL DESIGN AND DEVELOPMENT OF A UNANI MUCOADHESIVE VAGINAL TABLET

(51) International classification	:A61K 9/20 A61K 9/00 A61K 36/81	(71) Name of Applicant : 1)Dr. Anju Address of Applicant :WZ 458/B, BASAI DARAPUR, NEAR TANWAR CHUPAL, NEW DELHI-110015 Delhi India 2)Dr. Md. Idris
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Dr. Anju
(32) Priority Date	:NA	2)Dr. Md. Idris
(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 most common gynecological ailment is pelvic inflammatory disease (PID) in more than 50% of reproductive age women. In almost all classical and current Unani literature, various Unani Drug Dosage Forms (UDDFs) have been mentioned for the treatment of PID and they have found various disadvantages. Thus, a new dosage form was designed to overcome disadvantages of existing Unani dosage form. The ingredients of Unani Mucoadhesive Vaginal Tablet (UMVT) were Tukhm-e-Khatmi (*Althaea officinalis*), Tukhm-e-Kanocha (*Phyllanthus maderaspatensis*), Tukhm-e-Katan (*Linum usitassimum*), Tukhm-e-Hulba (*Trigonella foenum-graecum*), Tukhm-e-Makoy (*Solanum nigrum*), Asaphgol (*Plantago ovatd*) and Murdarsang (*Plumbi monoxidum*). The UMVT was prepared by wet granulation method and evaluated for organoleptic characteristics and other physico-chemical properties, such as weight variation, thickness or diameter, friability, pH of 1% and 10% solutions, hardness disintegration time, dissolution time. The weight determined as per Indian Pharmacopoeia (IP) 2007 was 1.0 gram. The UMVT had thickness of 0.4 cm and optimum compactness was found. The mean value of friability test of version-9.0 was 0.0023 ± 0.0003 . The mean value of pH 1% & pH 10% of UMVT were 5.67 ± 0.15 and 5.77 ± 0.15 , respectively. The mean value of hardness test and disintegration time test of UMVT were 1.73 ± 0.3 and 0.027 ± 0.0058 , respectively. The highest Swelling Index of UMVT was found having sodium alginate and chitosan. In vitro mucoadhesive test on UMVT showed the highest mucin binding.

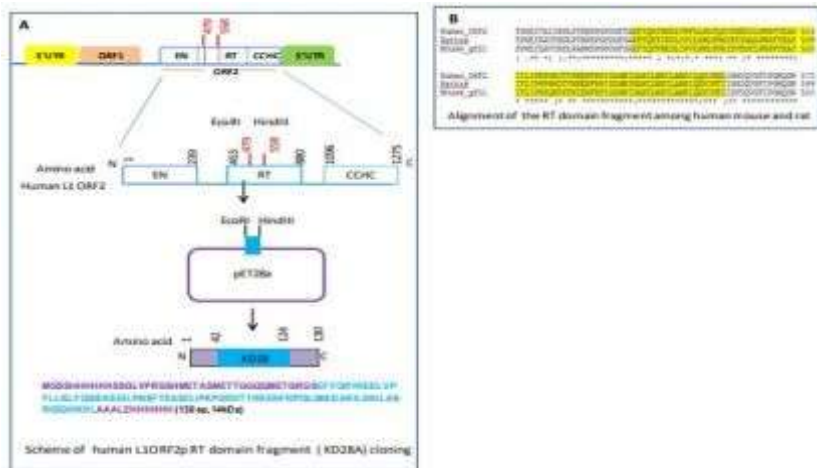
No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : POLYCLONAL HUMAN LINE-1 ORF2P ANTIBODY AND METHOD THEREOF

(51) International classification	:C07K0016300000, C07K0016280000, G01N0033574000, A61K0031706800, A61K0039395000	(71)Name of Applicant : 1)Indian Institute of Technology Roorkee Address of Applicant :Indian Institute of Technology Roorkee, Roorkee, Uttarakhand - 247667, India Uttarakhand India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Prabhat Kumar Mandal
(33) Name of priority country	:NA	2)Koel Mukherjee
(86) International Application No	:NA	3)Debpali Sur
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the field of antibodies as a cancer biomarker. The Invention, in particular, provides anti LINE-1ORF2p antibody which can detect LINE-1 (LI) retrotransposon activation in tissues and cells.



No. of Pages : 23 No. of Claims : 11

(54) Title of the invention : SYRG-PV-BES BASED STANDALONE MICROGRID FOR POWER MANAGEMENT

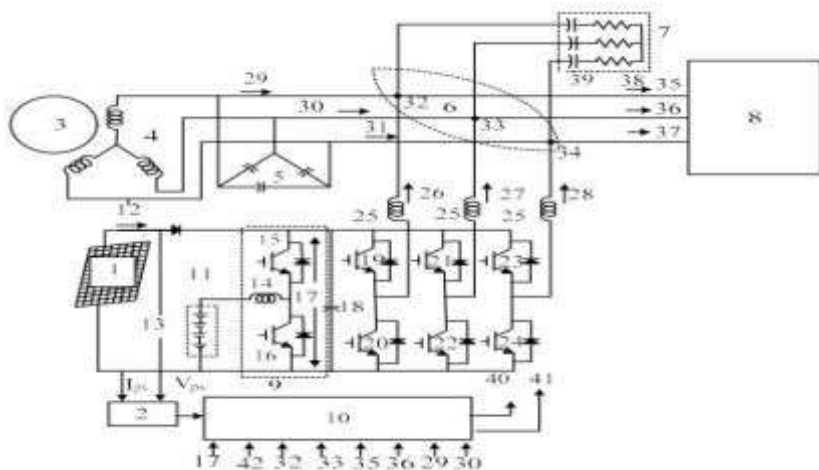
(51) International classification :H02J0003380000,
H02J0003360000,
H02N0002100000,
H02J0003180000,
H02K0001220000

(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 India 110016
Delhi India
(72)Name of Inventor :
1)SINGH, Bhim
2)SHARMA, Rohini
3)SEEMA

(57) Abstract :

A three-phase microgrid comprising solar photovoltaic (PV) (1) and a pico-hydro turbine driven synchronous reluctance generator (SyRG) (4) with a battery energy storage (BES) (11) is disclosed in the present invention. Here, SyRG (4) is used for pico-hydro application (3) as compared to other machines because of high efficiency (no conduction losses in rotor), generates less heat, less maintenance due to lower bearing temperature, rotor synchronicity, granting an accurate speed control (no rotor slip), high torque density, low rotor inertia means fast, torque dynamics and the rotor construction is simple. In order to prevail over the challenges of the prior art, a solution is disclosed in the present invention for three phase voltage source converter (VSC) to provide voltage and frequency control, reactive power distribution and elimination of harmonics of nonlinear load.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911028265 A

(19) INDIA

(22) Date of filing of Application :15/07/2019

(43) Publication Date : 22/01/2021

(54) Title of the invention : INNOVATIVE HELMET LOCK WITH SAREE-GUARD

(51) International classification :A61K0036000000,
C04B0035486000,
A42B0003000000,
A42B0003140000,
B29C0070200000

(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)BHIM SINGH KAUSHIK
Address of Applicant :C-6, RATTAN PARK NANGLOI
DELHI-110041, INDIA Delhi India
(72)Name of Inventor :
1)BHIM SINGH KAUSHIK

(57) Abstract :

India Government (vehicle act) making certain accessories compulsory on every bike sold in India, The humble but mighty practical saree-guard is one of them. Saree-guard is very practical accessories that can prevent a lot of unwanted accidents. 2 wheeler being tasked with multi role tasks like moving cargo and numerous people simultaneously. More so give the fact that females passenger in India largely prefer to sit side saddle the saree-guard can help prevent saree & dupattas from getting tangled in the rear wheel thus keeping accidents at bare minimum and Indian helmets rule is strictly enforced all over country and Helmets lock too should be provided to boost helmets use. This will ensure that users have to worry about their helmets being stolen because of which they sometimes avoid using them. Now In this Innovation we merged these 2 safety features in a single component Means saree-guard attachment also be used to LOCK the HELMET and also to provides the safety to bike rear wheel and Enhance the application of Saree-guard.



← Torsion type spring

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911028272 A

(19) INDIA

(22) Date of filing of Application :15/07/2019

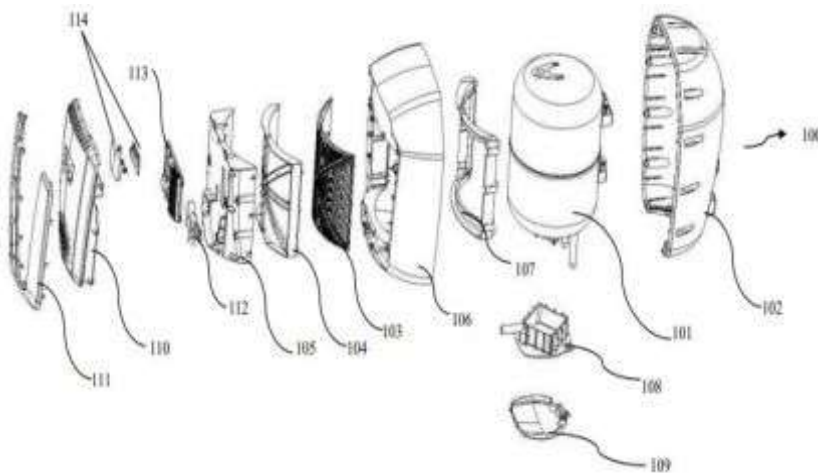
(43) Publication Date : 22/01/2021

(54) Title of the invention : AN INDUCTION COIL WATER HEATER WITH INSULATION COVER

(51) International classification	:F24H0001180000, F24H0009120000, F24H0001200000, F24H0004040000, F25D0021040000	(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)MANEESH KUMAR
(33) Name of priority country	:NA	2)VISHESH KUMAR
(86) International Application No	:NA	3)AMAR MALIK
Filing Date	:NA	4)AMIT KUMAR SRIVASTAVA
(87) International Publication No	: NA	5)SIDDHARTH KUMAR
(61) Patent of Addition to Application Number:	:NA	6)VISWANATHAN SUBRAMANIAN
Filing Date	:NA	7)AMIT KUMAR
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an induction coil water heater 100 which comprises a tank assembly 101, a back cover 102 to cover back side of the tank 101, a single module 207 to provide heat to the tank 101 and simultaneously insulate the tank 101, a front cover sub-assembly 401 to accommodate the single module 207, and a polyurethane foam (PUF) blocker 108 to cut off heat loss from the bottom of the tank 101, covered by bottom service cover 109.



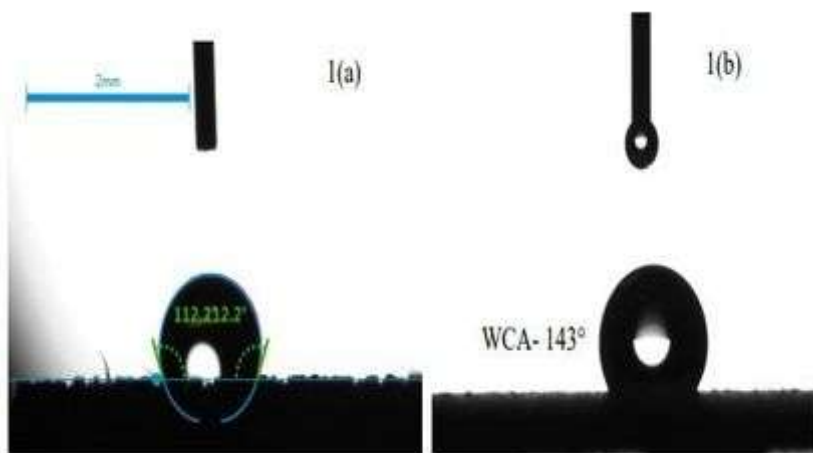
No. of Pages : 26 No. of Claims : 12

(54) Title of the invention : PROCESS FOR PREPARATION OF HYDROPHOBIC AND OLEOPHILIC RETICULATED VITREOUS CARBON (RVC) FOAM

(51) International classification	:C04B0035524000, B01D0017020000, C02F0001680000, C09K0003320000, E02B0015100000	(71)Name of Applicant : 1)Chairman, Defence Research & Development Organisation (DRDO) Address of Applicant :Ministry of Defence, Government of India, Room No. 348, B Wing, Drdo Bhawan, Rajaji Marg, New Delhi- 110011, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Tutiki Umasankar Patro
(33) Name of priority country	:NA	2)Rohit Dnyaneshwar Bagal
(86) International Application No	:NA	3)Devesh Kumar Chouhan
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein is a process for preparation of hydrophobic and oleophilic reticulated vitreous carbon (RVC) foam for efficient oil-water and solvent-water separation having efficient oil/solvent adsorption capacity and being stable, glassy, porous, inert and highly carbonaceous in nature.



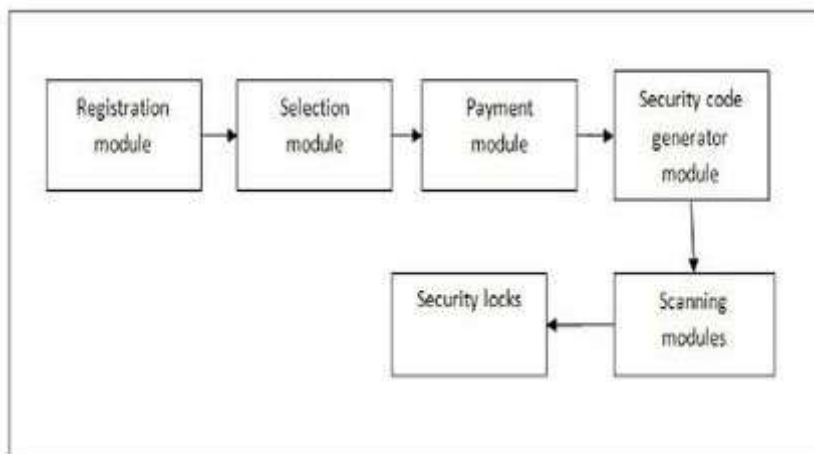
No. of Pages : 28 No. of Claims : 13

(54) Title of the invention : DOOR ACCESS CONTROL SYSTEM

<p>(51) International classification :G07C0009000000, G06Q0020400000, H04N0021810000, G06Q0020320000, F25D0023020000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Sanskriti University Address of Applicant :28 K. M. Stone, Mathura - Delhi Highway, Chhata, Mathura, Uttar Pradesh, India. Uttar Pradesh India</p> <p>(72)Name of Inventor : 1)Manoj Kumar Ojha</p>
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(57) Abstract :

The present invention relates to a door access control system. The system comprises of a registration module for registering a user in the system, a selection module linked with the registration module for providing the facility to the user to select a service, a payment module for making payment for the selected service, a security code generator module for authorizing the user to avail the selected service, scanning modules mounted on the doors for scanning the generated code and security locks attached with the doors and in communication with the scanning module for providing door access control the user.



No. of Pages : 10 No. of Claims : 5

(54) Title of the invention : FALL PROTECTION SYSTEM

(51) International classification :A41D0013018000,
B60R0021017000,
G08B0025010000,
A61N0001020000,
G08B0025100000

(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 :

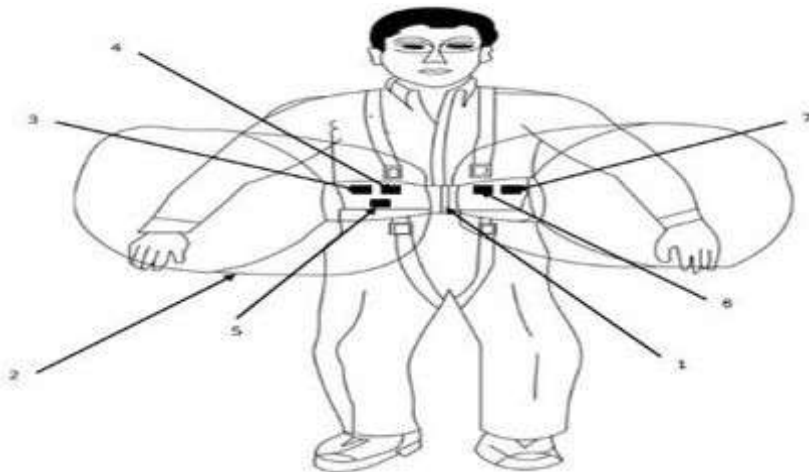
1)Sanskriti UniversityAddress of Applicant :28 K. M. Stone, Mathura - Delhi
Highway, Chhata, Mathura, Uttar Pradesh, India. Uttar Pradesh
India

(72)Name of Inventor :

1)Vinay Anand

(57) Abstract :

The present invention relates to a personal protection system comprising; a wearable support 1 structure associate with an inflatable unit, the inflatable unit further comprising; an outer containment 2, an inner bladder and an inflator, a sensing unit 3 for sensing acceleration of a person, wherein the inflator is inflated upon detection of fall from a predefined height, a control unit 4 for controlling inflation of the system, an indication unit 5 for illuminating the system upon activation, a communication unit 6 for generating emergency signal and a power supply unit 7 for supplying power to the system.



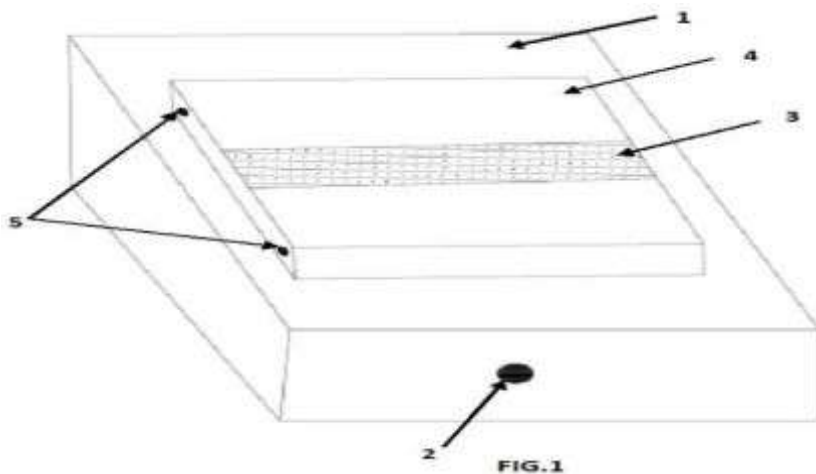
No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : SYSTEM FOR IMAGING BIOLOGICAL MACROMOLECULES

(51) International classification	:G01N0027447000, A61L0002030000, G01F0023240000, A61N0001320000, B01J0019000000	(71) Name of Applicant : 1)Sanskriti University Address of Applicant :28 K. M. Stone, Mathura - Delhi Highway, Chhata, Mathura, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Gopal Arora
(33) Name of priority country	:NA	2)Pankaj Sarawat
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 for enabling real time monitoring and imaging of samples of biological macromolecules, comprising a transilluminator 1 in association with the system for viewing and displaying the image formed by the separation of polymer samples through electrophoresis, a storage tank 4 with at least two electrodes 5 mounted on the transilluminator 1 for storing plurality of biopolymer samples and buffer solution, wherein the electrodes 5 installed in the tank 4 for supplying electric charge to the tank and a power supply unit in association with the system for providing power to the system.



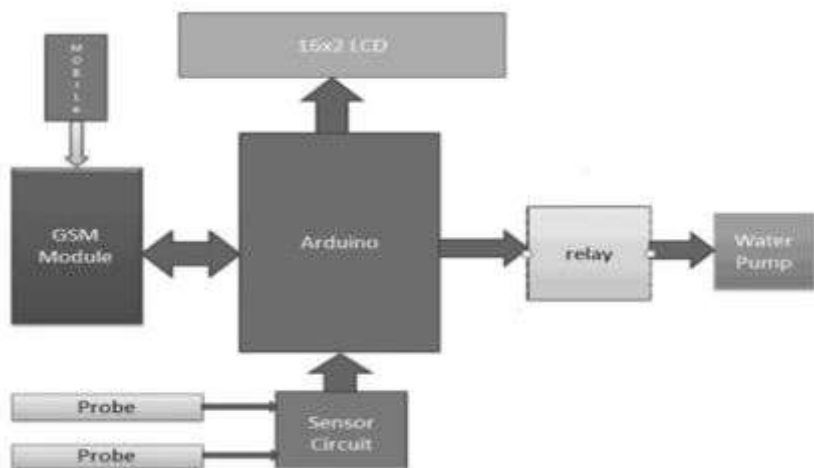
No. of Pages : 12 No. of Claims : 10

(54) Title of the invention : AUTOMATIC IRRIGATION SYSTEM

(51) International classification	:A01G0025160000, A01G0027000000, A01G0025090000, A61B0005110000, G01C0022000000	(71) Name of Applicant : 1)Sanskriti University Address of Applicant :28 K.M. Stone, Mathura - Delhi Highway, Chhata, Mathura, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Rishi Sikka
(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 automatic irrigation system for watering crops, comprising at least one water sensor installed in said system for measuring the amount of water content in soil, at least one microcontroller associated with said sensor for processing the signal received from said sensor, at least one water pump installed in said system for supplying liquid to plurality of crops, at least one relay connected to said microcontroller for automatically switching (ON/OFF) said water pump, a Global System for Mobile (GSM) module associated with said microcontroller for updating a user about the supply of liquid to the crops and at least one liquid crystal display (LCD) coupled to said microcontroller, wherein the display indicates the state (ON/OFF) of the motor.



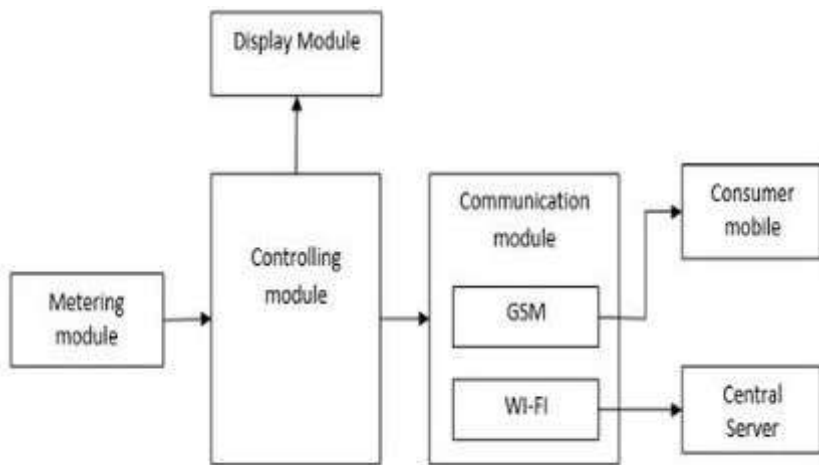
No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : LIQUID FLOW MANAGEMENT SYSTEM

<p>(51) International classification :G01M0003280000, E03D0001140000, F17D0005060000, G01D0004000000, G01F0015000000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1) Sanskriti University Address of Applicant :28 K.M. Stone, Mathura - Delhi Highway, Chhata, Mathura, Uttar Pradesh, India. Uttar Pradesh India</p> <p>(72)Name of Inventor : 1) Vincent Balu</p>
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(57) Abstract :

The present invention relates to a system for ensuring proper utilization of water by monitoring the amount of water flowing through the flow meter. The system comprises of a metering module to detect the flow of water and for generating electrical pulses proportional to the flow of water, a controlling module to count the number of electrical pulses and also to compute the quantity of water flowing in liters, a display module to display the quantity of water flowing through a pipeline; a communication module attached to the controlling module for transmitting the information related to the amount of water consumed to the consumer and storing the same on a central server for automatic bill generation.



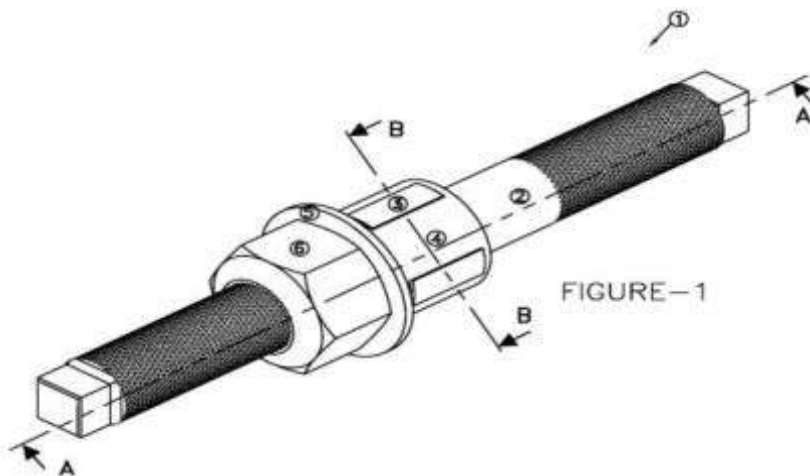
No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : BEARING CLEARANCE MEASUREMENT ASSISTANCE DEVICE

(51) International classification	:G01B0007140000, G01B0005140000, F16C0011040000, G01B0013120000, G01B0011140000	(71) Name of Applicant : 1)Chairman, Defence Research & Development Organisation (DRDO) Address of Applicant :Ministry of Defence, Government of India, Room No. 348, B Wing, DRDO Bhawan, Rajaji Marg, New Delhi - 110011, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Virendra Singh Choudhary
(33) Name of priority country	:NA	2)Kachigere Shankaraiah Nagesh
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 bearing clearance measurement assistance device (1) for measuring sub micron level free play between circular or spherical mating parts like the inner and outer races of a spherical bearing. The bearing clearance measurement assistance device (1) is formed by assembling a tapered pin (2) with multiple inserts (3) housed in a retainer (4). The bearing clearance measurement assistance device (1) uses axial motion of tapered pin (2) with respect to the inserts (3) and the retainer (4) by means of a washer (5) and a nut (6). The bearing clearance measurement assistance device (1) is also configured for tolerating fair degree of non-circularity in any bearing hole, that would otherwise result in assembly clearances. The degree of non-circularity handled by the bearing clearance measurement assistance device (1) is limited by the width of inserts (3) that can be altered for any application.



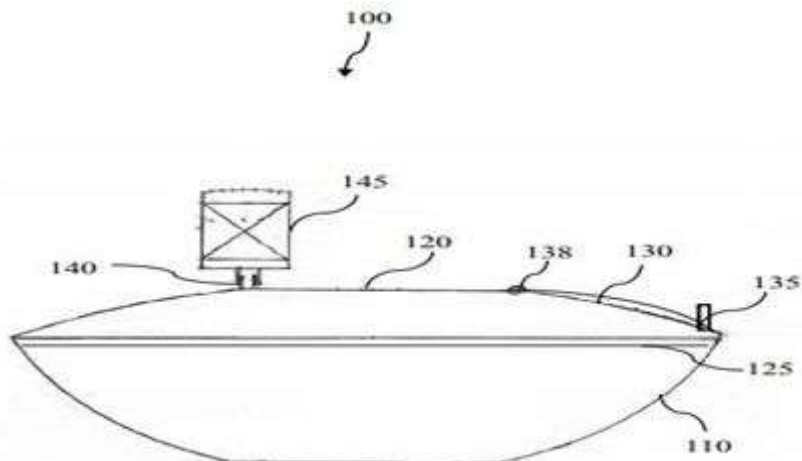
No. of Pages : 24 No. of Claims : 9

(54) Title of the invention : A COOKING APPARATUS AND A METHOD THEREOF

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:A47J0037100000,</p> <p>A47J0036060000,</p> <p>B65D0043020000,</p> <p>A47J0036240000,</p> <p>H01M0010480000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)VIJENDRA ASHTA Address of Applicant :53, Vinayak Apartments, Plot No. C-58/1, Sector 62, NOIDA -201309, Uttar Pradesh Uttar Pradesh India</p> <p>(72)Name of Inventor : 1)VIJENDRA ASHTA</p>
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(57) Abstract :

A cooking apparatus is disclosed. The apparatus includes a cooking pan configured to hold a food substance for cooking. The apparatus also includes a lid positioned on a first surface of the cooking pan. The lid is configured to cover the food substance placed in the cooking pan, wherein the lid includes a first opening and a second opening. The first opening is configured to enable inspection and addition of the food substance in the cooking pan. The second opening includes an activated carbon filter cartridge configured to adsorb and filter fumes produced from one or more ingredients present in the food substance. The second opening is configured to create a channel for evacuation of filtered fumes produced in interval of cooking.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application
No.201911028442 A

(19) INDIA

(22) Date of filing of Application :15/07/2019

(43) Publication Date : 22/01/2021

(54) Title of the invention : ADJUSTABLE LOWER BODY PROTECTION GEAR

(51)

International :A63B0071120000,A41D0013050000,A41D0013015000,F41H0001020000,A41D0013060000
classification

(31) Priority

Document :NA
No

(32) Priority :NA
Date

(33) Name
of priority :NA
country

(86)

International
Application :NA
No :NA

Filing

Date

(87)

International : NA
Publication
No

(61) Patent
of Addition
to

Application :NA
Number :NA

Filing

Date

(62)

Divisional to
Application :NA
Number :NA

Filing

Date

(71)Name of Applicant :

**1)Chairman, Defence Research
And Development Organisation
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Address of Applicant :Ministry Of
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India

(72)Name of Inventor :

1)SINGH, Inderjeet

2)CHAUDHARY, Yashmita

3)RAWAT, Shweta

4)VARTE, Lalhmunlien Robert

(57) Abstract :

An adjustable lower body protection gear (100) is disclosed. The adjustable lower body protection gear (100) includes a first part (102) adapted to cover pelvic region and an upper leg region of a user, and a second part (104) removably coupled with the first part (102) in a partial overlapping manner and adapted to cover lower leg region of the user. The first part (102) includes a protective belt (106), a thigh guard (108), a groin guard (402), and a hip plastic shield (702). The hip plastic shield (702) is embossed and has a variable thickness. The second part (104) includes an upper knee guard (110), a knee guard, a shin guard (114), and a calf guard (116). At least one of the protective belt (106), the thigh guard (108), the groin guard (402), the upper knee guard (110), the knee guard, the shin guard (114), and the calf guard (116) includes a protective plastic shield attached over a foam padding, and protective plastic shields are embossed.



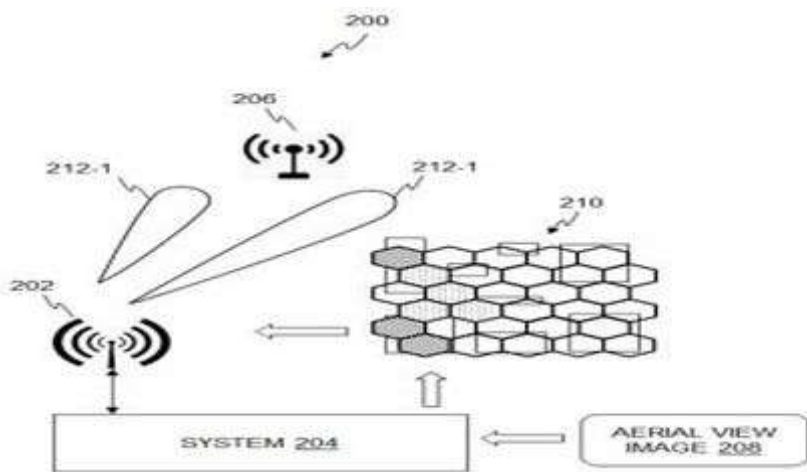
No. of Pages : 29 No. of Claims : 10

(54) Title of the invention : METHOD AND SYSTEM FOR INTELLIGENTLY CONTROLLING BEAMFORMING FOR WIRELESS TRANSMISSION

(51) International classification	:H04B0007060000, G06K0009000000, H04B0007040800, H01Q0001080000, H04B0017210000	(71)Name of Applicant : 1)Samsung Electronics Co., Ltd. Address of Applicant :416 Maetan-Dong, Yeongtong-GU, Suwon-SI, Gyeonggi-do 442-742, Republic of Korea Republic of Korea 2)Delhi Technological University
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)AGRAWAL, Sachin Kumar
(33) Name of priority country	:NA	2)SHARMA, Kapil
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :

Method and system for beamforming in a wireless communication system are disclosed. Such beamforming is intelligently controlled for wireless transmission. In an embodiment, the method includes obtaining at least one aerial view image of a current location of the at least one transmitting antenna; determining an attenuation value for at least one obstruction identified in the at least one aerial view image based on a plurality of obstruction parameters corresponding to the at least one obstruction and one or more predefined attenuation models; categorizing the at least one obstruction based on the attenuation value on the at least one aerial view image overlaid with a plurality of cells; determining one or more density percentage area in the at least one aerial view image having the plurality of attenuation cells based on the categorization of the at least one obstruction; selecting one or more attenuation cells corresponding to the one or more density percentage area from the plurality of cells; and forming at least one beam based on the one or more selected attenuation cells and the categorization of the at least one obstruction.



No. of Pages : 96 No. of Claims : 44

(54) Title of the invention : WIRELESS COMMUNICATION BETWEEN A TOOL AND A CONTROLLER

(51) International classification :E21B0047120000,
G08C0017020000,
B25F0005000000,
H04L0029060000,
B25B0023142000

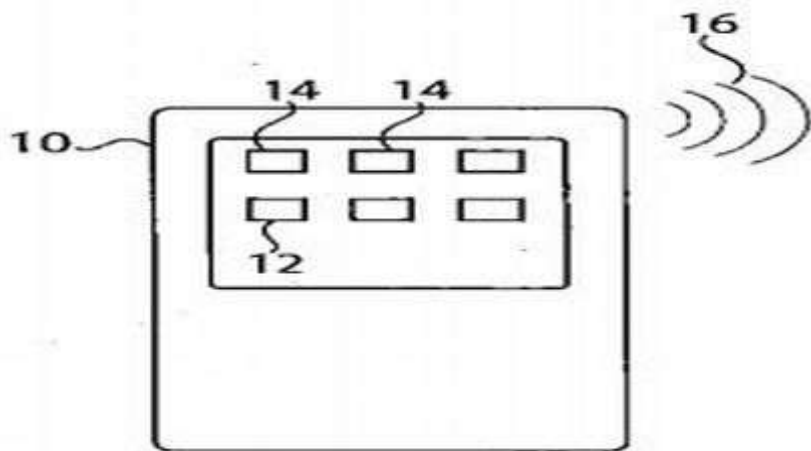
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)INGERSOLL-RAND INDUSTRIAL U.S. INC.
Address of Applicant :800 E BEATY STREET DAVIDSON,
NC 28036 UNITED STATES OF AMERICA U.S.A.

(72)**Name of Inventor :**
1)Christopher J. Taylor
2)Madhusudhana Rao
3)Vijaya Kumar K S
4)Javeed Shariff

(57) Abstract :

A communication method is provided for communicating data between a tool and a controller. The method includes establishing communication between the tool and the controller using a first wireless communication protocol. Once wireless communication has been established, the tool and the controller switch to a new wireless communication protocol that is different from the first protocol. Operational settings are then wirelessly communicated by the controller to the tool using the second protocol.



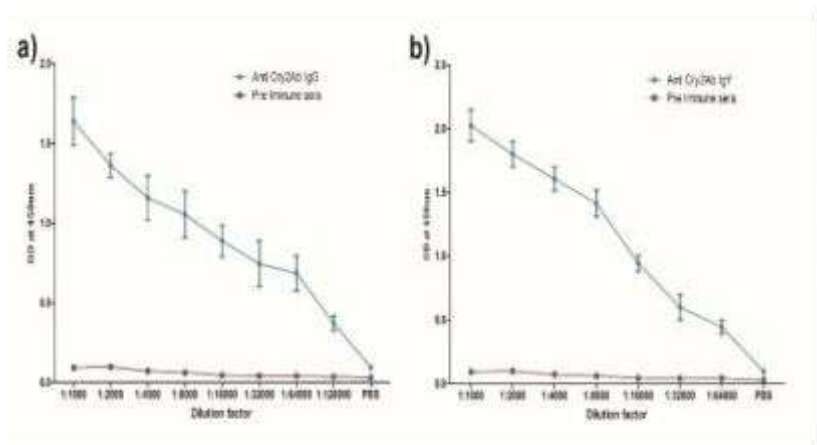
No. of Pages : 20 No. of Claims : 20

(54) Title of the invention : PROCESS FOR DEVELOPMENT OF QUANTUM DOTS-IGY ANTIBODIES HYBRID SYSTEM FOR ONSITE VISUAL DETECTION OF CRY2AB(CRYSTAL INSECTICIDAL PROTEIN) AND APPLICATIONS THERE OF

(51) International classification	:C07K0016020000, G01N0033530000, G01N0033580000, A01H0004000000, A01H0001020000	(71)Name of Applicant : 1)CHAIRMAN, DEFENCE RESEARCH AND DEVELOPMENT ORGNISATION Address of Applicant :Ministry of Defence, Government of India, West Block Viii, Wing I, Sector I, R.K.Puram, New Delhi 110011, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SANKARALINGAM, Kanagasubbulakshmi
(33) Name of priority country	:NA	2)ACHUTH, Jayakrishnan
(86) International Application No	:NA	3)KADIRVELU, Krishna
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a process for developing onsite visual detection platform for insecticidal crystal protein - Cry2Ab by using quantum dots conjugated anti Cry2Ab IgY antibodies by dot blot assay, comprising the steps of: m) generating and characterizing of anti Cry2 Ab IgY antibodies; n) fixing titer values of Cry2Ab IgY antibodies; o) coating a micro plate with different Cry2Ab protein and incubating overnight at 4°C and blocking with defatted milk at 37°C; p) functionalizing target based quantum dots; q) synthesizing CdTe QDs by using a reflux condensation method; and r) developing dot blot assay for visual detection of targeted protein and optimizing the dot blot assay against Cry proteins.



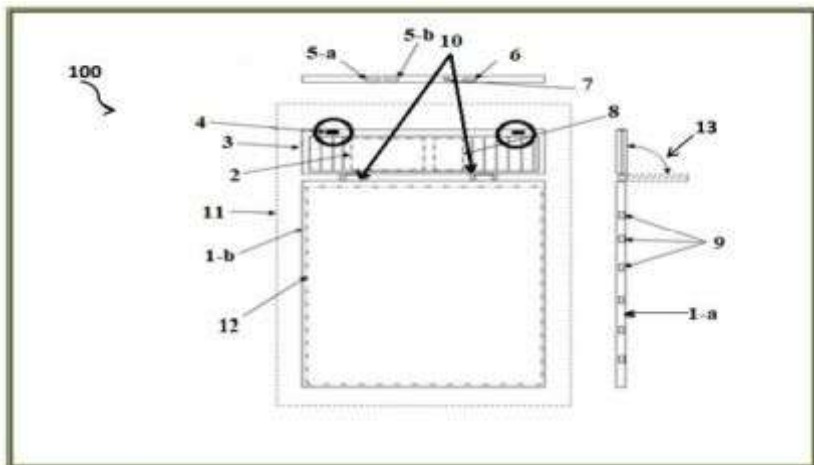
No. of Pages : 27 No. of Claims : 14

(54) Title of the invention : MULTIFACETED ILLUMINATION DEVICE

(51) International classification	:F21V0023040000, H03F0003217000, F21V0033000000, B60Q0001260000, F21S0009030000	(71) Name of Applicant : 1)CHAWLA, Rashmi Address of Applicant :Aster-205, Omaxe Green Valley, Sector-41/42, Surajkhand Road, Faridabad 121001, Haryana, India Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)CHAWLA, Rashmi
(33) Name of priority country	:NA	2)Deepak
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 illuminating device (10, 200, 300) which is adapted to operate in different modes. The different modes are provided to meet the illumination requirement with different light intensity for accomplishing different tasks such as reading, writing, power cut/failure etc. The illuminating device (10, 200, 300) comprises an illumination unit (9, 209, 309) that can be selectively turned ON and intensified as per the requirement. A pivoting member (10, 210, 310) is provided between a body (1-a, 201, 301) and a housing member (3, 203, 303) of the illuminating device (10, 200, 300) which enables manoeuvre the assembly of the illuminating device (10, 200, 300).



No. of Pages : 18 No. of Claims : 12

(54) Title of the invention : METHOD AND SYSTEM OF SOLID BIOMASS AND PELLET COMBUSTION SYSTEM HAVING UTENSIL AND FRYING PAN ATTACHEMENT ALONG WITH WASTE HEAT RECOVERY SYSTEM

(51) International classification :G06Q0010100000,
F23B0050120000,
F23G0007100000,
F23G0005027000,
C10B0053020000

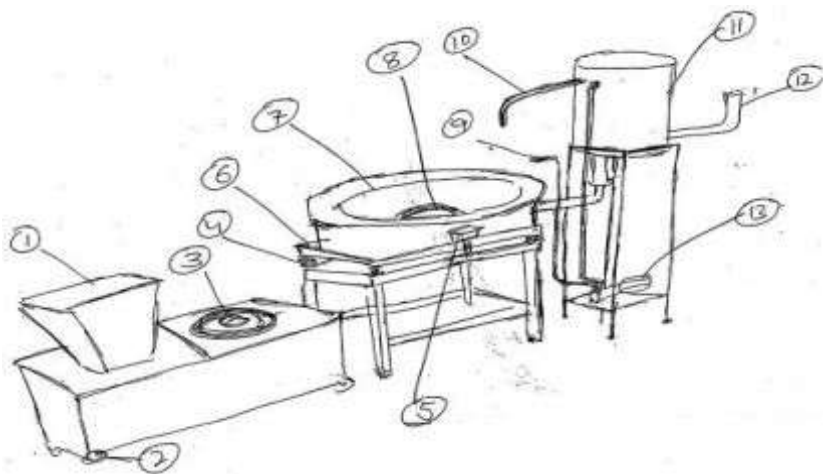
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Address of Applicant :FLAT NO.40-C ANANTA HOMES,
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ZIRAKPUR-140603-DISTRICT MOHALI PUNJAB INDIA
Punjab India
2)NISHANT NIBHORIA

(72)Name of Inventor :
1)RAMESH KUMAR NIBHORIA
2)NISHANT NIBHORIA

(57) Abstract :

An processed biomass (solid biomass /biomass pellets /wood chips) combustion system meant for cooking /frying/heating , which is automatically fed in to combustion chamber to generate heat. Generated heat is dived in to utensils which is placed on specially designed utensil frame having spring mounted lowering and lifting system along with heat recovery cum ash collection system. Ash generated will be collected in to stoves ash pot as well as in cyclone system. System will run automatically with in preset temperature range. It will be used for economical replacement of costly and CO2 emitting petroleum products and uns or charcoal creating local sustainable fuel, circular economy and employment.



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

(54) Title of the invention : FITNESS APPARATUS

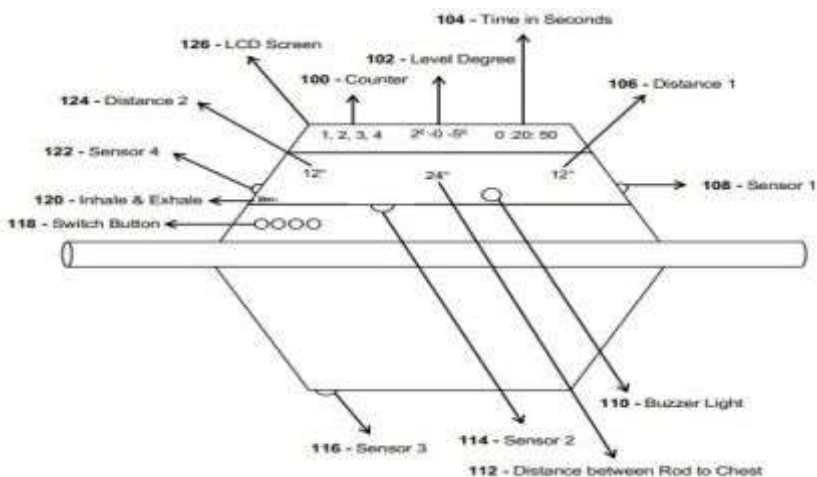
(51) International classification :A63B0021000000,
A63B0023035000,
A63B0024000000,
A63B0071060000,
A63B0021020000

(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)Razaur Rehman
Address of Applicant :143/10 Ravinder Puri Sadar Naya
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(72)**Name of Inventor :**
1)Razaur Rehman

(57) Abstract :

A fitness apparatus for a fitness rod, the fitness apparatus comprising: a central body for mounting the apparatus on the fitness rod; a transmitter installed internally inside the fitness apparatus; a counter for counting a number of exercise sets; multiple sensors to determine multiple parameters; and, a level indicator to display a level to straighten the fitness rod.



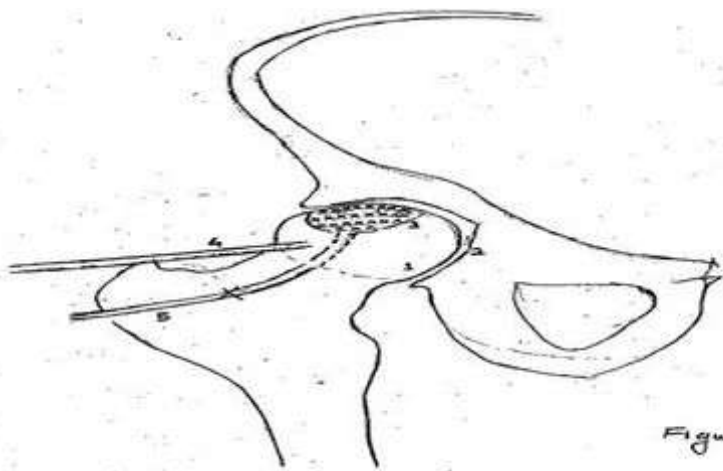
No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : INSTRUMENTATION FOR ARTHROSCOPIC CORE DECOMPRESSION OF FEMORAL HEAD

(51) International classification	:A61F0002280000, A61B0017160000, A61B0017000000, A61F0002300000, A61B0017170000	(71) Name of Applicant : 1)DR. TARUN GOYAL Address of Applicant :FLAT III 2/4, AIIMS, VIRBHADRA MARG, RISHIKESH UTTARAKHAND-249203, INDIA Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DR. TARUN GOYAL
(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 :

This is a novel instrumentation for arthroscopic core-decompression and bone grafting of femoral head for avascular necrosis. The technology allows a novel arthroscopic approach to this, surgical technique, reducing surgical incisions, blood loss and associated morbidity to the patient. Specifically designed guides help to ream the. desired portions of femoral head under guidance of image intensifier. Minimally invasive harvesting of a core of bone from iliac crest is used to fill the void and stimulate healing. in this area. This is expected to prevent collapse of the femoral head and destruction of hip joint in these patients.



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

(54) Title of the invention : INSIDE-OUT INTERFERENCE SCREW FOR FIXATION OF GRAFT IN TIBIAL TUNNEL IN ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION

(51) International classification :A61F0002080000,
A61B0017880000,
A61B0017860000,
B25B0023000000,
A61B0017170000

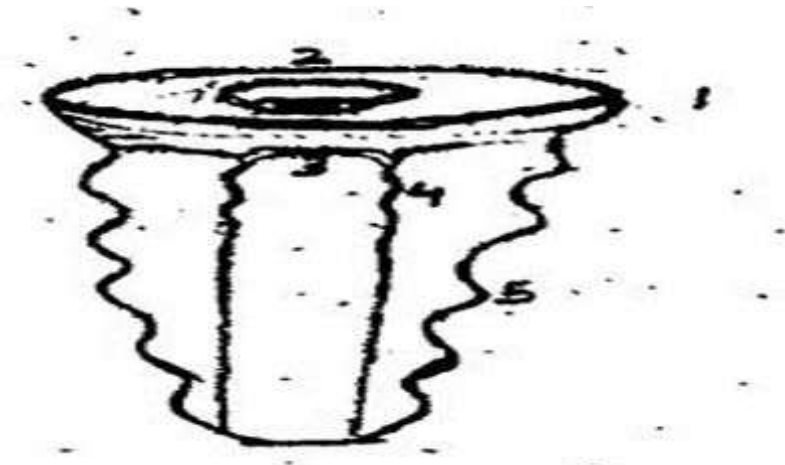
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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MARG, RISHIKESH UTTARAKHAND-249203, INDIA
Uttarakhand India

(72)**Name of Inventor :**
1)DR. TARUN GOYAL

(57) Abstract :

A method and construct for fixation of graft inside tibial tunnel during reconstruction of anterior cruciate ligament is described. The interference screw can be inserted from the intra-articular side into the tibial tunnel. Thus it engages strong sub-chondral bone in this region and provides greater strength of fixation. Also a short length of the tendon graft would be adequate for this technique as the graft is fixed close to the joint. The hollow screw driver can engage a 2.5 mm hexagonal crew driver inside which will help to drive the screw into the bone. Additional flexible screw driver used through the portal will help to keep the screw into position as it erigages.and disengages with the former screw driver.



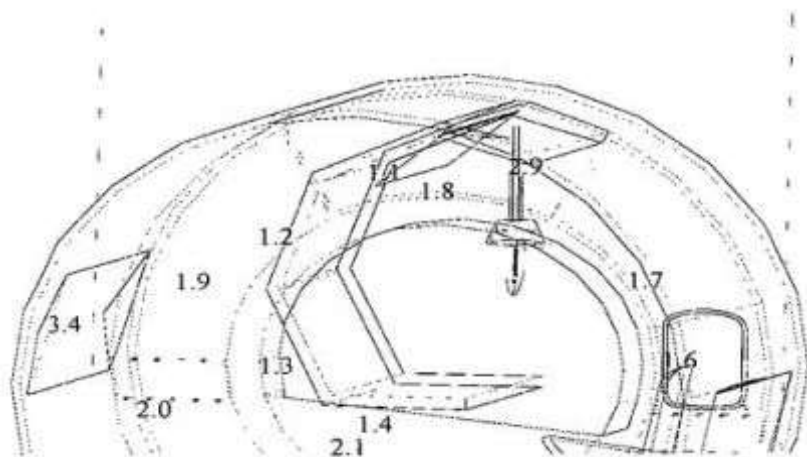
No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : AN INTELLIGENT AIRCRAFT SEATING

(51) International classification	:B64D0011060000, H04M0003523000, H04W0088180000, G06F0017500000, H04M0003510000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125 NOIDA UTTAR PRADESH-201313, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)MAIMUNA RASHID
(33) Name of priority country	:NA	2)BANAFSHA QUADRI RAJPUT
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an intelligent aircraft seating for long distance flights. The current design focus is only on business class seating however the model can be implemented in offices, call centers and others places where a unique experience is to be provided to the user. The design caters to provide extended passenger amenities & luxury during their travel or long working hours.



No. of Pages : 18 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911028782 A

(19) INDIA

(22) Date of filing of Application :17/07/2019

(43) Publication Date : 22/01/2021

(54) Title of the invention : PROCESS FOR THE PREPARATION OF BETRIXABAN AND ITS SALTS

(51) International classification	:C07D0213750000, A61K0031440000, A61K0038550000, A61K0038220000, A61K0038170000	(71) Name of Applicant : 1)Jubilant Generics Limited Address of Applicant :Plot 1A, Sector 16A Noida. Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SINGH, Biswajit
(33) Name of priority country	:NA	2)Jamshad, Danish
(86) International Application No	:NA	3)BISWAS, Bidyut
Filing Date	:NA	4)GUPTA, Ashish kumar
(87) International Publication No	: NA	5)SAINI, Kamaljeet Singh
(61) Patent of Addition to Application Number	:NA	6)GUPTA, Nitin
Filing Date	:NA	7)PANDA, Atulya
(62) Divisional to Application Number	:NA	8)KUMAR, Nirmal
Filing Date	:NA	9)VIR, Dharam

(57) Abstract :

The present invention provides an improved and industrially feasible and cost effective process for the preparation of Betrixaban of Formula VIII and Betrixaban maleate having Formula IX.

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

(54) Title of the invention : SWITCHING-CAPACITOR BASED DIRECT CURRENT (DC) TO DIRECT CURRENT (DC) CONVERTER

(51) International classification :H02M0003070000,
H02J0007340000,
G11C0007060000,
H05B0037020000,
H02M0003157000

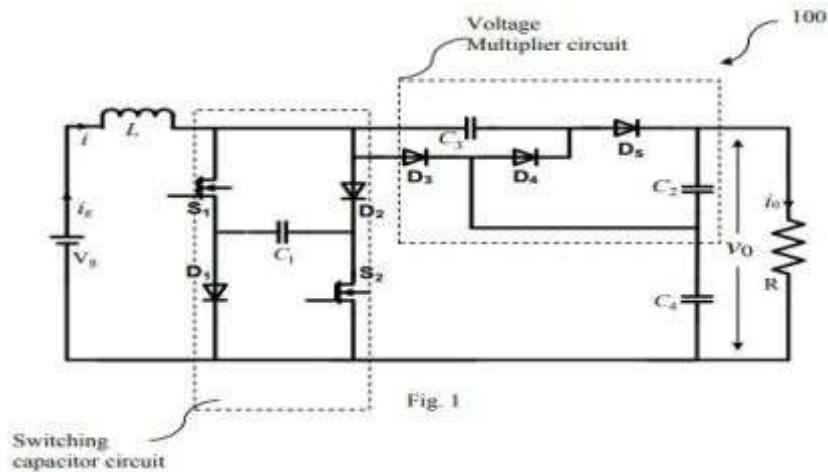
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Address of Applicant :Indian Institute of Technology Delhi,
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(72)Name of Inventor :
1)MUMMADI, Veerachary

(57) Abstract :

The present subject matter refers a switching-capacitor direct current (DC) to direct current (DC) converter. The converter comprises a supply voltage input (V_g) and a switching-capacitor based circuit. The switching capacitor based circuit comprises a capacitor (C_1) connected in a H-bridge configuration to the supply voltage input (V_g). A voltage-multiplier circuit is connected in series with the switching-capacitor based circuit. A first load-side capacitor (C_2) connected at the output of the voltage-multiplier circuit for charging. A second load-side capacitor (C_4) connected to the switching-capacitor based circuit for charging with an opposite-polarity with respect to the first load capacitor (C_2). A boosted voltage-output (V_o), said output (V_o) corresponding to a sum of voltages across the first load side capacitor (C_2) and second load side capacitor (C_4).



No. of Pages : 22 No. of Claims : 10

(54) Title of the invention : A SYSTEM AND A METHOD FOR BALANCING OF RECIPROCATING MACHINES THROUGH ELECTROMAGNETIC ACTUATION

(51) International classification :F02F0007000000,
F16C0009020000,
F01L0001340000,
F16C0033100000,
F16C0017020000

(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)MAHINDRA AND MAHINDRA LIMITED

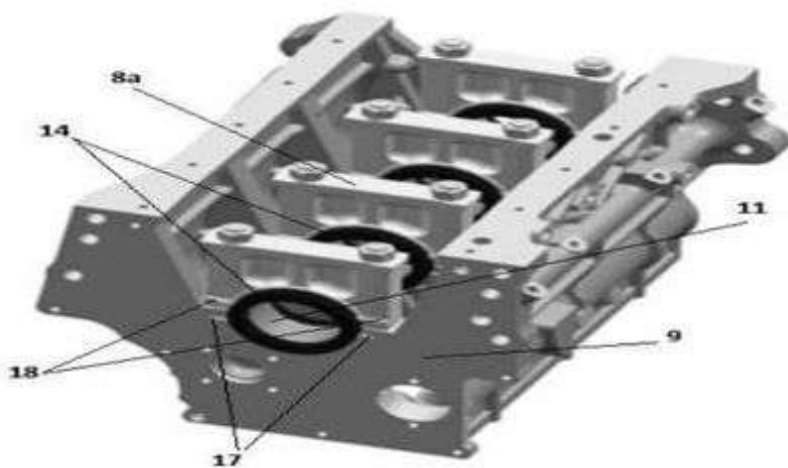
Address of Applicant :Farm Equipment Sector, Swaraj
Division, Phase IV, Industrial Area, S.A.S. Nagar (Mohali)-
160055, Punjab, India Punjab India

(72)Name of Inventor :

1)BASUTKAR, Ritesh Mukesh

(57) Abstract :

The present disclosure relates to the field of balancing of reciprocating machines. The envisaged system comprises crankshaft (7) supported by hydrodynamic bearings (11) having two equal halves. The first half is mounted on the crankcase (9) while the other half is supported by the main bearing cap (8a) wherein the crankcase (9) and the main bearing cap (8a) are configured to accommodate the wire winding (13) in form of inductive coils A and B mounted respectively above and below the crankshaft (7) to generate electromagnetic forces by the coils A and B. A controlling unit (21) is configured to generate the voltage form to create the electromagnetic force through the electrically conductive coil A or coil B. The angular position and the instantaneous angular velocity of crankshaft (7) are sensed and communicated by a crank speed sensor (20) and a cam phase sensor (19) respectively, to the controlling unit (21).



No. of Pages : 35 No. of Claims : 15

(54) Title of the invention : A GEAR ASSEMBLY AND A METHOD OF PROVIDING POWER FLOW IN A POWER TRANSMISSION UNIT

(51) International classification :B60K0006445000,
B25J0017020000,
F16H0057020000,
B60W0010100000,
F16H0055140000

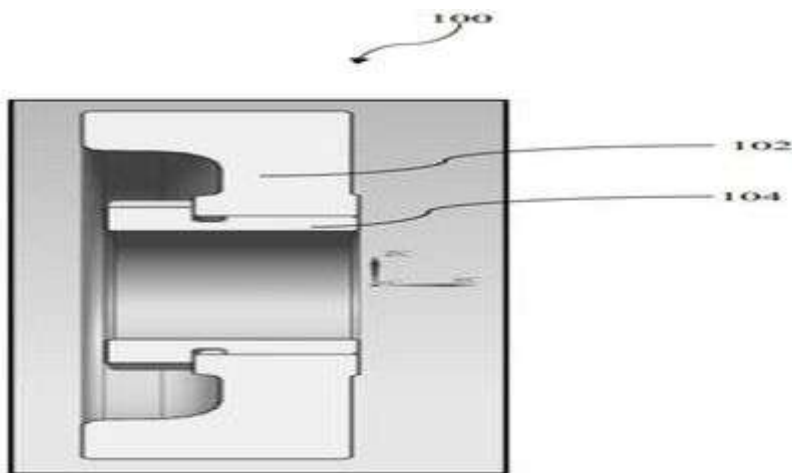
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant :Mahindra & Mahindra Ltd. Farm
Equipment Sector, Swaraj Division, Phase IV, Industrial Area,
S.A.S. Nagar, Mohali Punjab India Punjab India

(72)**Name of Inventor :**
1)RAJAT RAJPAL MAGOTRA
2)NIKHIL MAHAJAN

(57) Abstract :

A gear assembly (100) and a method (200) of providing power flow in a power transmission unit (10).The gear assembly (100) includes a gear (102) and a gear sleeve (104) connected to the gear (102) and is freely mounted onto an output shaft (10S). The gear sleeve (104) is adapted to transmit power from the gear (102) to a movable power transmitting member (10MD) which in turn transmits the power to an output shaft (10S) when the gear sleeve (104) is being engaged by the movable power transmitting member (10MD). The gear assembly (100)is easily manufacturable and compact to be packaged in the power transmission unit (10).



No. of Pages : 24 No. of Claims : 20

(54) Title of the invention : FRONT WHEEL TRANSMISSION TURNING DEVICE FOR A VEHICLE

(51) International classification :F16D0003223000,
F16D0003060000,
F01C0001344000,
B64C0001140000,
F16C0019500000

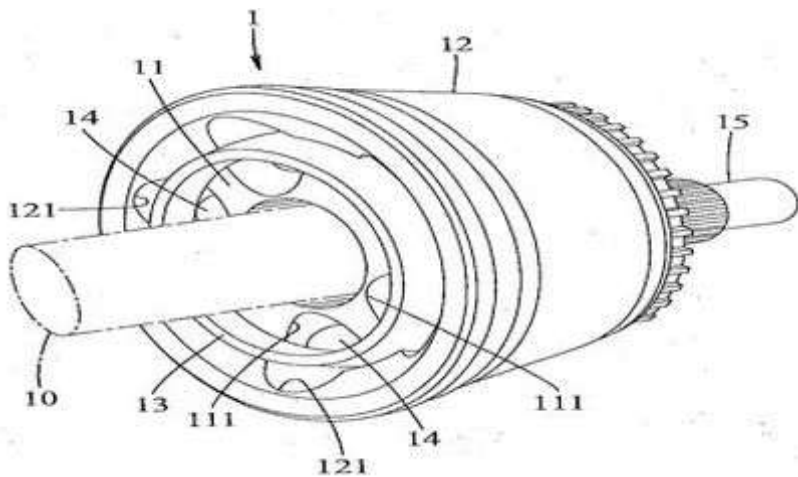
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Feng-Tien CHEN
Address of Applicant :NO.224, ZHONGGONG 2ND RD.,
XITUN DIST., TAICHUNG CITY 407, TAIWAN,

(72)**Name of Inventor :**
1)Feng-Tien CHEN

(57) Abstract :

A front wheel transmission turning device for a vehicle is adapted to be coupled to a transmission shaft and installed at a vehicle wheel, and includes a plurality of balls, an outer annular seat having a plurality of angularly spaced-apart outer grooves, and an inner annular seat having a plurality of angularly spaced-apart inner grooves. A quantity of the balls is not smaller than three, and a quantity of the outer grooves is a multiple of and larger than the quantity of the balls. The balls are equiangularly arranged and each of the balls is removably received between a corresponding one of the outer grooves and a corresponding one of the inner grooves.



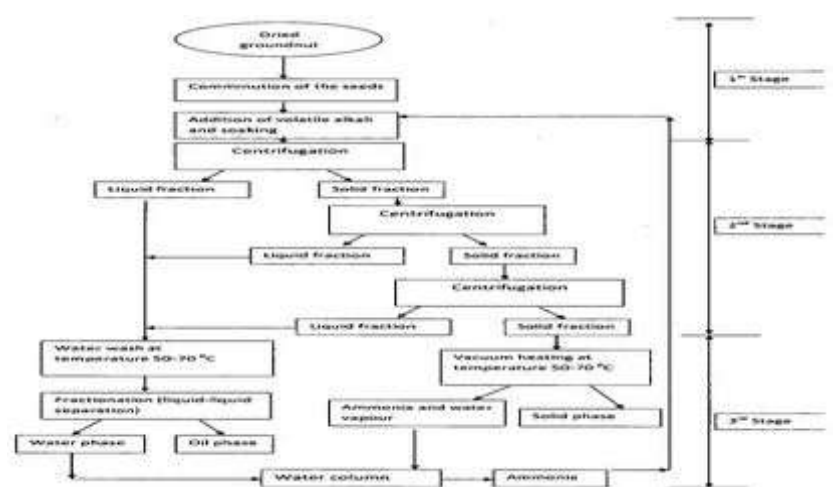
No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : A PROCESS FOR MECHANO-CHEMICAL EXTRACTION OF VEGETABLE OIL

(51) International classification	:A23L0019000000, C11B0013000000, C11B0001060000, C13K0001020000, C11B0001040000	(71)Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Address of Applicant :ANUSANDHAN BHAWAN, 2 RAFI MARG NEW DELHI-110001, INDIA Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)AVADHANAM SESHU KUMAR
(33) Name of priority country	:NA	2)NALLA CHANDRA HSEKAR
(86) International Application No	:NA	3)SARIKA PHANI RAGHU
Filing Date	:NA	4)GADEPALLI SUBRAHMANYAM
(87) 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 :

This invention is about the development of a vegetable oil extraction method using mechano-chemical route; first, the moisture content of the oilseeds is adjusted to the required level through drying process; the dried seeds are subjected to comminution by suitable mechanical means to a desired particle size; further a predetermined percentage of volatile alkali is added and soaked for a predetermined time; this is followed by mechanical fractionating to separate the solid fraction and the liquid fraction; the liquid fraction is water washed to remove the added volatile alkali and the impurities if any; the water washed liquid fraction is subjected to liquid-liquid separation to separate the oil phase and the water phase; the solid fraction is dried using heating at a temperature little over ambient to remove the acquired moisture in the process and the traces of added volatile alkali; the oil phase and the dried solid fraction are the desired products and the water phase can be re-concentrated and reused.



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

(54) Title of the invention : A WOODEN CONE FOR GRIP DIAMETER MEASUREMENT

(51) International classification :G01B0005120000,
G01B0011080000,
C30B0029060000,
A61B0005107000,
G01B0021100000

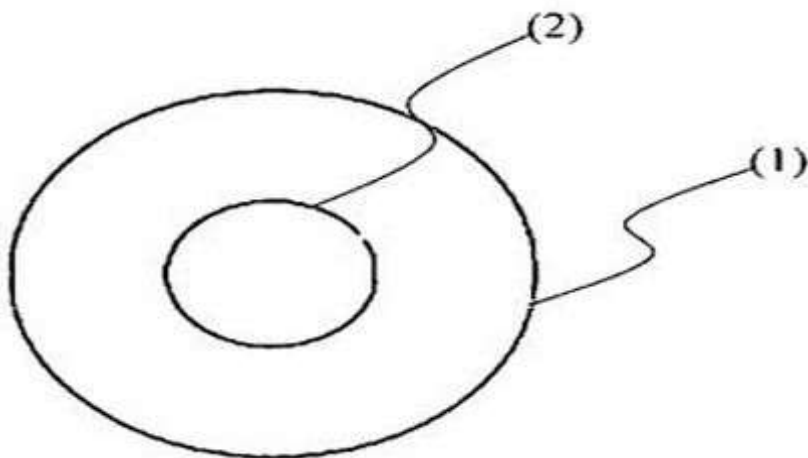
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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2)R.M. BELOKAR
3)SUMAN KANT
4)SANDEEP KUMAR
5)RAJ KUMAR

(72)Name of Inventor :
1)SANDEEP SINGH KHARB
2)R.M. BELOKAR
3)SUMAN KANT
4)SANDEEP KUMAR
5)RAJ KUMAR

(57) Abstract :

The present disclosure relates to a wooden cone for grip diameter measurement (100) for measuring the grip diameter of a person. Further, the present disclosure discloses the construction of the wooden cone for grip diameter measurement (100) for grip measurement of a person. The wooden cone for grip diameter measurement (100) for measuring the grip diameter comprising a first end (1) configured at the bottom of the wooden cone for grip diameter measurement (100), a second end (2) configured at top of the wooden cone for grip diameter measurement (100) to support the wooden cone for grip diameter measurement(100), a plurality of circular grooves (3) configured between said first end (1) and the second end (2) for measuring the grip diameter of a person, the plurality of circular grooves (3) is provided on the periphery of the wooden cone for grip diameter measurement (100) and spaced at equidistant from each other.

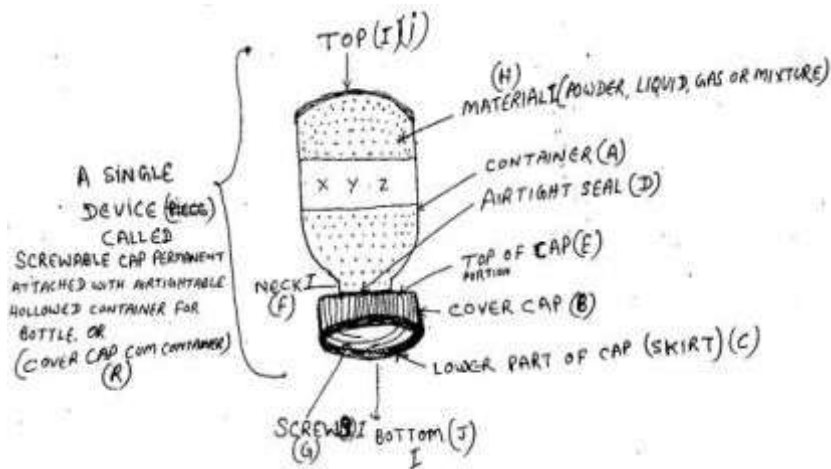


No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : SCREWABLE AIRTIGHT CONTAINER FOR BOTTLE AND METHOD TO BE PERFORMED

(51) International classification	:A61K0008020000, B65D0051160000, H01L0021020000, A61K0008730000, C23C0016260000	(71)Name of Applicant : 1)MANOJ KUMAR Address of Applicant :H.NO.-49, LOTUS VILLA JALPURA VILLAGE, G R. NOIDA WEST UTTAR PRADESH-201306, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)MANOJ KUMAR
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
 SCREWABLE AIRTIGHT CONTAINER FOR THE BOTTLE AND METHOD TO BE PERFORMED THE PRESENT INVENTION IS BEING USED TO SEAL THE BOTTLE (M) AND TO PROTECT THE MATERIAL (N) OF THE BOTTLE (M) AND AT SAME TIME THE PRESENT INVENTION IS CAPABLE TO CONTAIN MATERIAL (H) ITSELF TO POUR INTO THE MATERIAL OF THE BOTTLE(N).



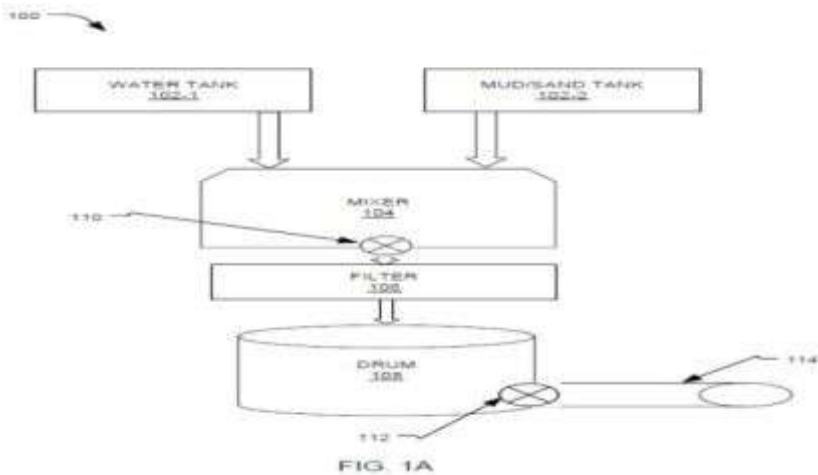
No. of Pages : 25 No. of Claims : 9

(54) Title of the invention : AN EFFICIENT FIRE EXTINGUISHING APPARATUS

(51) International classification	:C02F0001660000, G01F0023296000, G06T0007000000, B67D0001080000, F28D0007020000	(71)Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector -9c, Madhya Marg, Chandigarh- 160009, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)GUPTA, Sheifali
(32) Priority Date	:NA	2)AHUJA, Sachin
(33) Name of priority country	:NA	3)GUPTA, Rupesh
(86) International Application No	:NA	4)SHARMA, Aaishwarika Raj
Filing Date	:NA	5)POONAM
(87) 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 :

According to an aspect the present disclosure provides an efficient fire extinguishing apparatus. The apparatus includes: at least two storage tanks for storage of water and sediment such that the water and the sediment is stored in respective storage tank of the at least two storage tanks; a mixer tank having at least two inlets to receive the stored water and the stored sediment from, the mixer tank is adapted to mix the received water and sediment to form a homogeneous mixture; and an output storage tank having an inlet to receive and store the formed homogeneous mixture, the output storage tank having a first rotary device configured with an outlet of the output storage tank to generate a forced draught of the stored homogeneous mixture, wherein the generated forced draft of the stored homogeneous mixture enables efficient extinguishing of fire, and wherein the homogeneous mixture facilitates efficient extinguish of the fire.



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

(54) Title of the invention : SUSTAINED RELEASE PHARMACEUTICAL COMPOSITION OF GLIMEPIRIDE

(51) International classification :A61K0031640000,
A61K0009200000,
A61K0031519000,
A61K0009140000,
A61K0031545000

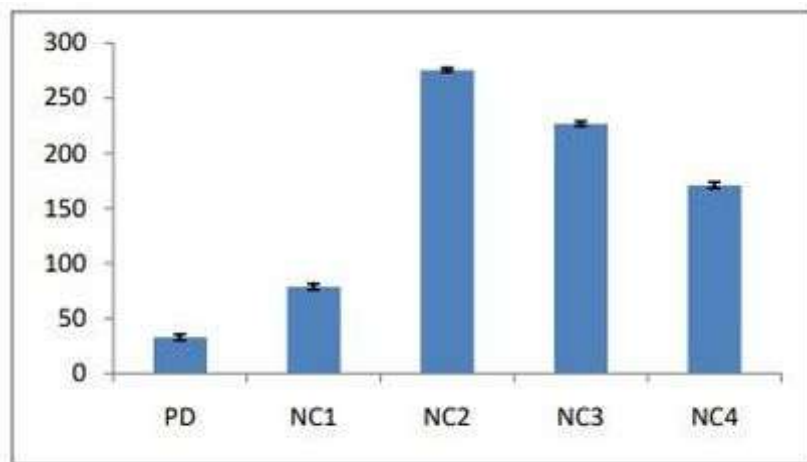
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara Innovation Incubator Foundation
Address of Applicant :SCO: 160-161, Sector -9c, Madhya Marg, Chandigarh- 160009, India. Punjab India

(72)Name of Inventor :
1)NAGPAL, Manju
2)CHAUHAN, Tanu
3)AGGARWAL, Geeta
4)ARORA, Sandeep

(57) Abstract :

The present invention generally relates to a pharmaceutical composition of diabetic drug. Specifically, the present invention relates to a sustained release pharmaceutical composition of glimepiride comprising of nanocomposite of glimepiride in soluplus®. The sustained release composition of the present invention possesses excellent release properties.



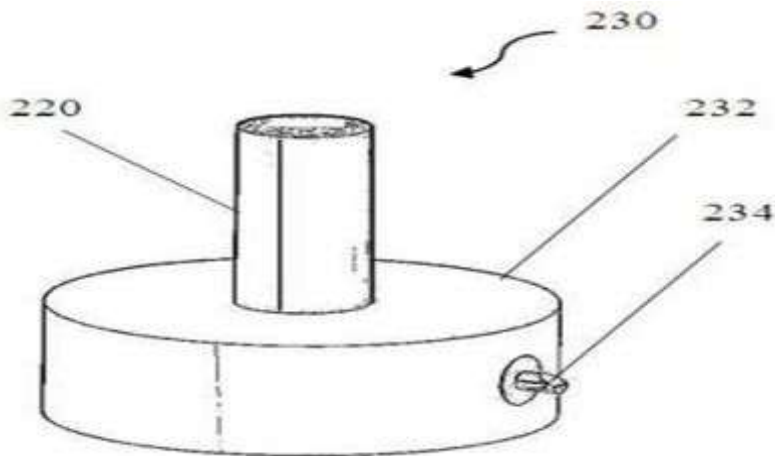
No. of Pages : 26 No. of Claims : 11

(54) Title of the invention : A PROBE FOR DETECTING PRESENCE OF A HIDDEN COMPONENT IN AN ASSEMBLY

(51) International classification	:G06Q0010080000, G01R0001067000, A61M0005280000, H05K0013040000, B65D0051280000	(71) Name of Applicant : 1)MAHINDRA AND MAHINDRA LIMITED Address of Applicant :Farm Equipment Sector, Swaraj Division, Phase IV, Industrial Area, S.A.S. Nagar (Mohali)- 160055, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BALJINDER SINGH
(33) Name of priority country	:NA	2)BANSAL, Saurabh
(86) International Application No	:NA	3)LAKHVIR SINGH
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to the field of tools used in an automotive assembly plant and particularly to tools for detection of a missing component, and envisages a probe for detecting fitment of a component in an assembly. The envisaged probe (230) comprises a plunger (232) and a retracting pin (234). The plunger (232) is configured to be plunged through an opening (13) in the assembly (100) upto the component (20) location. The retracting pin (234) resiliency extends out of the plunger (232). The pin (234) remains retracted in the presence of the component (20), thus allowing removal of the plunger (232), and extends into a cavity (20) in the absence of the component (20), thus preventing removal of the plunger (232). The probe (230) helps eliminate human error in assembly, is user-friendly and does not require use of costly sensors.



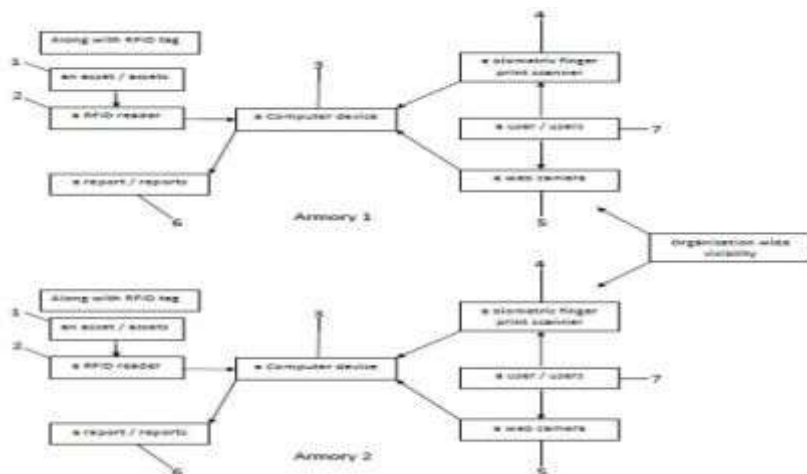
No. of Pages : 22 No. of Claims : 12

(54) Title of the invention : AN ASSET LIFE CYCLE MANAGEMENT SYSTEM

(51) International classification	:G06K0009000000, G07C0009000000, G07F0007100000, G06Q0020400000, G06Q0050280000	(71)Name of Applicant : 1)TARUN BHATNAGAR Address of Applicant :866 NEW DOVER ROAD, EDISON, NEW JERSEY 08820, USA U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor : 1)TARUN BHATNAGAR
(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 asset lifecycle management system. The system comprises of a computer device connected with plurality of wireless communicating terminals for storage, transfer and processing of data; a digital repository of all the assets assigned with a unique digital signature via RFID tag, a digital biometric based repository of all interacting users with a finger print and a visual image; a biometric finger print scanner integrated to scan the identity of the user for verification purpose, wherein the RFID reader is used to search and assign assets (1) to the requesting user(7) from the digital repository and used to track lifecycle steps of the each asset(1) in the repository. The present invention may be used in variety of fields for asset life cycle management and more particularly the present invention is applicable for management of arms, ammunitions and military arsenals.



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

(54) Title of the invention : ANT AND MOSQUITO REPELLENT COMPOSITION AND PROCESS OF PREPARATION THEREOF

(51) International classification :A61K0036282000,
A01N0031040000,
A01N0065280000,
A01N0065240000,
A01N0031080000

(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

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2)Dr. Ashutosh Chauhan

3)Prof. Suresh Chaubey

4)Dr. Naveen Chandra Joshi

5)Dr. Ruchi Badoni Semwal

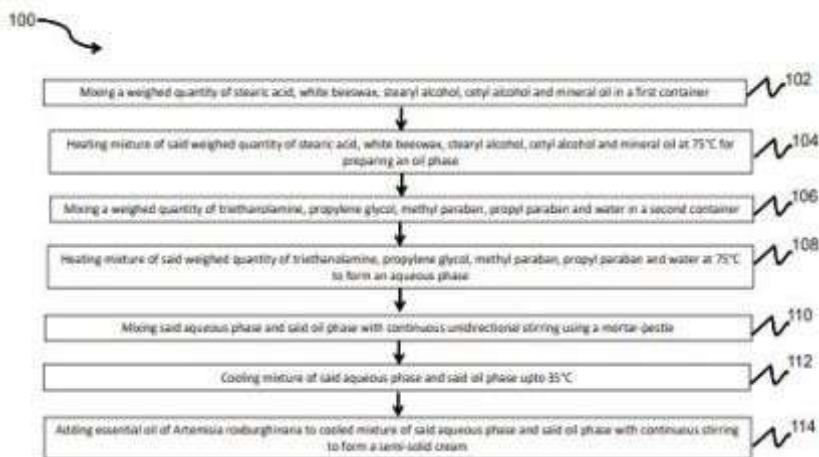
6)Mr. Ankit Kumar

7)Ms. Sonali Aswal

8)Prof. Abhimanyu Kumar

(57) Abstract :

The present invention generally relates to mosquito and ant repellent cream and gel and in particularly relates to method for preparing ant and mosquito repellent compositions using essential oil of *Artemisia roxburghiana* and composition thereof. The essential oil of *Artemisia roxburghiana* contains a-eudesmole (6.52%), trans sabinene hydrate (6.02%), artemisia ketone (5.97%), 1,8 cineole (4.92%), 4-hexen-1-ol,5-methyl-2-(1-methylethenyl acetate) (4.82%), 4-terpineol (4.14%), camphor (3.86%), (3-thujone (3.72%), germacrene-D (3.65%), borneol (3.64%), and a-thujone (3.45%) as major components.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911029085 A

(19) INDIA

(22) Date of filing of Application :19/07/2019

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR AUTOMATED VISUAL PERCEPTUAL ASSESSMENT

(51) International classification	:A61B0003000000, G16H0050200000, G06Q0050220000, H04N0021234700, G01N0030860000	(71) Name of Applicant : 1)Pulkit Dutt Joshi Address of Applicant :B 68, Preet Vihar, Delhi 110092 Delhi India 2)Ruby Aikat 3)Anupam Kumar
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Pulkit Dutt Joshi
(33) Name of priority country	:NA	2)Ruby Aikat
(86) International Application No	:NA	3)Anupam Kumar
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for automated visual perceptual assessment of a patient includes the steps of, providing, via a handheld device, an interface to a user for initiating automated visual perceptual assessment of the patient; obtaining, from the user, a plurality of data sets to be entered into the interface, the plurality of data sets relating to visual perception skills of the patient; assigning a unique registration number to the plurality of data sets; and, assessing a plurality of domains corresponding to the plurality of data sets for determining a severity of a deficit in the visual perceptual skills of the patient.

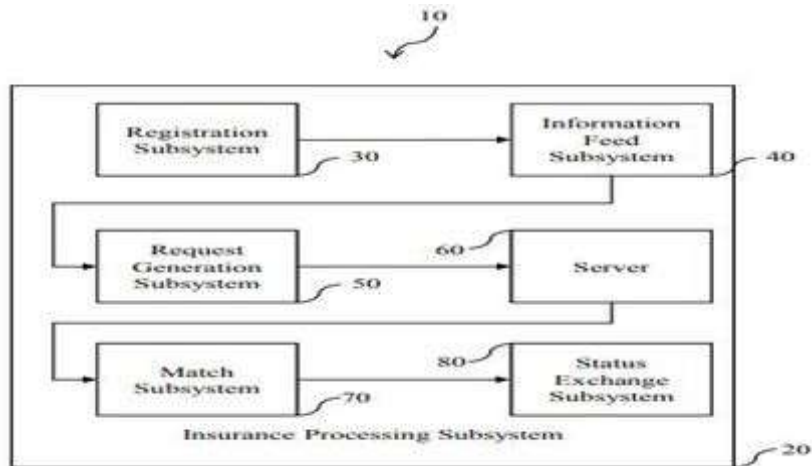
No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : SYSTEM AND METHOD TO EXCHANGE INSURANCE DATA

(51) International classification	:G06Q0040080000, G06Q0040020000, G01N0033280000, A61B0090000000, G06Q0030020000	(71) Name of Applicant : 1)Bhavneesh Malik Address of Applicant :SCO 3&4, SECTOR-1, ROHTAK, HARYANA 124001, INDIA Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Bhavneesh Malik
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system and method to exchange real time insurance data is provided. The system includes an insurance processing subsystem. The insurance processing subsystem includes a registration subsystem configured to register at least one of a first and a second insurer. The insurance processing subsystem also includes an information feed subsystem configured to feed a plurality user details, a request generation subsystem configured to generate at least one request. The insurance processing subsystem also includes a match subsystem configured to receive at least one request. The match subsystem is also configured to match the plurality of user details. The match subsystem is also configured to extract a matched plurality of user details from the second insurer database. The insurance processing subsystem also includes a status exchange subsystem configured to exchange the status of no claim bonus to the first insurer.



No. of Pages : 25 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911029152 A

(19) INDIA

(22) Date of filing of Application :19/07/2019

(43) Publication Date : 22/01/2021

(54) Title of the invention : COSMETIC COMPOSITION COMPRISING A BIS-AMINO SILICONE, A BIS-EPOXY SILICONE AND AT LEAST ONE CONDITIONING AGENT •

(51) International classification	:A61Q0005000000, A61K0008490000, A61K0008350000, A61Q0005060000, A61K0008898000	(71) Name of Applicant : 1)L'OR%AL Address of Applicant :14, Rue Royale, 75008 Paris, France France
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BAJORIA Shaila
(33) Name of priority country	:NA	2)NAG Shubhrajit
(86) International Application No	:NA	3)ROY Dhimoy
Filing Date	:NA	4)TULSYAN Harshada
(87) 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 concerns a cosmetic composition comprising from 0.1 to 5% by weight of one or more bis-amino silicone(s); from 0.1 to 5% by weight of one or more bis-epoxy silicone(s); and one or more conditioning agent(s). The present invention further concerns the use of such a composition for the cosmetic treatment of dyed human keratin fibres and in particular dyed hair, as well a process of treatment of human keratin fibres comprising a step of dyeing of the keratin fibres, followed by a step of application onto the dyed fibres of the composition of the invention

No. of Pages : 78 No. of Claims : 17

(54) Title of the invention : SMART WASTE SEGREGATING SYSTEM

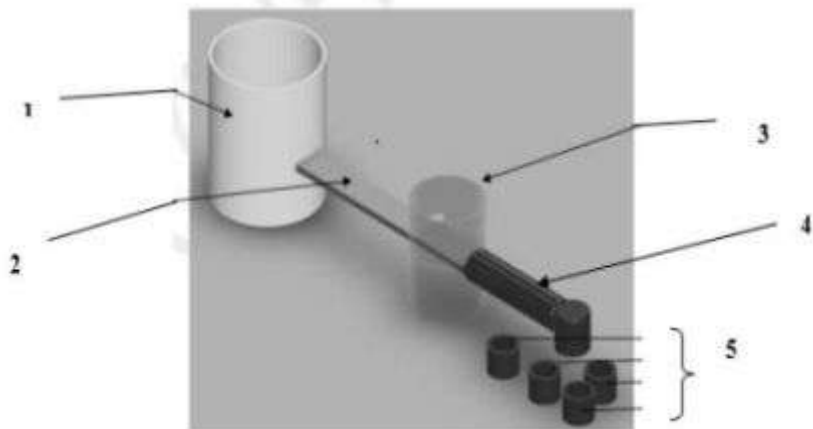
(51) International classification	:G06N0020000000, G06K0009000000, H04L0029080000, H01L0021677000, G03G0021100000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent 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 :National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Nimish Aggarwal
2)Manjit Kaur
3)Advaitaa Badhwar
4)Dilbag Singh

(57) Abstract :

The present invention relates to a smart waste segregating system, comprising a waste collecting unit 1 that temporarily stores the waste, a conveyor belt 2 connected to waste collecting unit 1 which after detecting the contents of the waste by a plurality of sensors and machine learning module transfers the waste to a decision unit 3 to decide the category of waste for sending it to respective container 9 via rotating pipe 4 rotated by a servo motor to direct it to the respective container based on the category of waste, thereby sending the waste further for suitable disposal.



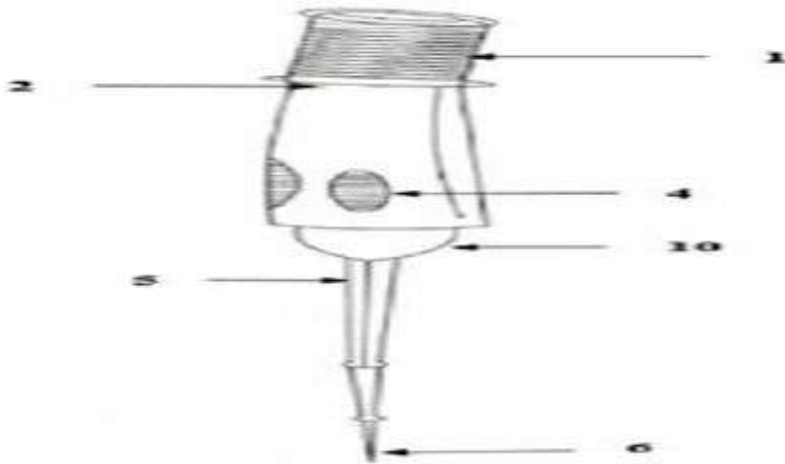
No. of Pages : 12 No. of Claims : 5

(54) Title of the invention : SOLDERING AND DESOLDERING DEVICE

(51) International classification	:B23K0001018000, B23K0003020000, H05K0003340000, B23K0035020000, B23K0003060000	(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Abhinav
(33) Name of priority country	:NA	2)Divya Gaba
(86) International Application No	:NA	3)Mayur Nair
Filing Date	:NA	
(87) 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 soldering and de-soldering device, wherein the device comprises a soldering unit having a solder wire roll 1, a vertical hole 2 present on the soldering iron for pushing the solder wire roll 1, a glass cavity 3 for the solder wire 1 intake, plurality of gear unit 4 for moving the solder wire 1, a metal attachment 5 connected to the device by a sub-unit 10 for melting the solder wire, a ball point tip 6 to drop the melted solder wire at a desired place, and a de-soldering unit having a suction module 11 attached on top of the de-soldering unit using threads for sucking the metal inside the glass cavity, the vertical hole 2 mounted on top of the de-soldering unit for providing a way to intake de-soldered material, and a de-soldering tip 12 tapered at the end of de-soldering unit for melting the unwanted metal.



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

(54) Title of the invention : MULTIPURPOSE WATERPROOF BAG DEVICE

(51) International classification :H04R0001100000,
A45C0013000000,
A45C0009000000,
A63B0057200000,
B62B0009140000

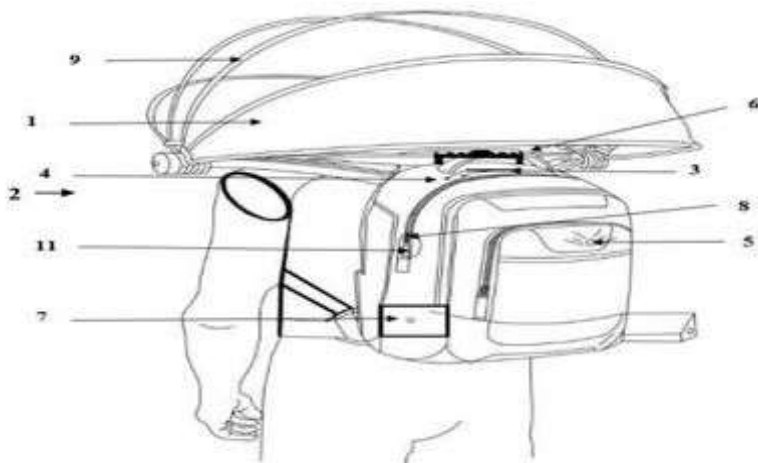
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Chandigarh University
Address of Applicant :National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Mantu Kumar Gupta
2)Abhishek Sahu
3)Nisha Singh

(57) Abstract :

The present invention relates to a multipurpose waterproof bag device, comprising of a canopy 1 mounted on the device for providing protection from rain, wind, snow and sun, a handle 2 associated with the canopy for pulling, a pocket 3 attached to device for incorporating a hoodie or a jacket, a wireless Bluetooth earphones 4 associated with the pocket for conveniently carrying the earphones for listening an audio, a lighting unit 5 attached to the device for emitting light, a holding unit 6 for lifting the bag, plurality of drawers 7 for storing purposes, and a safety unit 8 connected to the device for providing lock protection.



No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : WHEEL CLEANING DEVICE

(51) International classification :B05B0001200000,
B08B0001000000,
A46B0017060000,
B63B0059080000,
B08B0009023000

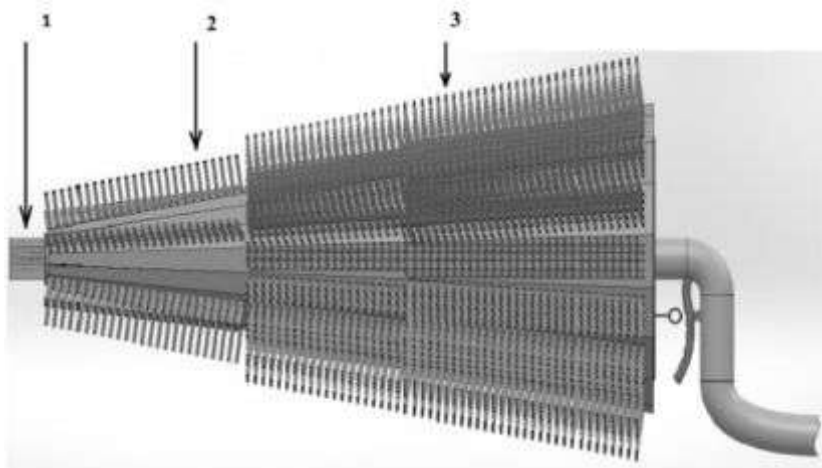
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Chandigarh University
Address of Applicant :National Highway 95, Chandigarh-
Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Prince Choudhary
2)Arun Kumar
3)Hemendra Mali

(57) Abstract :

The present invention relates to a device meant for cleaning the wheels of a vehicle comprising a rotatable faucet 3 in a conical form having provision to sprinkle liquid by holes 5 pierced on it, a plurality of movable flaps 9, having brushes 2 which are attached on every portion of the flap 9, wherein flaps 9 portably clean the internal and back portion of the wheels, at least one nozzle 1, wherein said nozzle 1 is provided with specialized brushes 11 incorporated on it for cleaning the bolts and nuts of the wheel, a liquid dispensing unit 12 housed in the given device, wherein said liquid dispensing unit 12 facilitates the cleaning by allowing the water to flow at the required impurity.



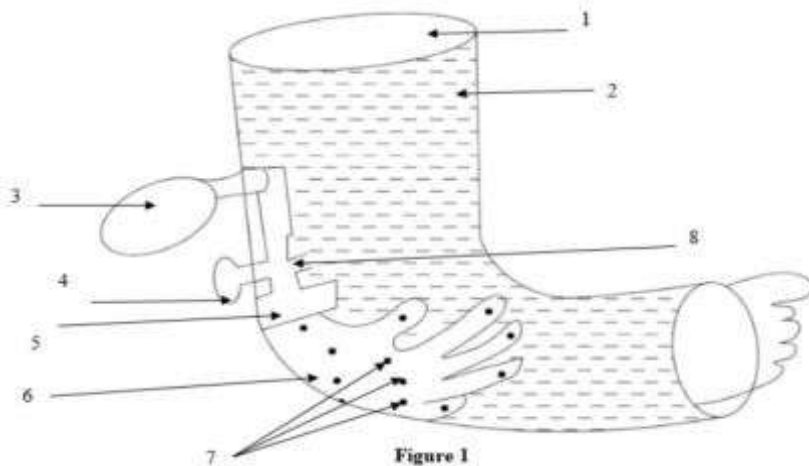
No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : WEARABLE PAIN RELIEVING APPARATUS

(51) International classification	:A61F0005010000, A61H0039040000, A61B0005021000, A61H0007000000, G01N0035100000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Utkarsh
(33) Name of priority country	:NA	2)Krishan Kant Sharma
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a wearable pain relieving apparatus comprising of a body 1 for covering users leg, wherein the body 1 has an inner layer, a fluid 2 for providing pressure to the users leg, an air bulb 3 for regulating flow of the fluid 2, wherein the user needs to apply pressure on the air bulb 3 for generating the air pressure, a nozzle 4 for controlling the air pressure, a hand shaped 6 component for providing relief to the users pain area, magnetic pointers 7 for balancing electric charge of the user body.



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

(54) Title of the invention : DEVICE FOR DIVERTING AND COOLING AIR

(51) International classification :C25B0001100000,
H02K0001320000,
F02C0007141000,
F24F0013060000,
F25B0040040000

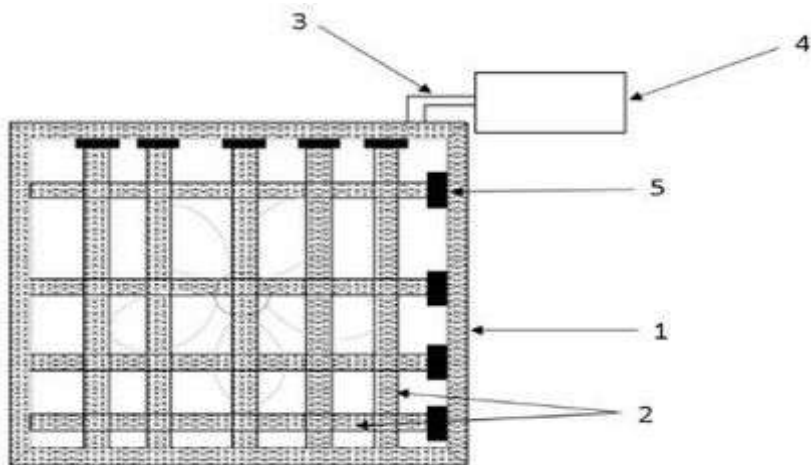
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Chandigarh University
Address of Applicant :National Highway 95, Chandigarh-
Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Krishan Kant Sharma

(57) Abstract :

The present invention relates to a device for diverting and cooling air, comprising a hollow wooden grill 1 installed in the device for providing liquid flow to plurality of wooden supersonic air flow diverters 2 that are attached with the grill 1 through brackets 5, the water is provided to the grill 1 through a pipe 3 connected with a motor 4 that sucks the water from a water reservoir provided in the device and supplies the water to the pipe 3. As the air passes through the diverters b, it losses some heat due to convection and because of the water present in the diverter 2 and it also diverts due to diverters 2 airfoil shape.



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

(54) Title of the invention : APPARATUS FOR INSTALLING CEILING MOUNTED DEVICE

(51) International classification :F21V0021030000,
F24F0013078000,
F24F0013060000,
F24F0007080000,
F21V0021020000

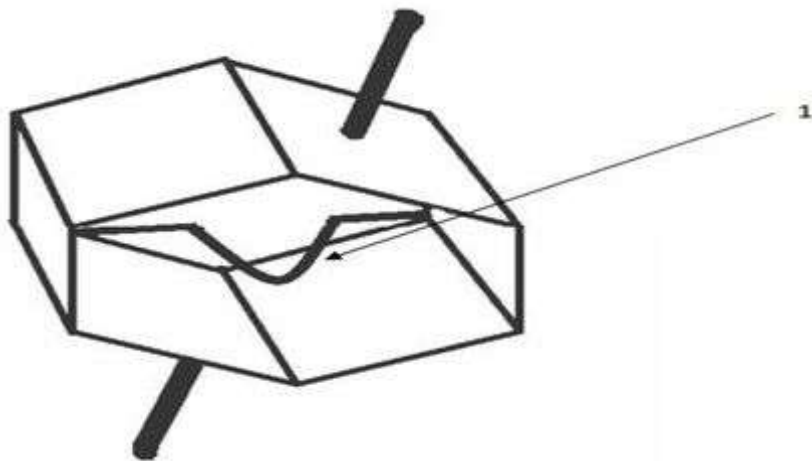
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Chandigarh University
Address of Applicant :National Highway 95, Chandigarh-
Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Raman Kumar
2)Jatinder Kaur
3)Aniket Yadav
4)Jasgurpreet Singh Chohan

(57) Abstract :

The present invention relates to apparatus for installation of ceiling mounted device, comprising a ceiling fixture box fitted to ceiling wall of a building, wherein the fixture box comprises at least one bracket 1 for holding a ceiling mounted device, a detachable connector having at least two hooks 4 at both of its ends, a strut 3 incorporating multiple holes 2, wherein the holes 2 of the strut 3 are engaged with the detachable connector while performing pre-installation tasks, and a ceiling mounting device (i.e. fan) is mounted on lower end holes 2.



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

(54) Title of the invention : AUTOMATED LIQUID RECYCLING SYSTEM

(51) International classification :C02F0009000000,
C02F0001000000,
G01M0003000000,
F28D0007020000,
C02F0003120000

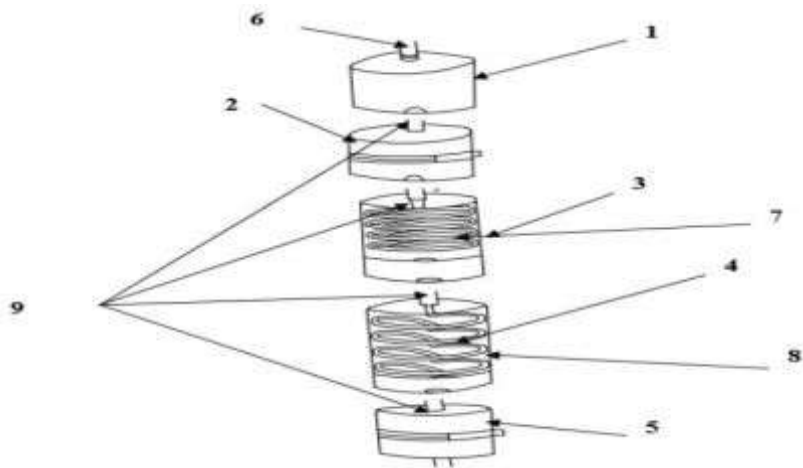
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Chandigarh University
Address of Applicant :National Highway 95, Chandigarh-
Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Aman Tripathi
2)Rahul Singh

(57) Abstract :

The present invention relates to an automated liquid recycling system comprising plurality of chambers interconnected to each other by a pipe 6, a first chamber 1 for storing the liquid which is to be recycled, a second chamber 2 comprises of semi-permeable membrane for separating the solid impurities present in the waste water, a third chamber 3 in which the purified liquid passes for getting heated by nichrome coils 7 in order to disinfect the liquid, a fourth chamber 4 having copper coils 8 in which the heated liquid is then cooled, a f chamber 5 incorporating another semi-permeable membrane for multi-level purification, a storage tank for storing the recycled liquid and multiple pipes 9 for transferring of liquid.



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

(54) Title of the invention : WATER CONSERVATION APPARATUS

(51) International classification :B65D00900000000,
C12M0001000000,
H04N0021236800,
C01B0003060000,
E03B0001040000

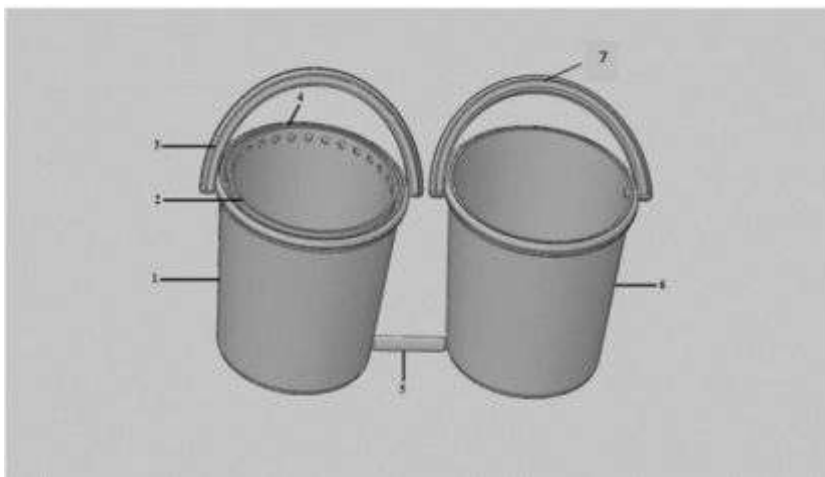
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Chandigarh University
Address of Applicant :National Highway 95, Chandigarh-
Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Arun Kumar
2)Shahbaz Juneja

(57) Abstract :

A water conservation apparatus comprises of a first container 1 associated with the apparatus for accepting water overflow, a second container 2 installed in the first container 1 for storing water, a third container 6 coupled to the first container 1 for storing excessive water, a detachable connector 5 for connecting containers, several handles 3, 4, 7 for carrying containers.



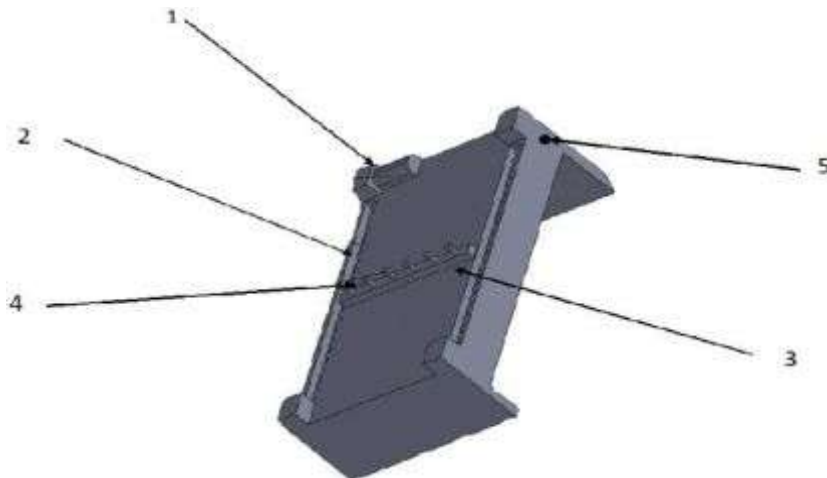
No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : AUTOMATIC FLOOR CLEANING SYSTEM

(51) International classification	:A47L0011400000, B29C0045500000, F16H0061280000, A47C0020040000, B25G0003380000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Niraj Thakur
(33) Name of priority country	:NA	2)Gaurav
(86) International Application No	:NA	3)Shahbaz Juneja
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an automatic floor cleaning system, comprising of an electric motor 1 attached to a side of a bed type device for rotating a screw shaft(s) 2 to move brooms/brushes 4 for cleaning the floor, screw shaft(s) connected to the electric motor 1 for providing too and fro motion to the brooms/brushes 4, a supporting rod 3 connected between the screw shafts 2 for providing support to the brooms/brushes 4 during motion, nylon made brushes/broom(s) 4 mounted on the supporting rod 3 for cleaning the floor, and a switch 5 attached to the bed type device for controlling the broom(s)/brushes.



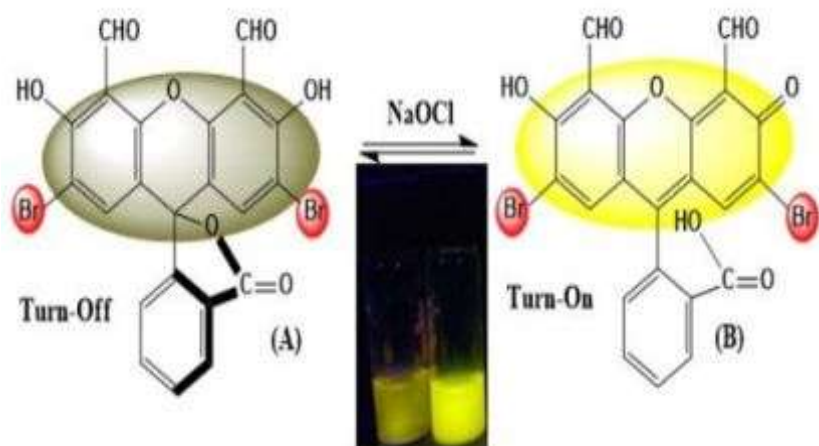
No. of Pages : 10 No. of Claims : 7

(54) Title of the invention : NOVEL FLUORESCIN COMPOUND AND A PROCESS FOR SYNTHESIS THEREOF

(51) International classification	:C09B0011080000, C07D0493100000, C07D0311820000, A61K0049000000, B01L0003000000	(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Ashish Pratap Singh
(33) Name of priority country	:NA	2)Atul Pratap Singh
(86) International Application No	:NA	3)Navjot Sandhu
Filing Date	:NA	
(87) 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 dibromo fluorescein dialdehyde compound and a process of synthesis of dibromo fluorescein dialdehyde compound that comprises the steps of reacting fluorescein dialdehyde with N-bromosuccinimide (NBS); synthesizing and brominating fluorescein dialdehyde in ethanol in a round bottomed flask to form dibromo fluorescein dialdehyde compound bearing two aldehyde and two bromo units(fluorophore); and purifying dibromo fluorescein dialdehyde compound using column chromatography in pure dichloromethane.



No. of Pages : 29 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911029193 A

(19) INDIA

(22) Date of filing of Application :19/07/2019

(43) Publication Date : 22/01/2021

(54) Title of the invention : SOAP FORMULATION AND A METHOD OF PREPARATION THEREOF

(51) International classification	:A23L0025100000, D21C0009160000, C11D0009060000, C11D0013100000, A61K0008920000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Omprakash Sahu
(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 soap formulation and a method of preparation thereof. The formulation comprises of: a vegetable oil base in the range of 20-30% by wt. including a combination of Eucalyptus globulus essential oil, avocado oil and peanut butter; 5-9% by wt. of sodium hydroxide, 0.1-0.5%) by wt. of sodium silicate; 0.1-0.5%) by wt. of hydrogen peroxide and 55-60%) by wt. of water. The method of preparation of the soap formulation comprises of the steps of: a) mixing the eucalyptus essential oil, avocado oil and peanut butter to form the vegetable oil base, b) preparing a sodium hydroxide solution in water, c) adding the sodium hydroxide solution to the oil base followed by heating to obtain a solution, and d) adding sodium silicate and hydrogen peroxide to the solution to obtain the soap formulation.

No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : AUTOMATIC INVENTORY MANAGEMENT METHOD

(51) International classification :G06Q0010080000,
B29C0043360000,
B29C0035080000,
A61F0013535000,
A61F0013534000

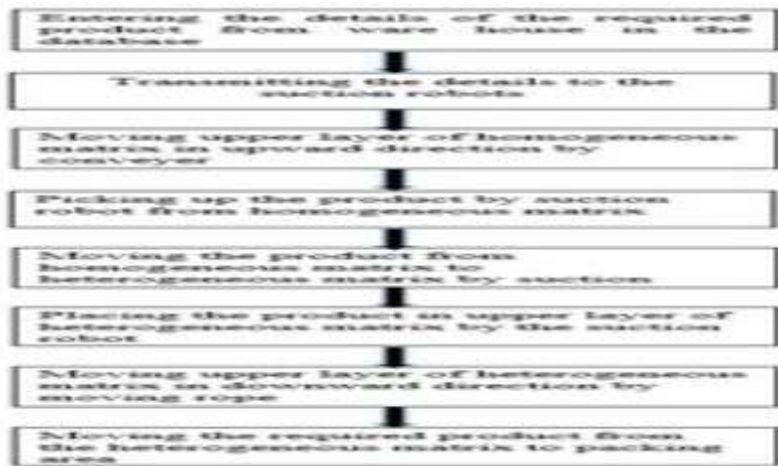
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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Address of Applicant :National Highway 95, Chandigarh-
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(72)**Name of Inventor :**
1)Gurkirt Singh
2)Achin
3)Jeewan Singh
4)Pankaj Kataria

(57) Abstract :

The automatic inventory management method , comprises the steps of, entering the details of a required product from a warehouse to a database, transmitting the details to a suction robot, moving upper layer of homogeneous matrix in upward direction by a conveyer belt, collecting up the product from homogeneous matrix with the help of the suction robot, moving the products from the homogeneous matrix to upper part of a heterogeneous matrix, putting the products on the upper layer of the heterogeneous matrix, moving the upper layer of the heterogeneous matrix in downward direction with a moving rope and moving the required products in packing area from the heterogeneous matrix.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911029195 A

(19) INDIA

(22) Date of filing of Application :19/07/2019

(43) Publication Date : 22/01/2021

(54) Title of the invention : PROBIOTIC DIETARY SUPPLEMENT COMPOSITION AND A METHOD OF PREPARATION THEREOF

(51) International classification :A61K0036906600,
A61K0036480000,
A23L0033105000,
A23L0025000000,
A23L0033135000

(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)Chandigarh University
Address of Applicant :National Highway 95, Chandigarh-
Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Sunny Dhiman
2)Dr. Gunjan Mukherjee

(57) Abstract :

The present invention relates to a probiotic dietary supplement and a method of preparation thereof for strengthening weak immune system and digestion in human subjects. The composition comprises of: turmeric extract, dry coconut powder, almonds, dry dates, raisins, cashew nuts, melon seeds, fennel seeds, fenugreek seeds, green cardamom seeds, dry ginger powder, clarified butter, a sweetening agent, and a probiotic. The method of preparation of the composition comprises of the steps of: a) grinding raw turmeric rhizomes to a paste followed by cooking in clarified butter to form a mixture, b) adding rest of the ingredients to the mixture and mixing together while still cooking to form a uniform mixture, c) adding probiotic to the uniform mixture to obtain the composition.

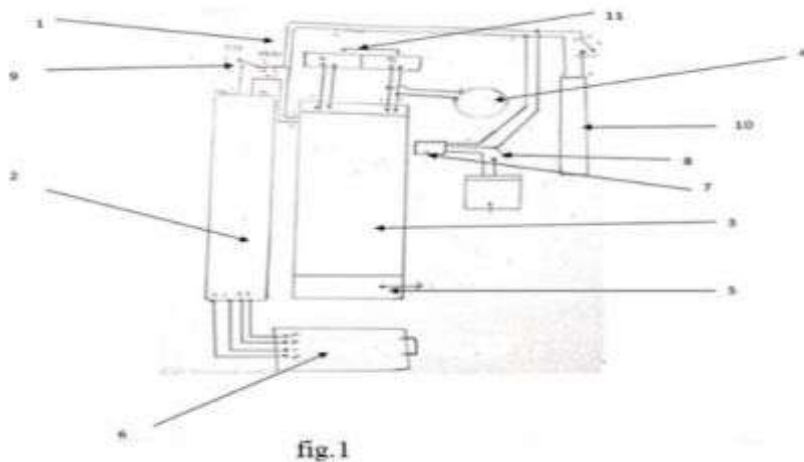
No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : PORTABLE SOUND PRODUCING DEVICE WITH BATTERY BACKUP

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:H02J0007000000, H03F0001320000, H04R0001100000, H04R0001020000, H02J0009060000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India</p> <p>(72)Name of Inventor : 1)Lovelash Dutt</p>
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(57) Abstract :

The present invention relates to a portable sound producing device 1 with battery backup comprising: a battery 2 installed in the device that provides power supply in the form of electrical signal, an amplifier 3 connected to the battery 2 for increasing strength of the generated electrical signals, a speaker 4 connected to the amplifier 3 that receives the electrical signals from the amplifier and converts the same into audio waves, a bluetooth module 5 installed in the device for wirelessly connecting multiple electronic units simultaneously, an inbuilt battery charging module 6 attached to the battery for provisioning the device with longer battery backup, a voltage regulator 7 connected to the battery 2 that controls the voltage according to a certain limit; and a control unit installed in the device that receives signals from the electronic units that controls the functioning of the device.



No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : SEWAGE DRAINAGE DEVICE

(51) International classification :B62L0003020000,
A61B0090000000,
B29C0043580000,
B60T0008360000,
F16L0041000000

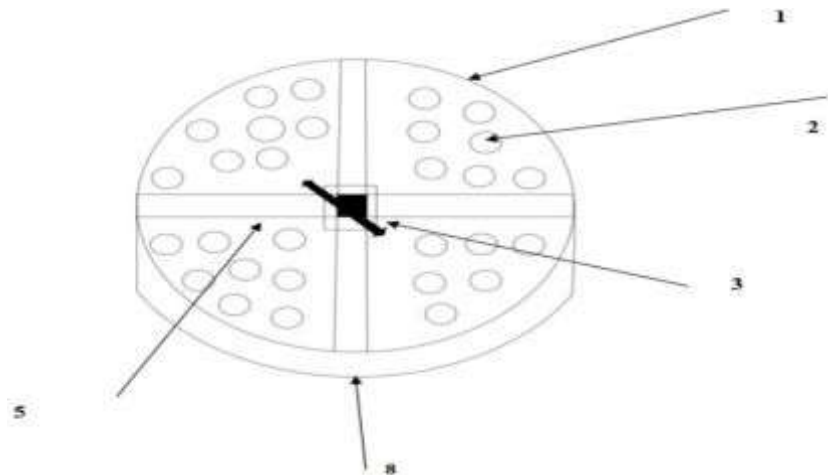
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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Address of Applicant :National Highway 95, Chandigarh-
Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Krishan Kant Sharma

(57) Abstract :

The present invention relates to a sewage treatment device, comprising a cover having two plates, upper 1 and the lower 4, wherein holes 2 are drilled in upper 1 plate for passage of fluid into drainage pipeline connected to lower 4 plate, plurality of shutters 6 present to open holes 2 to facilitate passage of gases, a hydraulic unit 9 mounted on the lower plate 2, further comprising a hydraulic plunger 10 which upon actuating opens and closes the shutter 6, a twister 3 connected to hydraulic unit 9, wherein the twister 3 is manually moved in a predefined way to actuate the hydraulic unit 9.



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

(54) Title of the invention : SEAL DETECTION SYSTEM AND A METHOD THEREOF

(51) International classification	:G01V0008200000, G06F0003010000, B61L0025020000, A61B0005080000, G01M0013000000	(71) Name of Applicant : 1)Mahindra & Mahindra Ltd Address of Applicant :Mahindra & Mahindra Ltd. Farm Equipment Sector, Swaraj Division, Phase IV, Industrial Area, S.A.S. Nagar, Mohali Punjab India Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Baljinder Singh
(33) Name of priority country	:NA	2)Saurabh Bansal
(86) International Application No	:NA	3)Ram Kumar Bansal
Filing Date	:NA	
(87) 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 :

Seal detection system and a method thereof. The system (100) includes a seal (102), a detecting tool member (104) assembled with said seal (102), said detecting tool member (104) defining at least one fluid passage (104a) and provided in communication with a fluid supply line (108) to transfer a fluid into said fluid passage (104a), at least one sensor (106) in communication with said fluid supply line (108), said sensor (106) configured to generate a signal indicative of one of presence and absence of said seal (102) and a controller (110) in communication with said sensor (106), said controller (110) configured to receive said signal from said sensor (106) and perform one of actuating a machine part and retaining a machine part associated with said sealing assembly based on said signal indicative of one of presence and absence of said seal (102) respectively.



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

(54) Title of the invention : IMPROVED CONGESTION DROP DECISIONS IN PACKET QUEUES

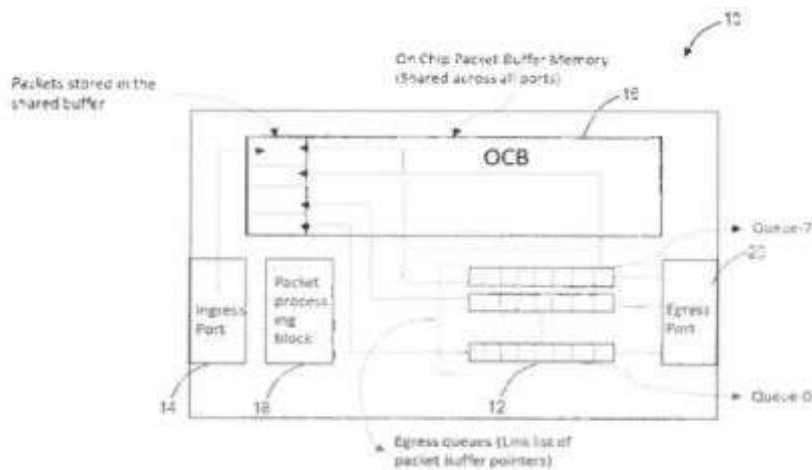
(51) International classification :H04L0012540000,
H04L0029080000,
H04L0012660000,
H04Q0011040000,
H04L0012460000

(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)Ciena Corporation
Address of Applicant :7035 Ridge Road, Hanover, Maryland
21076, United States of America U.S.A.
(72)**Name of Inventor :**
1)Srivastava Vaibhav
2)Bly Michael Keith

(57) Abstract :

A packet switch 10 includes an ingress port 14; queue admission control circuitry 34 connected to the ingress port 14; one or more egress queues 12 configured to manage packet buffers 16; and an egress port 20 connected to the packet buffers 16, wherein the packet buffers 16 are managed such that already queued lower priority packets are discarded from the packet buffers 16 when it is required to drop higher priority packets that should otherwise be accepted in the packet buffers 16. The queue admission control circuitry 34 can be configured to determine if a packet should be dropped or not, and the queue admission control circuitry 24 communicates to buffer reallocation circuitry 36 that is configured to discard one or more lower priority packets to support enqueueing the higher priority packet



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911029333 A

(19) INDIA

(22) Date of filing of Application :20/07/2019

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD OF SELECTING CELLULAR COMMUNICATION NETWORK USING GRAPHICAL USER INTERFACE & PAYMENT MANAGEMENT THEREOF

(51) International classification	:G06Q0020360000, G06Q0020100000, G06Q0020320000, G06Q0020120000, H04W0008180000	(71) Name of Applicant : 1)S Gaurav Singh Address of Applicant :S/o Dr S. Vijay Singh 1220-A , Sector 17, HUDA Jagadhri (Yamunanagar) Pin-135003, Haryana Phone: 9416022630 Haryana India
(31) Priority Document No	:NA	2)S Kunal Singh
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)S Gaurav Singh
(86) International Application No	:NA	2)S Kunal Singh
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention disclosure presents a method of selecting cellular communication network using graphical user interface & payment management thereof. The present invention propose method of formation a nexus point for the cellular mobile communication network, with providing facilities on a graphical user interface, to select the mobile communication network according to the availability, strength and cost of the cellular communication network. The cost of the selected cellular communication network is deducted from the value pre-stored in the digital wallet.

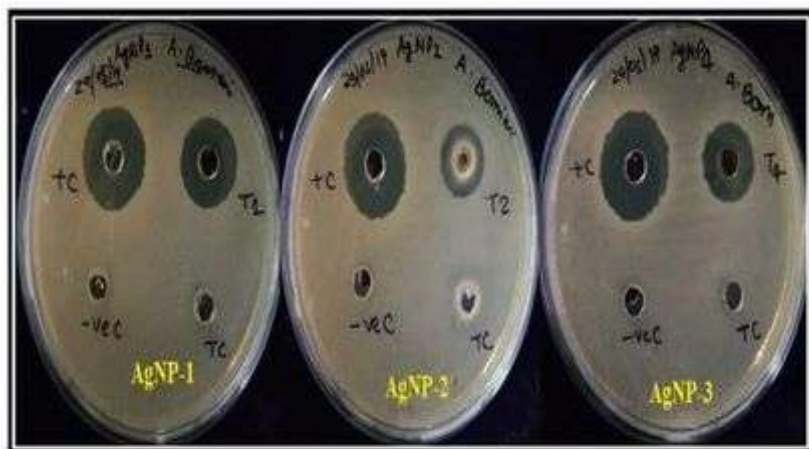
No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : A PROCESS FOR 3-AMINOPROPYLTRIMETHOXYSILANE MEDIATED SYNTHESIS OF FUNCTIONAL SILVER NANOPARTICLES AS POTENT ANTI-ACINETOBACTER BAUMANNII FOR BIOMEDICAL APPLICATIONS

(51) International classification	:B82Y0030000000, B22F0001000000, C09D0005140000, B22F0009240000, A01N0059160000	(71)Name of Applicant : 1)Prem Chandra Pandey Address of Applicant :Department of Chemistry, Indian Institute of Technology (BHU), Varanasi-221005 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Prem Chandra Pandey
(33) Name of priority country	:NA	2)Atul Kumar Tiwari
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

We report herein a synthetic strategy for the synthesis of silver nanoparticles of three types (AgNP-1, AgNP-2 and AgNP-3) with particle size distribution below 10 nm. As made silver nanoparticles are found potent against *Acinetobacter baumannii* severely causing hospital acquired infection and remained immune to many of the common antibiotics. The disclosure reports the contribution of ethylene glycol diacetate and 1-vinyl-2-pyrrolidone along with 3-aminopropyltrimethoxysilane and other organic reducing agent as disclosed IP 201911021365 in obtaining AgNP-1, AgNP-2 and AgNP-3. These reagents allow specific interactions within reacting components during silver nanoparticles synthesis to generate selective antimicrobial activity of silver nanoparticles against *A. baumannii*. AgNP-1 is found highly potent with MIC < 7 ug/ml whereas AgNP-2 show MIC < 28 ug/ml and AgNP-3 has MIC < 14 ug/ml. These values are compared to that of polymyxin-B sulphate a reference antibiotic with MIC to the order of <1 ug/ml under similar conditions. These finding reveals potential antimicrobial activity of as synthesized silver nanoparticles for biomedical applications.



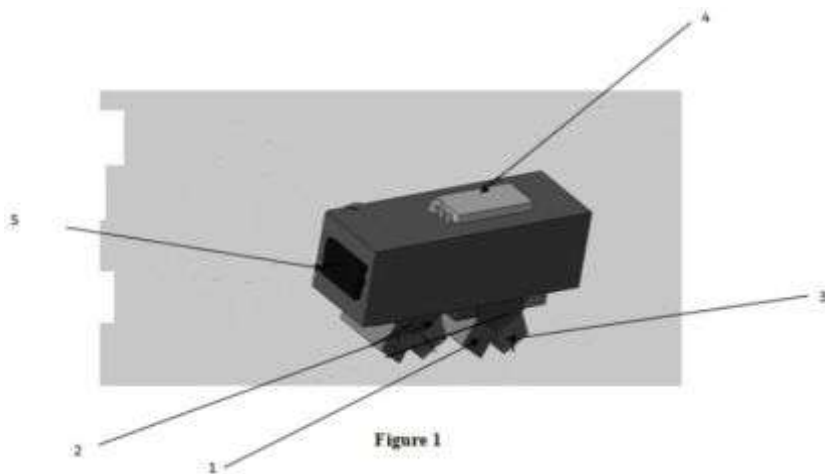
No. of Pages : 25 No. of Claims : 13

(54) Title of the invention : ELECTRICITY GENERATING FABRIC CLEANING DEVICE

(51) International classification	:A47L0025000000, F16C0033660000, D03D0015000000, A47L0025080000, F03D0009110000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Raman Kumar
(33) Name of priority country	:NA	2)Akash Tiwary
(86) International Application No	:NA	3)Jasgurpreet Singh Chohan
Filing Date	:NA	
(87) 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 electricity generating fabric cleaning device for removing dust and impurities away from the fabric surface. The device comprising multiple bristles 1 attached to the second portion of the device that scrubs the surface of the fabric, a set of dynamo 2 attached to the second surface of the device that transfers mechanical energy to an electrical energy, multiple biosensor 3 embedded in the bristles that analyzes the amount of grease and fatty acid present on the fabric surface, a display unit 4 attached to the first end of the device that shows the analyzed amount of the grease and fatty acid present on the fabric surface, a control unit installed in the device that manages the operation of the biosensors, and a battery 5 attached to the device that saves the electrical energy generated by the dynamo.



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

(54) Title of the invention : WEARABLE DEVICE AND METHOD FOR VOCALLY IMPAIRED

(51) International classification :G06F0003010000,
G09B0021000000,
G06F0003160000,
A41D0019000000,
G09B0021040000

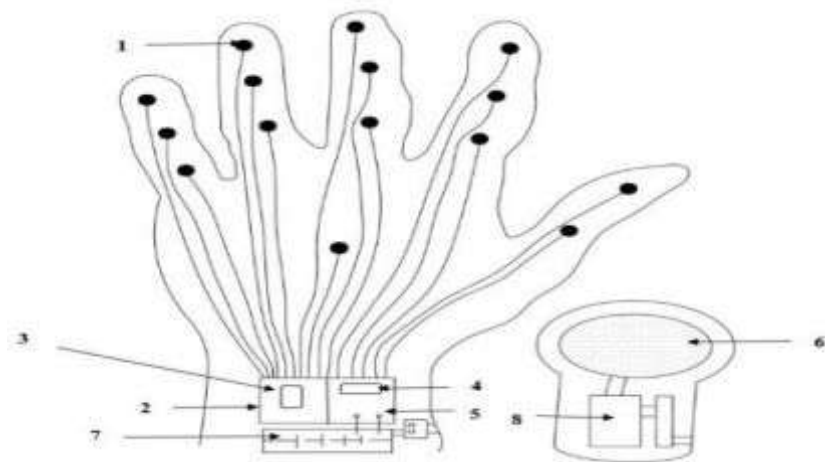
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Chandigarh University
Address of Applicant :National Highway 95, Chandigarh-
Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Yashik
2)Sagar Gaur
3)Vikas Wasson

(57) Abstract :

A wearable device for vocally impaired people, comprising of sensors 1 attached to gloves for sensing hand motion and a control module 2, a training module 3 for comparing data from sensors with pre-defined hand gestures and a memory module 4 to store predefined hand gestures, a conversion module 5 for converting the gestures to audio signals, an output module 6 emits audio signals that are converted into text and displayed on a display module 8, a rechargeable battery 7 attached to the gloves. A method for recognising sign language using a wearable device, comprising the steps of, activating the glove, receiving the data from the sensors 1 by the control module 2 and comparing it using training module 3, converting recognised gesture to an audio signal by the conversion module 4 and emitting it by the output module 5, and lastly displaying text by the display module 7.



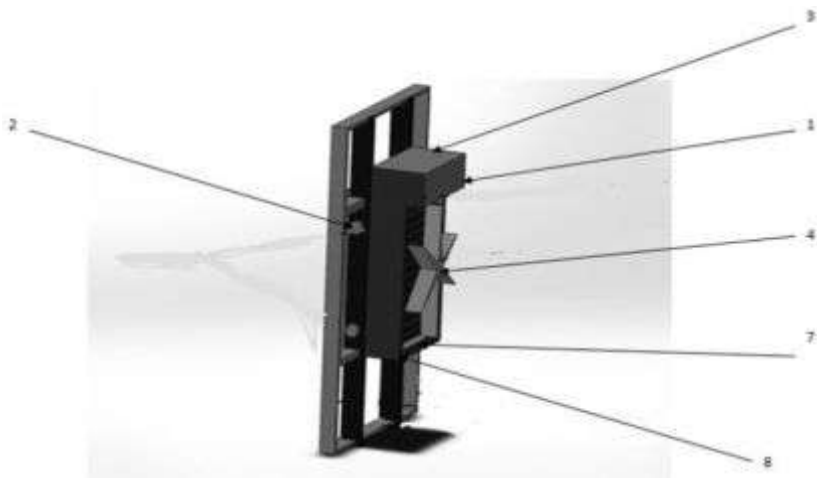
No. of Pages : 13 No. of Claims : 9

(54) Title of the invention : AUTOMATIC PLASTERING SYSTEM

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:B41J0029020000, C07H0021040000, H04L0005140000, F24F0005000000, H02M0001000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India</p> <p>(72)Name of Inventor : 1)Dr. Jagjit Singh 2)Akash Tiwary</p>
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(57) Abstract :

The present invention relates to an automatic plastering system, comprising a plastering unit 1 attached in the system, which consists of: a reservoir 3 attached at first end of the unit that mixes binding materials, a compressor 4 present at middle portion of the unit that produces vacuum for greater binding of the binding material to the surface of the walls of the building, at least two adjusting components 7, 8 attached with both ends of the unit that fixes the unit at particular portion of walls of the building, a smoothing component 9 that smoothens the surface of the walls of the building, a relay arrangement 5 attached vertically with both ends of the unit that controls the movement of plastering unit at particular surface of walls of the building, and a power generator 6 attached in the system that supplies power for the movement of the unit.



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

(54) Title of the invention : SMART FOOD MANAGEMENT SYSTEM

(51) International classification :C05F0017020000,
B29B0017000000,
A47J0036240000,
C05F0017000000,
B65F0001140000

(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)Chandigarh University
Address of Applicant :National Highway 95, Chandigarh-
Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Dr. Jagjit Singh
2)Akash Tiwary

(57) Abstract :

The present invention relates to smart food management system comprising of plurality of container, at least one sensor 10 for detecting food vitalities installed inside food storing container 1, a display screen 12 for displaying vitalities of food to user, a heating surface 9 for keeping food warm installed under primary container 1, a control unit 5 for giving signal to primary container 1 to transfer waste food to recycling unit in predefined process, a touch screen control panel 4 and a recycling unit comprises of a set of rotating blades 6 connected with a motor, a compost making container 11 for converting waste food into compost, a hollow shaft embedded inside compost making container 11 and connected with a motor for spraying enzymes on waste food, a compressor unit 8 and a set of filters 7 for treating waste water generated during the process of recycling.



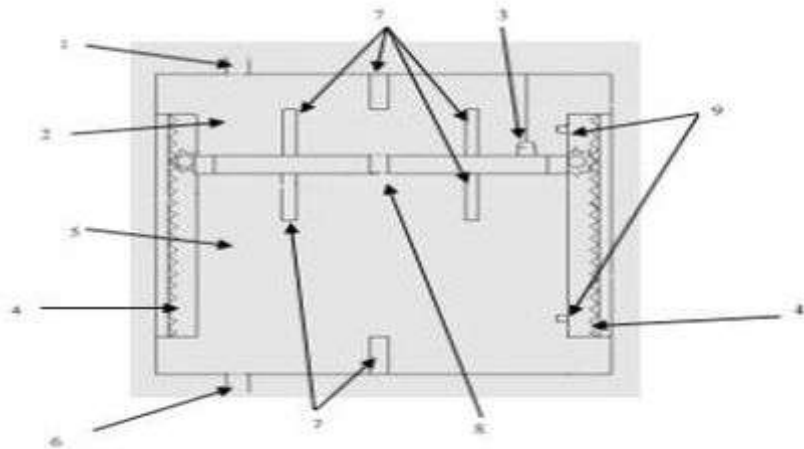
No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : LIQUID HEATING DEVICE

(51) International classification	:F24H0001200000, F24H0001180000, F24H0009120000, F28D0020000000, F24H0009180000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Anmolpreet Singh
(33) Name of priority country	:NA	2)Amandeep Singh
(86) International Application No	:NA	3)Shikha Tuteja
Filing Date	:NA	4)Ravinder Tonk
(87) International Publication No	: NA	5)Amandeep Singh Sroay
(61) Patent of Addition to Application Number:	:NA	6)Arshdeep Singh
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a device that reduces electrical energy consumption of water heating storage tank, comprising an insulated water storage tank having water heating elements 7 and consists two chambers, upper 2 and lower chamber 5 for storing cold and hot water, having water inlet 1 and water outlet 6 hole for transferring water in and out from storage tank, motors associated with rack and pinion gear mechanism 4 for moving insulated plate in upward and downward motion, plate having opening/closing valve 8 for water transfer from upper 2 to lower chamber 5, motion limit sensors 9 for measuring water level inside chamber, a wire length adjuster 3 mounted on plate for collection of wire during movement of plate, control unit mounted outside of water tank for controlling movement of plate.



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

(54) Title of the invention : AN APPARATUS AND METHOD FOR CONTROLLING AND MONITORING A DISPENSING UNIT

(51) International classification	:E21B0047120000, A61B0005000000, A61L0009140000, G08B0013000000, G08B0013080000	(71) Name of Applicant : 1)Mahindra & Mahindra Ltd. Address of Applicant :Mahindra & Mahindra Ltd. Farm Equipment Sector, Swaraj Division, Phase IV, Industrial Area, S.A.S. Nagar, Mohali Punjab India Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BALJINDER SINGH
(33) Name of priority country	:NA	2)Ram Kumar Bansal
(86) International Application No	:NA	3)Saurabh Bansal
Filing Date	:NA	
(87) 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 apparatus (100) for controlling and monitoring a dispensing unit. The apparatus (100) includes a housing (102) or a storage compartment defining a space for containing a plurality of gaskets and an aperture (102a) allowing said gasket to be dispensed from said housing (102), at least one sensor (104) disposed in near vicinity of said housing (102), said sensor (104) configured to detect a movement of said gasket associated with said housing (102) and a controller (106) in communication with said sensor (104). The controller (106) configured to receive a signal indicative of a period of inactivity from said sensor (104) and actuate an alarm (110) if said period of inactivity exceeds a standard predefined time period.



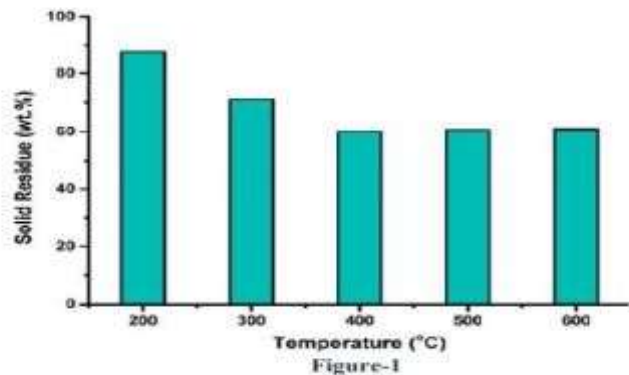
No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : A PROCESS OF PRODUCING FUEL AND RECOVERING METALS FROM WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT

(51) International classification	:C22B0007000000, C02F0009000000, C02F0001040000, H02K0003300000, C22B0003040000	(71)Name of Applicant : 1)Indian Institute Of Technology Delhi Address of Applicant :Hauz Khas, New Delhi-110016, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Kamal Kishore Pant
(33) Name of priority country	:NA	2)Krishna Deo Prasad Nigam
(86) International Application No	:NA	3)Prashant Ram Jadhao
Filing Date	:NA	4)Ejaz Ahmad
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a process of producing fuel and recovering metals from waste material comprising electrical and electronic equipment. The present invention discloses an integrated process of pyrolysis and sonication which efficiently recycles the plastic component of the waste electrical and electronic equipment material and recovers metal from it without using any chemicals or employing high temperature to perform the process.



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

(54) Title of the invention : SYSTEM AND METHOD FOR PREDICTING LOCATIONS OF CONSTRUCTION SITES ALONG ROUTE OF AN AUTONOMOUS VEHICLE

(51) International classification :G06K0009000000,
G06N0003040000,
G06N0003080000,
G05D0001000000,
G06K0009620000

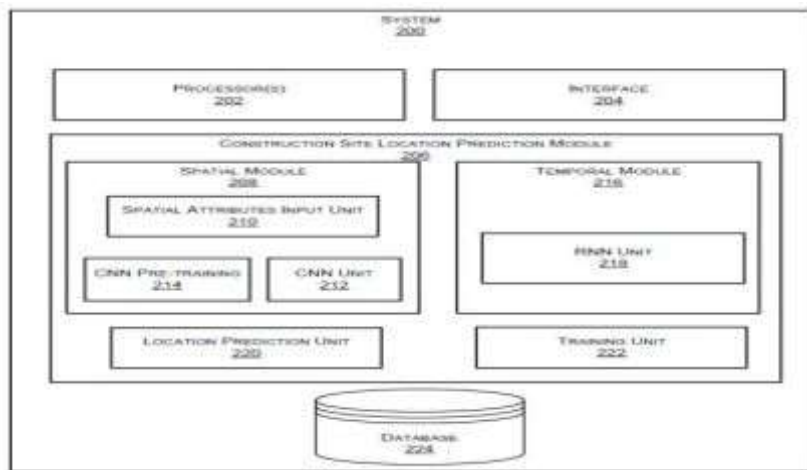
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Daimler AG
Address of Applicant :70546 Stuttgart, Germany Germany

(72)**Name of Inventor :**
1)Mr. Laxmi Kant Sahoo
2)Ms. Padma Joshi

(57) Abstract :

The present disclosure provides a system and method for predicting locations of construction sites along route of an autonomous vehicle. The system comprises a convoluted neural network (CNN) that receives images of the route the vehicle is travelling on from one or more sensors mounted on the vehicle and processes the images to retrieve data such as traffic signs, lane markings, and signs pertaining to construction activity from the images. The CNN is pretrained on a dataset of images to enable extraction of data from the received images. The CNN data is received by a recurrent neural network (RNN) to retrieve temporal data. The CNN data and RNN data are collated and processed to predict location of a construction site with reference to current location of the vehicle. The proposed system and method are further configured to be trained based on actual data.



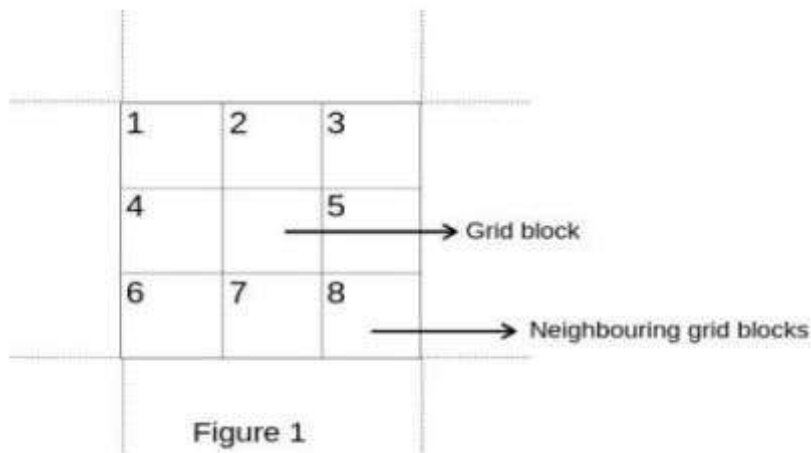
No. of Pages : 25 No. of Claims : 10

(54) Title of the invention : TACTICAL CHARGING REQUIREMENT LOCATER FOR IDENTIFYING CONCENTRATED GEOGRAPHIES WITH HIGH EV CHARGING NEED POTENTIAL

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number:</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G06F0001260000, H04B0001707000, G06F0016310000, G06Q0040000000, H01M0002180000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)Shourya Umang Address of Applicant :A37, Vrindavan aptts. Plot 1, Sector 6, Dwarka Delhi India</p> <p>(72)Name of Inventor : 1)Shourya Umang</p>
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(57) Abstract :

IV index for each grid as calculated by the methodology as mentioned is a proxy for traffic concentration, which when combined with the assumption that EVs will be equally distributed among the populace of a region, is a proxy for the concentration of EVs in that grid and is used as a predictor of EV charger Capacity utilization, ie, higher the index, more is the capacity utilization with respect to other grids in the same map.



No. of Pages : 8 No. of Claims : 1

(54) Title of the invention : TOILET CLEANING APPARATUS

(51) International classification :H01L0021677000,
A47L0011400000,
A47L0013220000,
A47K0017000000,
A47K0013120000

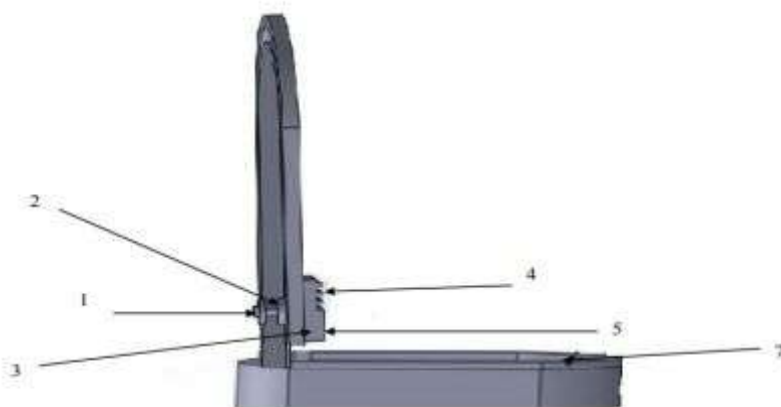
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Chandigarh University
Address of Applicant :National Highway 95, Chandigarh-
Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Aniket Yadav
2)Raman Kumar
3)Jasgurpreet Singh Chohan

(57) Abstract :

The present invention relates to toilet cleaning apparatus comprising a handle 2 for providing mobility to said apparatus, a container 3 for storing fluid attached on a lower side of the apparatus, nozzles 4 for ejecting the fluid out of the container 3 to clean a commode seat 7, a foam 5 for soaking the fluid spread on the commode seat 7 by the nozzles 4.



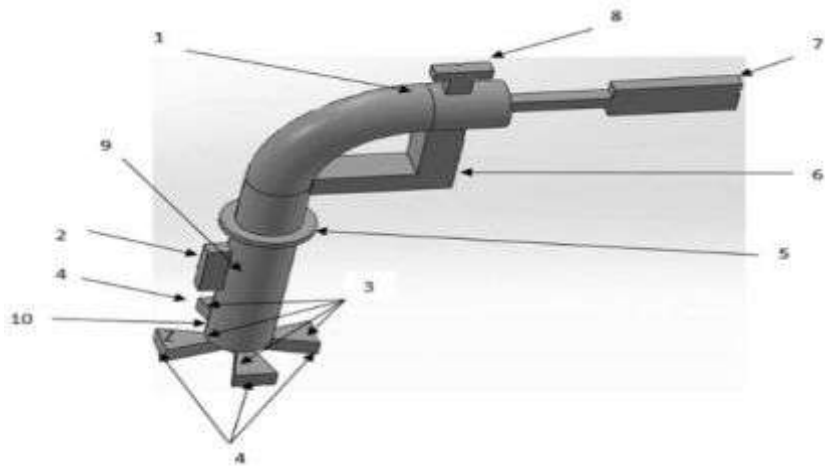
No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : TOILET CLEANING DEVICE

(51) International classification	:A47K0011100000, G04G0017040000, G04G0021020000, A61L0002180000, G01N0023040000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mehak Mehta
(33) Name of priority country	:NA	2)Mayank Gautam
(86) International Application No	:NA	3)Pratul Choudhary
Filing Date	:NA	4)Preeti
(87) 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 toilet cleaning device, comprising a bend shaped pipe structure consisting two arms, first 1 and second arm 9. A first motor 5 attached between first 1 and arm 9 for rotating second arm 9. An image sensitizer 2 mounted on second arm 9 for mapping surrounding in 3-dimensional view to detect obstacle. A controller connected to image sensitizer 2 for analyzing surrounding and generating a command signal, multiple scrubbers 3 and sprinklers 4 installed on device for removing dirt from commode, a second motor 10 in association with scrubbers 3 and sprinklers 4 for moving in a direction. A nascent oxygen chamber 6 associated with controller for providing nascent oxygen to eliminate germs upon motion of motors 5,10.



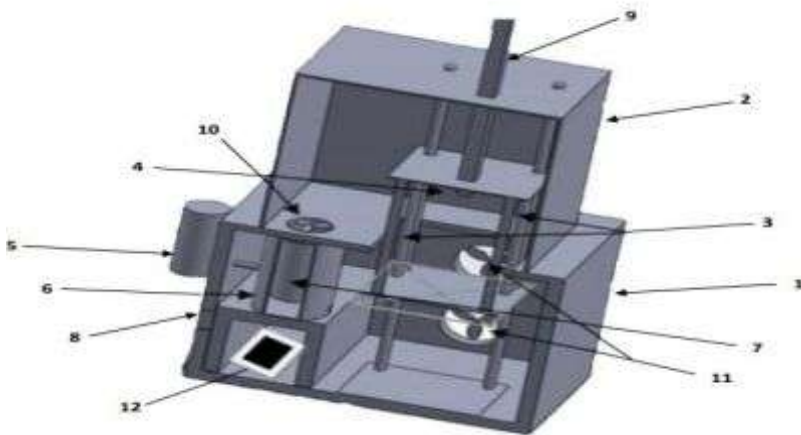
No. of Pages : 12 No. of Claims : 9

(54) Title of the invention : SURFACE SMOOTHING DEVICE

(51) International classification	:A47J0027210000, H01L0021324000, B05D0001400000, H02M0007000000, F24F0013080000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Raman Kumar
(33) Name of priority country	:NA	2)Jasgurpreet Singh Chohan
(86) International Application No	:NA	3)Nitfin Jindal
Filing Date	:NA	4)Th Bhatia Singh
(87) International Publication No	: NA	5)Rishav Raj
(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 surface smoothing device for smoothing the surface of ABS natured thermoplastic parts, comprising at least two chambers, wherein first chamber 1, comprising of a storage unit 5 for preserving acetone liquid, a heating vessel 6 in association with a PID temperature controller 8 for converting acetone liquid into vapors, wherein the PID temperature controller 8 controls the temperature of heating vessel 6, a mist mixer 7 is installed in a heating vessel 6 for accelerating the formation of vapors, a second chamber 2 is for smoothing and finishing process, comprises of a hook 4 in association with a sliding bar 9 for holding the ABS parts and moving it in a particular direction, a fan 10 for circulating the acetone vapors throughout the first chamber 1 and at least two fans 11 attached to the first chamber 1 for cooling the ABS parts that is finished and smoothed by the circulation of vapors.



No. of Pages : 11 No. of Claims : 9

(54) Title of the invention : AIR TIGHTENING DEVICE FOR DOORS/ WINDOWS

(51) International classification :G08B0013080000,
E06B0007360000,
H04N0005630000,
F24F0011890000,
B65F0003000000

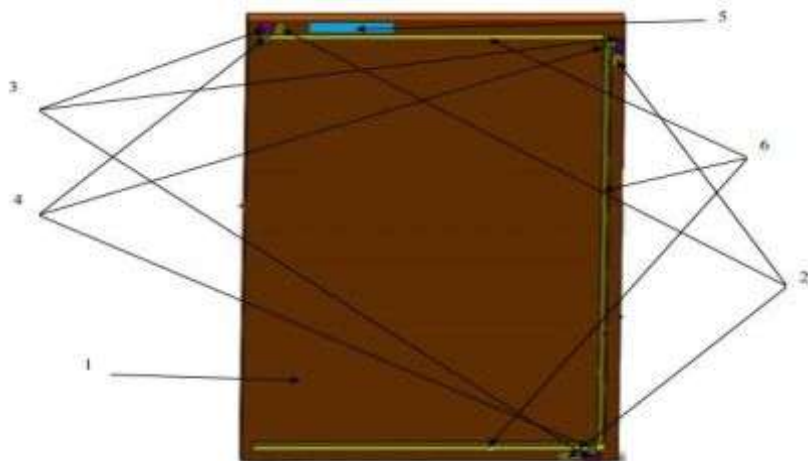
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Chandigarh University
Address of Applicant :National Highway 95, Chandigarh-
Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Akash Tiwary

(57) Abstract :

The present invention relates to a device for an air tightening device for doors/windows comprising of number of sensors 2 for determining opening/closing of the doors/windows 1, wherein the sensors 2 generates a signal on opening/closing of the doors/windows 1, a controller 5 for receiving the signal generated by the sensors 2, wherein the microcontroller triggers a command signal after analyzing the received signal, motors 3 with rotating shafts, wherein the shafts rotate after receiving the command signal by the motors, number of rubber strips 4 for sealing edges of the doors/windows 1 by performing folding/unfolding action.



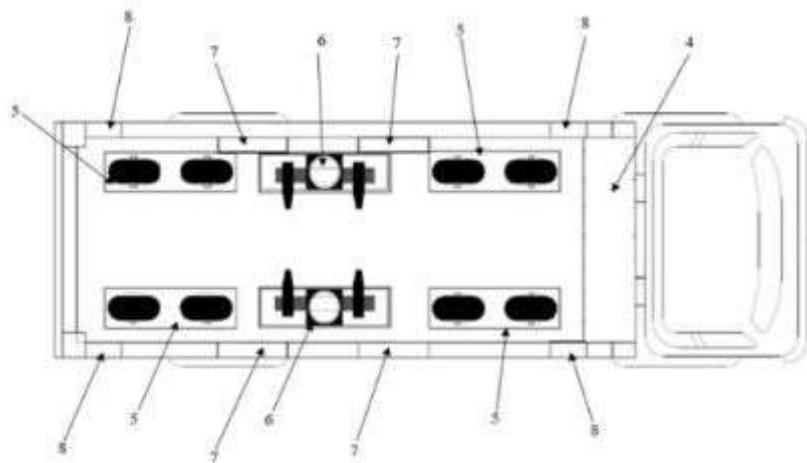
No. of Pages : 11 No. of Claims : 6

(54) Title of the invention : VEHICLE MAINTENANCE SYSTEM

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G01B0011275000, H04N0009310000, G06Q0010000000, B66F0009075000, B60S0003060000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India</p> <p>(72)Name of Inventor : 1)Suraj Rana 2)Supreet Bhatnagar 3)Payal Patial</p>
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(57) Abstract :

The present invention relates to a vehicle maintenance system, comprising a movable unit 1 associated with the system for providing mobility to the system, a hydraulics unit 6 mounted on the movable unit 1 for lifting vehicle of a user, an alignment unit 5 coupled with the movable unit 1 for wheel alignment of the user vehicle, a washing unit attached with the movable unit 1 for washing the user vehicle, a data retrieving unit associated with the movable unit 1 for retrieving data from the user vehicle, and plurality of hydraulic outrigger stabilizers 8 installed in the movable unit 1 for balancing the movable unit 1 on ground.



No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : GAS FLOW CONTROLLING APPARATUS

(51) International classification :F23D0014280000,
 F25D0017060000,
 F01L0001320000,
 F23K0005140000,
 F23N0001000000

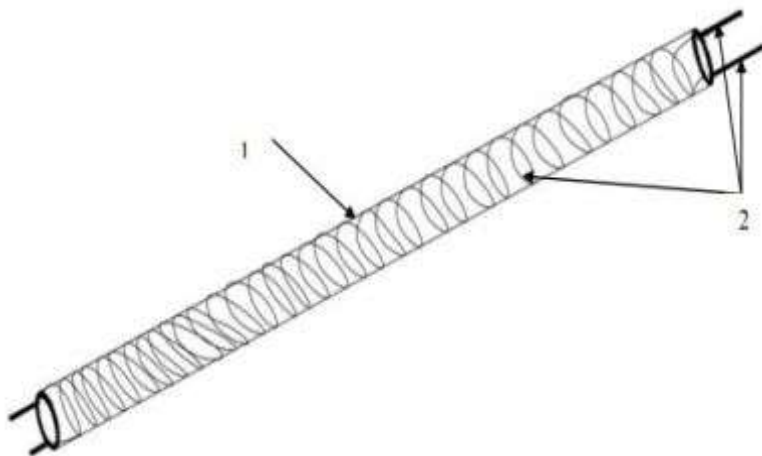
(31) Priority Document No :NA
 (32) Priority Date :NA
 (33) Name of priority country :NA
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number:NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
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 Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Akash Tiwary
2)Jasgurpreet Singh Chohan
3)Raman Kumar

(57) Abstract :

The present invention relates to a gas flow controlling apparatus, comprising a pipe 1 for transferring the gas from a container to a burner, a valve for controlling flow of the gas by rotating itself, a regulator for controlling the valve by rotating on its own axis, and a spring 2 for transferring rotational movement of the one regulator to another.



No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : SPRING LOADED DOOR JAMMING APPARATUS

(51) International classification :E05F0015410000,
F16C0043040000,
E05F0015400000,
E06B0009600000,
H01R0004480000

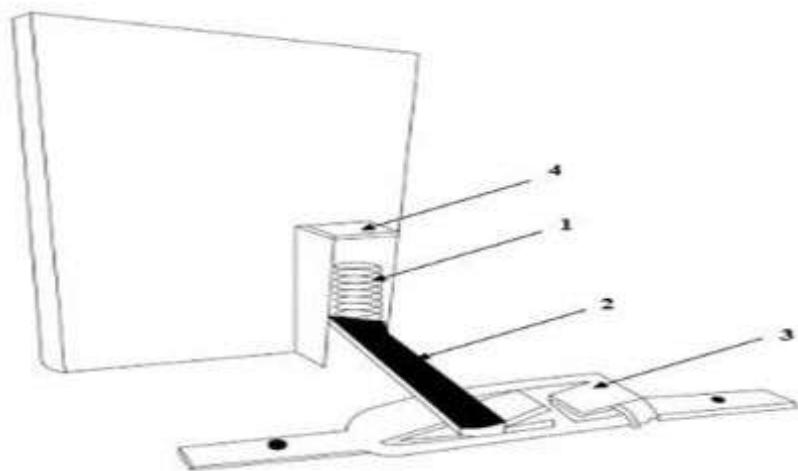
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Chandigarh University
Address of Applicant :National Highway 95, Chandigarh-
Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Ankush
2)Shikha Tuteja
3)Ravinder Tonk
4)Nipun Singhania
5)Gurvinder Hans

(57) Abstract :

The present invention relates to a spring-loaded door jamming apparatus, comprising a resilience member 1 for resisting contraction and elongation that is attached with a connecting member 2 for converting the direction of force acting on a door, the connecting member 2 is further attached with a locking member 3 that consists of slots for locking the connecting member as per user requirement on operating a door.



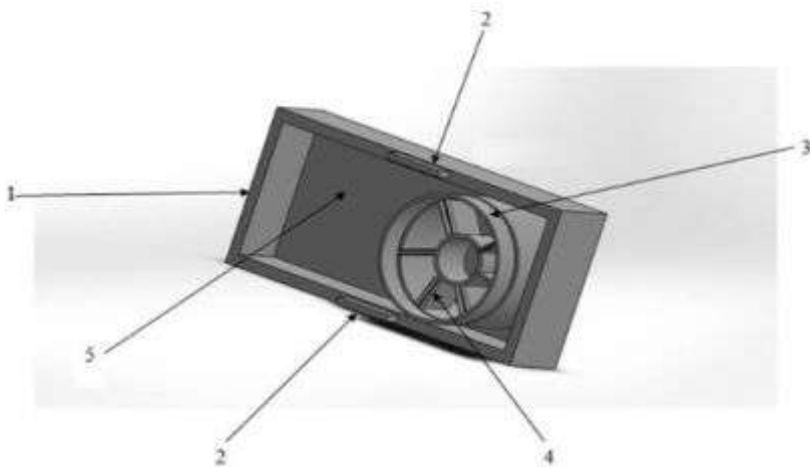
No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : MULTIPURPOSE FOOD STORAGE APPARATUS

(51) International classification	:A47J0043250000, G06F0011340000, A47J0047020000, H01M0004580000, A47J0047100000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Raman Kumar
(33) Name of priority country	:NA	2)Aniket Yadav
(86) International Application No	:NA	3)Jatinder Kaur
Filing Date	:NA	4)Jasgurpreet Singh Chohan
(87) 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 multipurpose food storage apparatus comprises, a container 5 for storing and transferring food, a sheer 3 is installed in the food storage apparatus 1 for slicing food items, a spring component is installed in sheer 3 for moving blades 4 upward and downward, a locking component 2 is installed in food storage apparatus 1 for locking sheer 3. The sheer 3 is retractable in nature and save space when not in use.



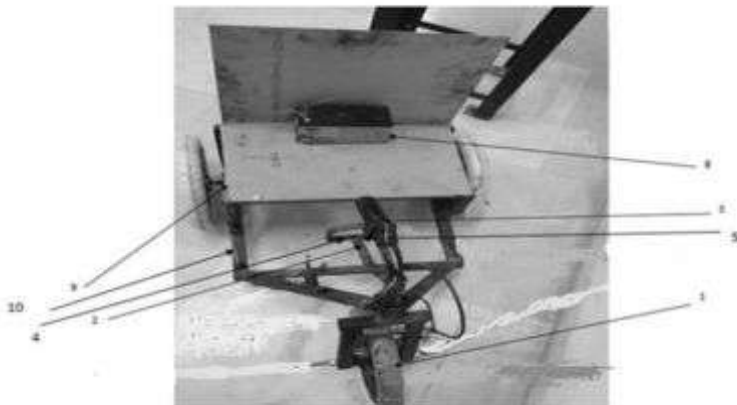
No. of Pages : 9 No. of Claims : 7

(54) Title of the invention : SOLAR DRIVEN TRANSPORTATION DEVICE FOR PHYSICALLY IMPAIRED PEOPLE

(51) International classification	:H02J0007350000, B62M0023020000, A61H0003040000, H01L0031020000, H01L0031052500	(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Abhishek
(33) Name of priority country	:NA	2)Navneet Singh
(86) International Application No	:NA	3)Aman Dahiya
Filing Date	:NA	4)Parish Negi
(87) International Publication No	: NA	5)Shahbaz Juneja
(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 solar driven transportation device for physically impaired people, comprising: multiple wheels 1 attached to the device that moves the device, a set of handles 2, 3 attached to the wheels that controls steering of the device by hands and legs, a set of pedals 4, 5 attached to the wheels that controls the acceleration and braking of the device by legs, a solar panel attached to the device that converts solar energy to electrical energy, a wiper motor 6 attached to the wheels that changes the electrical energy to mechanical energy, a sprocket chain unit 7 attached to the motor that transmits the mechanical energy to wheels, and a battery 8 attached to the device that stores the electrical energy generated by the solar panel.



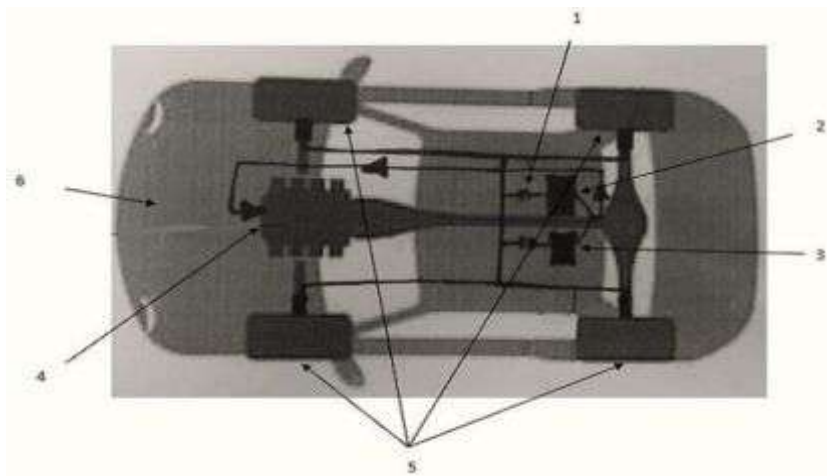
No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : VEHICLE MOUNTED ENERGY CONVERSION DEVICE

(51) International classification	:H02J0007000000, B60K0001020000, H01M0002100000, B60W0010080000, B60K0007000000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Avinash Chandel
(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 energy conversion device, comprising two battery packs for storing electrical energy in the form of chemical energy mounted on a four wheeled electric vehicle 6, a switch 1 connected between two battery packs for interchanging the function of battery pack with each other (i.e. charging and draining of battery packs), a motor 4 connected to one of the battery pack and coupled with axle of electric vehicle 6 for driving vehicle 6, at least four generators 5 connected to other battery pack and coupled with each wheel of vehicle 6 for converting rotational energy of wheel into electrical energy.



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

(54) Title of the invention : SMART INPUT DEVICE

(51) International classification :G06F0003020000,
G09B0021000000,
G06F0021310000,
B41J0003320000,
H04L0029080000

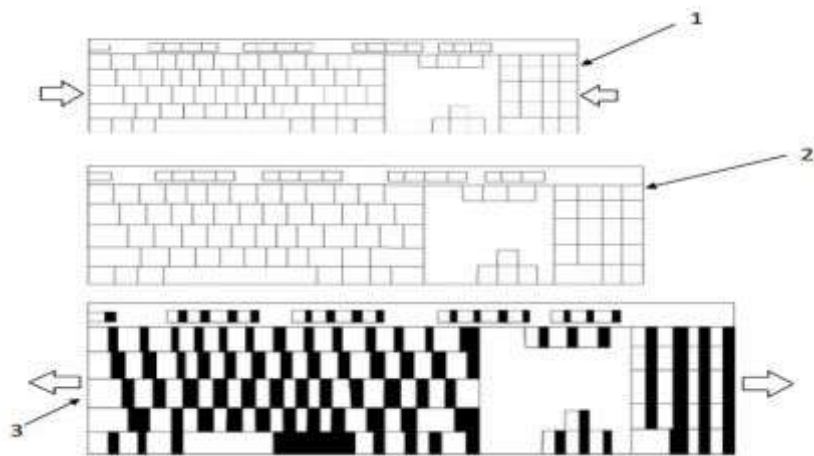
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)Shubham Kr. Singh
2)Rishabh Raj
3)Sachin Kalsi
4)Mayank Kumar
5)Vikas Sharma

(57) Abstract :

The present invention relates to a user input device more particularly, a keyboard comprises of expandable and contractible frame for large and short palm size users respectively. The device also comprises foldable and expendable keys embedded in it. When user expand the device the size of keys also extends and make typing convenient for large palm user and when the device is contracted the size of keys also contracted and makes typing easy for short palm user. The keys of device have braille language for low vision and blind users. A sensor is installed in the device for sensing the presence of the user nearer to the device and provides signal to control unit regarding the user presence, the control unit controls the turning on and off of backlight and reduce the energy consumption of device.



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

(54) Title of the invention : LED LIGHTING SYSTEM

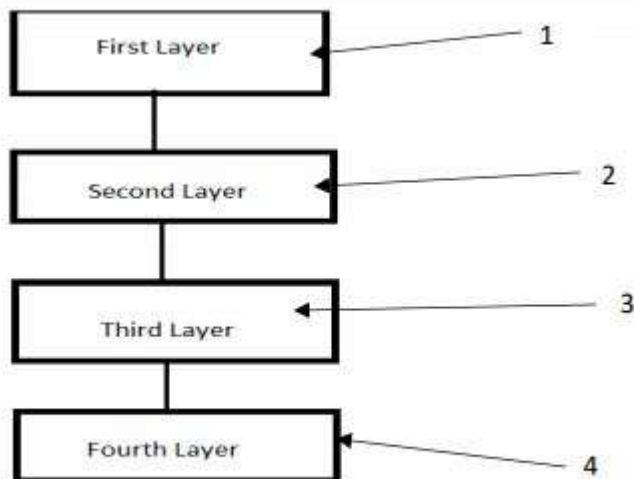
(51) International classification	:H05K0001020000, H05B0033080000, F21V0007000000, H05K0001180000, H01R0013504000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent 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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(72)**Name of Inventor :**
1)Srikurthi Pranavi
2)Metta Jagadeesh
3)Manisha Malhotra
4)Harjeet Kaur

(57) Abstract :

The present invention relates to a three dimensional LED lighting system, comprising a holder that is fixed firmly in a wall for supporting and holding a three dimensional printed circuit board (PCB), the printed circuit board (PCB) includes four layers placed one over another, wherein a first layer is a replaceable outer cover, a second layer employs internet of things (IOT) for connecting and accessing the LED lighting system to a user interface, a third layer consists of number of color changing LEDs and a fourth layer for providing input to the LEDs, a battery backup for delivering power to LEDs in case of main supply power interruption.



No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911029606
A

(19) INDIA

(22) Date of filing of Application :22/07/2019

(43) Publication Date : 22/01/2021

(54) Title of the invention : VEHICLE RIDER SAFETY SYSTEM

(51)
International :A63B0024000000,F41A0017060000,B62J0099000000,A42B0003040000,H04B0001380500
classification
(31) Priority
Document :NA
No
(32) Priority :NA
Date
(33) Name
of priority :NA
country
(86)
International
Application :NA
No :NA
Filing
Date
(87)
International : NA
Publication
No
(61) Patent
of Addition
to
Application :NA
Number :NA
Filing
Date
(62)
Divisional to
Application :NA
Number :NA
Filing
Date

(71)**Name of Applicant :**
1)Chandigarh University
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Highway, Mohali, Punjab - 140413,
India. Punjab India
(72)**Name of Inventor :**
1)Lavi Pratap
2)Shashank Dwivedi
3)Yogendra Narayan

(57) Abstract :

The present invention relates to a vehicle rider safety system, comprising at least two sensors 1 mounted on a handle bar 2 of a two wheeled vehicle, a GPS module in connection with a microcontroller 3 for detecting the speed of said vehicle, a microcontroller 3 to receives signal from the sensors 1 and GPS module, a GSM module linked with the microcontroller 3, a user interface in communication with the GSM module, and a display unit 4 linked to the GSM module to display message sent by the authorized person.



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

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

(51) International classification :A61B0005151000,
H02N0002180000,
A61B0005150000,
H01M0010420000,
A61H0001000000

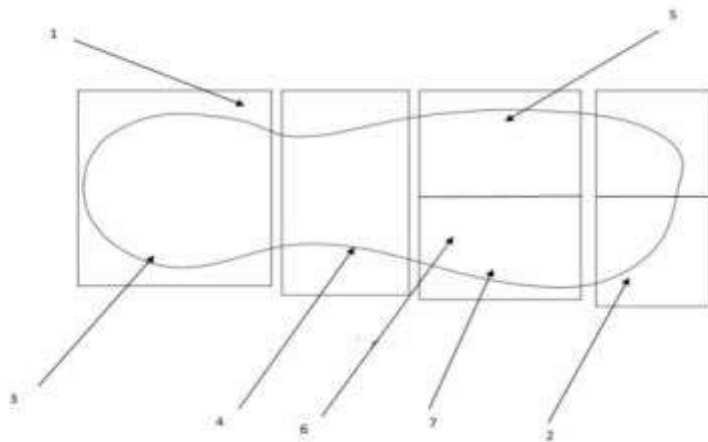
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Chandigarh University
Address of Applicant :National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)**Name of Inventor :**
1)Rashmi Singh
2)Akhil Nigam
3)Vikas Wasson
4)Monti Raj

(57) Abstract :

The present invention relates to a smart health monitoring device for minimizing the chances of the heart issues and strokes due to excessive increase in blood pressure of the person. The device 1 comprising a blood pressure sensor 2 attached to a first side of the device that senses the high blood pressure by passing an infrared light into bloodstream and identifies the changes in the intensity of the light, a piezoelectric generator 3 attached to a second end of the device that generates electric energy with applied pressure, a battery 4 attached to the generator that stores the electric energy, a lancet unit 5 having multiple nanobots that injects the nanobots present in the bloodstream of the person, a microcontroller 6 connected to the sensor for actuating the solenoid upon detection of the high blood pressure, and a GPS and monitoring unit 7 for forwarding the location of the person during the emergency.



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

(54) Title of the invention : SOLAR POWERED VAPOUR CONDENSATION DEVICE

(51) International classification :F25B0021020000,
E03B0003280000,
B01D0005000000,
H05K0007200000,
A01G0009240000

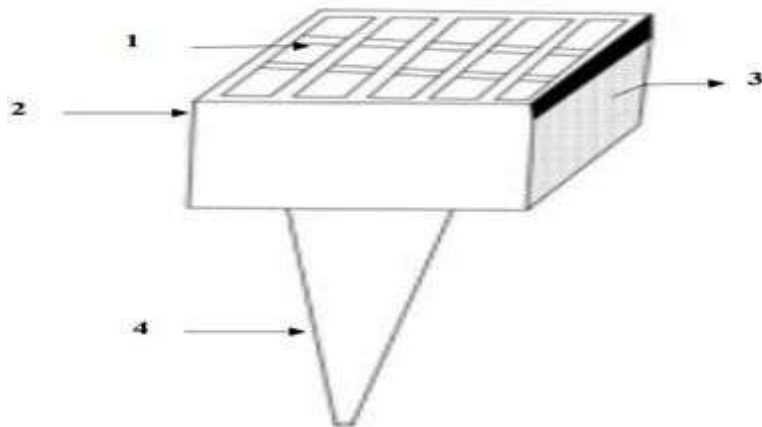
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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Address of Applicant :National Highway 95, Chandigarh-
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(72)**Name of Inventor :**
1)Avinash Chandel

(57) Abstract :

The present invention relates to a solar powered vapour device, comprising a solar power unit 1 attached on a frame 2 to convert solar power into electrical power, a fan 5 installed below the solar power unit 1 to enter air into the device, peltier modules 6 installed on sides of the frame having a hot side and a cold side, multiple fins 3 attached on the hot side of the peltier modules 6 to dissipate heat into the atmosphere, a mesh 7 provided on the colder side of the peltier modules 6 to collect water, and a nozzle 4 attached to the device for dispensing the collected water.



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

(54) Title of the invention : LOAD ANCHORING SYSTEM

(51) International classification :F16M0011180000,
F16M0011120000,
B60K0007000000,
E04G0003280000,
B62B0005000000

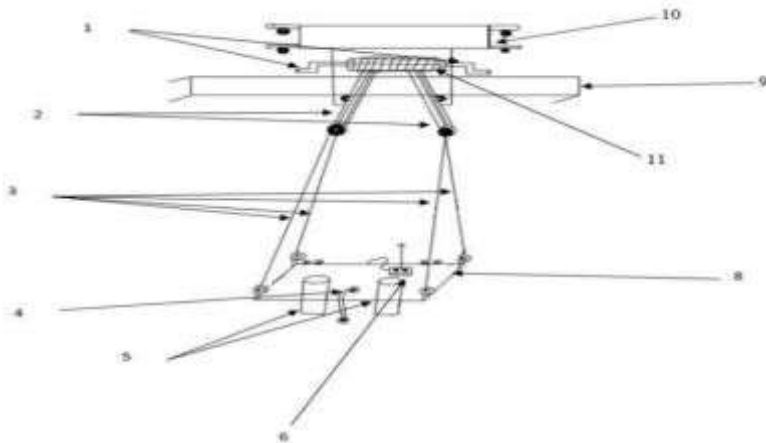
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)Alok Barwal

(57) Abstract :

The present invention relates to a load rising and lowering system comprising, a roller 11 mounted on roof 9 of a structure for winding ropes around it, two mechanical levers 1 for manually controlling roller 11, at least two arms 2 attached to roller 11 for providing anchoring and support to a platform 8, plurality of ropes 3 attached between arms 2 and motor 7 for providing up and down motion of platform 8, remote controller 6 for controlling motor 7 for one axis direction of platform 8, multiple containers 5 and boxes for holding specialized tools and gears for workers, a counter weight 10 to provide a counter balance to hanging platform 8, multiple wheels attached to counter weight 10 for providing left and right movement to hanging platform.



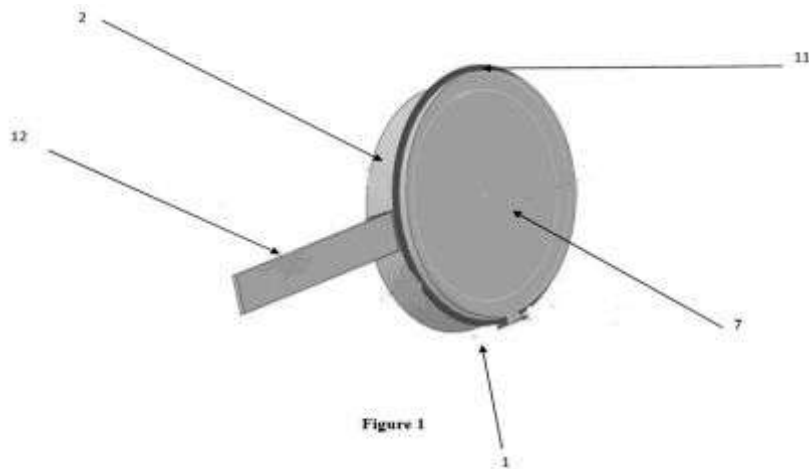
No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : APPARATUS FOR PREVENTING SPILLING OF BEVERAGES

(51) International classification	:E05B0017140000, B05B0007020000, B01D0029050000, G06F0016230000, C23C0014560000	(71) Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Aniket Yadav
(33) Name of priority country	:NA	2)Jatinder Kaur
(86) International Application No	:NA	3)Akash Tiwary
Filing Date	:NA	4)Raman Kumar
(87) International Publication No	: NA	5)Jasgurpreet Singh Chohan
(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 apparatus 1 for preventing spilling of beverages, comprising a beaker 2 for reserving the beverages, wherein the beaker incorporates at least two locks 3, 4, wherein the one of the lock 3 consists of a hole 5 and a strainer 6 for filtering and pouring out the beverages, a detachable cover plate 7 having two locks 8, 9 which are engaged with the locks of the beaker, wherein the one of the lock 8 of the cover plate encompasses a hole 10 for passing the liquid coming from the strainer 6 and a gasket 11 interlinked to the cover plate 7 and the beaker 2 for protecting the leakage of the beverages.



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

(54) Title of the invention : PORTABLE DEVICE FOR HEATING AND PURIFYING LIQUID

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:H02J0007000000, B01D0001000000, H04B0003540000, A61N0001360000, A61N0001080000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)Chandigarh University Address of Applicant :National Highway 95, Chandigarh- Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India</p> <p>(72)Name of Inventor : 1)Deepak Kumar 2)Keshav Raghav 3)Divyanshu Raj 4)Suddha Swattwa Chaudhuri</p>
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(57) Abstract :

The present invention relates to a portable device for heating and purifying liquid, comprising a nano-liquid purifier 1 attached to first end of the device that removes impurities from the liquid, a Teflon sheet 2 installed in the device that acts as a non-stick coating of the device, an Mu metal alloy sheet 3 attached to the Teflon sheet that shields other electronic equipments against low and static frequency magnetic fields, an aluminum sheet 4 sandwiched between Teflon and Mu metal alloy sheet that heat liquid inside the device, a battery 5 attached to last end of the device that stores power for the operation of the device, a regulator 6 connected to the battery that regulates amount of electric current for charging the battery, and a charging unit 7 connected to the regulator that provides electrical current to charge the battery.

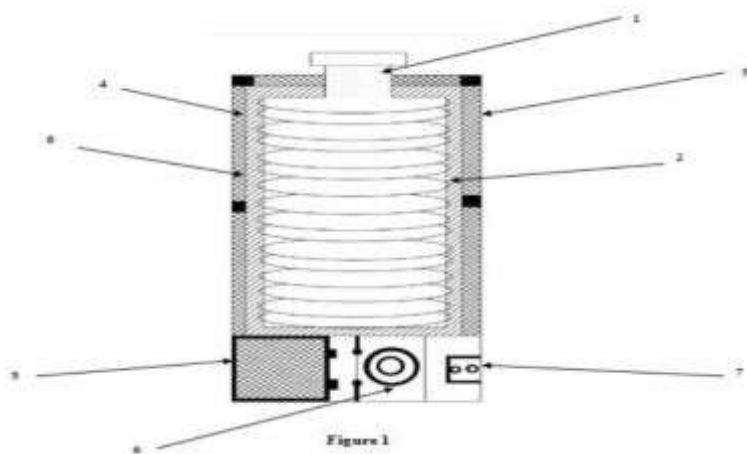


Figure 1

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

(54) Title of the invention : VEHICLE SUSPENSION APPARATUS

(51) International classification :B60G0017020000,
B60G0011160000,
F16F0003020000,
F16F0001180000,
B60W0050140000

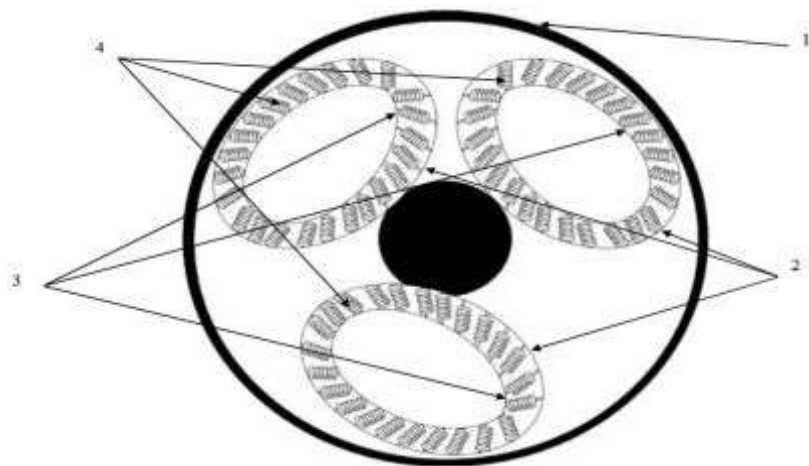
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Chandigarh University
Address of Applicant :National Highway 95, Chandigarh-
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(72)**Name of Inventor :**
1)Avinash Chandel

(57) Abstract :

The present invention relates to a vehicle suspension apparatus, comprising rims 1 for providing support to wheels of the vehicle, springs 4 for absorbing jerk upon passing of the wheel through potholes, at least three set of rings 2, 3 for holding the spring 4, wherein the rings 2, 3 also supports the springs 4 by performing bending action during the jerk.



No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : LIQUID PURIFICATION SYSTEM

(51) International classification :C02F0001440000,
C02F0001460000,
C02F0001461000,
C02F0001480000,
C02F0001020000

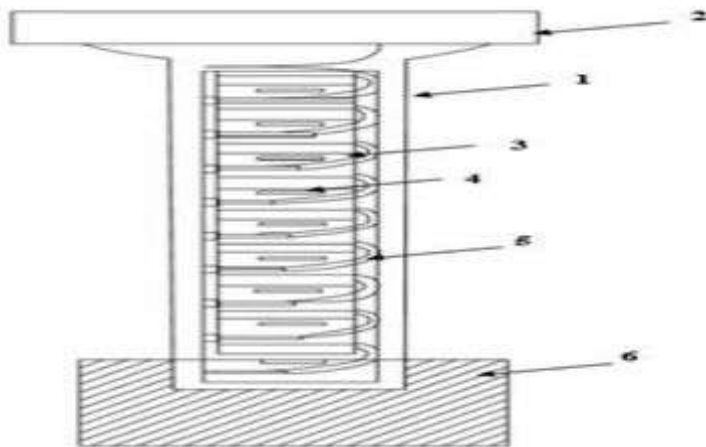
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Address of Applicant :National Highway 95, Chandigarh-
Ludhiana Highway, Mohali, Punjab - 140413, India. Punjab India

(72)Name of Inventor :
1)Sarthak Pant
2)Akash Tiwary
3)Abhishek Sharma

(57) Abstract :

The present invention relates to a liquid purification system, comprising a housing 1 attached to basin 2 for redirecting waste water, a plurality of physical filters 3 embedded inside housing 1, wherein the filters 3 are used for purifying the waste water, an electric coil 5 installed in a same housing 1 for heating a purified water, wherein a power supply unit is attached to electric coil 5 for heating purified water and a container 6 is attached to housing 1 for storing purified water or heated water that can be further used for washing utensils during winters.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201913028600 A

(19) INDIA

(22) Date of filing of Application :16/07/2019

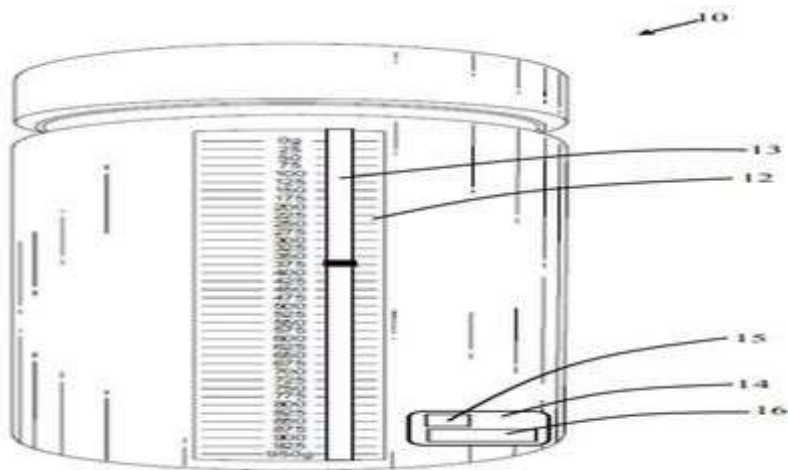
(43) Publication Date : 22/01/2021

(54) Title of the invention : A SALT DISPENSER WITH MEASURING SCALES, A FORTIFIED SALT TASTE ENHANCER COMPOSITION AND METHOD OF PREPARING THE SAME

(51) International classification	:A23L0027400000, A23L0005000000, A61K0031700400, B05D0005080000, A61K0047020000	(71) Name of Applicant : 1)ALOK GOEL Address of Applicant :3Q/103, Gurjinder Vihar, AWHO Township, Sector Chi, P5, Greater Noida 201310, Uttar Pradesh, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ALOK GOEL
(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	:	
Filed on	:01/01/1900	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The embodiments herein relate to a container for measuring, monitoring and comparing an intake of a composition. The composition comprises liquid or solid composition. The liquid composition is a fortified salt composition. The solid composition comprises common salt or refined sugar. The present invention is basically designed for measuring salt or sugar added in the food in the kitchen. The present invention keeps a track of the intake of discretionary salt or sugar. The present invention comprises a unique container or jar or dispenser that is marked or labelled with a reverse measuring (Bulk density) scales for salt or sugar. The reverse measuring scales starts with zero g on the top and 1000 g in case of 1 kg jar at the bottom.



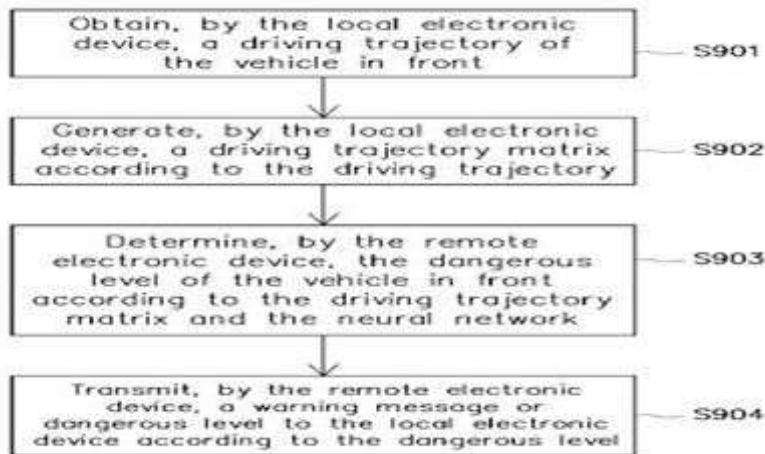
No. of Pages : 27 No. of Claims : 6

(54) Title of the invention : DRIVING ALARM SYSTEM, DRIVING ALARM METHOD AND ELECTRONIC DEVICE USING THE SAME

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country/region</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G08G0001160000, G08B0021020000, G08B0021180000, G08B0025080000, B60L0003040000</p> <p>:108125821</p> <p>:22/07/2019</p> <p>:Taiwan</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 :</p> <p>1)WISTRON CORPORATION Address of Applicant :21F, NO. 88, SEC. 1, HSINTAI 5TH RD., HSICHIH, NEW TAIPEI CITY 22181, TAIWAN</p> <p>(72)Name of Inventor :</p> <p>1)FAN, JIA-CYUAN 2)YEH, CHI-HSIANG 3)HO, MANG-CHIA</p>
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(57) Abstract :

A driving alarm system (10), a driving alarm method and an electronic device (100) using the same are provided. The driving alarm method includes: obtaining a driving trajectory of a vehicle in front (400); generating a driving trajectory matrix (51) according to the driving trajectory; and outputting a warning message according to a dangerous level corresponding to the driving trajectory matrix (51).



No. of Pages : 35 No. of Claims : 10

(54) Title of the invention : ELECTRONIC DEVICE

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country/region</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number:</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G06F0003044000, G06F0001160000, H01Q0001240000, B32B0015020000, B01D0053320000</p> <p>:TW 108124878</p> <p>:15/07/2019</p> <p>:Taiwan</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)AU OPTRONICS CORPORATION Address of Applicant :NO. 1, LI-HSIN ROAD 2, SCIENCE-BASED INDUSTRIAL PARK, HSIN-CHU, TAIWAN</p> <p>(72)Name of Inventor : 1)YA-TING CHEN 2)SHENG-WEN CHENG</p>
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(57) Abstract :

An electronic device is provided. The electronic device includes a first metal mesh layer, a second metal mesh layer and an insulator. The first metal mesh layer is made up of a plurality of first electrode pattern units. The second metal mesh layer is disposed on one side of the first metal mesh layer, and is made up of a plurality of second electrode pattern units and a plurality of third electrode pattern units. The pattern of the second electrode pattern units and the pattern of the first electrode pattern units are at least partially identical in shape. The insulator is at least partially disposed between the first metal mesh layer and the second metal mesh layer. On a virtual projection surface parallel to the first metal mesh layer, a first vertical projection range projected from the shape of a first electrode pattern units distribution area and a second vertical projection range projected from the shape of a second electrode pattern units distribution area are staggered.

No. of Pages : 35 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014023752 A

(19) INDIA

(22) Date of filing of Application :05/06/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : IMAGING APPARATUS AND ELECTRONIC DEVICE

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71) Name of Applicant : 1)ZHEJIANG SUNNY OPTICAL CO., LTD Address of Applicant :No. 66-68 Shunyu Road, Yuyao, Ningbo City, Zhejiang Province 315400, China China
(31) Priority Document No	:201910651695.2	(72) Name of Inventor :
(32) Priority Date	:18/07/2019	1)ZHAO, Liefeng
(33) Name of priority country	:China	2)LU, Jia
(86) International Application No	:NA	3)TANG, Mengna
Filing Date	:NA	4)WENREN, Jianke
(87) International Publication No	: NA	5)DAI, Fujian
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses an imaging apparatus and an electronic device. The imaging apparatus includes a macro lens group, a wide-angle lens group, and a telephoto lens group. An effective focal length f_A of the macro lens group, an effective focal length f_B of the wide-angle lens group and an effective focal length f_C of the telephoto lens group satisfy: $f_A < f_B < f_C$, $0.20 < f_A/f_B < 0.80$ and $0.10 < f_A/f_C < 0.50$.

No. of Pages : 54 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014026763 A

(19) INDIA

(22) Date of filing of Application :24/06/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A METHOD AND AN ARRANGEMENT FOR ELEVATOR GUIDE RAILINSTALLATION

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71) Name of Applicant : 1)KONE Corporation Address of Applicant :Kartanontie 1, 00330 Helsinki, Finland Finland
(31) Priority Document No	:19186453.7	(72) Name of Inventor :
(32) Priority Date	:16/07/2019	1)M.,KINEN, Harri
(33) Name of priority country	:EPO	2)HAAG, Mikael
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 method comprises measuring the shaft (20) with measuring equipment (800) from a movable transport platform (500), whereby the form of the shaft and the position of the fastening points for the guide rails (25) is determined based on the information received in the measurement phase, attaching fastening brackets (50) to the guide rail elements and adjusting the fastening brackets based on the measurement results before the installation of the guide rails takes place so that the guide rail elements provided with the fastening brackets can be lifted in the shaft and attached to the fastening points without further adjustment of the fastening brackets.

No. of Pages : 44 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014026945 A

(19) INDIA

(22) Date of filing of Application :25/06/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : AN ELEVATOR GUIDE RAIL ELEMENT

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71) Name of Applicant : 1)KONE Corporation Address of Applicant :Kartanontie 1, 00330 Helsinki, Finland Finland
(31) Priority Document No	:19186420.6	(72) Name of Inventor :
(32) Priority Date	:16/07/2019	1)HAAG, Mikael
(33) Name of priority country	:EPO	2)M.,KINEN, Harri
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 elevator guide rail element comprises a guide rail element (25) having a first jointing clamp (100) attached to a lower end of the guide rail element and a second jointing clamp (200) attached to an upper end of the guide rail element. The first and the second jointing clamp forms a plug-in joint between the first and the second jointing clamp and thereby between two consecutive guide rail elements when the first and the second jointing clamp are connected to each other.

No. of Pages : 25 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014027788 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : FUNCTIONAL CHROMIUM ALLOY PLATING FROM TRIVALENT CHROMIUM ELECTROLYTES

(51) International classification	:C25D0005180000, C25D0003060000, C25D0003560000, C25D0003100000, C25D0003540000	(71) Name of Applicant : 1)The Boeing Company Address of Applicant :100 North Riverside Plaza, Chicago, IL 60606-2016, U.S.A. U.S.A.
(31) Priority Document No	:16/515,145	(72) Name of Inventor :
(32) Priority Date	:18/07/2019	1)IJERI, Vijaykumar
(33) Name of priority country	:U.S.A.	2)GAYDOS, Stephen P.
(86) International Application No	:NA	3)MOHAN, Subramanian
Filing Date	:NA	
(87) 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 electrolyte solutions for electrodeposition of chromium-iron alloys and methods of electrodepositing chromium-iron alloys. An electrolyte solution for electroplating can include a trivalent chromium salt, an oxalate compound, an iron salt, an aluminum sulfate, an alkali metal sulfate, and an alkali metal halide. An electrolyte solution can be formed by dissolving a trivalent chromium salt, an oxalate compound, an iron salt, an aluminum sulfate, an alkali metal sulfate, and an alkali metal halide in water or an aqueous solution. Electrodepositing chromium-iron alloys on a substrate can include introducing a cathode and an anode into an electrolyte solution comprising a trivalent chromium salt, an oxalate compound, an iron salt, an aluminum sulfate, an alkali metal sulfate, and an alkali metal halide. Electrodepositing can further include passing a current between the cathode and the anode through the electrolyte solution to deposit chromium and iron onto the cathode.

No. of Pages : 45 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014028538 A

(19) INDIA

(22) Date of filing of Application :04/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SMART MONITORING & CONTROLLING UNIT AND PUMP INCLUDING THE SAME •

(51) International classification	:F04D0015020000, E02F0009260000, A63B0024000000, A61B0005200000, F04D0015000000	(71) Name of Applicant : 1)HASUH INDUSTRIES CORPORATION Address of Applicant :7, Dongnonggong-gil, Dong-myeon, Hwasun-gun, Jeollanam-do, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2019-0087289	(72) Name of Inventor :
(32) Priority Date	:19/07/2019	1)KIM, Sang Kook
(33) Name of priority country	:Republic of Korea	2)KANG, Jeongo
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 smart monitoring & controlling unit and a pump including the same. The smart monitoring & controlling unit includes: a measurement unit adapted to measure parameters of voltage and current of power supplied from an external power source to a motor through a motor control panel or a pump station control unit, and temperature and humidity of the motor to monitor and control a motor and a pump; a setting unit adapted to set control ranges of each of the parameters; and a monitoring & controlling unit adapted to measure each of the parameters in real time before, during and after operation of the motor and the pump, to convert analog data into digital data, to store the digital data, to compare the data with preset parameters, to calculate parameters, to determine abnormality of the calculated parameters, to announce an alarm based on the calculated parameters, to display the calculated parameters, to control the motor to be continuously operated or stopped, to correct the preset parameters at a work site, to display results on a display unit in real time, and to transmit the results to a central control unit, the pump station control unit and/or a remote location through wired/wireless communication.

No. of Pages : 66 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014028629 A

(19) INDIA

(22) Date of filing of Application :06/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : EXHAUST PASSAGE STRUCTURE OF ENGINE •

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71) Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2019-132834	(72) Name of Inventor : 1)Takuya KANAI
(32) Priority Date	:18/07/2019	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

] To provide an exhaust passage structure of an engine capable of preventing deterioration of an exhaust sensor and improving detection accuracy of the exhaust sensor. [Solution] A connection passage forming member 32 that forms a connection passage 32A curved from an exhaust outlet 20C of a turbine housing 20A and extending downward is provided between the exhaust outlet 20C and a catalyst 30C and the connection passage 10 forming member 32 includes a wall portion 32C on the side opposite to a curved center C of the connection passage 32A. The wall portion 32C includes a first flat portion 32D inclined so as to be away from the turbine housing 20A as it goes from an upper side to a lower side, a curved portion 32E of a lower end portion of the first flat portion 32D, and a second flat portion 32F connected to the first flat portion 32D through the curved portion 15 32E and extending outward in relation to an extension surface E of the first flat portion 32D and an exhaust sensor 35 is provided in the second flat portion 32F. [Selected figure] Fig. 5

No. of Pages : 22 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014028779 A

(19) INDIA

(22) Date of filing of Application :07/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : LUGGAGE NETS IN THE VEHICLE ROOF OF ROAD CONSTRUCTION MACHINES •

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71) Name of Applicant : 1)Joseph Vgele AG Address of Applicant :Joseph-Vgele-Strae 1, 67067 Ludwigshafen/Rhein, Germany Germany
(31) Priority Document No	:202019103991.4	(72) Name of Inventor :
(32) Priority Date	:19/07/2019	1)Tom GL-CKNER
(33) Name of priority country	:Germany	2)Maximilian THEOBALD
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 road construction machine (1) in the form of a road finisher (2) or a feeder vehicle (3) with a chassis (4) and a driver's cab (5) with a vehicle roof (6). According to the invention, one or more luggage nets (8) are attached to the vehicle roof (6) of the road construction machine (1)

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014028815 A

(19) INDIA

(22) Date of filing of Application :07/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A METHOD AND AN ARRANGEMENT FOR INSTALLING ELEVATOR GUIDE RAILS INTO AN ELEVATOR SHAFT

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71) Name of Applicant : 1)KONE Corporation Address of Applicant :Kartanontie 1, 00330 HELSINKI, Finland Finland
(31) Priority Document No	:19186434.7	(72) Name of Inventor :
(32) Priority Date	:16/07/2019	1)HAAG, Mikael
(33) Name of priority country	:EPO	2)M.,KINEN, Harri
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 method comprises installing a lowermost first section of guide rail elements (25), moving a guide rail element upwards along a row of already installed guide rail elements with a transport apparatus (600), connecting the guide rail element to an upper end of the row of already installed guide rail 10 elements and attaching the guide rail element to a wall (21) of the shaft from a transport platform (500), moving the transport apparatus downwards along the row of already installed guide rails in order to fetch a new guide rail element.

No. of Pages : 25 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014028947 A

(19) INDIA

(22) Date of filing of Application :08/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SMART MONITORING & CONTROLLING TYPE PUMP GATE

(51) International classification	:G05B0015020000, H04Q0009000000, G01M0099000000, B25B0023147000, C23C0014540000	(71) Name of Applicant : 1)HASUH INDUSTRIES CORPORATION Address of Applicant :7, Dongnonggong-gil, Dong-myeon, Hwasun-gun, Jeollanam-do, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2019-0087290	(72) Name of Inventor : 1)KIM, Sang Kook
(32) Priority Date	:19/07/2019	
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 smart monitoring & controlling type pump gate including a pump disposed in a gate and an opening & closing unit opening or closing the gate. The smart monitoring & controlling type pump gate includes: a measurement unit adapted to measure parameters of voltage and current of power supplied from an external power source to a motor through a motor start-up panel or a pump gate control unit, and temperature and humidity of the motor to monitor and control a motor and a pump; a setting unit adapted to set control ranges of each of the parameters; and a monitoring & controlling unit adapted to measure each of the parameters in real time before, during and after operation of the motor and the pump, to convert analog data into digital data, to store the digital data, to compare the data with preset parameters, to calculate parameters, to determine abnormality of the calculated parameters, to display an alarm based on the calculated parameters, to display the calculated parameters, to control the motor to be continuously operated or stopped, to correct the preset parameters at a work site, to display results on a display unit in real time, and to transmit the results to a central control unit, the pump gate control unit and/or a remote location through wired/wireless communication. With this structure, the smart monitoring & controlling type pump gate can be systematically monitored and controlled in real time at a work site or a remote location by stably operating the pump according to a control algorithm through a communication module in the monitoring & controlling unit.

No. of Pages : 53 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014029183 A

(19) INDIA

(22) Date of filing of Application :09/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : FILTER FOR WATER PURIFIER AND WATER PURIFIER INCLUDING THE SAME

(51) International classification	:C02F0001000000, C02F0001280000, C02F0001440000, B01D0039200000, C02F0009000000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2019-0088481	(72) Name of Inventor :
(32) Priority Date	:22/07/2019	1)Yuseung CHOI
(33) Name of priority country	:Republic of Korea	2)Sangduck LEE
(86) International Application No	:NA	3)Suhye WOO
Filing Date	:NA	
(87) 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 :

ABSTRACT FILTER FOR WATER PURIFIER AND WATER PURIFIER INCLUDING THE SAME A filter for a water treatment apparatus includes a filter housing that defines an inlet of the filter and an outlet of the filter, and a filter module disposed inside the filter housing and configured to purify water received through the inlet and supply purified water to the outlet. The filter module includes a carbon block that has a hollow tube-shape and that comprises a mixture of activated carbon and a binder, and a non-woven fabric that surrounds an outer circumferential surface of the carbon block, the non-woven fabric comprising an electrostatic attraction material. The filter module is configured to receive water through the inlet, transmit the water through the non-woven fabric and the carbon block in sequence to thereby purify the water, and then discharge the purified water to the outlet of the filter.

No. of Pages : 37 No. of Claims : 20

(54) Title of the invention : MOUNTING AND LOCKING MECHANISM, CASING, AND WEARABLE DEVICE

(51) International classification :G06F0001160000,
E05B0073000000,
H01R0012720000,
F16B0002100000,
H01H0027000000

(31) Priority Document No :201910635893.X

(32) Priority Date :15/07/2019

(33) Name of priority country :China

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

(87) International Publication No : NA

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

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

(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
China

(72)Name of Inventor :
**1)XUE, YUEGE
2)HU, JIANGHUA**

(57) Abstract :

A mounting and locking mechanism, a casing, and a wearable device (10) are provided. The mounting and locking mechanism includes a mounting bracket (200) and a locking assembly (400). The mounting bracket (200) is provided with a mounting space (210) including a first insertion slot (211) and an accommodation slot (212). The accommodation slot (212) has a first slot wall (212a) provided with a first opening (2121) communicating with the first insertion slot (211). The locking assembly (400) includes a movable member (410) and a first locking member (420). The movable member (410) is received in the accommodation slot (212). The movable member (410) is movable between a first position and a second position. In the first position, the movable member (410) abuts the first locking member (420) to drive part of the first locking member (420) to pass through the first opening (2121) to be positioned in the first insertion slot (211). In the second position, the first locking member (420) can be withdrawn from the first insertion slot (211).

No. of Pages : 39 No. of Claims : 15

(54) Title of the invention : DEVICE FOR APPLYING MARKING TUBES ONTO A CABLE

(51) International classification	:G06F0017210000, G06F0017220000, H04W0036220000, G06F0016930000, G06F0017240000	(71) Name of Applicant : 1)KOMAX HOLDING AG Address of Applicant :Industriestrasse 6, CH-6036 DIERIKON, SWITZERLAND Switzerland
(31) Priority Document No	:19305960.7	(72) Name of Inventor :
(32) Priority Date	:19/07/2019	1)DUPONT Maxime
(33) Name of priority country	:EPO	2)HUTZLI Stefan
(86) International Application No	:NA	3)ROUGIER Stphane
Filing Date	:NA	
(87) 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 concerns a device for applying marking tubes onto cables 10 comprising: o a driving mechanism for driving forward a cable to be marked along a driving axis (300), o at least one buffer pipe (42) which can be arranged in a producing position where it is aligned with the driving axis (300), the buffer pipe having 15 dimensions adapted both for a cable to be marked (3) to run through the buffer pipe and for a number of marking tubes to be threaded onto the buffer pipe, o a pushing unit (6) configured for engaging and pushing forward along the driving axis at least one first out marking tube (2a) of the marking tubes threaded on the buffer pipe (42) until this first out marking tube (2a) exits the 20 buffer pipe and is released onto the cable (3). The invention extends to a method for applying marking tubes onto cables using a buffer pipe. The cable is always driven in the same forward direction and there is no limitation concerning neither the length of the cable nor the number and the location of the marking tubes.

No. of Pages : 36 No. of Claims : 16

(54) Title of the invention : MULTILAYER CERAMIC CAPACITOR

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71) Name of Applicant : 1)Murata Manufacturing Co., Ltd. Address of Applicant :10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan Japan
(31) Priority Document No	:2019-131514	(72) Name of Inventor :
(32) Priority Date	:16/07/2019	1)Yuta KUROSU
(33) Name of priority country	:Japan	2)Masahiro WAKASHIMA
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 multilayer ceramic capacitor includes a ceramic multilayer body including ceramic layers and internal electrodes as being layered and including main surfaces, side surfaces, and end surfaces, a conductor layer formed to cover each of the end surfaces of the ceramic multilayer body and electrically connected to the internal electrodes, an insulating layer formed to cover the conductor layer, and an external electrode electrically connected to the conductor layer. The conductor layer includes a portion that extends to a part of each of the main surfaces of the ceramic multilayer body.

No. of Pages : 35 No. of Claims : 11

(54) Title of the invention : OPTICAL IMAGING LENS ASSEMBLY

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71) Name of Applicant : 1)ZHEJIANG SUNNY OPTICAL CO., LTD Address of Applicant :No. 66-68 Shunyu Road, Yuyao, Ningbo City, Zhejiang Province 315400, China China
(31) Priority Document No	:201910634107.4	(72) Name of Inventor :
(32) Priority Date	:15/07/2019	1)FENG, Tao
(33) Name of priority country	:China	2)ZHAO, Liefeng
(86) International Application No	:NA	3)DAI, Fujian
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses an optical imaging lens assembly which includes, sequentially from an object side to an image side along an optical axis, a first lens having a refractive power with a concave image-side surface; a second lens having a refractive power; a third lens having a positive refractive power; a fourth lens having a refractive power; a fifth lens having a positive refractive power with a convex image-side surface; and a sixth lens having a positive refractive power with a convex object-side surface and a concave image-side surface, wherein half of a maximum field-of-view angle HFOV of the optical imaging lens assembly satisfies: $HFOV > 55^\circ$, and a distance TTL from an object-side surface of the first lens to an imaging plane of the optical imaging lens assembly along the optical axis and half of a diagonal length $ImgH$ of an effective pixel area on the imaging plane of the optical imaging lens assembly satisfy: $1.2 < TTL/ImgH < 2.3$.

No. of Pages : 33 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014029874 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD TO CONTROL A HIGH-PRESSURE FUEL PUMP FOR A DIRECT INJECTION SYSTEM

(51) International classification	:F02D0041380000, F02M0063020000, F02M0055020000, F02M0059360000, F02D0041240000	(71) Name of Applicant : 1)MARELLI EUROPE S.p.A. Address of Applicant :20011 CORBETTA (MI) / Viale Aldo Borletti, 61/63, Italy Italy
(31) Priority Document No	:102019000012300	(72) Name of Inventor :
(32) Priority Date	:18/07/2019	1)Marco PAROTTO
(33) Name of priority country	:Italy	2)Matteo DE CESARE
(86) International Application No	:NA	3)Marco MORELLI
Filing Date	:NA	4)Giovanni PRODI
(87) International Publication No	: NA	5)Tommaso CARDELLINI
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHOD TO CONTROL A HIGH-PRESSURE FUEL PUMP FOR A DIRECT INJECTION SYSTEM • The invention relates to a method to control a fuel pump (4) for a direct injection system of a heat engine (1) provided with a common rail (3) comprising the steps of determining a minimum threshold (QMIN) based on the pressure (PRAIL) in the common rail (3) and on the speed (n) of the heat engine (1), on the temperature (TPUMP) of the high-pressure pump (4) and on the inlet pressure (PLOW) of the high-pressure pump (4); calculating the objective fuel flow rate (Mref) to be fed by the high-pressure pump (4) to the common rail (3) instant by instant in order to have the desired pressure value (PTARGET) inside the common rail (3); comparing the objective fuel flow rate (Mref) with the minimum threshold (QMIN); and controlling the high-pressure pump (4) based on the comparison between the objective fuel flow rate (Mref) and the minimum threshold (QMIN). Main figure: Figure 2

No. of Pages : 35 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014030111 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : NEW METHANISATION PROCESS

(51) International classification	:G06F0017210000, G06F0017240000, G06F0016930000, B41M0003140000, G06F0017220000	(71) Name of Applicant : 1)LA FERME DE LA TREMBLAYE Address of Applicant :Chemin de la Tremblaye, 78125 LA BOISSIERE ECOLE France France
(31) Priority Document No	:1908056	(72) Name of Inventor :
(32) Priority Date	:17/07/2019	1)CAZAJUS, Henri
(33) Name of priority country	:France	2)CARROUCHE, Baptiste
(86) International Application No	:NA	3)VESCHAMBRE, Cyrille
Filing Date	:NA	
(87) 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 improved methanisation process for the production of biogas from organic effluents, in particular agricultural, by fermentation

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014030221 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : STERILE APPARATUS FOR RAPID COOLING OF HOT WATER

(51) International classification	:F28D0021000000, F28D0001053000, F28D0007100000, F28D0007000000, F28D0001060000	(71) Name of Applicant : 1)Reut Rosenblum Address of Applicant :Petah Tikva Harav Yeshayahu Meshorer 23, 4931924 Israel Israel 2)Yedidya Yochai Van Dijk 3)Mely Rosenbloom
(31) Priority Document No	:16/513,724	(72) Name of Inventor : 1)Reut Rosenblum 2)Yedidya Yochai Van Dijk 3)Eli Rozenblum (Deceased)
(32) Priority Date	:17/07/2019	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus for cooling liquids that includes a tank and cooling flasks are designed to contain coolant material. The tank has a circumferential wall, a bottom and a top opening and each flask has a first wall section that face a first wall section of adjacent flask, a second wall section that face the circumferential wall of the tank. The first wall section of at least one flask has at least one protrusion smaller than 2.5 millimeters. The flasks are designed to be set within the tank in such a way that the protrusions create a gap smaller than 2.5 millimeters between each two adjacent flasks. The total volume of the cooling flasks is three times greater or more than the total volume of the single cooling space.

No. of Pages : 21 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014030350 A

(19) INDIA

(22) Date of filing of Application :16/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DIMETHYLCYCLOBUTANONE COMPOUNDS, DIMETHYLCYCLOBUTANE COMPOUNDS, AND PROCESSES FOR PREPARING THE SAME

(51) International classification	:B41M0005337000, C07C0017040000, C07D0257020000, C07C0069013000, C07F0009400000	(71) Name of Applicant : 1)SHIN-ETSU CHEMICAL CO., LTD. Address of Applicant :6-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo, 100-0004, Japan Japan
(31) Priority Document No	:2019-132136	(72) Name of Inventor :
(32) Priority Date	:17/07/2019	1)ISHIBASHI, Naoki
(33) Name of priority country	:Japan	2)NAGAE, Yusuke
(86) International Application No	:NA	3)KINSHO, Takeshi
Filing Date	:NA	
(87) 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 process for preparing a dimethylcyclobutane compound of the following general formula (1A), the process comprising reacting a dimethylcyclobutanone compound of the following general formula (2) with a phosphonic ester compound of the following general formula (3) to produce an unsaturated ester compound of the following general formula (4), having a dimethylcyclobutane ring, and subjecting the unsaturated ester compound (4), having a dimethylcyclobutane ring, to a reduction reaction to produce the dimethylcyclobutane compound (1A).

No. of Pages : 164 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014030353 A

(19) INDIA

(22) Date of filing of Application :16/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DIESTER COMPOUND HAVING A DIMETHYLCYCLOBUTANE RING, A PROCESS FOR PREPARING THE SAME, AND A PROCESS FOR PREPARING DIMETHYLCYCLOBUTANE COMPOUND DERIVED FROM THE DIESTER COMPOUND

(51) International classification	:C07F0009400000, C08K0005103000, C08F0110140000, C10M0105360000, A61K0031665000	(71) Name of Applicant : 1)SHIN-ETSU CHEMICAL CO., LTD. Address of Applicant :6-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo, 100-0004, Japan Japan
(31) Priority Document No	:2019-132129	(72) Name of Inventor :
(32) Priority Date	:17/07/2019	1)ISHIBASHI, Naoki
(33) Name of priority country	:Japan	2)NAGAE, Yusuke
(86) International Application No	:NA	3)KINSHO, Takeshi
Filing Date	:NA	
(87) 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 process for preparing a diester compound of the following general formula (1), having a dimethylcyclobutane ring, wherein R1 and R2 represent, independently of each other, a monovalent hydrocarbon group having 1 to 10 carbon atoms, the process comprising reacting a dimethylcyclobutanone compound of the following general formula (2), wherein R1 is as defined above, with a phosphonic ester compound of the following general formula (3), wherein R2 and R3 represent, independently of each other, a monovalent hydrocarbon group having 1 to 10 carbon atoms, to produce the diester compound (1), having a dimethylcyclobutane ring.

No. of Pages : 87 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014031423 A

(19) INDIA

(22) Date of filing of Application :22/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A STABLE PROTEIN BEVERAGE COMPOSITION

(51) International classification	:A23L0002660000, A23L0033000000, A23L0033190000, A23L0033210000, A23L0033180000	(71) Name of Applicant : 1)Satish Chander Address of Applicant :26/4, 2nd floor, East Patel Nagar, New Delhi - 110008 Delhi India
(31) Priority Document No	:201911029379	(72) Name of Inventor : 1)Satish Chander
(32) Priority Date	:22/07/2019	
(33) Name of priority country	:India	
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 stable small-volume ready-to-drink protein beverage composition comprising about 8 to 20 g of protein per 150 ml of the composition, wherein said protein comprises a mixture of native micellar casein and partially hydrolysed whey proteins in the weight ratio of about 75:25 to about 85:15 and native casein provides more than 95% of total energy intake.

No. of Pages : 12 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014031439 A

(19) INDIA

(22) Date of filing of Application :22/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : LACQUER COATED BEVERAGE CONTAINER

(51) International classification	:A23L0002660000, A23C0009154000, A23L0033190000, A23J0003080000, A61K0039000000	(71) Name of Applicant : 1)Satish Chander Address of Applicant :26/4, 2nd floor, East Patel Nagar, New Delhi - 110008 Delhi India
(31) Priority Document No	:201911029380	(72) Name of Inventor : 1)Satish Chander
(32) Priority Date	:22/07/2019	
(33) Name of priority country	:India	
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 coated beverage container containing ready-to-drink protein composition comprising native micellar casein, hydrolyzed whey proteins and one or more optional excipients. The said container is coated or lacquered on the inside to prevent any interaction between metal and the protein beverage. It further provides an increased shelf life to beverage composition without a negative influence on product integrity or taste.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014031440 A

(19) INDIA

(22) Date of filing of Application :22/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A METHOD OF PROVIDING NUTRITION TO A PATIENT

(51) International classification	:A23L0002660000, A61M0001160000, A23L0002520000, A23L0033175000, A23L0033000000	(71) Name of Applicant : 1)Satis Chander Address of Applicant :26/4, 2nd floor, East Patel Nagar, New Delhi - 110008 Delhi India
(31) Priority Document No	:201911029381	(72) Name of Inventor : 1)Satis Chander
(32) Priority Date	:22/07/2019	
(33) Name of priority country	:India	
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 method of providing nutrition to a patient undergoing dialysis by compensating the amino acid loss happened during the dialysis process by administering the said patient a small volume ready-to-drink protein beverage composition.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014031441 A

(19) INDIA

(22) Date of filing of Application :22/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PROCESS FOR PREPARATION OF STABLE PROTEIN BEVERAGE COMPOSITIONS

(51) International classification	:A23L0002660000, A23C0011040000, A23L0002680000, A23L0033210000, A23L0029256000	(71) Name of Applicant : 1)Satish Chander Address of Applicant :26/4, 2nd floor, East Patel Nagar, New Delhi - 110008 Delhi India
(31) Priority Document No	:201911029378	(72) Name of Inventor : 1)Satish Chander
(32) Priority Date	:22/07/2019	
(33) Name of priority country	:India	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a process of preparation of stable ready-to-drink protein beverage composition comprising about 8 to 20 g of protein per 150 ml of the composition. The composition so produced is stable without phase separation, creaming, gelation and sedimentation, and retain a constant viscosity over time.

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

(54) Title of the invention : ANTI-AGING AGENT FOR SKIN AND ANTI-AGING-RELATED GENE EXPRESSION REGULATOR

(51) International classification :A61K 8/60, A61K 8/9789, A61K 8/98, A61Q 19/08, A23L 33/10

(31) Priority Document No :2018-138405

(32) Priority Date :24/07/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/027998
Filing Date :17/07/2019

(87) International Publication No :WO 2020/022131

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

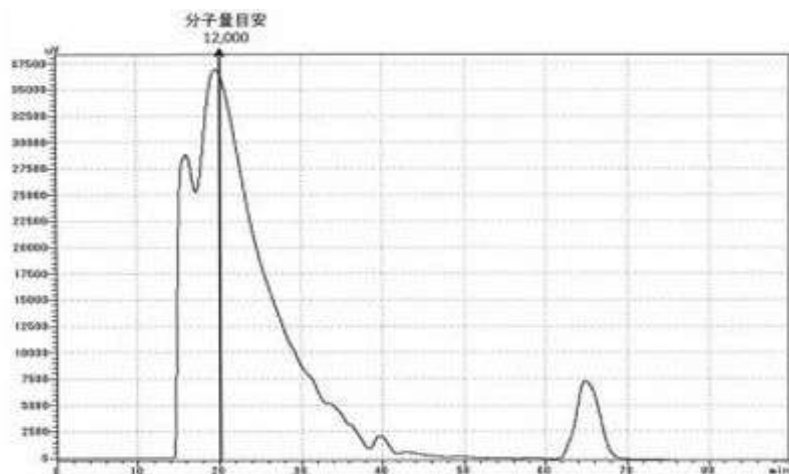
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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 Address of Applicant :12-2, Kita 21-jo Nishi, Kita-ku, Sapporo-shi, Hokkaido 0010021 Japan
2)FINAL FUTURE INTERNATIONAL CO.,LTD.

(72)Name of Inventor :
1)YAMADA, Yoshihisa
2)TADA, Yuya

(57) Abstract :

The problem addressed by the present invention is to provide an anti-aging agent for skin that is highly safe and can be used with confidence over an extended period of time, an anti-aging-related gene expression regulator, and a cosmetic comprising the anti-aging agent or anti-aging-related gene expression regulator. The anti-aging agent for skin, anti-aging-related gene expression regulator, and cosmetic comprising the anti-aging agent or anti-aging-related gene expression regulator of the present invention include, as active ingredients, special low-molecular-weight DNA and soybean extract, preferably soybean sprout extract. Since these active ingredients act to potentiate the function of dermal fibroblasts, they are expected to prevent or improve aging of the skin such as decreased skin tension and elasticity, wrinkles and sagging, etc.



No. of Pages : 31 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017021671 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : SPECTROMETER AND MANUFACTURING METHOD THEREFOR

(51) International classification	:G01N 21/64, G01N 21/01	(71)Name of Applicant : 1)BOE TECHNOLOGY GROUP CO., LTD. Address of Applicant :No. 10 Jiuxianqiao Rd., Chaoyang District Beijing 100015 China
(31) Priority Document No	:201810897371.2	(72)Name of Inventor :
(32) Priority Date	:08/08/2018	1)MENG, Xianqin
(33) Name of priority country	:China	2)DONG, Xue
(86) International Application No	:PCT/CN2019/096571	3)WANG, Wei
Filing Date	:18/07/2019	4)TAN, Jifeng
(87) International Publication No	:WO 2020/029763	5)MENG, Xiandong
(61) Patent of Addition to Application Number	:NA	6)CHEN, Xiaochuan
Filing Date	:NA	7)GAO, Jian
(62) Divisional to Application Number	:NA	8)LIANG, Pengxia
Filing Date	:NA	9)WANG, Fangzhou

(57) Abstract :

Disclosed are a spectrometer and a manufacturing method therefor. The spectrometer comprises: a first base substrate (101); a second base substrate (201) arranged opposite the first base substrate (101); a detection channel (202) located between the first base substrate (101) and the second base substrate (201); a quantum dot light-emitting layer (14) located at one side, close to the second base substrate (201), of the first base substrate (101) and comprising multiple quantum dot light-emitting units (104); a black matrix (102) located at the side, close to the second base substrate (201), of the first base substrate (101) and configured to separate multiple quantum dot light-emitting units (104); and a sensor layer (32) comprising multiple sensors (302), wherein the multiple sensors (302) correspond to the multiple quantum dot light-emitting units (104) on a one-to-one basis.

No. of Pages : 28 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017030117 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD FOR MANUFACTURING 2-CYANOETHYL GROUP-CONTAINING POLYMER

(51) International classification	:C08F 8/30, C08F 16/06, C08F 4/46, C08F 2/38	(71) Name of Applicant : 1)LG CHEM, LTD. Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336 Republic of Korea
(31) Priority Document No	:10-2018-0085442	(72) Name of Inventor :
(32) Priority Date	:23/07/2018	1)LEE, Yong Man
(33) Name of priority country	:Republic of Korea	2)HWANG, Yoontae
(86) International Application No	:PCT/KR2019/008719	3)PARK, Dong Hoon
Filing Date	:15/07/2019	4)RYU, Jin Young
(87) International Publication No	:WO 2020/022681	
(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 2-cyanoethyl group-containing polymer, the method being capable of producing a highly purified 2-cyanoethyl group-containing polymer while reducing the wastewater generation amount by a reduction in the amount of water used during a purification process.

No. of Pages : 22 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017035767 A

(19) INDIA

(22) Date of filing of Application :19/08/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DISPLAY ASSEMBLY INCLUDING ANTENNA AND ELECTRONIC DEVICE INCLUDING THE SAME

(51) International classification :H04M 1/02, H01Q 1/24, H01Q 1/38
(31) Priority Document No :10-2018-0082492
(32) Priority Date :16/07/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2019/008761
Filing Date :16/07/2019
(87) International Publication No :WO 2020/017862
(61) 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)SON, Dongil
2)BYEON, Hyungsup
3)CHO, Chihyun

(57) Abstract :

A display assembly and electronic device are provided. The display assembly includes a display panel including one or more display pixels, a substrate electrically connected with the one or more display pixels and including a first area including at least one of layer of the display panel and a second area extending from the first area to an outside of the display panel, and an antenna configured to be formed in at least part of the second area of the substrate.

No. of Pages : 38 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017040531 A

(19) INDIA

(22) Date of filing of Application :18/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : TRAFFIC MONITORING DEVICE, TRAFFIC MONITORING SYSTEM, TRAFFIC MONITORING METHOD, AND NON-TRANSITORY COMPUTER-READABLE MEDIUM WITH PROGRAM STORED THEREON

(51) International classification :G08G 1/01, G08G 1/04
(31) Priority Document No :2018-066012
(32) Priority Date :29/03/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/012932
Filing Date :26/03/2019
(87) International Publication No :WO 2019/189218
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)NEC CORPORATION
Address of Applicant :7-1, Shiba 5-chome, Minato-ku, Tokyo 1088001 Japan
(72)**Name of Inventor :**
1)YUSA Michihiko

(57) Abstract :

Provided is a traffic monitoring device capable of determining the cause of traffic congestion more reliably. The traffic monitoring device (10) has a vehicle information acquisition unit (11), an additional information acquisition unit (12), a congestion determination unit (13), and a cause determination unit (14). The vehicle information acquisition unit (11) acquires vehicle information pertaining to the travel state of a vehicle from data received from a detection device (20). The additional information acquisition unit (12) acquires additional information pertaining to an object other than a traveling vehicle and present in the vicinity of the traveling vehicle. On the basis of the vehicle information a congestion determination unit (13) determines whether congestion is occurring in each of a plurality of lanes of a road. On the basis of at least the additional information the cause determination unit (14) determines the cause of the congestion for a lane for which it has been determined that congestion is occurring.

No. of Pages : 35 No. of Claims : 10

(54) Title of the invention : ELECTRONIC DEVICE AND FINGERPRINT AUTHENTICATION INTERFACE METHOD THEREOF

(51) International classification:G06F21/32,G06K9/00,G06F21/45
 (31) Priority Document No :10-2018-0023507
 (32) Priority Date :27/02/2018
 (33) Name of priority country :Republic of Korea
 (86) International Application No :PCT/KR2019/002312
 Filing Date :26/02/2019
 (87) International Publication No :WO 2019/168318
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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1)LEE, Jongmoo
2)MOON, Sunhee
3)LEE, Saerom
4)JEONG, Hyesoon
5)LEE, Eunyeung
6)LEE, Jiwoo

(57) Abstract :
 The disclosed electronic device may include a front plate and a rear plate, a touch screen display exposed through a part of the front plate, a fingerprint sensor disposed to overlap a region of the display when viewed from above the front plate, a processor operatively connected to the display and the fingerprint sensor, and a memory operatively connected to the processor. the memory may store instructions that, when executed by the processor, control the electronic device to display a user interface including a first object at a first location of the display, to obtain a gesture input to drag the first object from the first location to the region, to move the first object to the region depending on the gesture input, and to perform authentication using the fingerprint sensor based on the finger being located on the region.

No. of Pages : 34 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041577 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DEVICE AND METHOD FOR ACQUIRING SYSTEM INFORMATION IN WIRELESS COMMUNICATION SYSTEM

(51) International classification :H04B7/08,H04B7/06
(31) Priority Document No :10-2018-0026985
(32) Priority Date :07/03/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2019/002665
Filing Date :07/03/2019
(87) International Publication No :WO 2019/172683
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)JUNG, Doyoung
2)KIM, Bongjin
3)KIM, Taekyoung
4)BAEK, Ingil
5)RYOU, Sangkyou
6)JEONG, Junhee

(57) Abstract :

Disclosed is a 5th generation (5G) or pre-5G communication system for supporting a data transmission rate higher than that of a 4th generation (4G) communication system such as long term evolution (LTE). According to various embodiments, a device of a terminal, in a wireless communication system, can comprise at least one processor and at least one transmission/reception device operatively coupled to the at least one processor. The at least one transmission/reception device receives, from a base station, a first signal transmitted using a first beam of the base station and including system information and receives, from the base station, a second signal transmitted using a second beam of the base station and including the system information, and the at least one processor decodes the second signal in combination with the first signal, thereby enabling the system information to be acquired.

No. of Pages : 45 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041584 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SINGLE DOMAIN ANTIBODIES BINDING TO TETANUS NEUROTOXIN

(51) International classification :C07K16/12
(31) Priority Document No :18161521.2
(32) Priority Date :13/03/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/056299
Filing Date :13/03/2019
(87) International Publication No :WO 2019/175250
(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 :

1)DE SMIT, Abraham Johannes

2)HARMSSEN, Michae<l Marie

(57) Abstract :

The present invention relates to single domain antibodies (SDAs) that are capable of binding to tetanus neurotoxin. The invention further relates to polypeptide constructs comprising such an SDA as well as an SDA that is capable of binding to a serum protein, preferably to serum albumin or immunoglobulin. The invention also relates to nucleic acids encoding such SDAs or polypeptide constructs, to pharmaceutical compositions comprising such SDAs or polypeptide constructs, the medical use thereof and to their use in the treatment of tetanus.

No. of Pages : 89 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041585 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : BIOLOGICALLY RELEVANT ORTHOGONAL CYTOKINE/RECEPTOR PAIRS

(51) International classification :A61K35/17,A61K38/17,A61K38/20
(31) Priority Document No :15/916689
(32) Priority Date :09/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/021451
Filing Date :08/03/2019
(87) International Publication No :WO 2019/173773
(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)SOCKOLOSKY, Jonathan
4)PICTON, Lora
(72)Name of Inventor :
1)GARCIA, Kenan Christopher
2)SOCKOLOSKY, Jonathan
3)PICTON, Lora

(57) Abstract :

Engineered orthogonal cytokine receptor/ligand pairs, and methods of use thereof, are provided.

No. of Pages : 53 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041610 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD OF PRODUCING A FUEL ADDITIVE

(51) International classification :C07C29/04,C10G45/00,C10G47/00
(31) Priority Document No :62/667681
(32) Priority Date :07/05/2018
(33) Name of priority country:U.S.A.
(86) International Application No :PCT/US2019/028092
Filing Date :18/04/2019
(87) International Publication No :WO 2019/217049
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)SABIC GLOBAL TECHNOLOGIES B.V.
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3)ZHANG, Zhonglin
(72)Name of Inventor :
1)ZHANG, Zhonglin
2)ZHANG, Zhonglin
3)ANSARI, Mohammed Bismillah
4)SHAIK, Kareemuddin Mahaboob
5)SHETHNA, Hiren

(57) Abstract :

A method of producing a fuel additive includes: passing a first process stream comprising C4 hydrocarbons through a methyl tertiary butyl ether synthesis unit producing a first recycle stream; passing the first recycle stream through a hydration unit producing the fuel additive and a second recycle stream; passing the second recycle stream through a recycle hydrogenation unit and a deisobutanizer unit; and recycling the second recycle stream to the methyl tertiary butyl ether synthesis unit.

No. of Pages : 16 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041617 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD AND APPARATUS FOR DETECTING A PLURALITY OF TARGET NUCLEIC ACID SEQUENCES IN SAMPLE

(51) International classification	:C12Q1/6823,G16B40/10	(71) Name of Applicant :
(31) Priority Document No	:10-2018-0046375	1)SEEGENE, INC. .
(32) Priority Date	:20/04/2018	Address of Applicant :8FL., 9FL., 91, Ogeum-ro Songpa-gu
(33) Name of priority country	:Republic of Korea	Seoul 05548 Republic of Korea
(86) International Application No	:PCT/KR2019/004780	(72) Name of Inventor :
Filing Date	:19/04/2019	1)KO, Sung Moon
(87) International Publication No	:WO 2019/203623	2)HAN, Ji Hye
(61) Patent of Addition to Application Number	:NA	3)KIM, Young Wook
Filing Date	:NA	4)PARK, Young Yong
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The method of the present invention enables efficient detection of a plurality of target nucleic acid sequences in one detection channel, by obtaining a data set of cycle/signal-change value.

No. of Pages : 105 No. of Claims : 45

(54) Title of the invention : METHOD FOR PRODUCING CONJUGATED-DIENE-BASED COPOLYMER LATEX

(51) International classification :C08F236/04,C08F2/24,G01N30/26
 (31) Priority Document No :2018-066936
 (32) Priority Date :30/03/2018
 (33) Name of priority country :Japan
 (86) International Application No :PCT/JP2019/008934
 Filing Date :06/03/2019
 (87) International Publication No :WO 2019/188074
 (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)NAKAMORI Hiroshi

(57) Abstract :

A method for producing a conjugated-diene-based copolymer latex, comprising a step of performing the emulsion polymerization of a monomer component containing 10 to 80% by mass of an aliphatic conjugated-diene-based monomer, 0.5 to 15% by mass of an ethylenically unsaturated carboxylic acid monomer and 5 to 89.5% by mass of another copolymerizable monomer, wherein the ethylenically unsaturated carboxylic acid monomer comprises itaconic acid which does not show a peak that is detected in a time range between a detection time of 12 minutes and a detection time of 14 minutes in a chromatogram measured under the below-mentioned measurement conditions. <Measurement conditions> The measurement is carried out using a liquid chromatography-corona charged aerosol detector, wherein the concentration of a sample is 1% by mass, the solvent is pure water, the column temperature is 40°C, the mobile phase is an aqueous formic acid solution/acetonitrile, and the feed rate is 0.2 ml/min.

No. of Pages : 24 No. of Claims : 3

(54) Title of the invention : METHODS FOR JOINING BLADE COMPONENTS OF ROTOR BLADES USING PRINTED GRID STRUCTURES

(51) International classification:F03D1/06,B29C64/00,B33Y80/00
 (31) Priority Document No :15/935304
 (32) Priority Date :26/03/2018
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/US2019/024006
 Filing Date :26/03/2019
 (87) International Publication No :WO 2019/191046
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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1)ROBERTS, David
2)ALTHOFF, Nicholas, K.
3)NIELSEN, Michael, Wenani
4)TOBIN, James, Robert
5)MCCALIP, Andrew

(57) Abstract :
 Methods for joining a first blade component and a second blade component of a rotor blade together includes printing and depositing, via a computer numeric control (CNC) device, at least one three-dimensional (3-D) grid structure at a first joint area of the rotor blade. The first joint area contains the first blade component interfacing with the second blade component. The method also includes providing an adhesive at the first joint area to at least partially fill the grid structure. Further, the method includes securing the first blade component and the second blade component together at the first joint area via the adhesive.

No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041666 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SELECTING AND APPLYING METAL OXIDES AND CLAYS FOR PLANT GROWTH

(51) International classification :C02F1/28,C05B19/02,C05D9/02
(31) Priority Document No :62/648066
(32) Priority Date :26/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/024010
Filing Date :26/03/2019
(87) International Publication No :WO 2019/191050
(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)SWISHER, Hunter

(57) Abstract :

A process of plant fertilization includes adsorbing phosphorus from an anthropogenic phosphorus source onto a plurality of particles of phosphorus adsorbent and then applying the plurality of particles of phosphorus adsorbent to a plant medium. A composition includes a soil amendment and a plant medium. The soil amendment includes a plurality of particles of phosphorus adsorbent and phosphorus from an anthropogenic phosphorus source adsorbed onto the particles. A process includes adsorbing a first amount of phosphorus from a phosphorus source onto a plurality of particles of phosphorus adsorbent to saturate the particles of phosphorus adsorbent with phosphorus. The process also includes processing the particles to maintain the first amount of phosphorus on the particles and permit additional adsorption of phosphorus onto the particles. The process further includes adsorbing an additional amount of phosphorus from the phosphorus source onto the particles to saturate the particles with phosphorus.

No. of Pages : 26 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041677 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : STRUCTURED NANOPOROUS MATERIALS, MANUFACTURE OF STRUCTURED NANOPOROUS MATERIALS AND APPLICATIONS OF STRUCTURED NANOPOROUS MATERIALS

(51) International classification :C08J9/26,C08J5/18,C08J7/04
(31) Priority Document No :1804010.5
(32) Priority Date :13/03/2018
(33) Name of priority country :U.K.
(86) International Application No :PCT/JP2019/010416
Filing Date :13/03/2019
(87) International Publication No :WO 2019/177067
(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)ITO,Masateru
3)YAMAMOTO,Daisuke

(57) Abstract :

A method is disclosed for manufacturing a structured polymeric material. In the method, a body is provided comprising a substantially homogenous precursor polymeric material. An interference pattern of electromagnetic radiation is set up within the body to form a partially cross-linked polymeric material, the interference pattern comprising maxima and minima of intensity of the electromagnetic radiation, the interference pattern thereby causing spatially differential cross linking of the precursor polymeric material to form crosslinked regions having relatively high cross linking density and non-crosslinked regions having relatively low cross linking density, the crosslinked regions and non-crosslinked regions corresponding to the maxima and minima of intensity of the electromagnetic radiation, respectively. The partially cross-linked polymeric material is then contacted with a solvent to cause expansion and crazing of at least some of the non-crosslinked regions to form a structured polymeric material containing pores.

No. of Pages : 36 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041678 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PHARMACEUTICAL COMPOSITION INCLUDING SODIUM ALKYL SULFATE

(51) International classification :A61K31/519,A61K9/10,A61K9/14
(31) Priority Document No :2018-051620
(32) Priority Date :19/03/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/011251
Filing Date :18/03/2019
(87) International Publication No :WO 2019/181876
(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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2)MIYAMURA Sadahiro

(57) Abstract :

The present invention addresses the problem of improving elution property and absorption property from an agent of (S)-1-(3-(4-amino-3-((3,5-dimethoxyphenyl)ethyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-1-pyrrolidinyl)-2-propene-1-one which is effective as an anti-tumor agent. Provided is a pharmaceutical composition containing (S)-1-(3-(4-amino-3-((3,5-dimethoxyphenyl)ethyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-1-pyrrolidinyl)-2-propene-1-one in combination with a C10-C18 alkyl group-containing sodium alkyl sulfate, particularly a sodium lauryl sulfate.

No. of Pages : 59 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041679 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : HYDROGEN STORAGE DEVICE AND A METHOD FOR PRODUCING A HYDROGEN STORAGE DEVICE

(51) International classification	:C01B3/00,F17C11/00	(71) Name of Applicant :
(31) Priority Document No	:10 2018 104 830.0	1)GKN SINTER METALS ENGINEERING GMBH
(32) Priority Date	:02/03/2018	Address of Applicant :Krebsge 10 42477 Radevormwald
(33) Name of priority country	:Germany	Germany
(86) International Application No	:PCT/EP2019/054752	(72) Name of Inventor :
Filing Date	:26/02/2019	1)NEUMANN, Bettina
(87) International Publication No	:WO 2019/166441	2)BORNEMANN, Nils
(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 hydrogen storage device (1), at least comprising a container (2) with a first volume (3), wherein a bulk material (4) is arranged in the container (2), the bulk material (4) comprising at least a plurality of pellets (5) produced by a pressing method, each pellet (5) comprising at least a first material (6) capable of storing hydrogen and a second material (7) as binder for the first material provided in powder form prior to production by way of a pressing method.

No. of Pages : 17 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041683 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : AL-SI-MG-BASED ALUMINUM ALLOY

(51) International classification:C22C21/02,B22D21/04,C22F1/00

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :PCT/JP2018/012596

Filing Date :27/03/2018

(87) International Publication No :WO 2019/186740

(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)KITAKI, Yutaro

4)OTSUKA, Makoto

5)MASUDA, Tsutomu

6)YAMAMOTO, Naoaki

(57) Abstract :

Provided is an Al-Si-Mg-based aluminum alloy. This Al-Si-Mg-based aluminum alloy includes 5%-10% by mass Si, 0.2%-1.0% by mass Mg, 0.03%-0.5% by mass Sb, and 0.0004%-0.0026% by mass Be, with the remainder being Al and unavoidable impurities. Under the Lab color system, the L value indicating surface brightness is at least 55.

No. of Pages : 12 No. of Claims : 2

(54) Title of the invention : PORTABLE HANDHELD ELECTRONIC SPIROMETER

(51) International classification :A61B5/0205,A61B5/087,G01F1/44
 (31) Priority Document No :18460022.9
 (32) Priority Date :19/04/2018
 (33) Name of priority country:EPO
 (86) International Application No :PCT/EP2019/060193
 Filing Date :18/04/2019
 (87) International Publication No :WO 2019/202126
 (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 :**
1)BAJTALA, Piotr
2)KOLTOWSKI, Lukasz

(57) Abstract :

The invention relates to a portable, handheld spirometer (1) comprising a MEMS-based thermal fluid flow sensor (13, 13.1, 13.2) for generating a signal in response to a fluid flow generated during inhalation or exhalation; and a microcontroller (14) for calculating the fluid flow from the signal generated by the flow sensor (13, 13.1, 13.2). The spirometer (1) may be connected to other devices, such as a smartphone or a personal computer or any other computing unit which is adapted to collect, store, analyse, exchange and/or display data. The invention further describes the use of the spirometer (1) in measuring a users lung performance and/or monitoring it over time. Furthermore, the spirometer (1) may be provided in a system together with an air quality measurement device for determining the air quality at a location of interest; and a computing unit for collecting, analysing and correlating the users lung performance data obtained from the spirometer (1) with the air quality data, and optionally geolocalisation data of said location.

No. of Pages : 51 No. of Claims : 15

(54) Title of the invention : ELECTRONIC DEVICES WITH MOTION SENSING AND ANGLE OF ARRIVAL DETECTION CIRCUITRY

(51) International classification :G01S13/75,G01S3/04,G01S3/46
 (31) Priority Document No :62/658738
 (32) Priority Date :17/04/2018
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/US2019/027381
 Filing Date :12/04/2019
 (87) International Publication No :WO 2019/204168
 (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)Tunc ERTAN

2)LEDVINA, Brent, M.

3)BRUMLEY, Robert, W.

4)MEYER, Adam, S.

5)Peter C TSOI

(57) Abstract :

An electronic device may use information about the location of nearby devices to make sharing with those devices more intuitive for a user. The electronic device may include control circuitry, wireless circuitry including first and second antennas, and motion sensor circuitry. The control circuitry may determine the location of a nearby electronic device by calculating the angle of arrival of signals that are transmitted by the nearby electronic device. To obtain a complete, unambiguous angle of arrival solution, the electronic device may be moved into different positions during angle of arrival measurement operations. At each position, the control circuitry may calculate a phase difference associated with the received signals. Motion sensor circuitry may gather motion data as the electronic device is moved into the different positions. The control circuitry may use the received antenna signals and the motion data to determine the complete angle of arrival solution.

No. of Pages : 30 No. of Claims : 23

(54) Title of the invention : PROCESS FOR FUNCTIONALIZATION OF ORGANO-ZINC COMPOUNDS WITH HALOSILANES USING BASIC NITROGEN CONTAINING HETEROCYCLES AND SILYL-FUNCTIONALIZED COMPOUNDS PREPARED THEREBY

(51) International classification :C08F8/42,C08F10/00,C08F2/38
 (31) Priority Document No :62/644635
 (32) Priority Date :19/03/2018
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/US2019/022790
 Filing Date :18/03/2019
 (87) International Publication No:WO 2019/182992
 (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)HUSTAD, Phillip Dene
4)MUKHOPADHYAY, Sukrit
5)SWIER, Steven
6)KAWAMOTO, Ken

(57) Abstract :

A process to functionalize organo-zinc compounds with halosilane electrophiles employs a basic additive. The process includes combining the organo-zinc compound, a halosilanes, and a nitrogen containing heterocycle as the basic additive. The presence of the basic additive facilitates successful substitution. Functionalized silanes and silyl-terminated polyolefins can be prepared using this process. The functionalized silanes may be useful as endblockers for polyorganosiloxanes having SiH and/or silicon bonded aliphatically unsaturated groups capable of undergoing hydrosilylation.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041767 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SILICON-TERMINATED ORGANO-METAL COMPOUNDS AND PROCESSES FOR PREPARING THE SAME

(51) International classification	:C07F7/08
(31) Priority Document No	:62/644654
(32) Priority Date	:19/03/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/022784
Filing Date	:18/03/2019
(87) International Publication No	:WO 2019/182988
(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)HUSTAD, Phillip D.

(57) Abstract :

The present disclosure is directed to a silicon-terminated organo-metal composition comprising a compound of formula (I). Embodiments relate to a process for preparing the silicon-terminated organo-metal composition comprising the compound of formula (I), the process comprising combining starting materials comprising (A) a vinyl-terminated silicon-based compound, (B) a chain shuttling agent, (C) a procatalyst, and (D) an activator, thereby obtaining a product comprising the silicon-terminated organo-metal composition. In further embodiments, the starting materials of the process may further comprise (E) a solvent and/or (F) a scavenger.

No. of Pages : 68 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041773 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : CARBONATED BEVERAGES COMPRISING A SAPONIN AND METHODS OF MAKING SAID BEVERAGES

(51) International classification :A23L2/40,A23L2/52,A23L2/54
(31) Priority Document No :62/643020
(32) Priority Date :14/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No:PCT/US2019/022071
Filing Date :13/03/2019
(87) International Publication No :WO 2019/178242
(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 :**
1)VERGINIO, Elvis
2)BAX, Fabio
3)PAOISIN, Giovanna

(57) Abstract :

Disclosed herein is one or more carbonated beverages comprising a saponin, and more particularly a saponin derived from the quillaja plant, and one or more methods of using reduced levels of carbon dioxide to make said carbonated beverage. Such beverages contain comparatively low levels of quillaja saponin for example illustrative embodiments include 0.1 to 40 ppm saponin. Also disclosed are beverage bases and beverage syrups useful for making a carbonated beverage

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041775 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ETHYLENE/1-HEXENE COPOLYMER

(51) International classification	:C08F210/16,C08F4/659	(71) Name of Applicant :
(31) Priority Document No	:62/644757	1)UNIVATION TECHNOLOGIES, LLC
(32) Priority Date	:19/03/2018	Address of Applicant :5555 San Felipe, Suite 1950 Houston,
(33) Name of priority country	:U.S.A.	TX 77056 U.S.A.
(86) International Application No	:PCT/US2019/021540	(72) Name of Inventor :
Filing Date	:11/03/2019	1)CHANDAK, Swapnil B.
(87) International Publication No	:WO 2019/182779	2)MARTIN, Peter S.
(61) Patent of Addition to Application Number	:NA	3)ZHANG, Yi
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An ethylene/1-hexene copolymer has a density from 0.9541 to 0.9600 gram per cubic centimeter (g/cm³), a molecular mass dispersity (M_w/M_n) from greater than 2.0 to 3.5; and a Z-average molecular weight (M_z) from 120,000 to 240,000 grams per mole (g/mol). Methods of making and using same. Articles containing same.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041784 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DRIVE DEVICE, ELECTRIC VEHICLE, AND DRIVE DEVICE CONTROL METHOD

(51) International classification :H02P27/08

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :PCT/JP2018/012749

Filing Date :28/03/2018

(87) International Publication No :WO 2019/186761

(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)HONDA MOTOR CO., LTD.

(72)Name of Inventor :

1)MEGURO Takayuki

2)INOUCHI Yuta

3)ISHIKAWA Jun

4)KIMURA Tsukasa

(57) Abstract :

This drive device is provided with a control unit for controlling the drive of a motor by controlling first to sixth switches. The control unit periodically sets continuous first to sixth energization periods, each of which corresponds to an electrical angle of 60°, in accordance with first to sixth detection periods. The control unit PWM-controls the first to sixth switches so as to switch between 120°-energization for flowing phase current during continuous two energization periods among the first to sixth energization periods and 180°-energization for flowing phase current during continuous three energization periods among the first to sixth energization periods. The control unit sets an energization period during switching among the first to sixth energization periods such that the energization period is shifted by a period in accordance with the arrangement angle of an angle sensor with respect to a detection period during switching among the first to sixth detection periods.

No. of Pages : 50 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041785 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DRIVE DEVICE, DRIVE METHOD, DRIVE PROGRAM, AND ELECTRIC VEHICLE

(51) International classification :H02P6/17,G01P21/02
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/JP2018/012744
Filing Date :28/03/2018
(87) International Publication No :WO 2019/186756
(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)MEGURO Takayuki
2)INOBUCHI Yuta

(57) Abstract :

An electric vehicle control device 1 according to an embodiment is provided with: a signal receiving unit 11 for receiving a signal coming at intervals in accordance with the rotational speed of a motor 3; a signal interval variation calculation unit 12 for calculating a signal interval variation that is the difference between a first signal interval T1 and a second signal interval T2; a signal interval correction unit 13 for correcting the first signal interval T1 on the basis of the signal interval variation; a rotational speed calculation unit 14 for calculating an instantaneous rotational speed of the motor 3 on the basis of the corrected first signal interval Ta; and a motor control unit 15 for controlling the motor 3 on the basis of the calculated instantaneous rotational speed.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041786 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : CORNER-BREAK-OPEN SEALED PACKAGE

(51) International classification :B65D75/58
(31) Priority Document No :102018000003352
(32) Priority Date :07/03/2018
(33) Name of priority country :Italy
(86) International Application No :PCT/IB2019/051855
Filing Date :07/03/2019
(87) International Publication No :WO 2019/171322
(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 :**
1)TAGLINI, Andrea

(57) Abstract :

A break-open sealed package (1) is disclosed; the sealed package (1) comprises: a first sheet (2) of semi-rigid plastic material; a sealed pocket (4), which contains a dose of a product (5) and is delimited on one side by the first sheet (2); and a pre-weakened area (6), which guides, following a folding of the first sheet (2), a controlled break of the first sheet (2) in the pre-weakened area (6) to form an outlet opening for the product (5) through the first sheet (2). The pre- weakened area (6) is arranged at one end of the first sheet (2) and extends from a first outer edge (7) of the first sheet (2) to a second outer edge (8) of the first sheet (2) to divide the first sheet (2) into a holding portion and into a folding portion that is smaller than the holding portion.

No. of Pages : 20 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041787 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DRIVE DEVICE, DRIVE METHOD, DRIVE PROGRAM, AND ELECTRIC VEHICLE

(51) International classification :H02P6/17,G01D5/12,G01D5/244
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/JP2018/012746
Filing Date :28/03/2018
(87) International Publication No :WO 2019/186758
(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)HONDA MOTOR CO., LTD.
(72)Name of Inventor :
1)MEGURO Takayuki
2)INOUCHI Yuta
3)ISHIKAWA Jun
4)HONDA Shingo

(57) Abstract :

This drive device of an embodiment is provided with: a signal receiving unit 11 for receiving sensor signals output from angle sensors 4u, 4v, 4w; a signal interval calculation unit 12 for calculating a signal interval T between a sensor signal S1 and a sensor signal S2; an output angle calculation unit 13 for calculating an output angle of a PWM signal on the basis of the rotational speed and target torque of a motor 3; an attachment error acquiring unit 14 for acquiring the errors AS_u, AS_v, AS_w of the attachment positions of the respective angle sensors; a timing determination unit 15 for determining the output timing time to of the PWM signal on the basis of the signal interval T, the output angle, and the errors AS_u, AS_v, AS_w; and a motor control unit 16 for outputting the PWM signal when the output timing time to has elapsed after receiving a sensor signal S3.

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041788 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DRIVE DEVICE, DRIVE METHOD, DRIVE PROGRAM, AND ELECTRIC VEHICLE

(51) International classification :H02P6/17,H02P27/08
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/JP2018/012745
Filing Date :28/03/2018
(87) International Publication No :WO 2019/186757
(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)MEGURO Takayuki
2)INOBUCHI Yuta

(57) Abstract :

An electric vehicle control device 1 is provided with: a signal receiving unit 11 for receiving a signal coming at intervals in accordance with the rotational speed of a motor 3; a rotational speed calculation unit 12 for calculating an instantaneous rotational speed of the motor 3 on the basis of the signal interval T between a sensor signal S1 and a sensor signal S2; and a motor control unit 13 for generating a PWM signal on the basis of the calculated instantaneous rotational speed. When the variation of the instantaneous rotational speed is greater than or equal to a specific value, the motor control unit 13 corrects the duty ratio of the PWM signal on the basis of the instantaneous rotational speed so that the output voltage of a power conversion unit 30 becomes a value in accordance with the instantaneous rotational speed.

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041789 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DRIVE DEVICE, ELECTRIC VEHICLE, AND DRIVE DEVICE CONTROL METHOD

(51) International classification :H02P29/00

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :PCT/JP2018/012750

Filing Date :28/03/2018

(87) International Publication No :WO 2019/186762

(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 :

1)MEGURO Takayuki

2)INOUCHI Yuta

3)CHIKAWA Hiroki

4)ISHIKAWA Jun

(57) Abstract :

A main control circuit of this drive device detects the first charged voltage of a smoothing capacitor before the start of discharging through a discharging resistor. Before a preset set time elapses from the start of discharging through the discharging resistor, the main control circuit calculates, by multiplying the first charged voltage by a preset factor, a discharging continuable voltage that is the charged voltage of the smoothing capacitor estimated during the elapse of the set time and capable of being continuously discharged through the discharging resistor. The main control circuit detects the second charged voltage of the smoothing capacitor during the elapse of the set time and compares the second charged voltage with the discharging continuable voltage. When the second charged voltage is less than or equal to the discharging continuable voltage, the main control circuit controls a discharging control circuit so as to continue discharging through the discharging resistor. Meanwhile, when the second charged voltage is greater than the discharging continuable voltage, the main control circuit controls the discharging control circuit so as to stop discharging through the discharging resistor.

No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041815 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD, DEVICE, AND SYSTEM FOR TRANSMITTING DATA

(51) International classification :H04L1/18
(31) Priority Document No :201810288325.2
(32) Priority Date :03/04/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/081247
Filing Date :03/04/2019
(87) International Publication No :WO 2019/192516
(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 :**
1)LOU, Chong
2)LIU, Xing
3)HUANG, Qufang

(57) Abstract :

Provided in the present application are a method, device, and system for transmitting data, capable of reducing the transmission of expired information by a terminal device to a network device, thus reducing unreasonable scheduling decisions made by the network device. The method comprises: transmitting a first packet to a network device and saving the first packet; receiving a first uplink grant from the network device and refraining from using the first uplink grant for an uplink transmission; receiving a second uplink grant from the network device, the second uplink grant being a retransmission grant generated for a transmission failure of the first uplink grant; and ignoring the second uplink grant, or, transmitting a second packet to the network device on the basis of the second uplink grant.

No. of Pages : 48 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041816 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : API TOPOLOGY HIDING METHOD, DEVICE AND SYSTEM

(51) International classification :G06F21/54
(31) Priority Document No :201810308313.1
(32) Priority Date :08/04/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/081809
Filing Date :08/04/2019
(87) International Publication No :WO 2019/196809
(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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Bantian, Longgang District Shenzhen, Guangdong 518129 China
(72)**Name of Inventor :**
1)GE, Cuili
2)AMOGH, Niranth
3)YANG, Yanmei

(57) Abstract :

An API topology hiding method, device and system, relating to the technical field of communications, and used to hide an AEF that provides an API from an API invoking entity. The method comprises: a CCF receiving, from a topology hiding request entity, a request message that includes a message of an API and is used for requesting the hiding of an AEF that provides the API; according to the request message, determining a topology hiding entry point for invoking the API by an API invoking entity; and sending, to the topology hiding entry point, an identifier of the API and an identifier of the AEF that provides the API, such that the topology hiding entry point hides the AEF that provides the API. The API topology hiding method is applicable for hiding an AEF that provides an API.

No. of Pages : 45 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041821 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SEISMIC VELOCITY DERIVED HYDROCARBON INDICATION

(51) International classification :G01V1/30
(31) Priority Document No :62/650667
(32) Priority Date :30/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/024486
Filing Date :28/03/2019
(87) International Publication No :WO 2019/191368
(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 :**
1)FU, Kang
2)NI, Dianne

(57) Abstract :

A velocity model is generated based upon seismic waveforms via any seismic model building method, such as full waveform inversion or tomography. Data representative of a measurement of a physical attribute of an area surrounding a well is received and an attribute model is generated based upon the velocity model and the data. An image is rendered based upon the attribute model for use with seismic exploration above a region of a subsurface comprising a hydrocarbon reservoir and containing structural or stratigraphic features conducive to a presence, migration, or accumulation of hydrocarbons.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041822 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : FINISH COAT COMPOSITION FOR CORROSION-RESISTANT COATING OF A METAL PART, WET-ON-WET METHOD FOR APPLYING A FINISH COAT, CORROSION-RESISTANT COATING OF METAL PARTS, AND COATED METAL PART

(51) International classification :C09D183/04
(31) Priority Document No :1851660
(32) Priority Date :26/02/2018
(33) Name of priority country :France
(86) International Application No :PCT/EP2019/054768
Filing Date :26/02/2019
(87) International Publication No :WO 2019/162531
(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 :**
1)VALEYRE, Olivier
2)MENET, Jean-François
3)LAHAYE, Yan

(57) Abstract :

The present invention relates to a finishing composition for coating of a metal part previously coated with a corrosion-resistant coating comprising at least a binder of alkylphenylsiloxane type, glass microbeads, and optionally particles of filler with a high thermal resistance and/or particulate aluminium, said composition having a thixotropic index (ITh) greater than or equal to 3. The present invention also relates to a corrosion-resistant coating of a metal part, resistant to acids and bases, contributing to the good thermal resistance of the system and comprising at least two layers that are different from one another, the first layer being a base layer comprising at least water, a particulate metal and a binder, and the second layer being a finishing composition according to the invention. The present invention further relates to the wet-on-wet method for applying the corrosion-resistant coating according to the invention and to a metal substrate coated by a corrosion-resistant coating according to the invention.

No. of Pages : 23 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041824 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : VIDEO DECODER, VIDEO ENCODER, METHOD FOR DECODING A VIDEO CONTENT, METHOD FOR ENCODING A VIDEO CONTENT, COMPUTER PROGRAM AND VIDEO BITSTREAM

(51) International classification :H04N19/91,H04N19/13,H04N19/157
(31) Priority Document No :18165250.4
(32) Priority Date :29/03/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/058057
Filing Date :29/03/2019
(87) International Publication No :WO 2019/185893
(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 :
1)STEGEMANN, Jan
2)KIRCHHOFFER, Heiner
3)MARPE, Detlev
4)SCHWARZ, Heiko
5)WIEGAND, Thomas

(57) Abstract :

A video decoder is configured to decode a plurality of video frames which are subdivided into a set of one or more slices. The decoder evaluates a slice type information indicating whether a slice is encoded using an independent coding mode, in which there is no prediction of video content of a current frame on the basis of a video content of a previous frame, or using a single-predictive mode in which there is a prediction of a block of pixels on the basis of one block of pixels of a previous frame, or using a bi-predictive mode in which there is a prediction of a block of pixels on the basis of two or more blocks of pixels of one or more previous frames, to select a mode of operation for a decoding of a slice. The video decoder comprises an arithmetic decoder for providing a decoded binary sequence on the basis of an encoded representation of the binary sequence. The arithmetic decoder is configured to determine a first source statistic value using a first estimation parameter and to determine a second source statistic value using a second estimation parameter. The arithmetic decoder is configured to determine a combined source statistic value on the basis of the first source statistic value (a₁) and on the basis of the second source statistic value, and the arithmetic decoder is configured to determine one or more range values for an interval subdivision, which is used for a mapping of the encoded representation of the binary sequence onto the decoded binary sequence, on the basis of the combined source statistic value.

No. of Pages : 62 No. of Claims : 75

(54) Title of the invention : SPHERICAL SHOWER HEAD

(51) International classification	:B05B1/18	(71)Name of Applicant :
(31) Priority Document No	:PCT/MX2018/000032	1)GARC • A VILLAREAL, Marco Antonio
(32) Priority Date	:23/03/2018	Address of Applicant :Prol. Pino Suarez 2730, Col. Bella
(33) Name of priority country	:Mexico	Vista, Monterrey, Nuevo Le3n, C.P. 64410 Mexico
(86) International Application No	:PCT/MX2018/000032	(72)Name of Inventor :
Filing Date	:23/03/2018	1)GARC • A VILLAREAL, Marco Antonio
(87) International Publication No	:WO 2019/182431	
(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 water-saving spherical shower head. Due to its operation, it only requires a minimal expenditure of 600 millilitres of water per minute, and is capable of vertically generating a soft, dense curtain of rain, produced by fine lines of water that form concentric parabolas with various ranges, generated by a novel system of micro-conduits arranged in various circumferences, oriented at various firing angles and executed perpendicularly on the surface of a hollow hemisphere. The head is characterised in that it produces a soft, dense curtain of rain, with a pressure of 60 cm of water. With an expenditure of 600 millilitres per minute, the curtain of rain covers a surface area of 154 cm² at a distance of 5 cm, and opens up to a diameter of 14 cm. The shower head is inadequate for expenditures of more than 600 millilitres per minute.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041889 A

(19) INDIA

(22) Date of filing of Application :26/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ARRANGEMENT FOR A STEAM TURBINE

(51) International classification :F01D17/14,F01D25/04
(31) Priority Document No :18169492.8
(32) Priority Date :26/04/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/058515
Filing Date :04/04/2019
(87) International Publication No :WO 2019/206597
(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 :**
1)HECKER, Simon
2)HOMEIER, Lars
3)PIEPER, Norbert
4)QUINKERTZ, Rainer
5)WECHSUNG, Michael

(57) Abstract :

The invention relates to an arrangement comprising a steam turbine (2) and two auxiliary steam lines to the steam turbine (2), wherein in each steam supply line there is arranged a diaphragm (10, 11) for the purpose of minimizing undesirable rotor vibrations.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041899 A

(19) INDIA

(22) Date of filing of Application :26/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PRODUCE HARVESTING APPARATUS AND PRECISION FARMING SYSTEM

(51) International classification :A01D1/00,A01D46/24,A01G3/00
(31) Priority Document No :2018/01375
(32) Priority Date :28/02/2018
(33) Name of priority country :South Africa
(86) International Application No :PCT/ZA2019/050008
Filing Date :28/02/2019
(87) International Publication No :WO 2019/169413
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Anyswortelrug Road 7625 Klapmuts South Africa
(72)**Name of Inventor :**
1)BIJKER, Albert Hendrik

(57) Abstract :

This invention relates to a precision agriculture produce harvesting system and produce harvesting apparatus configured for integration with the system, an essential feature of which is a harvesting device subsystem (100) that includes a harvesting device, for instance pruning shears (102) and a harvesting separation stroke detector (108) housed within a control module housing (110) mounted to the shears (102). A person operating the pruning shears (102) produces discernible separation strokes when the handles (104) of the shears (102) are squeezed together to produce a shearing action. The stroke detector (108) detects the separation strokes of the shears (102). By the addition of the control module (108) to the pruning shears (102), the shears are essentially converted into a data logging device by means of which important aspects of a produce harvesting process can be digitised and supplied to a harvest data digital data processing system.

No. of Pages : 18 No. of Claims : 12

(54) Title of the invention : COMMUNICATION METHOD AND APPARATUS

(51) International classification :H04W4/40,H04W4/70,H04W28/24
(31) Priority Document No :201810313223.1
(32) Priority Date :09/04/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/081975
Filing Date :09/04/2019
(87) International Publication No :WO 2019/196847
(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 :Huawei Administration Building,
Bantian, Longgang District Shenzhen, Guangdong 518129 China
(72)**Name of Inventor :**
1)YING, Jiangwei
2)YANG, Yanmei
3)LI, Meng

(57) Abstract :
Disclosed are a communication method and apparatus. The method comprises: a core network element receiving a first request message from a terminal, the first request message being used to request information used for PC5 port communication of the terminal; and the core network element, on the basis of the first request message, sending to the terminal quality of service (QoS) rules used for said PC5 port communication. By adopting the present method, the occurrence of unauthorized changes to QoS information can be avoided by means of acquiring from the network side the QoS information used for PC5 port communication to increase the reliability of the acquired QoS information.

No. of Pages : 84 No. of Claims : 36

(54) Title of the invention : SUPPORT POST INSULATOR AND INSULATING SUPPORT POST

(51) International classification :H01B17/14,H01B17/16,H01B17/36
 (31) Priority Document No :201810260475.2
 (32) Priority Date :27/03/2018
 (33) Name of priority country :China
 (86) International Application No :PCT/CN2019/074283
 Filing Date :31/01/2019
 (87) International Publication No :WO 2019/184596
 (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 :**
1)MA, Bin
2)FANG, Jiang
3)LIU, Chao
4)YU, Jie
5)NI, Guiyan

(57) Abstract :

Disclosed in the present invention is a support post insulator, comprising a hollow insulating tube, an umbrella skirt that is located at the periphery of the hollow insulating tube, and an upper flange and a lower flange that are disposed on two ends of the hollow insulating tube, wherein a gas is sealed inside of the hollow insulating tube, and the absolute pressure of the gas is 0.1-0.15 Mpa. Further disclosed is an insulating support post formed by the end-to-end connection of the support post insulators. The support post insulator and the insulating support post of the present invention solve an interface problem present in internal insulating solid material filling, and also solve a gas leaking problem that occurs when using high-pressure gas filling, such that the support post insulator does not need to be detected and maintained. At the same time, the margin of the micro-water control range is improved, and micro-water control and production difficulty is reduced.

No. of Pages : 20 No. of Claims : 13

(54) Title of the invention : RESIN COMPOSITION FOR SEALANT, MULTILAYER FILM FOR SEALANT, HEAT-FUSIBLE LAYERED FILM, AND PACKAGE

(51) International classification:C08L23/04,B32B27/32,C09K3/10

(31) Priority Document No :2018-042873

(32) Priority Date :09/03/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/009106
Filing Date :07/03/2019

(87) International Publication No :WO 2019/172375

(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 :

1)SEKIYA Keiko

2)SUZUKI Masao

3)SAITO Tetsuya

4)KUDO Yuta

(57) Abstract :

The present invention addresses the problem of providing: a resin composition for a sealant, in which bag manufacturing performance and inflation film manufacturing workability (extrusion characteristics and bubble stability) are obtained at the same time; a heat-fusible film and a sealant film in which the composition is used; and a package in which the heat-fusible film is used. This ethylene-based resin composition for a sealant satisfies conditions (1) through (3) simultaneously: (1) the melt index (I21: 190°C, 21.6 kg load) thereof is 42-80 g/10 minutes; (2) the ratio I21/I2 of the melt index (I21: 190°C, 21.6 kg load) and the melt index (I2: 190°C, 2.16 kg load) thereof is 5 to 25; and (3) the melt tension (190°C) thereof is 25 to 180 mN.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041980 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : INFORMATION PROCESSING DEVICE, MOVING APPARATUS, METHOD, AND PROGRAM

(51) International classification:G08G1/16,A61B5/18,B60W40/08

(31) Priority Document No :2018-066914

(32) Priority Date :30/03/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/010776

Filing Date :15/03/2019

(87) International Publication No :WO 2019/188398

(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 :4-14-1 Asahicho, Atsugi-shi, Kanagawa 2430014 Japan

(72)Name of Inventor :

1)OBA, Eiji

2)KADOSHITA, Kohei

(57) Abstract :

The present invention realizes a configuration wherein biological information of a driver is inputted in order to assess the drivers wakefulness level. According to the present invention, the wakefulness of a driver is assessed by applying a result of motion analysis of the drivers eyeballs and/or pupils and a wakefulness assessment dictionary unique to the driver. A data processing unit executes assessment of the drivers wakefulness level using the wakefulness assessment dictionary that has been generated as a result of learning processing based on log data of the drivers biological information and that is unique to the driver. The data processing unit further executes estimation of a recovery time required until the driver can start safe manual driving. A learning device used to perform estimation processing based on observable information becomes able, through continuing utilization of the device, to establish the correlation between observable eyeball motion of a driver and the drivers wakefulness level using multidimensional factors. Utilizing secondary information, it is also possible to derive, from a long-term variation of an observable value, an index of activity taking place within the drivers brain.

No. of Pages : 162 No. of Claims : 20

(54) Title of the invention : METHOD FOR MANUFACTURING SLAB AND CONTINUOUS CASTING EQUIPMENT

<p>(51) International classification :B21B1/00,B22D11/06,B22D11/12</p> <p>(31) Priority Document No :2018-037945</p> <p>(32) Priority Date :02/03/2018</p> <p>(33) Name of priority country :Japan</p> <p>(86) International Application No :PCT/JP2019/007014</p> <p style="padding-left: 20px;">Filing Date :25/02/2019</p> <p>(87) International Publication No :WO 2019/167868</p> <p>(61) Patent of Addition to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p>	<p>(71)Name of Applicant : 1)NIPPON STEEL CORPORATION Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008071 Japan</p> <p>(72)Name of Inventor : 1)SHIRAIISHI Toshiyuki 2)NIKKUNI Daisuke 3)ETO Manabu 4)MIYAZAKI Masafumi</p>
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(57) Abstract :

A method for manufacturing a slab by means of continuous casting equipment comprising a twin-drum continuous casting device, a cooling device, an inline mill, and a take-up device, wherein a rolling analysis model is used to calculate a friction coefficient from measured values for the rolling load and forward slip rate obtained during rolling of the slab, a lubrication condition during rolling of the slab is controlled such that the friction coefficient is within a prescribed range, and when Orowans theory and a deformation resistance model formula based on Shidas approximation formula are used as the rolling analysis model to calculate the friction coefficient from the measured values for the rolling load and forward slip rate, the prescribed range is 0.15 to 0.25.

No. of Pages : 36 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017041982 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DEVICE AND METHOD FOR GUIDING METAL STRIPS, COMPRISING GRINDING BODIES WITH SUPPORT ELEMENT

(51) International classification	:B21B39/14
(31) Priority Document No	:18166960.7
(32) Priority Date	:12/04/2018
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2019/055733
Filing Date	:07/03/2019
(87) International Publication No	:WO 2019/197085
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)PRIMETALS TECHNOLOGIES AUSTRIA GMBH
Address of Applicant :Turmstrae 44 4031 Linz Austria
(72)**Name of Inventor :**
1)MOSER, Friedrich

(57) Abstract :

The invention relates to a device for laterally guiding (1) a metal strip (2) running over a metal strip conveyor device, comprising at least one main part module (3) with a guiding plane (4) and at least one grinding body with a grinding surface (5a, 5b, 5c) for contacting the metal strip (2) to be guided for guiding purposes, wherein the grinding body (6) is attached to a support element (7), or the grinding body (6) comprises the support element (7). The support element (7) is mounted in the main part module (3) in a movable manner in the direction of the rotational axis (10) and in a rotatable manner. The position of the grinding body in relation to the guiding plane (4) is modified by moving the support element (7) prior to or while laterally guiding metal strips running over a metal strip conveyor device, prior to contacting a first metal strip for guiding purposes, and/or while contacting a first metal strip for guiding purposes.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042008 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PYRAZO-TETRAHYDROISOQUINOLINE DERIVATIVES AS DOPAMINE D1 RECEPTOR POSITIVE MODULATORS

(51) International classification :C07D405/14,C07D401/04,A61P25/16
(31) Priority Document No :62/660622
(32) Priority Date :20/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/027842
Filing Date :17/04/2019
(87) International Publication No :WO 2019/204418
(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)COATES, David Andrew
2)HAO, Junliang
3)HILLIARD, Darryl Wayne

(57) Abstract :

The invention provides certain (phenyl)-(pyrazol)-3,4-dihydroisoquinolin-2(1H)-yl)ethan-1-one compounds of formula I as D1 positive allosteric modulators (PAMs), and pharmaceutical compositions thereof. The invention further provides methods of using a compound of formula I, or a pharmaceutically acceptable salt thereof, to treat certain symptoms of Parkinsons disease, schizophrenia, ADHD or Alzheimers disease.

No. of Pages : 63 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042050 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : RAPID METHODS FOR THE DETECTION OF MICROBIAL RESISTANCE

(51) International classification :C12Q1/18,G01N30/72,G01N30/88
(31) Priority Document No :62/660402
(32) Priority Date :20/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/028280
Filing Date :19/04/2019
(87) International Publication No :WO 2019/204703
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)LONGHORN VACCINES AND DIAGNOSTICS, LLC
Address of Applicant :2 Bethesda Metro Center Suite 910
Bethesda, Maryland 20814 U.S.A.
(72)**Name of Inventor :**
1)DAUM, Luke T.
2)FISCHER, Gerald W.

(57) Abstract :

The invention is directed to methods, kits, compositions for the detection of microbial resistance in bacteria, viruses, parasites, fungus, and other microbes. The methods of the invention are both rapid and inexpensive thereby allowing for appropriate treatment of large numbers of individual patients.

No. of Pages : 21 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042052 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : LOCKING MECHANISM FOR QUICK CONNECT COUPLING

(51) International classification	:F16L37/10,F16L37/23	(71) Name of Applicant :
(31) Priority Document No	:NA	1)CEJN AB
(32) Priority Date	:NA	Address of Applicant :Box 245 541 25 Skvde Sweden
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:PCT/EP2018/061031	1)EKSTR-M, Jrger
Filing Date	:30/04/2018	2)OLSSON, Anna-Lena
(87) International Publication No	:WO 2019/210933	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A locking mechanism for a quick connect coupling having a locking sleeve (100) is disclosed. The locking sleeve is axially displaceable for locking the quick connect coupling in a locked position (110) and for unlocking the quick connect coupling in an unlocked position (120). The locking mechanism comprises a safety ring (200), the safety ring (200) is axially displaceable for engaging the locking sleeve (100) and the safety ring (200) being partly inside or partly outside the locking sleeve (100). The safety ring being positionable in three different axial positions, a first axial position (210) for allowing the locking sleeve (100) to be in the unlocked position (120), a second axial position (220) for allowing the safety ring (200) to rotate, and a third axial position (230) for allowing the locking sleeve(100) to be in the locked position (110). The locking mechanism comprises a spring (300), the spring acting between the locking sleeve (100) and the safety ring (200). The spring (300) comprising a spring force forcing the locking sleeve (100) and the safety ring (200) away from each other. Methods using the locking mechanism are also disclosed.

No. of Pages : 17 No. of Claims : 15

(54) Title of the invention : REFRIGERATOR AND CONTROLLING METHOD THEREOF

(51) International classification :F25D21/02,F25D21/00,F25D17/06
(31) Priority Document No :10-2018-0027434
(32) Priority Date :08/03/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2019/001340
Filing Date :31/01/2019
(87) International Publication No :WO 2019/172532
(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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1)CHOI, Sangbok
2)KIM, Sungwook
3)PARK, Kyongbae
4)JHEE, Sung

(57) Abstract :

A control method of a refrigerator, according to an embodiment of the present invention, comprises the steps in which: a heating element of a sensor which is responsive to a change in the flow rate of air is turned off after being turned on for a predetermined time; a first sensing temperature (Ht1) of the heating element is sensed in a state in which the heating element is on, and a second sensing temperature (Ht2) of the heating element is sensed in a state in which the heating element is off; and the amount of frost on an evaporator is sensed on the basis of the temperature difference value between the first sensing temperature (Ht1) and the second sensing temperature (Ht2).

No. of Pages : 34 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042086 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : POWER RECOVERY FROM QUENCH AND DILUTION VAPOR STREAMS

(51) International classification :C10G11/18,C10G47/36,F01D15/00

(31) Priority Document No :15/924037

(32) Priority Date :16/03/2018

(33) Name of priority country:U.S.A.

(86) International Application No :PCT/US2019/022422

Filing Date :15/03/2019

(87) International Publication No :WO 2019/178452

(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)FREY, Stanley Joseph

2)COUCH, Keith Allen

3)EIZENGA, Donald A.

4)HARRIS, James W.

(57) Abstract :

A process for reducing pressure of a vapor stream used for reducing a temperature or pressure in a reactor. A pressure of a vapor stream is reduced with a turbine to provide a lower pressure vapor stream. The vapor stream rotates a turbine wheel within the turbine. The turbine wheel is configured to transmit rotational movement to an electrical generator. Thus, electricity is generated with the turbine. The lower pressure vapor stream is injected into a reactor and reduces a temperature in the reactor or reduces a partial pressure of a hydrocarbon vapor in the reactor.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042090 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : CONSOLIDATION AND USE OF POWER RECOVERED FROM A TURBINE IN A PROCESS UNIT

(51) International classification	:F01D15/10,H02M7/00	(71) Name of Applicant :
(31) Priority Document No	:15/923945	1)UOP LLC
(32) Priority Date	:16/03/2018	Address of Applicant :25 East Algonquin Road P.O. Box 5017
(33) Name of priority country	:U.S.A.	Des Plaines, Illinois 60017-5017 U.S.A.
(86) International Application No	:PCT/US2019/022431	(72) Name of Inventor :
Filing Date	:15/03/2019	1)FREY, Stanley Joseph
(87) International Publication No	:WO 2019/178456	2)SCHWARZKOPF, Gregory A.
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Apparatus and methods for recovering energy in a petroleum, petrochemical, or chemical plant as described. The apparatus includes a fluid process stream flowing through a petroleum, petrochemical, or chemical process zone. There are at least one variable-resistance power-recovery turbine, a portion of the first process stream flowing through the first power-recovery turbine to generate electric power as direct current therefrom. There is a single DC to AC inverter electrically connected to at least one power-recovery turbine, and the output of the DC to AC inverter electrically connected to a first substation.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042092 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ENERGY-RECOVERY TURBINES FOR GAS STREAMS

(51) International classification :F01D17/10,F01D15/10,G05B15/02

(31) Priority Document No :15/923936

(32) Priority Date :16/03/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/022420

Filing Date :15/03/2019

(87) International Publication No :WO 2019/178450

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)**Name of Applicant :**

1)UOP LLC

Address of Applicant :25 East Algonquin Road P.O. Box 5017
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(72)**Name of Inventor :**

1)FREY, Stanley Joseph

(57) Abstract :

Processes for controlling the flowrate of and recovering energy from a gas stream in a processing unit are described. One process comprises directing a portion of the gas stream through one or more variable-resistance power-recovery turbines to control the flowrate of the gas stream and generate electric power therefrom; and controlling the pressure and temperature of the gas stream so that the gas exiting the power-recovery turbine remains in the gas phase.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042094 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PHOTOVOLTAIC MODULE AND ENCAPSULANT COMPOSITION HAVING IMPROVED RESISTANCE TO POTENTIAL INDUCED DEGRADATION

(51) International classification :H01L31/048
(31) Priority Document No :62/640073
(32) Priority Date :08/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/020643
Filing Date :05/03/2019
(87) International Publication No :WO 2019/173262
(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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48674 U.S.A.
(72)**Name of Inventor :**
1)CHOU, Richard T.
2)KAPUR, Jane

(57) Abstract :

Provided herein is an encapsulant composition and photovoltaic modules having Anti-PID ability.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042111 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : MOVABLE MATERIAL PROCESSING APPARATUS COMPRISING A FOLDABLE CONVEYOR

(51) International classification :B65G41/00,B07B15/00,B65G21/10
(31) Priority Document No :PCT/EP2018/057529
(32) Priority Date :23/03/2018
(33) Name of priority country:Finland
(86) International Application No :PCT/EP2018/057529
Filing Date :23/03/2018
(87) International Publication No :WO 2019/076488
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)METSO MINERALS, INC.
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Finland
(72)**Name of Inventor :**
1)JUUTINEN, Tuomas

(57) Abstract :

The disclosure relates to a movable material processing apparatus for handling material such as ore, gravel, rock or the like, comprising: a foldable conveyor for discharging material from the apparatus, wherein said foldable conveyor is movable between a transport position and an operating position, said foldable conveyor comprising a loading block arranged at the loading end, and a discharge block extending from said loading block towards a discharge end, wherein said discharge block is pivotally coupled to said loading block along a first axis being perpendicular to a transport path of the foldable conveyor and parallel with a carrying surface of the foldable conveyor, and wherein said loading block is pivotally coupled to a support structure of said movable material processing apparatus along a second axis being parallel to said transport path.

No. of Pages : 14 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042113 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : RANKING OF BUSINESS OBJECT

(51) International classification :G06F17/00
(31) Priority Document No :201810589777.4
(32) Priority Date :08/06/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2018/121078
Filing Date :14/12/2018
(87) International Publication No :WO 2019/233077
(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)ZHONG, Chao
2)LIU, Huaijun
3)LIU, Haiwen

(57) Abstract :

A method and device for ranking a business object. The method comprises: obtaining a historical activity record (101); from the historical activity record, extracting discrete feature information and/or continuous feature information of at least one business object (102); entering the discrete feature information and/or continuous feature information of each business object into a prediction model obtained by pre-training, and predicting a ranking score for each business object (103); and ranking each business object according to the ranking score thereof (104).

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

(54) Title of the invention : HAIR TREATMENT PROCESS AND SYSTEM

<p>(51) International classification :A45D19/00,E03C1/046,A45D19/12</p> <p>(31) Priority Document No :1853069</p> <p>(32) Priority Date :09/04/2018</p> <p>(33) Name of priority country :France</p> <p>(86) International Application No :PCT/EP2019/058700</p> <p style="padding-left: 20px;">Filing Date :05/04/2019</p> <p>(87) International Publication No :WO 2019/197296</p> <p>(61) Patent of Addition to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p>	<p>(71)Name of Applicant : 1)L'OREAL Address of Applicant :14 rue Royale 75008 PARIS France</p> <p>(72)Name of Inventor : 1)ROBINAULT, Jean-Luc 2)SAMAIN, Henri</p>
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(57) Abstract :

System (1) for washing the hair, including: - a first reservoir (10) for receiving a first liquid (L1) constituted by or comprising water, - a second reservoir (20) for receiving a second liquid (L2) comprising a treatment product diluted in water in an amount of less than or equal to 2.5% by weight relative to the total weight of the second liquid (L2), - a shower head (32) with a supply rate of between 0.3 and 5 L/min configured to deliver a jet of droplets onto the hair, - a means for supplying the shower head with liquid, taken exclusively from one or other of the reservoirs, with an overpressure.

No. of Pages : 20 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042144 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : LFA3 VARIANTS AND COMPOSITIONS AND USES THEREOF

(51) International classification :C07K14/705
(31) Priority Document No :62/650022
(32) Priority Date :29/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/023883
Filing Date :25/03/2019
(87) International Publication No :WO 2019/190984
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)CRELLIN, Natasha, Kay

2)ELY, Lauren, Kate

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4)HO, Chia, Chi

5)BLUESTONE, Jeffrey, A.

6)TROTТА, Eleonora

7)TANG, Qizhi

(57) Abstract :

The invention provides LFA3 polypeptide molecules, e.g., variant LFA3 fusion polypeptide molecules. The invention includes uses, and associated methods of using the LFA3 polypeptide molecules.

No. of Pages : 202 No. of Claims : 29

(54) Title of the invention : INTRA-PREDICTION MODE CONCEPT FOR BLOCK-WISE PICTURE CODING

(51) International classification :H04N19/105,H04N19/176,H04N19/111
 (31) Priority Document No :18165224.9
 (32) Priority Date :29/03/2018
 (33) Name of priority country :EPO
 (86) International Application No :PCT/EP2019/057882
 Filing Date :28/03/2019
 (87) International Publication No :WO 2019/185808
 (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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5)SIEKMANN, Mischa
6)WINKEN, Martin
7)WIECKOWSKI, Adam
8)SAMEK, Wojciech
9)KALTENSTADLER, Stephan
10)SCHWARZ, Heiko
11)MARPE, Detlev
12)WIEGAND, Thomas

(57) Abstract :

There are disclosed intra-prediction mode concepts for block-wise picture coding. In particular, there is disclosed an apparatus (14-1, 54-2) for block-wise decoding a picture (10) from a data stream (12) and/or encoding a picture (10) into a data stream (12), the apparatus supporting at least one intra-prediction mode according to which the intra-prediction signal for a block (136, 172) of a predetermined size of the picture is determined by applying a first template (130, 170) of samples which neighbours the current block onto a neural network (80). The apparatus may be configured, for a current block (18) differing from the predetermined size, to: resample (134, 166) a second template (60) of samples neighboring the current block (18), so as to conform with the first template (130, 170) so as to obtain a resampled template (130, 170); apply (138a, 170a, 44-1, 44-2) the resampled template (130, 170) of samples onto the neural network (80) so as to obtain a preliminary intra-prediction signal (138, 172, 176); and resample (140, 180) the preliminary intra-prediction signal (138, 172, 176) so as to conform with the current block (18) so as to obtain (140) the intra-prediction signal (142, 24-1, 24-2) for the current block (18).

No. of Pages : 46 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042146 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : NETWORK ACCESS METHOD FOR HYBRID NETWORK, PROXY COORDINATION DEVICE, SITE DEVICE

(51) International classification	:H04L12/24,H04L12/721	(71)Name of Applicant :
(31) Priority Document No	:201810245583.2	1)HUAWEI TECHNOLOGIES CO., LTD.
(32) Priority Date	:23/03/2018	Address of Applicant :Huawei Administration Building,
(33) Name of priority country	:China	Bantian, Longgang District Shenzhen, Guangdong 518129 China
(86) International Application No	:PCT/CN2019/078752	(72)Name of Inventor :
Filing Date	:19/03/2019	1)HOU, Jianqiang
(87) International Publication No	:WO 2019/179444	2)WU, Yuefeng
(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 network access method for a hybrid network, a proxy coordination device, and a site device. The method comprises: a proxy coordination device calculating network access parameters according to link quality parameters of the proxy coordination device in a PLC network, the network access parameters comprising link overheads, the link overheads being used to indicate the overheads of a site device accessing the network by means of the proxy coordination device on the basis of radio frequency (RF) communication; the proxy coordination device sending a DIO message, the DIO message comprising link overheads. In the method provided in the present application, the proxy coordination device calculates, according to the link quality parameters in the PLC network, the link overheads for indicating the site device accesses the network by means of the proxy coordination device on the basis of the RF communication, and sends the DIO message carrying the link overheads to the site device, such that the site device can select a more preferred network access path on the basis of link overheads, helping to improve the working efficiency of the hybrid network.

No. of Pages : 47 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042147 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : COMMUNICATION METHOD AND DEVICE

(51) International classification :H04W28/20
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2018/082002
Filing Date :04/04/2018
(87) International Publication No :WO 2019/191965
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)HUAWEI TECHNOLOGIES CO., LTD.
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(72)**Name of Inventor :**
1)LIU, Yifan
2)HAN, Jing
3)ZHANG, Meng
4)LI, Hong
5)LI, Qiming

(57) Abstract :

The present application provides a communication method and device. The method comprises: a terminal device receiving first information from a second base station, the first information comprising network-based cell reference signal (CRS) bandwidth mitigation state information of a first base station, the second base station being a base station of a serving cell of the terminal device, the first base station being a base station of a neighboring cell of the serving cell; the terminal device determining a measurement bandwidth value at least according to the first information; the terminal device measuring, according to the measurement bandwidth value, at least one of signal strength or signal quality of the serving cell where the terminal device is located or a neighboring cell of the serving cell. In this method, the second base station may transmit the network-based CRS bandwidth mitigation state information of the first base station to the terminal, implementing the synchronization of bandwidth mitigation state information between the first base station and the terminal. Furthermore, the terminal can re-determine a measurement bandwidth value on the basis of the bandwidth mitigation state information, and perform cell measurement according to the re-determined measurement bandwidth value, thereby being able to reduce the overheads during measurement by the terminal.

No. of Pages : 29 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042149 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : INTELLIGENT ASSISTANT CONTROL METHOD AND TERMINAL DEVICE

(51) International classification :H04N5/232
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2018/080555
Filing Date :26/03/2018
(87) International Publication No :WO 2019/183775
(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)SONG, Lei
2)GUO, Xin
3)CHEN, Xiaomeng
4)ZHANG, Yunchao
5)CHEN, Xin

(57) Abstract :

An intelligent assistant control method and a terminal device. The method comprises: a terminal device starting a camera; the terminal device displaying a preview interface on a display screen; the preview interface comprising an object to be photographed; after determining that the preview interface is stably displayed for a preset duration, the terminal device displaying on the preview interface first prompt information concerning a photographing mode, the first prompt information being used to recommend a first photographing mode to a user, and the first photographing mode being determined by the terminal device according to scene information concerning said object. In said method, after determining that the preview interface outputs stably, the terminal device considers that the user has determined a photographing angle, and then recommends an optimal photographing mode to the user, thereby improving user experience in a more intelligent manner.

No. of Pages : 35 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042150 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DATA PROCESSING METHOD AND APPARATUS

(51) International classification :H04L12/841
(31) Priority Document No :201810301182.4
(32) Priority Date :04/04/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/081544
Filing Date :04/04/2019
(87) International Publication No :WO 2019/192606
(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 :Huawei Administration Building,
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1)XU, Xiaoying
2)ZHOU, Guohua
3)LIU, Xing
4)ZENG, Qinghai
5)JI, Li

(57) Abstract :

Provided are a data processing method and apparatus. In the data processing method. A first terminal acquires packet delay budget adjustment information, wherein the packet delay budget adjustment information is used for indicating an adjusted packet delay budget, or a packet delay budget adjustment amount or a packet delay budget adjustment range; the first terminal adjusts the size of a jitter buffer region according to the packet delay budget adjustment information; and then caches data according to the adjusted jitter buffer region. By means of the data processing method, the size of a jitter buffer region can be adjusted in a relatively rapid manner, such that the voice quality can be improved.

No. of Pages : 57 No. of Claims : 54

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042165 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD FOR MACHINING AT LEAST ONE ELECTRICAL ENCLOSURE

(51) International classification	:H02B3/00	(71)Name of Applicant :
(31) Priority Document No	:10 2018 109 606.2	1)RITTAL GMBH & CO. KG
(32) Priority Date	:20/04/2018	Address of Applicant :Auf dem St ¹ /tzelberg 35745 Herborn
(33) Name of priority country	:Germany	Germany
(86) International Application No	:PCT/DE2019/100274	(72)Name of Inventor :
Filing Date	:22/03/2019	1)HAIN, Markus
(87) International Publication No	:WO 2019/201377	2)HOLIGHAUS, Heiko
(61) Patent of Addition to Application	:NA	3)BOEHME, Siegfried
Number	:NA	4)MARTIN, Lars
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a method for machining at least one electrical enclosure, having the steps of: - providing at least one electrical enclosure which consists of multiple parts and has at least one removably assembled component; - disassembling and removing the removably assembled component from the electrical enclosure; - machining the disassembled and removed component and providing the machined component for reassembling on the corresponding electrical enclosure; and - reattaching the machined component provided for reassembly to the corresponding electrical enclosure. The invention is characterized in that the at least one electrical enclosure has an individual machine-readable electrical enclosure marker, and the at least one removably assembled component has an individual machine-readable component marker, said markers being assigned to each other. The step of reattaching the component to the electrical enclosure includes the process of machine-reading the machine-readable marker and the process of joining the component and the electrical enclosure which have markers that are assigned to each other.

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042179 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PROCESS AND PLANT FOR ENERGY EFFICIENT THERMAL TREATMENT OF BULK MATERIAL

(51) International classification	:C22B1/20,F27B21/06	(71) Name of Applicant :
(31) Priority Document No	:NA	1)OUTOTEC (FINLAND) OY
(32) Priority Date	:NA	Address of Applicant :Rauhalanpuisto 9 02230 Espoo Finland
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:PCT/EP2018/056105	1)BERGMANN, Matthias
Filing Date	:12/03/2018	
(87) International Publication No	:WO 2019/174714	
(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 thermal treatment of bulk material, whereby the bulk material passes in at least one drying zone, one preheating zone, one firing zone and a cooling zones via a travelling grate chain. The travelling grate chain is capable of revolving in direction of movement comprising an endless travelling grate with moveable links. It features a plurality of grate carriages each consisting of a frame with wheels and grate rods being arranged on crossbars. Gas flows through the grate carriages and their grate rods from or into wind boxes. From a wind box in the cooling zone, which is installed downwards of a first wind box of the cooling zone and which sucks the cooling gas medium in, the cooling gas is recirculated via a recycling conduit featuring at least one fan into one wind box of the drying zone. Downwards of the fan, parts of the cooling gas are branched off via a bypass conduit and led back into the wind box of the first cooling zone blowing the gas medium. The cooling gas in the recycling and the bypass conduit is controlled with at least one pressure control valve, which enables draining of cooling gas as an exhaust.

No. of Pages : 13 No. of Claims : 12

(54) Title of the invention : MEMBRANE APPARATUS HAVING IMPROVED FORWARD OSMOSIS PERFORMANCE AND METHOD FOR SEPARATING SOLUTION USING SAME

(51) International classification: B01D61/00, B01D61/36, C02F1/44
 (31) Priority Document No : 10-2018-0084959
 (32) Priority Date : 20/07/2018
 (33) Name of priority country : Republic of Korea
 (86) International Application No : PCT/KR2019/003180
 Filing Date : 19/03/2019
 (87) International Publication No : WO 2020/017729
 (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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2) HARVIANTO, Gregorius Rionugroho
3) KIM, Kwang Hyun

(57) **Abstract :**
 A membrane apparatus comprises: a housing; a forward osmosis membrane which divides an inner space of the housing into an inflow region and a mixing region; and a pervaporation membrane which divides the inner space of the housing into the mixing region and a discharge region, wherein the forward osmosis membrane separates a preliminary permeate from an influent provided in the inflow region and provides the preliminary permeate to the mixing region, the preliminary permeate being mixed with a forward osmosis induction solution in the mixing region to produce a mixed solution, and wherein the pervaporation membrane separates a final permeate from the mixed solution and provides the final permeate to the discharge region, the final permeate being evaporated in the discharge region to produce steam.

No. of Pages : 49 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042199 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : EFFECT PIGMENTS BASED ON COLORED HECTORITES AND COATED COLORED HECTORITES AND MANUFACTURE THEREOF

(51) International classification :C09B67/00,C08K3/34,C01B33/44
(31) Priority Document No :18165577.0
(32) Priority Date :04/04/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/058526
Filing Date :04/04/2019
(87) International Publication No :WO 2019/193104
(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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1)GRNER, Michael
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3)BREU, Josef
4)HAUSNER, Josef

(57) Abstract :

This invention deals with effect pigment comprising a colored hectorite which is produced by ion exchange process of an initial hectorite with a cationic dye, wherein the initial hectorite can be represented by the formula (I) wherein n is the charge of K and $z = x+2y$ with $0.2 < z < 0.8$; $x = 0 - 0.8$; $y = 0 - 0.4$; K is a cation chosen from a first group consisting of Li⁺, Na⁺, K⁺, 4⁺, Rb⁺, Cs⁺, Mg²⁺, Ca²⁺, Sr²⁺, Ba²⁺ or mixtures thereof or from a second group consisting of alkylammonium salts with 2 to 8 C-atoms, wherein the alkyl can be branched or linear, or from a mixture of cations from the first and the second group and represents not occupied octahedral lattice sites. Furthermore, these colored hectorites can have a coating thereon comprising at least one layer with a high index of refraction > 1.8 or a semitransparent metal and optionally an outer protective layer.

No. of Pages : 45 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042201 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : FRUCTOSE PURIFICATION METHOD

(51) International classification :B01D15/18,B01D15/36,C13B20/14
(31) Priority Document No :18305504.5
(32) Priority Date :23/04/2018
(33) Name of priority country:EPO
(86) International Application No :PCT/EP2019/060254
Filing Date :22/04/2019
(87) International Publication No :WO 2019/206841
(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 :Site Eiffel - boulevard de la Moselle
54340 Pompey France
(72)**Name of Inventor :**
1)EBRAN, Teddy
2)THIBAUT, Guillaume

(57) Abstract :

The invention relates to a method for purifying a mixture to be separated containing fructose, in a multi-column chromatography system, said method successively comprising, in a cyclical manner: a step of collecting a raffinate, a step of injecting the mixture to be separated, a step of collecting an extract and a step of injecting eluant; in which the mixture to be separated has a mass concentration of dry matter of between 45 and 55%, the method being implemented at a temperature of between 50 and 62°C.

No. of Pages : 25 No. of Claims : 15

(54) Title of the invention : METHOD FOR CHROMATOGRAPHIC PURIFICATION OF VISCOUS LOADS

(51) International classification :B01D15/18,B01D15/36,C13B20/14
 (31) Priority Document No :18305503.7
 (32) Priority Date :23/04/2018
 (33) Name of priority country:EPO
 (86) International Application No :PCT/EP2019/060255
 Filing Date :22/04/2019
 (87) International Publication No :WO 2019/206842
 (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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 54340 Pompey France
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1)VALERY, Eric
2)PRIEUR, Cdric

(57) Abstract :

The invention concerns a method for purifying a mixture to be separated, in a multi-column chromatographic system, the method comprising successively, in a cyclic manner: - a step of collecting a refinement, a step of injecting the mixture to be separated, a step of collecting an extract and a step of injecting eluent, at an operating temperature; wherein the mixture to be separated has a viscosity at 20°C greater than or equal to 3 mPa.s; and wherein the mass concentration of dry matter of the mixture to be separated is equal to close to 5% at a threshold concentration, said threshold concentration being such that: - the viscosity of the mixture to be treated, at a mass concentration of dry matter equal to the threshold concentration and at the operating temperature, is equal to twice the viscosity of the mixture to be treated, at a mass concentration of dry matter equal to 85% of the threshold concentration and at the operating temperature.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042204 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ANTHRACYCLINE ENCAPSULATED WITH POLYSACCHARIDE FOR USE IN THE TREATMENT OF TUMOURS

(51) International classification :A61K9/00,A61K9/16,A61K47/69

(31) Priority Document No :P.424773

(32) Priority Date :06/03/2018

(33) Name of priority country :Poland

(86) International Application No :PCT/PL2019/050014
Filing Date :05/03/2019

(87) International Publication No :WO 2019/172790

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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6)SOBIECKA, Agnieszka

7)KOSNIK, Wioletta

8)PIETRAS, Joanna

9)ZERO, Pawel

10)ZUK, Pawel

11)MALKOWSKA, Justyna

12)ADAMSKA, Kinga

13)CHROMINSKI, Mikolaj

(57) Abstract :

The invention relates to a new form of a drug in the form of anthracycline encapsulated with a polysaccharide selected from epirubicin, daunorubicin, doxorubicin, idarubicin, especially encapsulated with dextran, for use in the treatment of specific tumours.

No. of Pages : 35 No. of Claims : 15

(54) Title of the invention : METHOD FOR MAKING FRUCTOSE FROM GLUCOSE

<p>(51) International classification :C13K11/00,B01D15/18,C12N9/92</p> <p>(31) Priority Document No :18305502.9</p> <p>(32) Priority Date :23/04/2018</p> <p>(33) Name of priority country :EPO</p> <p>(86) International Application No :PCT/EP2019/060256</p> <p style="padding-left: 20px;">Filing Date :22/04/2019</p> <p>(87) International Publication No :WO 2019/206843</p> <p>(61) Patent of Addition to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p>	<p>(71)Name of Applicant : 1)NOVASEP PROCESS Address of Applicant :Site Eiffel - boulevard de la Moselle 54340 Pompey France</p> <p>(72)Name of Inventor : 1)BRICHANT, Damien 2)VALERY, Eric</p>
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(57) Abstract :

The invention relates to a method for producing a fructose composition comprising the following successive steps: - providing an initial composition comprising glucose; - concentrating the initial composition by evaporation of water in order to obtain a concentrated initial composition; - isomerising the glucose into fructose from the concentrated initial composition, whereby an intermediate composition is obtained; - purifying the intermediate composition in a multi-column chromatography system, whereby a raffinate which is rich in glucose and an extract which is rich in fructose are obtained; - concentrating the extract by evaporation of water; the intermediate composition not undergoing a step of concentrating by evaporation of water between the isomerisation step and the purification step.

No. of Pages : 26 No. of Claims : 18

(54) Title of the invention : DISPENSER OF BULK MATERIAL

(51) International classification	:A47J31/40,A47J42/50	(71)Name of Applicant :
(31) Priority Document No	:18174477.2	1)SOCIETE DES PRODUITS NESTLE S.A.
(32) Priority Date	:28/05/2018	Address of Applicant :Entre-deux-Villes 1800 Vevey
(33) Name of priority country	:EPO	Switzerland
(86) International Application No	:PCT/EP2019/062435	(72)Name of Inventor :
Filing Date	:15/05/2019	1)MOREND, Joël
(87) International Publication No	:WO 2019/228800	2)YANG, Lin
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention concerns A container (10) for storing, metering and dispensing bulk material, the container comprising : - a tank (1) to store the bulk material, said tank comprising a close top end and an opened bottom end, and said tank presenting an essentially cylindrical shape, - a dispensing closure (2) to dispense the bulk material from the opened bottom end of the tank, said dispensing closure comprising :. an inner rotatable member (22) with at least one aperture (221), said inner rotatable member being rotatable around a longitudinal central axis (XX) and said inner rotatable member comprising central connecting means (223) designed to removably engage with a rotating shaft extending along the central axis (XX),. an outer fixed member (21) with a central aperture (213) and at least one outlet aperture (211) therein, wherein the inner rotatable member (22) is configured for being selectively rotatable with respect to the outer fixed member (21) such that at least in one rotational position of the inner member, the at least one aperture (221) of the inner member overlaps with the at least one outlet aperture (211) of the outer fixed member for enabling the dispensing of the bulk material from the container, wherein the tank comprises at least one longitudinal straight rib (15) projecting inside the internal volume of the tank.

No. of Pages : 15 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042233 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PIEZOELECTRIC SENSOR ARRANGEMENT AND A METHOD OF DISCRIMINATING SIGNALS

(51) International classification	:F42C11/02	(71) Name of Applicant :
(31) Priority Document No	:1800060-4	1)SAAB AB
(32) Priority Date	:19/03/2018	Address of Applicant :58188 Linkping Sweden
(33) Name of priority country	:Sweden	(72) Name of Inventor :
(86) International Application No	:PCT/SE2019/050231	1)HOLM, Tony
Filing Date	:15/03/2019	2)-STLUND, Johan
(87) International Publication No	:WO 2019/182495	
(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 piezoelectric sensor arrangement for use in a projectile (2) comprising a piezoelectric sensor (6) enveloped by a damping layer (5) adapted to attenuate signals of frequencies above a predetermined cutoff frequency whereby the voltage output signal (9) of the piezoelectric sensor (6) upon impact on a desired hard target can be discriminated from voltage output signals (8) originating from impact on undesired soft objects. The invention also relates to a method of discriminating voltage outlet signals (8, 9) by means of the piezoelectric sensor arrangement described herein. The invention also relates to the use of a piezoelectric sensor arrangement in a projectile to safeguard unintentional detonation does not occur.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042234 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ARGINASE INHIBITORS

(51) International classification:A61K31/69,C07F5/02,A61P35/00

(31) Priority Document No :62/638412

(32) Priority Date :05/03/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/020507

Filing Date :04/03/2019

(87) International Publication No :WO 2019/173188

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)ARCUS BIOSCIENCES, INC.

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(72)Name of Inventor :

1)FOLEY, Corinne, Nicole

2)GRANGE, Rebecca, Louise

3)GUNEY, Tezcan

4)KALISIAK, Jaroslaw

5)NEWCOMB, Eric, Thomas

6)TRAN, Anh, Thu

(57) Abstract :

Compounds that are inhibitors of at least one of the ARG1 and ARG2, and compositions containing the compounds and methods for synthesizing the compounds, are described herein. The use of such compounds and compositions for the treatment of a diverse array of diseases, disorders, and conditions, including cancer- and immune-related disorders that are mediated, at least in part, by ARG1 and ARG2 are also described herein.

No. of Pages : 73 No. of Claims : 32

(54) Title of the invention : METHOD FOR PRODUCING SINGLE-STRAND RNA

(51) International classification :C12P19/34,C12N15/10,C12N15/113
 (31) Priority Document No :2018-069560
 (32) Priority Date :30/03/2018
 (33) Name of priority country :Japan
 (86) International Application No :PCT/JP2019/013631
 Filing Date :28/03/2019
 (87) International Publication No :WO 2019/189591
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)SUMITOMO CHEMICAL COMPANY, LIMITED
 Address of Applicant :27-1, Shinkawa 2-chome, Chuo-ku,
 Tokyo 1048260 Japan
 (72)**Name of Inventor :**
1)SAKATA Akihiro

(57) Abstract :

This method is for producing a single-strand RNA and comprises a step for causing an RNA ligase which has nick repair activity and which is classified as EC6.5.1.3, which is an enzyme number specified by the International Union of Biochemistry and Molecular Biology, to act on a first single-strand RNA and second single-strand RNA each having a phosphoric acid group at the 5 end thereof, and a third single-strand RNA having a hydroxy group at the 5 end thereof, to link the first single-strand RNA, the second single-strand RNA, and the third single-strand RNA together.

No. of Pages : 47 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042240 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : TOPICAL AND TRANSDERMAL DELIVERY OF AN IRON CHELATOR TO PREVENT AND TREAT CHRONIC WOUNDS

(51) International classification :A61K9/00,A61K9/10,A61K31/164
(31) Priority Document No :62/648731
(32) Priority Date :27/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/024405
Filing Date :27/03/2019
(87) International Publication No :WO 2019/191309
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)TAUTONA GROUP IP HOLDING COMPANY, L.L.C.
Address of Applicant :604 Fifth Ave., Suite D Redwood City, CA 94063 U.S.A.
(72)**Name of Inventor :**
1)GURTNER, Geoffrey, C.

(57) Abstract :

A transdermal patch for the treatment of Sickle Cell Ulcers is provided. The patch can facilitate the delivery of an iron chelator, such as DFO. The DFO can be encapsulated in a reverse micelle to enhance penetration into and absorption by the dermis. The patch can be used to accelerate healing and reduce pain associated with Sickle Cell Ulcers.

No. of Pages : 18 No. of Claims : 56

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042256 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PASS ROLL FOR HOT-DIP GALVANIZED STEEL SHEET MANUFACTURING EQUIPMENT, HOT-DIP GALVANIZED STEEL SHEET MANUFACTURING EQUIPMENT, AND METHOD FOR MANUFACTURING HOT-DIP GALVANIZED STEEL SHEET

(51) International classification :C23C2/00,C23C2/06,C23C2/40
(31) Priority Document No :2018-098931
(32) Priority Date :23/05/2018
(33) Name of priority country :Japan
(86) International Application No:PCT/JP2019/016634
Filing Date :18/04/2019
(87) International Publication No :WO 2019/225236
(61) 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
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Tokyo 1008071 Japan
(72)**Name of Inventor :**
1)OOHASHI, Tooru

(57) Abstract :

This pass roll for hot-dip galvanized steel sheet manufacturing equipment has a roll body and a heat-resistant felt layer that covers the roll body, wherein the heat-resistant felt layer has a thermal decomposition temperature of 420°C or higher, and a surface hardness evaluation index at 400°C is more than 0.11 $\mu\text{m}/\text{N}$.

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

(54) Title of the invention : METHOD FOR PRODUCING UREA

(51) International classification :C07C273/04,C07C275/00,C23F15/00
 (31) Priority Document No :2018-077244
 (32) Priority Date :13/04/2018
 (33) Name of priority country :Japan
 (86) International Application No :PCT/JP2019/014847
 Filing Date :03/04/2019
 (87) International Publication No :WO 2019/198600
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)TOYO ENGINEERING CORPORATION
 Address of Applicant :1-5-1, Marunouchi, Chiyoda-ku, Tokyo
 1006511 Japan
 (72)**Name of Inventor :**
1)NAGASHIMA Eiki
2)TAKAHASHI Masashi

(57) Abstract :

[Problem] To provide a method for producing urea that curbs corrosion of a urea plant and increases the reaction yield. [Solution] A method for producing urea from raw production materials including NH₃ and CO₂ at a urea production plant, wherein: the urea production plant comprises a plurality of treatment devices including a reactor, a stripper, and a condenser, as well as a plurality of lines; inner wall surfaces of the plurality of treatment devices and the plurality of lines are made of stainless steel; at least some of the plurality of lines are made of austenitic stainless steel; and the urea production method comprises supplying oxygen added to CO₂, which is a raw production material, thereby forming a passive film on the inner wall surfaces of the plurality of treatment devices and of the plurality of lines, and continuously measuring the thickness of the lines made of austenitic stainless steel and adjusting the amount of oxygen supplied in accordance with the measurement values for thickness, thereby controlling the rate of corrosion and the urea reaction yield.

No. of Pages : 36 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042262 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHODS AND APPARATUSES FOR REFERENCE SIGNAL CONFIGURATION

(51) International classification :H04L5/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2018/081625
Filing Date :02/04/2018
(87) International Publication No :WO 2019/191871
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)NEC CORPORATION
Address of Applicant :7-1, Shiba 5-Chome Minato-ku Tokyo
108-8001 Japan
2)GAO, Yukai
(72)**Name of Inventor :**
1)GAO, Yukai
2)GAO, Yukai

(57) Abstract :

Embodiments of the present disclosure relate to methods and apparatuses for Reference Signal (RS) transmission. In example embodiments, a method implemented in a network device is provided. According to the method, the network device determines at least one set of CSI-RS resources for transmitting Tracking Reference Signal (TRS) to a terminal device. The network device further determines a first offset between a first slot to transmit a first signal for enabling transmission of the TRS and a second slot to transmit the TRS in the at least one set of CSI-RS resources. The first offset is different from a second offset between a third slot to transmit a second signal for enabling transmission of CSI-RS and a fourth slot to transmit the CSI-RS. The network device transmits a configuration indicating the at least one set of CSI-RS resources and the first offset to the terminal device.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042288 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD AND APPARATUS FOR TERMINATING CELLULAR NETWORK CONNECTION OF UNAUTHENTICATED TERMINAL

(51) International classification	:H04W48/02,H04W76/30	(71)Name of Applicant :
(31) Priority Document No	:10-2018-0037402	1)SAMSUNG ELECTRONICS CO., LTD.
(32) Priority Date	:30/03/2018	Address of Applicant :129, Samsung-ro, Yeongtong-gu
(33) Name of priority country	:Republic of Korea	Suwon-si, Gyeonggi-do 16677 Republic of Korea
(86) International Application No	:PCT/KR2019/003649	(72)Name of Inventor :
Filing Date	:28/03/2019	1)BAEK, Youngkyo
(87) International Publication No	:WO 2019/190228	2)KIM, Sunghoon
(61) Patent of Addition to Application Number	:NA	3)SON, Jungje
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method and an apparatus for terminating a cellular network connection of a terminal that is connected without authentication are provided. The disclosure relates to a communication technique and a system for fusing a 4th generation (4G) system and a 5th generation (5G) communication system to support higher data rates, which is subsequent to the 4G system, with Internet-of-things (IoT) technology. The disclosure may be applied to intelligent services (e.g., smart home, smart buildings, smart cities, smart cars or connected cars, healthcare, digital education, retail business, security and safe-related services, or the like) based on 5G communication technology and IoT-related technology.

No. of Pages : 20 No. of Claims : 15

(54) Title of the invention : METHOD OF MAKING CONFINED NANOCATALYSTS WITHIN MESOPOROUS MATERIALS AND USES THEREOF

(51) International classification :B01J35/00,B01J31/16,B01J29/70
 (31) Priority Document No :62/647949
 (32) Priority Date :26/03/2018
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/US2019/023989
 Filing Date :26/03/2019
 (87) International Publication No :WO 2019/191034
 (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)LUZ MINGUEZ, Ignacio
2)SOUKRI, Mustapha
3)LAIL, Marty
4)CARPENTER, John R.
5)PARVATHIKAR, Sameer
6)CARPENTER, Michael

(57) Abstract :

The present disclosure provides methods of making confined nanocatalysts within mesoporous materials (MPMs). The methods utilize solid state growth of nanocrystalline metal organic frameworks (MOFs) followed by controlled transformation to generate nanocatalysts in situ within the mesoporous material. The disclosure also provides applications of the nanocatalysts to a wide variety of fields including, but not limited to, liquid organic hydrogen carriers, synthetic liquid fuel preparation, and nitrogen fixation.

No. of Pages : 32 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042295 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : P2RX7 MODULATORS IN THERAPY

(51) International classification :A61K31/4015,A61K31/4025,A61K31/4439
(31) Priority Document No :18305361.0
(32) Priority Date :29/03/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/058013
Filing Date :29/03/2019
(87) International Publication No :WO 2019/185868
(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA
(62) Divisional to :NA
Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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3)UNIVERSITE CTE D'AZUR

4)INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM)

5)UNIVERSIT% DE LILLE

6)YNCREA HAUTS DE FRANCE

(72)Name of Inventor :

1)VOURET, Valrie

2)DOUGUET, Laetitia

3)GHINET, Alina

4)HOMERIN, Germain

5)RIGO, Beno@t Guy Marie

6)BAUDELET, Davy Jrmy

7)DEZITTER, Xavier

8)MILLET, Rgis

9)FURMAN, Christophe

(57) Abstract :

The present invention relates to compounds of formula (I), their enantiomers and their pharmaceutically acceptable salts, and their use in therapy, particularly for the prevention and/or treatment of cancer or inflammatory diseases.

No. of Pages : 61 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042352 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PHOSPHOLIPID-FLAVAGLINE CONJUGATES AND METHODS OF USING THE SAME FOR TARGETED CANCER THERAPY

(51) International classification :A61K31/337,A61K31/395,A61K31/537
(31) Priority Document No :62/655659
(32) Priority Date :10/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/026853
Filing Date :10/04/2019
(87) International Publication No :WO 2019/200017
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)CELLECTAR BIOSCIENCES, INC.
Address of Applicant :3301 Agriculture Drive Madison, WI 53716 U.S.A.
(72)**Name of Inventor :**
1)LONGCOR, Jarrod

(57) Abstract :

Disclosed herein are phospholipid ether (PLE) molecules. Further provided are phospholipid-flavagline conjugates. The phospholipid-flavagline conjugate may include a PLE conjugated to a flavagline via a linker. Further provided herein are methods of treating cancer in a subject and methods of targeting a drug to a tumor or cancer cell in a subject.

No. of Pages : 42 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042353 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : FRACTIONATED DOSING OF A PHOSPHOLIPID ETHER ANALOG FOR THE TREATMENT OF CANCER

(51) International classification :A61K51/04
(31) Priority Document No :62/655615
(32) Priority Date :10/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/026828
Filing Date :10/04/2019
(87) International Publication No :WO 2019/199998
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)CELLECTAR BIOSCIENCES INC.
Address of Applicant :3301 Agriculture Drive Madison, WI
53716 U.S.A.
(72)**Name of Inventor :**
1)LONGCOR, Jarrod

(57) Abstract :

Disclosed herein is a fractionated dosing regimen of 131I-labeled 18-(p-iodo-phenyl)octadecyl phosphocholine for the treatment of cancer.

No. of Pages : 25 No. of Claims : 12

(54) Title of the invention : VIEWPORT DEPENDENT VIDEO STREAMING EVENTS

(51) International classification :H04N21/81,H04N21/218,H04N21/442
 (31) Priority Document No :62/646750
 (32) Priority Date :22/03/2018
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/US2019/023159
 Filing Date :20/03/2019
 (87) International Publication No :WO 2019/183217
 (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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 Wilmington, Delaware 19809 U.S.A.
 (72)**Name of Inventor :**
1)HE, Yong
2)YE, Yan
3)HAMZA, Ahmed

(57) Abstract :

Systems and methods described herein provide for rendering and quality monitoring of rendering of a 360-degree video, where the video has a plurality of representations with different levels of quality in different regions. In an exemplary method, a client device tracks a position of a viewport with respect to the 360-degree video and renders to the viewport a selected set of the representations. The client adaptively adds and removes representations from the selected set based on the viewport position. The client also measures and reports a viewport switching latency. In some embodiments, the latency for a viewport switch is a comparable-quality viewport switch latency that represents the time it takes after a viewport switch to return to a quality comparable to the pre-switch viewport quality.

No. of Pages : 41 No. of Claims : 15

(54) Title of the invention : METHOD FOR PREPARING ACRYLIC ACID

(51) International classification :C07C45/35,C07C47/22,C07C51/25

(31) Priority Document No :62/645860

(32) Priority Date :21/03/2018

(33) Name of priority country:U.S.A.

(86) International Application No :PCT/US2019/018876

Filing Date :21/02/2019

(87) International Publication No :WO 2019/182713

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)ROHM AND HAAS COMPANYAddress of Applicant :400 Arcola Road Collegeville, PA
19426 U.S.A.

(72)Name of Inventor :

1)EBERT, Donald A.**2)HALE, Timothy Allen****3)KEYES, Brian Robert****4)ROSE, Justin****5)XU, Jinsuo**

(57) Abstract :

Provided is a process for preparing acrylic acid comprising (1) preparing acrolein by catalytic gas phase oxidation comprising (a) providing a reaction gas comprising (i) 5 to 10 mol % propylene, (ii) 0.02 to 0.75 mol % propane, and (iii) 0.25 to 1.9 mol % of a fuel mixture comprising at least one of methane and ethane, wherein the molar ratio of the total amount of propane, methane, and ethane to the total amount of propylene is from 0.01:1 to 0.25:1, (b) contacting the reaction gas with a first mixed metal oxide catalyst to form a mixture comprising acrolein, wherein the first mixed metal oxide catalyst comprises one or more of molybdenum, bismuth, cobalt, and iron, and (2) contacting the acrolein mixture with a second mixed metal oxide catalyst to form a mixture comprising acrylic acid, wherein the second mixed metal oxide catalyst comprises one or more of molybdenum, vanadium, tungsten, copper, and antimony.

No. of Pages : 13 No. of Claims : 10

(54) Title of the invention : GRID FOR BIPOLAR PLATE

<p>(51) International classification :H01M4/72,H01M4/73</p> <p>(31) Priority Document No :201810263543.0</p> <p>(32) Priority Date :28/03/2018</p> <p>(33) Name of priority country :China</p> <p>(86) International Application No :PCT/CN2018/110987</p> <p style="padding-left: 20px;">Filing Date :19/10/2018</p> <p>(87) International Publication No :WO 2019/184311</p> <p>(61) Patent of Addition to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p>	<p>(71)Name of Applicant : 1)TIANNENG BATTERY GROUP CO., LTD. Address of Applicant :No. 18 Baoqiao Road, Huaxi Industrial Zone, Changxing County Huzhou, Zhejiang 313100 China</p> <p>(72)Name of Inventor : 1)LI, Guifa 2)ZHAO, Haimin 3)GUO, Zhigang 4)CUI, Haitao 5)LIU, Yu 6)DENG, Chengzhi 7)BAI, Lili 8)CHEN, Qiang 9)DING, Bofen 10)TIAN, Qingshan 11)LI, Dan 12)SHI, Lu 13)SONG, Wenlong</p>
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(57) Abstract :

Disclosed is a grid for a bipolar plate. The grid comprises an insulating substrate and lead bars passing through the insulating substrate to electrically conduct active materials at two sides. A periphery of the insulating substrate is provided with through holes for the lead bars to pass through. Heat-sealable films sealing the through holes are provided on two side surfaces of the insulating substrate. Middle portions of the heat-sealable films are provided with openings to allow the lead bars to be at least partially exposed to and in contact with the active materials. Insulating bezels covering and concealing regions of the through holes in the insulating substrate are provided at outer sides of the heat-sealable films. The insulating bezels enclose and form a cavity accommodating the active materials. The grid of the present invention separates functional requirements of grids for bipolar plates, and uses lead bars, insulating substrate, and heat-sealable film to achieve respective functions, such that each component only needs to meet a material requirement for the function to be performed by itself, achieving a grid having superior comprehensive performance. The invention lowers material requirements, thus lowering costs, and improves the effectiveness of seals, the binding capacity of active materials, and the like.

No. of Pages : 10 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042395 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : MEDICAL INSTRUMENT AND MEDICAL METHOD FOR LOCALIZED DRUG DELIVERY

(51) International classification :A61M5/00,A61B17/34,A61F2/958
(31) Priority Document No :62/642743
(32) Priority Date :14/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/022054
Filing Date :13/03/2019
(87) International Publication No :WO 2019/178228
(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 :1900 Powell Street Suite 800
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(72)**Name of Inventor :**
1)SEWARD, Kirk P.
2)GANDIONCO, David
3)SKARSFELDT, Amy
4)KNAUER, Alexandra

(57) Abstract :

Disclosed herein are medical instrument and medical method for localized drug delivery. The medical instrument can comprise a catheter shaft assembly, a hub coupled to the proximal end of the catheter shaft assembly, an inflatable component at the distal end of the catheter shaft assembly, a tissue penetrating member coupled to the inflatable component in an orientation transverse to the longitudinal axis of the catheter shaft assembly, and at least one protective element coupled to the inflatable component in proximity to the tissue penetrating member. The protective element can be configured to prevent any damage of the inflatable body during a placement of the medical instrument and an actuation of the inflatable component.

No. of Pages : 44 No. of Claims : 113

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042396 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : COMPOSITIONS AND METHODS FOR EVALUATING ATTENUATION AND INFECTIVITY OF LISTERIA STRAINS

(51) International classification :G01N33/50
(31) Priority Document No :62/640855
(32) Priority Date :09/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/021303
Filing Date :08/03/2019
(87) International Publication No :WO 2019/173684
(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)MOLLI, Poonam
2)WALLECHA, Anu

(57) Abstract :

Methods and compositions are provided for assessing attenuation and/or infectivity of bacteria or Listeria strains, such as Listeria monocytogenes.

No. of Pages : 89 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042399 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SILICON-TERMINATED ORGANO-METAL COMPOUNDS AND PROCESSES FOR PREPARING THE SAME

(51) International classification :C07F7/08,C07F5/06,C07F5/02	(71)Name of Applicant :
(31) Priority Document No :62/644664	1)DOW GLOBAL TECHNOLOGIES LLC
(32) Priority Date :19/03/2018	Address of Applicant :2040 Dow Center Midland, MI 48674
(33) Name of priority country :U.S.A.	U.S.A.
(86) International Application No :PCT/US2019/022772	(72)Name of Inventor :
Filing Date :18/03/2019	1)SUN, Lixin
(87) International Publication No :WO 2019/182983	2)HUSTAD, Phillip D.
(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 a silicon-terminated organo-metal composition comprising a compound of formula (I). Embodiments relate to a process for preparing the silicon-terminated organo-metal composition comprising the compound of formula (I), the process comprising combining starting materials comprising (A) a vinyl-terminated silicon-based compound and (B) a chain shuttling agent, thereby obtaining a product comprising the silicon-terminated organo-metal composition. In further embodiments, the starting materials of the process may further comprise (C) a solvent.

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

(54) Title of the invention : 177LU-DOTA-HYNIC-IP SMA AS A THERAPEUTIC RADIOPHARMACEUTICAL TARGETING PROSTATE-SPECIFIC MEMBRANE ANTIGEN

(51) International classification :C07F13/00,A61K51/04,A61P35/00
 (31) Priority Document No :MX/a/2018/003175
 (32) Priority Date :14/03/2018
 (33) Name of priority country :Mexico
 (86) International Application No :PCT/MX2019/000025
 Filing Date :07/03/2019
 (87) International Publication No :WO 2019/177449
 (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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2)OCAMPO GARC • A, Blanca Eli
3)LUNA GUTI%RREZ, Myrna Alejandra
4)SANTOS CUEVAS, Clara Leticia
5)AZOR • N VEGA, Erika Patricia
6)JIM%NEZ MANCILLA, Nallely Patricia
7)HERN • NDEZ JIM%NEZ, Tania
8)RAM • REZ DE LA CRUZ, Flor de Mara

(57) Abstract :

The invention relates to a new lutetium-177 therapeutic radiopharmaceutical as an inhibitor of prostate-specific membrane antigen (iPSMA), wherein 1,4,7,10-tetraazacyclododecane-N,N',N'',N''''-tetraacetic acid (DOTA) bonded to the heterocyclic molecule hydrazinonicotinamide (HYNIC), generates a rigid chemical structure that minimises the number of conformers and intramolecular hydrogen bonds, thereby producing a favourable spatial orientation of the active site (Lys(Nal)-NH-CO-NH-Glu) in the molecule, for biological recognition by the PSMA protein. The new 177Lu-DOTA-HYNIC-iPSMA radiopharmaceutical accumulates, with high affinity in vivo, in tumours that overexpress the PSMA protein, acting as a radiotherapeutic agent. The purpose of the invention is to provide a new specific radiopharmaceutical (molecular target radiopharmaceutical) for the treatment of tumours with PSMA overexpression.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042401 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : THIOL-ACRYLATE POLYMERS, METHODS OF SYNTHESIS THEREOF AND USE IN ADDITIVE MANUFACTURING TECHNOLOGIES

<p>(51) International classification :G03F7/027 (31) Priority Document No :62/649130 (32) Priority Date :28/03/2018 (33) Name of priority country :U.S.A. (86) International Application No :PCT/US2019/024704 Filing Date :28/03/2019 (87) International Publication No :WO 2019/191509 (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)LUND, Benjamin Address of Applicant :c/o Adaptive 3D Technologies, LLC 17217 Waterview Pkwy., Ste. 1.202 Dallas, TX 75252 U.S.A. 2)HUFFSTETLER, Jesse 3)ZAMORANO, Daniel 4)DAS, Sushanta 5)NIERMANN, Crystal 6)LUND, Caleb 7)NGUYEN, Amy 8)WU, Yili 9)VOIT, Walter (72)Name of Inventor : 1)LUND, Benjamin 2)HUFFSTETLER, Jesse 3)ZAMORANO, Daniel 4)DAS, Sushanta 5)NIERMANN, Crystal 6)LUND, Caleb 7)NGUYEN, Amy 8)WU, Yili 9)VOIT, Walter</p>
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(57) Abstract :

The present disclosure relates to thiol-acrylate photopolymerizable resin compositions. The resin compositions may be used for additive manufacturing. One embodiment of the invention includes a photopolymerizable resin for additive manufacturing in an oxygen environment, the resin comprising: a crosslinking component; at least one monomer and/or oligomer; and a chain transfer agent comprising at least one of a thiol, a secondary alcohol, and/or a tertiary amine, wherein the resin may be configured to react by exposure to light to form a cured material.

No. of Pages : 59 No. of Claims : 405

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042402 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ELECTRICAL CONNECTOR

(51) International classification	:H01R13/71,H01R24/00	(71) Name of Applicant :
(31) Priority Document No	:10 2018 105 486.6	1)EATON INTELLIGENT POWER LIMITED
(32) Priority Date	:09/03/2018	Address of Applicant :30 Pembroke Road Dublin, 4 Ireland
(33) Name of priority country	:Germany	(72) Name of Inventor :
(86) International Application No	:PCT/EP2019/025063	1)NAUMANN, Reiner
Filing Date	:08/03/2019	2)WISCHGOLL, Lars
(87) International Publication No	:WO 2019/170294	
(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 electrical connector (1) having a plug part (2) and a socket part (3), which socket part (3) has at least one outer housing (4) and an inner part (5) which can be rotated relative to said outer housing, wherein the inner part (5) can be rotated by means of a plug part (2) inserted into the socket part (3). Furthermore, the inner part (5) is designed as an adapter part (6) which has an adapter opening (8), on an outside (7) facing away from the plug part (2), for the rotationally fixed reception of a switching element (9) for connecting/disconnecting a load.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042406 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : VIDEO PREVIEW METHOD AND ELECTRONIC DEVICE

(51) International classification :G06F3/0481,H04M1/725	(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 :201810265839.6	
(32) Priority Date :28/03/2018	
(33) Name of priority country :China	
(86) International Application No :PCT/CN2018/081786	(72) Name of Inventor :
Filing Date :03/04/2018	1)WENG, Xinyu
(87) International Publication No :WO 2019/183997	
(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 video preview method and an electronic device, which relate to the field of electronic devices and solve the problems that a user can preview video-related content only by performing a series of operations on an electronic device and the use efficiency of the electronic device is low. The specific solution is: an electronic device receiving a first operation, and displaying a first interface on a touch screen of the electronic device in response to the first operation, wherein the first interface can be a home screen page or a negative screen; and when the first interface comprises an identifier of a first video application, the electronic device acquiring a first preview video corresponding to the first video application, displaying a first video preview window on the first interface, and playing the acquired first preview video in the first video preview window.

No. of Pages : 63 No. of Claims : 29

(54) Title of the invention : SYSTEM AND METHOD FOR CONTROLLED DELIVERY OF ON-LINE MEDIA ADVERTISING

(51) International classification :G06F15/16,G06Q30/02,H04L12/28
(31) Priority Document No :2018900670
(32) Priority Date :02/03/2018
(33) Name of priority country:Australia
(86) International Application No :PCT/AU2019/000027
Filing Date :01/03/2019
(87) International Publication No :WO 2019/165492
(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)SOON, Yee Ming
2)HE, Yang

(57) Abstract :

Disclosed herein is a system for controlling information content being delivered to network users within a venue, comprising: a network hosted by the venue and being connectable to the internet, the network being accessible by a plurality of users within the venue by way of personal electronic devices; an interception and insertion service positioned so as to function as an interface between the user and the internet, the internet and insertion service comprising a proxy server in association with a proxy DNS; wherein, the network is configured such that the proxy DNS sends and receives data from each user and readdresses the received data to be sent to the proxy server such that received content is assessed and controlled prior to delivery to the user, said assessment and control being based upon the requirements of the host venue.

No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042418 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : AIRLOCK WITH A PNEUMATIC ORIFICE FOR THE VACUUM TRAIN SYSTEM

(51) International classification :E21F17/107

(31) Priority Document No :P-424748

(32) Priority Date :02/03/2018

(33) Name of priority country :Poland

(86) International Application No :PCT/IB2019/051667

Filing Date :01/03/2019

(87) International Publication No :WO 2019/167014

(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 :Plac Bankowy 2 00-095 Warszawa

Poland

(72)Name of Inventor :

1)MIELCZAREK, Lukasz

2)RADZISZEWSKI, Pawel

(57) Abstract :

The subject of the invention is an airlock with a pneumatic orifice, characterized in that the orifice chamber (5) is located inside the tunnel (1), together with an inactive expansion element (4) made up of a flexible material consisting of an external torus (6) and an internal membrane (7), which is activated by compressed air produced by compressors (10) placed in a housing (5).

No. of Pages : 5 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042426 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : REINFORCING CABLE HAVING INCREASED DEGREE OF BONDING

(51) International classification	:E04C5/08,D07B1/06	(71)Name of Applicant :
(31) Priority Document No	:NA	1)AKTSIONERNOYE OBSHCHESTVO ARMASTIL
(32) Priority Date	:NA	TEKHNOLODZHIZ
(33) Name of priority country	:NA	Address of Applicant :ul. Lesoparkovaya, d. 93/1,
(86) International Application No	:PCT/RU2018/000114	pomeshcheniye 3a Magnitogorsk, Chelyabinskaya obl., 455025
Filing Date	:01/03/2018	Russia
(87) International Publication No	:WO 2019/168424	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)ZARETCKII, Lev Markovich
Filing Date	:NA	2)KHARITONOV, Veniamin Alexandrovich
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention can be used in the production of prestressed reinforcement. The problem of interest consists in developing a reinforcing cable having an increased degree of bonding, said cable having guaranteed structural stability and providing an increased degree of bonding with concrete, durability, and stress relaxation resistance. In a reinforcing cable, a central wire (1) is disposed along the axis of the cable, and is configured with spiral grooves (2) having a pitch that is equal to the pitch of the lay of the cable. Strand wires of an inner layer are disposed within the grooves, each of said wires being in contact with the central wire and with two adjacent wires of the inner layer. Strand wires are helically arranged at equal intervals from one another in an outer layer, each of said wires being disposed in a groove between the strand wires of the inner layer, and being in contact with the latter.

No. of Pages : 7 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042437 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : COMPOUNDS FOR INHIBITING PROTEIN DEGRADATION AND METHODS OF USE THEREOF IN THE TREATMENT OF CANCER

(51) International classification :C07D213/40,C07D213/89,C07D401/06
(31) Priority Document No :62/640263
(32) Priority Date :08/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IL2019/050250
Filing Date :07/03/2019
(87) International Publication No :WO 2019/171379
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)PI THERAPEUTICS LTD.
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(72)Name of Inventor :
1)KALID, Ori
2)GOTLIV, Irina
3)LEVY-APTER, Einat
4)FINKELSHTEIN BEKER, Danit
5)JAGTAP, Prakash

(57) Abstract :

The present invention relates to compounds for inhibiting protein degradation and/or the ubiquitin-proteasome system and/or for modulating autophagy, pharmaceutical composition and methods of use thereof in the treatment of cancer.

No. of Pages : 130 No. of Claims : 33

(54) Title of the invention : METHOD FOR PRODUCING MODIFIED POLYTETRAFLUOROETHYLENE, METHOD FOR PRODUCING MODIFIED POLYTETRAFLUOROETHYLENE POWDER, AND METHOD FOR PRODUCING STRETCHED POROUS BODY

(51) International classification :C08F265/04,C08F2/44,C08F283/06
 (31) Priority Document No :2018-087280
 (32) Priority Date :27/04/2018
 (33) Name of priority country :Japan
 (86) International Application No :PCT/JP2019/017673
 Filing Date :25/04/2019
 (87) International Publication No :WO 2019/208707
 (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)HIGUCHI Shinya

2)EBATA Shiro

3)KOSE Takehiro

(57) Abstract :

Provided is a method for producing modified polytetrafluoroethylene, in which the production of a fluorine-based oligomer that is a by-product is reduced. A method for producing modified polytetrafluoroethylene which contains substantially no fluorine-based oligomer containing a hydrophilic functional group and having 6 to 34 carbon atoms and also contains substantially no fluorine-based surfactant, the method comprising copolymerizing tetrafluoroethylene with a monomer having a polar group in a liquid dispersion 1 that contains a polymer containing a unit derived from a non-fluorine-based monomer and an aqueous medium or a solution 2 that is produced by mixing at least one component selected from the group consisting of a poly(alkylene oxide) compound and a hydrocarbon-containing surfactant in an aqueous medium with an oxidizing agent under such a condition that the amount of a monomer having a polar group to be used is 0.150% by mass or less relative to the whole amount of tetrafluoroethylene, thereby producing the modified polytetrafluoroethylene.

No. of Pages : 40 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042462 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : HEAT-SHRINKING MULTILAYER FILM AND HEAT-SHRINKING LABEL

(51) International classification :B32B27/30,B32B7/027,G09F3/04

(31) Priority Document No :2018-139250

(32) Priority Date :25/07/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/025387

Filing Date :26/06/2019

(87) International Publication No :WO 2020/021948

(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 :1, Zeze, Aono-cho, Ayabe-shi, Kyoto
6238511 Japan

(72)Name of Inventor :

1)NOZAKI, Takanori

(57) Abstract :

Provided are a heat-shrinking multilayer film that prevents layer-shifting at the center-seal portion when fitted onto a container as a heat-shrink label for dry heat shrinking use and that allows a labeled container of excellent external appearance to be produced, and a heat-shrinking label wherein the heat-shrinking multilayer film serves as the base film. This heat-shrinking multilayer film comprises front and back layers composed of a polyester resin and a middle layer composed of a polystyrene resin that are layered with adhesive layers therebetween. The heat-shrinking multilayer film has a maximum contraction stress of 3.5 to 11 MPa when immersed in hot water of 80°C for 30 seconds.

No. of Pages : 47 No. of Claims : 6

(54) Title of the invention : APPLICATION OF LINERLESS LABELS

(51) International classification :B65H35/08,B65C9/18,B65C9/20
 (31) Priority Document No :1805069.0
 (32) Priority Date :28/03/2018
 (33) Name of priority country :U.K.
 (86) International Application No :PCT/EP2019/057537
 Filing Date :26/03/2019
 (87) International Publication No :WO 2019/185606
 (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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 Dunmow Essex CM6 1DT U.K.

(72)Name of Inventor :

1)DREW, Bruce, Michael**2)COOPER, Michael, John****3)EDWARDS, David, Nicholas**

(57) Abstract :

A method of applying a linerless label to an article wherein a web of joined labels is die cut from a web of label material in which the adhesive is protected by a water-soluble coating which provides a cushion between an anvil and die cutting means. The water-soluble coating is at least partially removed by exposure to water in a press following die-cutting, in a label applicator, or in an off-line unit. The web of joined labels may be wound and unwound between each of the above options. The web of joined labels may be separated in a label applicator by breaking a weakened boundary between adjoining labels or by cutting at a boundary between the label and the adjoining label. The linerless label may contain anti-counterfeit means that may be subsequently identified overtly and/or covertly.

No. of Pages : 22 No. of Claims : 15

(54) Title of the invention : AQUEOUS INKJET INK COMPRISING DISPERSE DYESTUFF

<p>(51) International classification :C09D11/38,C09D11/328,C09D11/02</p> <p>(31) Priority Document No :18165838.6</p> <p>(32) Priority Date :05/04/2018</p> <p>(33) Name of priority country :EPO</p> <p>(86) International Application No :PCT/EP2019/058151 Filing Date :01/04/2019</p> <p>(87) International Publication No :WO 2019/192949</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)AGFA NV Address of Applicant :Septestraat 27 2640 Mortsel Belgium</p> <p>(72)Name of Inventor : 1)PETTON, Lionel 2)BERTELS, Ellen 3)LIGOT, Amandine 4)LOCCUFIER, Johan 5)WYNANTS, Sonny</p>
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(57) Abstract :

An aqueous inkjet ink for textile printing comprising a disperse dyestuff and a glycerol ester of two or three long-chain fatty acids. The invention also includes an inkjet printing method for dyeing fabrics comprising hydrophobic fibres using the above described aqueous inkjet ink.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042497 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : FORMULATIONS TREATING ACID REFLUX COMPRISING SODIUM ALGINATE

(51) International classification :A61K31/734,A61K31/715,A61K33/00
(31) Priority Document No :62/637551
(32) Priority Date :02/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/020060
Filing Date :28/02/2019
(87) International Publication No :WO 2019/169137
(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 :500 North Rainbow Blvd. Suite 300A
Las Vegas, NV 89107 U.S.A.
(72)**Name of Inventor :**
1)SMOLARZ, Joseph, Ryan

(57) Abstract :

The disclosure provides for pharmaceutical compositions comprising an alginate salt, such as sodium alginate. The disclosure further provides for processes and methods for making pharmaceutical compositions. In yet a further aspect, the disclosure provides for methods of utilizing a pharmaceutical composition for treatment of acid reflux diseases. In another aspect, the disclosure provides for formulations suitable for oral use in dosage forms of capsules and dry powders.

No. of Pages : 24 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042500 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : CUTTING RING FITTING

(51) International classification :F16L19/10
(31) Priority Document No :18169967.9
(32) Priority Date :27/04/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/053963
Filing Date :18/02/2019
(87) International Publication No :WO 2019/206492
(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)K-NIG, Ulrich Stefan
2)AUL, Alexander
3)BERNIKOV, Sergej

(57) Abstract :

The invention relates to a cutting ring fitting for a thin-walled pipe, comprising: a connecting body having a tapered cone; a cutting ring; a union nut which can be screwed onto the connecting body; and a reinforcing sleeve for insertion into the pipe, the reinforcing sleeve (4) having an axial slot (43). The invention also relates to a pipe comprising such a cutting ring fitting, and to a method for mounting such a cutting ring fitting on a thin-walled pipe.

No. of Pages : 14 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042522 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : PROCESS MONITORING AND CONTROL OF FILTRATION BY MEANS OF FILTRATE MEASUREMENTS

(51) International classification :B01D9/00,B01D29/085,B01D29/60
(31) Priority Document No :18167620.6
(32) Priority Date :16/04/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/058886
Filing Date :09/04/2019
(87) International Publication No :WO 2019/201661
(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)ENGELHARDT, Kathrin, Annette
2)GROSS, Reinhard

(57) Abstract :

The invention relates to solutions for the monitoring, process control and supervision of a solid filtration, particularly the washing process of said solid in a filtration system, and particularly to a method for monitoring and controlling a process for filtering and washing a solid in a filtration device for cake filtration, wherein at least one measuring device is applied in or to the filtrate outlet of the filtration device, which measures the at least one parameter value of a filtrate flow from the filtration device for cake filtration at least during the washing process.

No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042529 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : NUTRITIONAL COMPOSITION COMPRISING A LENTIL PRODUCT

(51) International classification:A23L7/10,A23L11/00,A23L33/00

(31) Priority Document No :18176727.8

(32) Priority Date :08/06/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/IB2019/053789

Filing Date :08/05/2019

(87) International Publication No :WO 2019/234520

(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 :

1)MACE, Catherine

2)SABATIER, Magalie

3)SHAHKHALILI DULLOO, Yassaman

4)TUDORICA, Carmen

(57) Abstract :

Use of a lentil product to increase the bioavailability of non-haem iron in a composition comprising one or more anti-nutritional factors.

No. of Pages : 38 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042532 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR ANCHORING AND RESTRAINING GASTROINTESTINAL PROSTHESES

(51) International classification	:A61B17/00,A61F5/00	(71) Name of Applicant :
(31) Priority Document No	:62/650923	1)METAMODIX, INC.
(32) Priority Date	:30/03/2018	Address of Applicant :3650 Annapolis Lane North Suite #130
(33) Name of priority country	:U.S.A.	Plymouth, Minnesota 55447 U.S.A.
(86) International Application No	:PCT/US2019/024950	(72) Name of Inventor :
Filing Date	:29/03/2019	1)BELHE, Kedar, R.
(87) International Publication No	:WO 2019/191652	2)SCHWARZ, Werner
(61) Patent of Addition to Application Number	:NA	3)STANGENES, Todd
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems and methods for anchoring and restraining gastrointestinal prostheses are disclosed. In various examples, the systems and methods include securing a gastrointestinal device within a patients anatomy by extending an anti-migration anchor through a plurality of portions of the gastrointestinal device to couple together the plurality of portions of the gastrointestinal device. In some examples, the anti-migration anchor extends through tissue situated between the plurality of portions of the gastrointestinal device.

No. of Pages : 45 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042534 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : HUMAN KYNURENINASE ENZYMES AND USES THEREOF

(51) International classification :A61K35/17,A61K38/46,C12N9/14
(31) Priority Document No :62/658261
(32) Priority Date :16/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/027623
Filing Date :16/04/2019
(87) International Publication No :WO 2019/204269
(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)GEORGIOU, George
2)STONE, Everett
3)BLAZECK, John
4)KARAMITROS, Christos

(57) Abstract :

Methods and compositions related to the use of a protein with kynureninase activity are described. For example, in certain aspects there may be disclosed a modified kynureninase capable of degrading kynurenine. Furthermore, certain aspects of the invention provide compositions and methods for the treatment of cancer with kynurenine depletion using the disclosed proteins or nucleic acids.

No. of Pages : 70 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042535 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : ANTIGENIC PEPTIDES FOR PREVENTION AND TREATMENT OF CANCER

(51) International classification :A61K39/00
(31) Priority Document No :18305444.4
(32) Priority Date :11/04/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/059329
Filing Date :11/04/2019
(87) International Publication No :WO 2019/197567
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)ENTEROME S.A.
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(72)**Name of Inventor :**
1)CHENE, Laurent
2)BONNY, Christophe
3)STROZZI, Francesco

(57) Abstract :

The present invention relates to antigen-based immunotherapy, in particular cancer immunotherapy. In particular, the present invention provides antigenic peptides, which are distinct from, but have amino acid similarity to, fragments of human tumor antigens. The present invention further provides immunogenic compounds, nanoparticles, cells and pharmaceutical compositions comprising such antigenic peptides and nucleic acids encoding such antigenic peptides.

No. of Pages : 202 No. of Claims : 56

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042552 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : RADIATION CURABLE COMPOSITION CONTAINING MODIFIED PIGMENT AND USE THEREOF

(51) International classification :C09D11/101
(31) Priority Document No :201810227975.6
(32) Priority Date :20/03/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/078861
Filing Date :20/03/2019
(87) International Publication No :WO 2019/179461
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)CHANGZHOU GREEN PHOTSENSITIVE MATERIALS CO., LTD.
Address of Applicant :No.119 Building 2, Weian Road, Xinbei District Changzhou, Jiangsu 213000 China
(72)**Name of Inventor :**
1)QIAN, Bin

(57) Abstract :

Disclosed is a modified pigment for a radiation curable gravure ink, comprising a pigment and inorganic oxide nanoparticles coated on the surface of the pigment, wherein the DBP oil absorption is 150-250 ml/100 g, the particle size is 0.01-1 μm , and the pH value is 4.5-10.

No. of Pages : 30 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042553 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD FOR TRANSMITTING DATA ON BANDWIDTH PART, TERMINAL DEVICE, AND NETWORK DEVICE

(51) International classification :H04W72/04

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :PCT/CN2018/078345

Filing Date :07/03/2018

(87) International Publication No :WO 2019/169588

(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)CHEN, Wenhong

2)SHI, Zhihua

(57) Abstract :

Disclosed are a method for transmitting data on a bandwidth part, a terminal device, a network device, and a computer storage medium. The method comprises: determining priority levels of one or more bandwidth parts (BWPs); and performing, according to the priority levels of the one or more BWPs, signal transmission on at least a portion of the one or more BWPs, or reporting uplink control information (UCI) corresponding to the at least a portion of the one or more BWPs.

No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042554 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : RADIATION-CURABLE GRAVURE INK

(51) International classification :C09D11/101
(31) Priority Document No :201810227961.4
(32) Priority Date :20/03/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/078860
Filing Date :20/03/2019
(87) International Publication No :WO 2019/179460
(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 :No. 119 building 2, Weian Road, Xinbei District Changzhou, Jiangsu 213000 China
(72)**Name of Inventor :**
1)QIAN, Bin

(57) Abstract :

A radiation-curable gravure ink, comprising: cationically polymerizable compounds comprising a hydroxyl-containing oxetane compound and an alicyclic epoxy compound; a cationic photoinitiator; a pigment; and filler.

No. of Pages : 53 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042586 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : TANGENTIAL FLOW DEPTH FILTRATION SYSTEMS AND METHODS OF FILTRATION USING SAME

(51) International classification :B01D25/00
(31) Priority Document No :62/640175
(32) Priority Date :08/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/021414
Filing Date :08/03/2019
(87) International Publication No :WO 2019/173752
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)REPLIGEN CORPORATION
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(72)**Name of Inventor :**
1)BRANSBY, Michael
2)CARROLL, Derek

(57) Abstract :

The present disclosure relates to hollow fiber tangential flow filters, including hollow fiber tangential flow depth filters, for various applications, including bioprocessing and pharmaceutical applications, systems employing such filters, and methods of filtration using the same.

No. of Pages : 33 No. of Claims : 81

(54) Title of the invention : VACUUM ADIABATIC BODY AND REFRIGERATOR

(51) International classification :F25D23/06,F25D23/00,F25D19/00
(31) Priority Document No :10-2018-0074172
(32) Priority Date :27/06/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2019/007678
Filing Date :25/06/2019
(87) International Publication No :WO 2020/004914
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)LG ELECTRONICS INC.
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Seoul 07336 Republic of Korea
(72)**Name of Inventor :**
1)JUNG, Wonyeong
2)KIM, Daewoong
3)NAM, Hyeunsik
4)LEE, Jangseok

(57) Abstract :
In one embodiment, a refrigerator includes: a heat exchange pipeline which is accommodated in an inner wall of a vacuum adiabatic body and in which heat exchange of a refrigerant is performed; a through-part through which a refrigerant pipe provided in at least one of the first plate member or the second plate member to provide the heat exchange pipeline passes; and a sealing member configured to accommodate the inlet pipe and the outlet pipe therein and coupled to at least one of the first plate member or the second plate member to restrict gas communication between the refrigerant pipe and the vacuum space part.

No. of Pages : 27 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042588 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : ANTIBODIES THAT BIND CD39 AND USES THEREOF

(51) International classification :C07K16/30,C07K16/28,A61K39/395
(31) Priority Document No :62/642938
(32) Priority Date :14/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/022108
Filing Date :13/03/2019
(87) International Publication No :WO 2019/178269
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)SURFACE ONCOLOGY, INC.
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1)CHAPPEL, Scott
2)LAKE, Andrew
3)WARREN, Michael
4)DULAK, Austin
5)DEVEREAUX, Erik
6)HOLLAND, Pamela M.
7)ZAIDI, Tauqeer
8)RAUSCH, Matthew
9)PRINZ, Bianka
10)NIELSON, Nels P.
11)DAS, Sonia

(57) Abstract :

The present disclosure relates to anti-CD39 antibodies, and antigen binding portions thereof and their use in treating cancer.

No. of Pages : 168 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042589 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : PROGRAM CREATION ASSISTING SYSTEM, METHOD FOR SAME, AND PROGRAM

(51) International classification :G09B5/02,G06F8/34,G09B19/00
(31) Priority Document No :2018-059677
(32) Priority Date :27/03/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2018/041435
Filing Date :08/11/2018
(87) International Publication No :WO 2019/187305
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)OFFICE ZERO LIMITED LIABILITY COMPANY
Address of Applicant :2nd Floor Sagami Bld. 13-6, Ginza 7-
chome, Chuo-ku, Tokyo 1040061 Japan
(72)**Name of Inventor :**
1)HIZA Kenichi
2)OKI Akira

(57) Abstract :

The present invention enables a program suitable for a problem to be created by a simple technique even when a sheet for a chip array is not available. A program creation assisting system for creating a program using a computer system has: a camera 206 for capturing an image of a chip array that is arranged by including, in a chip array formed by arrangement of a plurality of chips having visibility characteristics, a special chip that indicates a problem for programming; a problem management table 80 for managing the problem in association with a plurality of chip images used in the problem; an image processing unit 104 for recognizing an image that pertains to a chip from the image of the chip array acquired by the camera; and a program creation processing unit 103 that, when the image processing unit recognizes a special chip such as a start chip 401, selects a command that corresponds to the plurality of chip images recognized by the image processing unit on the basis of the problem management table associated with the problem of the special chip, and generates a program configured from a plurality of selected commands.

No. of Pages : 46 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042591 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : ROTARY DISC FILTER HAVING A BACKWASH SYSTEM THAT INCLUDES A COMPACT NOZZLE SUPPORT STRUCTURE

(51) International classification	:B01D33/21,B01D33/50	(71)Name of Applicant :
(31) Priority Document No	:15/952474	1)VEOLIA WATER SOLUTIONS & TECHNOLOGIES
(32) Priority Date	:13/04/2018	SUPPORT
(33) Name of priority country	:U.S.A.	Address of Applicant :Immeuble L'Aquarene 1 place
(86) International Application No	:PCT/IB2019/052549	Montgolfier 94417 Saint-Maurice France
Filing Date	:28/03/2019	2)JIBERT, Johan Gustav Alexander
(87) International Publication No	:WO 2019/197934	(72)Name of Inventor :
(61) Patent of Addition to Application	:NA	1)JIBERT, Johan Gustav Alexander
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A rotary disc filter having a backwash system that includes a series of feed pipes that project into and between successive filter discs that are mounted on a rotatable drum. Connected to an outer terminal end portion of the feed pipes is a series of nozzle holders. Each nozzle holder includes a main conduit, a series of branch conduits that project outwardly from the main conduit, and a connector for connecting the nozzle holder to a respective feed pipe. A series of detachable nozzles are secured to the outer terminal ends of the branch conduits.

No. of Pages : 9 No. of Claims : 22

(54) Title of the invention : CONTAINER, DEVICE AND METHOD FOR STORING OR PROCESSING PARTICULATE MATERIALS TO MINIMIZE OR ELIMINATE VIBRATIONS SUCH AS QUAKING OR SHAKING

(51) International classification :F27D3/00,B65D88/28,F27B1/20
 (31) Priority Document No :NA
 (32) Priority Date :NA
 (33) Name of priority country :NA
 (86) International Application No :PCT/IB2018/051503
 Filing Date :08/03/2018
 (87) International Publication No :WO 2019/171146
 (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)DANIELI & C. OFFICINE MECCANICHE S.P.A.

(72)Name of Inventor :

1)MORALES SERRANO, Ra'l

2)MAGGIOLINO, Stefano

3)BECERRA LUCATERO, Luis Manuel

4)MARTINIS, Alessandro

5)TAVANO, Andrea

(57) Abstract :

The invention provides containers with lower vibrations, such as quaking and shaking as well as noise effects, known also as hooting, honking or howling, and an effective and cost-competitive method and device to decrease such phenomena during the discharge of granular material particles from silos, hoppers, bins, reactors and in general containers for storing or processing such granular material particles. The invention comprises at least one baffle that is attached to the container wall, in the lower portion or at the bottom of the tapered discharge part of said container, protruding towards the central axis of its tapered discharge part. The baffle forms a stagnant zone in the bed of the granular material particles in contact with the container wall whereby the particles in that zone flow under the friction against other particles instead of the friction between the particles and the wall.

No. of Pages : 12 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042626 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHODS, COMPOSITIONS, AND DEVICES FOR ISOLATION AND EXPRESSION ANALYSIS OF REGIONS OF INTEREST FROM A TISSUE

(51) International classification	:C12M1/32,H01J49/26	(71) Name of Applicant :
(31) Priority Document No	:62/637998	1)QUANTUMCYTE, INC.
(32) Priority Date	:02/03/2018	Address of Applicant :428 Oakmead Parkway Sunnyvale,
(33) Name of priority country	:U.S.A.	California 94038 U.S.A.
(86) International Application No	:PCT/US2019/020610	(72) Name of Inventor :
Filing Date	:04/03/2019	1)BUTLER, John
(87) International Publication No	:WO 2019/169407	2)CHAUDHURI, Bidhan
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein is a method of isolating cellular components from at least one region of interest in a planar tissue section.

No. of Pages : 36 No. of Claims : 84

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042627 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : ANTIBODIES AGAINST SIGNAL-REGULATORY PROTEIN ALPHA AND METHODS OF USE

(51) International classification :A61K39/395,C07K16/28,A61P29/00
(31) Priority Document No :62/646210
(32) Priority Date :21/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/023238
Filing Date :20/03/2019
(87) International Publication No :WO 2019/183266
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)ALX ONCOLOGY INC.
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Burlingame, California 94010 U.S.A.
(72)**Name of Inventor :**
1)PONS, Jaume
2)SIM, Bang Janet
3)WAN, Hong
4)KUO, Tracy Chia-Chien

(57) Abstract :

Provided herein, inter alia, are isolated, humanized antibodies that bind an extracellular domain of a human SIRP-a polypeptide. Also provided are polynucleotides, vectors, host cells, and methods of production and use related thereto.

No. of Pages : 131 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042628 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : EVENT MONITORING METHOD AND APPARATUS

(51) International classification :H04W24/00
(31) Priority Document No :201810312936.6
(32) Priority Date :09/04/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/081696
Filing Date :08/04/2019
(87) International Publication No :WO 2019/196773
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)HUAWEI TECHNOLOGIES CO., LTD.
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Bantian, Longgang District Shenzhen, Guangdong 518129 China
(72)**Name of Inventor :**
1)ZHU, Fenqin

(57) Abstract :

An event monitoring method and apparatus, for realizing a service capability opening function or a network opening function of deleting, upon reception of event reports of all members in a group, a monitoring event configuration from the group, thereby avoiding the waste of resources and the incorrect execution of subsequent policies. The method is as follows: an opening function entity receiving a first message, wherein the first message is used for configuring a monitoring event for a user group; the opening function entity acquiring information of members in the user group; the opening function entity determining, according to the information of members, that all monitoring event reports of all the members in the user group have been received; and deleting the configuration of the monitoring event for the user group.

No. of Pages : 58 No. of Claims : 49

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042629 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : DATA TRANSMISSION METHOD, INFORMATION TRANSMISSION METHOD AND APPARATUS

(51) International classification :H04W72/12
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2018/082059
Filing Date :04/04/2018
(87) International Publication No :WO 2019/192004
(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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Bantian, Longgang District Shenzhen, Guangdong 518129 China
(72)**Name of Inventor :**
1)ZHAO, Yue
2)YU, Zheng
3)WANG, Hong

(57) Abstract :

A data transmission method, an information transmission method and an apparatus, wherein the data transmission method comprises: a terminal device determining indication information, wherein said indication information may be used for at least two of the following items: a transport block size (TBS) with which the terminal device transmits data being a first TBS, the TBS with which the terminal device transmits data being a second TBS, and indicating that the terminal device selects one TBS from in a TBS set as a third TBS with which the terminal device transmits data, wherein the second TBS and/or the third TBS is a TBS in the TBS set, said TBS set is a set determined according to the first TBS, and the indication information is used for one among the at least two items; the terminal device determining a TBS for transmitting data according to the indication information; and the terminal device transmitting data according to the determined TBS.

No. of Pages : 53 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042630 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD, DEVICE AND SYSTEM FOR MONITORING PAGING MESSAGE AND TRANSMITTING INDICATION INFORMATION

(51) International classification :H04W68/02
(31) Priority Document No :201810298396.0
(32) Priority Date :03/04/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/080892
Filing Date :01/04/2019
(87) International Publication No :WO 2019/192435
(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 :**
1)LI, Bingzhao
2)CHAI, Li
3)CHEN, Lei

(57) Abstract :

The present invention relates to the technical field of communications. Provided are a method, device and system for monitoring a paging message and transmitting indication information. The method comprises: a terminal device receiving paging occasion configuration information transmitted by a network device, and monitoring, according to N time-domain resources, a paging message transmitted by the network device, wherein the paging occasion configuration information indicates the N time-domain resources in a paging occasion, and N is a positive integer greater than or equal to 1. In the technical solution, a network device indicates, to a terminal device, a time-domain resource for monitoring a paging message in a paging occasion, thereby increasing flexibility of a paging message monitoring mechanism.

No. of Pages : 51 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042631 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : COMMUNICATION METHOD AND APPARATUS

(51) International classification :H04L7/00,H04W56/00,H04J3/06
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2018/082007
Filing Date :04/04/2018
(87) International Publication No :WO 2019/191969
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)WAN, Guangnan
2)YU, Feng
3)LIN, Bo
4)YU, Guangwei

(57) Abstract :

Embodiments of the present application provide a communication method and apparatus. The communication method comprises: a terminal device sends a first indication message, the first indication message being used for indicating the first time type and/or first time precision, or the first indication message being used for instructing an access network device to send time information to the terminal device; the terminal device receives the time information; the terminal device synchronizes the time thereof according to the time information. Accordingly, also provided is a communication apparatus. According to the embodiments of the present application, the terminal device can obtain the time type and/or time precision preferred by the terminal device in different application scene requirements.

No. of Pages : 54 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042632 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : COMMUNICATION METHOD, DEVICE AND SYSTEM

(51) International classification :H04W36/00
(31) Priority Document No :201810278045.3
(32) Priority Date :30/03/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/078217
Filing Date :15/03/2019
(87) International Publication No :WO 2019/184722
(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 :**
1)ZONG, Zaifeng
2)ZHU, Fenqin

(57) Abstract :

A communication method, device and system for realizing the switching of a session management network element. In the present application, the method comprises: a mobility management network element sending, after acquiring information of a target intermediate session management network element, information of a source session management network element to a target session management network element; after acquiring the information of the source session management network element, the target session management network element sending a first message to the source session management network element according to the information of the source session management network element; and after receiving the first message from the target intermediate session management network element, the source session management network element notifying, based on the first message, a source intermediate user plane network element to create a forwarding tunnel. By means of the method of the present application, a forwarding tunnel is created from a source intermediate user plane network element to a target intermediate user plane network element, so that the source intermediate user plane network element can forward data to the target intermediate user plane network element by means of the forwarding tunnel, thereby realizing switching from a target intermediate session management network element to a source session management network element, so that a session can be held and the service continuity of a terminal device can be ensured.

No. of Pages : 66 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042633 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : LOCATION METHOD AND RELATED DEVICE

(51) International classification :H04W4/029
(31) Priority Document No :201810318534.7
(32) Priority Date :09/04/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/081858
Filing Date :09/04/2019
(87) International Publication No :WO 2019/196817
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)ZHU, Haoren
2)ZHU, Hualin

(57) Abstract :

Embodiments of the preset application provide a location method and a related device. The method comprises: a position management function network element sends a location method and indication information to a mobility management network element, the indication information being used for indicating that the mobility management network element obtains a location parameter by using an access type for obtaining the location parameter. Use of the embodiments of the preset application can avoid that the finally determined location method is not applicable to the current access type of a terminal device.

No. of Pages : 33 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042639 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : LYMPHOHEMATOPOIETIC ENGINEERING USING CAS9 BASE EDITORS

(51) International classification :A61K35/17,A61K9/00,A61P31/00
(31) Priority Document No :62/642151
(32) Priority Date :13/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/022049
Filing Date :13/03/2019
(87) International Publication No :WO 2019/178225
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)MORIARITY, Branden
2)WEBBER, Beau
3)LONETREE, Cara-Lin
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5)KLUESNER, Mitchell
6)LAHR, Walker
7)POMEROY, Emily, Joy

(57) Abstract :

Provided herein are methods and systems for targeted gene disruption (knock-out, missense mutation) and targeted gene knock-in in mammalian cells using base editors and guide RNAs (gRNAs) designed to target splice acceptor-splice donor sites. Also provided herein are universally acceptable genetically engineered cells comprising targeted disruptions in immunotherapy-related genes and comprising a CAR/TCR for therapeutic applications.

No. of Pages : 51 No. of Claims : 17

(54) Title of the invention : HEADER-EQUIPPED AIR DIFFUSION DEVICE, AND MEMBRANE SEPARATION ACTIVATED SLUDGE DEVICE

(51) International classification:C02F3/20,B01D65/02,B01D65/08

(31) Priority Document No :2018-060720

(32) Priority Date :27/03/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/012854

Filing Date :26/03/2019

(87) International Publication No :WO 2019/189183

(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)IDEGUCHI Makoto

3)FURUNO Shinsuke

(57) Abstract :

The purpose of the present invention is to provide a header-equipped air diffusion device which can sufficiently suppress the intrusion of sludge into the air diffusion device from the header and allow stable operation even with repeated operating and stopping, and a membrane separation activated sludge device. The header-equipped air diffusion device (110) comprises an air diffusion device (112) and a header (114) which are immersed in water to be treated. The header (114) includes an air storage unit (140), on the lower end of which is formed an inlet (140a) for the water to be treated, and an air supply part (142) and an air sending part (144) provided on the upper section of the air storage unit (140). The air sending part (144) and a horizontal tube (116) of the air diffusion device (112) are connected, the air sent from the header (114) is diffused by the air diffusion device (112), and an air sending port (144a) of the air sending part (144) in the air storage unit (140) is positioned above an air supply port (142a) of the air supply part (142).

No. of Pages : 52 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042641 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHODS, SYSTEMS, DEVICES, AND SOFTWARE FOR MANAGING AND CONVEYING KNOWLEDGE

(51) International classification :G06F17/27
(31) Priority Document No :62/640551
(32) Priority Date :08/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/021385
Filing Date :08/03/2019
(87) International Publication No :WO 2019/173737
(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 manages knowledge that is provisional and progressive in nature through elementary knowledge units and through systematized inventories of knowledge bodies comprised of interrelated elementary knowledge units. The inventions methods and systems granulate articulations from various sources into utterances that are semantically equivalent but that may be lexically inequivalent. These outputs may be constellated to reflect compositional dynamics of a body of knowledge. A constellation of such knowledge units may be updated based on updating the body of knowledge out of which they are granulated or by adding other granulated units. An individual source may be abstracted based on how it relates to elementary knowledge units. Knowledge mastery may be imparted through one-at-a-time absorptions of knowledge units, and be assessed based on comparing language articulations. Conveying knowledge and assessing mastery may be mediated through adaptation of verbalizations to learners.

No. of Pages : 61 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042642 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : WAVEFIELD PROPAGATOR FOR TILTED ORTHORHOMBIC MEDIA

(51) International classification	:G01V1/30
(31) Priority Document No	:62/650574
(32) Priority Date	:30/03/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/024510
Filing Date	:28/03/2019
(87) International Publication No	:WO 2019/191382
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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1)SONG, Xiaolei

(57) Abstract :

Systems and methods that include receiving reservoir data of a hydrocarbon reservoir, receive an indication related to selection of a wavefield propagator, application of the wavefield propagator utilizing Fourier Finite Transforms and Finite Differences to model a wavefield associated with a Tilted Orthorhombic media representative of a region of a subsurface comprising the hydrocarbon reservoir, and processing the reservoir data in conjunction the wavefield propagator to generate an output for use with seismic exploration above a region of a subsurface comprising the hydrocarbon reservoir and containing structural or stratigraphic features conducive to a presence, migration, or accumulation of hydrocarbons.

No. of Pages : 22 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042644 A

(19) INDIA

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

(43) Publication Date : 22/01/2021

(54) Title of the invention : HEAT EXCHANGER CLOSURE ASSEMBLIES AND METHODS OF USING AND INSTALLING THE SAME

(51) International classification :F28F9/02,F28F27/00,F16J15/02
(31) Priority Document No :62/645662
(32) Priority Date :20/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/023097
Filing Date :20/03/2019
(87) International Publication No:WO 2019/183176
(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)JAYE, Trevor
3)BOEKHOUDER, Henk
4)GROPPI, Robert
5)BRIGNONE, Vincenzo, Marco
6)EBERLY, Randy
7)CREECH, David
8)MEACHAM, Elizabeth

(57) Abstract :

A heat exchanger assembly including an elongated tubular heat exchanger enclosure defining an interior chamber. A tube sheet is positioned within the interior chamber of the heat exchanger enclosure separating the interior chamber into a shell side and a channel side. The interior portion is configured to removably receive a tube bundle positioned within the shell side of the interior chamber. An annular sleeve member is positioned within the channel side of the interior chamber of the heat exchanger enclosure. An annular elastic torsion member is positioned within the channel side of the interior chamber of the heat exchanger such that the sleeve member is positioned between the tube sheet and the elastic torsion member. The elastic torsion member has an inner circumference deflectable relative to its outer circumference for torsioning the elastic torsion member.

No. of Pages : 39 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042668 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD FOR SYNTHESIZING 3-PHENYL-2,8-DIHYDROPYRANO [2,3-F] CHROMENE DERIVATIVE

(51) International classification :C07D493/04,A61K31/352,A61P3/04
(31) Priority Document No :10-2018-0038894
(32) Priority Date :03/04/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2019/003958
Filing Date :03/04/2019
(87) International Publication No :WO 2019/194582
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)YOO, Sang Ku
2)CHUNG, Jin Wook
3)JO, In Geun
4)KIM, Ji Young
5)IM, Jeong Ho
6)KANG, Ku Suk
7)KIM, Jin Young

(57) Abstract :

The present invention relates to a method for synthesizing a 3-phenyl-2,8-dihydropyrano [2,3-f] chromene derivative which can be effectively used in the synthesis of a pyranochromenylphenol derivative. The above derivative can be used to effectively prepare a 3-phenyl-2,3,4,8,9,10-hexahydropyrano [2,3-f] chromene derivative.

No. of Pages : 169 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042676 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : RESIN TANK AND METHOD FOR MANUFACTURING RESIN TANK

(51) International classification :B29C45/14,B29C45/37,F16J12/00
(31) Priority Document No :2018-069518
(32) Priority Date :30/03/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/009757
Filing Date :11/03/2019
(87) International Publication No :WO 2019/188212
(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)KURATA Ko
3)YOKOMURA Hikaru
4)MIZUKURA Yuki
5)MINE Keigo
6)YAMAGUCHI Tasuku
7)MATSUMURA Tomoyuki
8)YOSHIZAWA Akira

(57) Abstract :

Provided are: a resin tank in which positional displacement and deformation of an inserted member is prevented; and a method for manufacturing the resin tank. In a resin tank formed by resin injection molding, at a portion of a resin layer into which an insert plate 119 to be attached to an auxiliary component is inserted, a gradually changing thickness part 115 is formed, in which the thickness of the resin layer gradually changes from one side to the other side relative to a surface 119a of the insert plate 119.

No. of Pages : 55 No. of Claims : 9

(54) Title of the invention : ATRIAL NATRIURETIC PEPTIDE ENGRAFTED ANTIBODIES

(51) International classification :A61P9/12,C07K14/58,C07K16/00
 (31) Priority Document No :18167102.5
 (32) Priority Date :12/04/2018
 (33) Name of priority country :EPO
 (86) International Application No :PCT/EP2019/059093
 Filing Date :10/04/2019
 (87) International Publication No :WO 2019/197470
 (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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1)MAYER-BARTSCHMID, Anke**2)BROCKSCHNIEDER, Damian****3)GEERTZ, Marcel****4)GREVEN, Simone****5)HOFMEISTER, Lucas, Hudson****6)J-RISSEN, Hannah****7)MAHLERT, Christoph****8)MARQUARDT, Tobias****9)MATHAR, Ilka****10)MONDRITZKI, Thomas****11)NOACK, Claudia****12)TEBBE, Jan****13)WALSH, Stuart****14)WEBER, Ernst****15)WILMEN, Andreas****16)WUNDER, Frank**

(57) Abstract :

The present invention relates to an antibody or a fragment thereof comprising at least one heterologous amino acid sequence incorporated within at least one CDR region of said antibody or fragment thereof, wherein said at least one heterologous amino acid sequence comprises an N-terminal linker sequence (Nils), an Atrial Natriuretic Peptide (ANP) and a C-terminal linker sequence (Ctls). Optionally, at least a portion of said at least one CDR region is replaced by said at least one heterologous amino acid sequence incorporated therein. The present invention further relates to such antibody or fragment thereof for use in a method for treatment, a composition comprising such antibody or fragment thereof, a nucleic acid or a mixture of nucleic acids encoding such antibody or fragment thereof, a host cell comprising such nucleic acid or such mixture of nucleic acids and to a process for producing such antibody or fragment thereof.

No. of Pages : 106 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042720 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PRODRUGS OF FUSED-BICYCLIC C5AR ANTAGONISTS

(51) International classification :A61K31/415,A61K31/4162,A61K31/437
(31) Priority Document No :62/651512
(32) Priority Date :02/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/025165
Filing Date :01/04/2019
(87) International Publication No :WO 2019/195159
(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)LUI, Rebecca M.
3)SINGH, Rajinder
4)MALI, Venkat Reddy
5)ZENG, Yibin
6)ZHANG, Penglie

(57) Abstract :

The present disclosure provides, inter alia, Compounds of Formulae IA, IB, IC, IIA, IIB and IIC or pharmaceutically acceptable salts thereof that are modulators of the C5a receptor. Also provided are pharmaceutical compositions and methods of use including the treatment of diseases or disorders involving pathologic activation from C5a and non-pharmaceutical applications.

No. of Pages : 177 No. of Claims : 43

(54) Title of the invention : CHEMO-ENZYMATIC SYNTHESIS OF LIRAGLUTIDE, SEMAGLUTIDE AND GLP-1

(51) International classification :C07K14/605,C07K1/06,C12P21/02
 (31) Priority Document No :18161084.1
 (32) Priority Date :09/03/2018
 (33) Name of priority country:EPO
 (86) International Application No :PCT/EP2019/056046
 Filing Date :11/03/2019
 (87) International Publication No :WO 2019/170918
 (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 invention relates to a method for synthesising a peptide comprising the sequence His-X-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Y-Glu-Phe-Ile-Ala-Trp-Leu-Val-Z-Gly-Arg-Gly, comprising enzymatically coupling (a) a peptide C-terminal ester or thioester comprising a first peptide fragment comprising the sequence His-X- Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-(thio)ester; and (b) a peptide nucleophile having an N-terminally unprotected amine comprising a second peptide fragment comprising the sequence H-Ser-Tyr-Leu-Glu-Gly-Gln-Ala -Ala-Y-Glu-Phe-Ile-Ala-Trp-Leu-Val-Z- Gly-Arg-Gly wherein - X is Ala or an α -amino-isobutyric acid (Aib) residue - Y is Lys, which Lys has a free side-chain ϵ -amino group or of which Lys the side-chain ϵ -amino group is protected with a protective group or of which Lys the side-chain ϵ -amino group is functionalised with an amino acid or another functional group - Z is Arg or Lys.

No. of Pages : 49 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042731 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : VIRTUAL ASSET TAGGING AND AUGMENTED CAMERA DISPLAY SYSTEM AND METHOD OF USE

(51) International classification	:G06T19/00,G06K9/00	(71) Name of Applicant :
(31) Priority Document No	:62/636912	1)LAPPIDUS, INC
(32) Priority Date	:01/03/2018	Address of Applicant :5900 Balcones Dr Suite 100 Austin,
(33) Name of priority country	:U.S.A.	Texas 78731 U.S.A.
(86) International Application No	:PCT/US2019/019973	(72) Name of Inventor :
Filing Date	:28/02/2019	1)MELCHER, Michael
(87) International Publication No	:WO 2019/169085	2)MELCHER, Peter
(61) Patent of Addition to Application Number	:NA	3)BATEMAN, Kyle
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An asset tagging and monitoring system includes a smart device having a camera, a GPS, and a touch screen display; a server to communicate with the smart device to receive and store data; a tagging platform accessible from the smart device and to communicate with the camera, the mobile platform provides activating the camera to provide a visual representation of an area on the touch screen display; receiving user input to designate a first asset present within the area; creating a virtual asset tag associated with the first asset, the virtual asset tag having data associated therewith; assigning a position to the virtual asset tag, the position determined via the smart device; and creating an augmented display from the camera, the augmented display having a virtual asset tags displayed thereon, each of the virtual asset tags being associated with a tangible or intangible asset.

No. of Pages : 9 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042735 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : IMIDAZOPIPERAZINE INHIBITORS OF TRANSCRIPTION ACTIVATING PROTEINS

(51) International classification :A61K31/4985,C07D471/04,C07D487/04
(31) Priority Document No :62/650151
(32) Priority Date :29/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/024976
Filing Date :29/03/2019
(87) International Publication No :WO 2019/191667
(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)JONES, Philip
4)CROSS, Jason
5)CARROLL, Christopher, L.
6)MCAFOOS, Timothy, J.
7)MANDAL, Pijus, K.

(57) Abstract :

The present disclosure relates to heterocyclic compounds and methods which may be useful as inhibitors of transcription activating proteins such as CBP and P300 for the treatment or prevention of diseases such as proliferative diseases, inflammatory disorders, autoimmune diseases, and fibrotic diseases.

No. of Pages : 199 No. of Claims : 52

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042736 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : RESISTANCE-BASED HAPTIC DEVICE

(51) International classification :G06F3/01,B25J13/02,G05G1/04
(31) Priority Document No :15/943610
(32) Priority Date :02/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/023955
Filing Date :26/03/2019
(87) International Publication No :WO 2019/195020
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)SINCLAIR, Michael Jack
2)OFEK, Eyal
3)HOLZ, Christian

(57) Abstract :

A haptic device includes a drum configured to rotate about an axis, a cord wound around the drum, a user-actuatable lever operatively coupled to the drum and configured to receive a user-actuation force, a position sensor configured to determine a rotational position of the drum, and an actuator operatively coupled to the cord. The actuator may be configured to apply a tension to the cord that further applies friction to brake the drum to cause the user-actuatable lever to provide a user-perceived resistance that opposes the user-actuation force. The user-perceived resistance may vary as a function of the rotational position of the drum.

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

(54) Title of the invention : CHEMICAL METHODS FOR NUCLEIC ACID-BASED DATA STORAGE

(51) International classification :G16B30/10,G16B30/20,G16B50/30
 (31) Priority Document No :62/644323
 (32) Priority Date :16/03/2018
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/US2019/022596
 Filing Date :15/03/2019
 (87) International Publication No :WO 2019/178551
 (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 discloses methods and systems for encoding digital information in nucleic acid (e.g., deoxyribonucleic acid) molecules without base-by-base synthesis, by encoding bit-value information in the presence or absence of unique nucleic acid sequences within a pool, comprising specifying each bit location in a bit-stream with a unique nucleic sequence and specifying the bit value at that location by the presence or absence of the corresponding unique nucleic acid sequence in the pool. Also disclosed are chemical methods for generating unique nucleic acid sequences using combinatorial genomic strategies (e.g., assembly of multiple nucleic acid sequences or enzymatic-based editing of nucleic acid sequences).

No. of Pages : 110 No. of Claims : 63

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042738 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SIDE-EMITTING LED WITH INCREASED ILLUMINATION

(51) International classification	:H05K3/24,H05K1/02	(71) Name of Applicant :
(31) Priority Document No	:15/948660	1)MICROSOFT TECHNOLOGY LICENSING, LLC
(32) Priority Date	:09/04/2018	Address of Applicant :One Microsoft Way Redmond, WA
(33) Name of priority country	:U.S.A.	98052-6399 U.S.A.
(86) International Application No	:PCT/US2019/023950	(72) Name of Inventor :
Filing Date	:26/03/2019	1)DOYLE, Patrick, Robert
(87) International Publication No	:WO 2019/199437	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A light source includes a side-emitting light emitting diode (LED) (111), that is mounted on a printed circuit board (PCB) (120) or other substrate. The LED (111) is used to illuminate a target (130) such as a sensor or the like. In order to increase the amount of illumination emitted by the LED (111) that reaches the target (130), a reflector (150) is located on the PCB (120). The reflector (150) receives light (141) that is emitted by the LED (111) and directed toward the PCB (120) and not the target (130). This light, which would otherwise be lost, is reflected by the reflector (150) and re-directed toward the target (130). By reducing the amount of light is lost, the amount of light reaching the target can be increased without a commensurate increase in the current supplied to the LED (111).

No. of Pages : 12 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042739 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : FLUID COOLERS, HEAT EXCHANGERS, SEAL ASSEMBLIES AND SYSTEMS INCLUDING FLUID COOLERS OR HEAT EXCHANGERS AND RELATED METHODS

(51) International classification :F28D7/02,F28D1/047,F28F1/36
(31) Priority Document No :62/657343
(32) Priority Date :13/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IB2019/000494
Filing Date :12/04/2019
(87) International Publication No:WO 2019/197907
(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)VAN NOESEL, Ronald
2)VAN GRAEFSCHPEPE, Dennis
3)OOMEN, Frank

(57) Abstract :

Heat exchangers include at least one looped tube having at least one section that is laterally offset from another section of the looped tube. Fluid cooling systems and seal systems may include such heat exchangers.

No. of Pages : 16 No. of Claims : 20

(54) Title of the invention : DISPOSABLE 3D PRINTER CARTRIDGE

(51) International classification :B29C64/124,B29C64/255,B33Y30/00
 (31) Priority Document No :00278/18
 (32) Priority Date :07/03/2018
 (33) Name of priority country :Switzerland
 (86) International Application No :PCT/CH2019/050003
 Filing Date :06/03/2019
 (87) International Publication No :WO 2019/169511
 (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 :**
1)SCHMID, Marco
2)SCHMID, Dieter

(57) Abstract :

The invention relates to a disposable 3D printer cartridge (11) for inserting into an exposure device for producing an object (33) which is constructed in additive layers, wherein the cartridge (11) contains at least one polymerizable liquid, or a polymerizable liquid can be filled into the cartridge (11). The cartridge (11) comprises: a first lower housing part (13), a second upper housing part (15) which can be removed from the first housing part (13), a support platform (31) which forms the lower face of the second housing part (15), the object (33) constructed in additive layers being arrangeable on the exterior of the support platform during the construction of the object, and a construction element (35) which corresponds to the base of the first housing part (13). The layers of the object (33) can be polymerized on the inner face of the construction element (35), and the inner face of the construction element (35) has a non-stick coating.

No. of Pages : 18 No. of Claims : 17

(54) Title of the invention : BRAIN NATRIURETIC PEPTIDE ENGRAFTED ANTIBODIES

(51) International classification :A61P9/12,C07K14/58,C07K16/00
 (31) Priority Document No :18167106.6
 (32) Priority Date :12/04/2018
 (33) Name of priority country :EPO
 (86) International Application No :PCT/EP2019/059101
 Filing Date :10/04/2019
 (87) International Publication No :WO 2019/197475
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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1)BROCKSCHNIEDER, Damian
2)TEBBE, Jan
3)WILMEN, Andreas
4)WUNDER, Frank

(57) Abstract :

The present invention relates to an antibody or a fragment thereof comprising at least one heterologous amino acid sequence incorporated within at least one CDR region of said antibody or fragment thereof, wherein said at least one heterologous amino acid sequence comprises an N-terminal linker sequence (NtIs), a Brain Natriuretic Peptide (BNP) and a C-terminal linker sequence (CtIs). Optionally, at least a portion of said at least one CDR region is replaced by said at least one heterologous amino acid sequence incorporated therein. The present invention further relates to such antibody or fragment thereof for use in a method for treatment, a composition comprising such antibody or fragment thereof, a nucleic acid or a mixture of nucleic acids encoding such antibody or fragment thereof, a host cell comprising such nucleic acid or such mixture of nucleic acids and to a process for producing such antibody or fragment thereof.

No. of Pages : 106 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042744 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : TRANSFUSION PREPARATION

(51) International classification :A61K33/06,A61K9/08,A61K9/10
(31) Priority Document No :2018-045822
(32) Priority Date :13/03/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/010195
Filing Date :13/03/2019
(87) International Publication No :WO 2019/176996
(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)KIUCHI, Yasuhiro
5)YAMANAKA, Miyuki
6)HAYASHI, Yui
7)KANNO, Hiroshi
8)SARUWATARI, Yu

(57) Abstract :

The present invention addresses the problem of providing a transfusion preparation wherein the formation of insoluble matter is inhibited after two liquids are mixed together during prolonged storage. Provided is a transfusion preparation which has two chambers separated by a communicable partition, wherein; a first chamber contains a first chamber transfusion containing a fat emulsion and at least one member selected from the group consisting of an amino acid having a buffering ability, a divalent organic acid and a trivalent organic acid; and a second chamber contains a second chamber transfusion containing an amino acid and at least calcium as an electrolyte. In this transfusion preparation: in the first chamber transfusion, the total content of the amino acid having a buffering ability, the divalent organic acid and the trivalent organic acid is 0.15-0.5 g/L; and, 48 hours after the partition has allowed communication between the chambers, the pH value of the mixture of the first chamber transfusion with the second chamber transfusion is not higher than 6.53.

No. of Pages : 37 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042746 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PACKAGE FOR STORING PORTIONS OF BEVERAGE PRECURSOR FOR PREPARING A BEVERAGE THEREFROM

(51) International classification :B65D65/46,A47J31/40,B65D75/32
(31) Priority Document No :18172019.4
(32) Priority Date :14/05/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/062026
Filing Date :10/05/2019
(87) International Publication No :WO 2019/219524
(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 :
1)MAGATTI, Marco

(57) Abstract :

A package (1) containing portions of beverage precursor for the preparation of a beverage in a beverage preparation device by mixing liquid with at least one portion of the beverage precursor in the form of a portioning band (3) comprising a pair of packaging sheets (4, 5) sealed to one another for enclosing and sealing the portions individually and separately in a substantially oxygen impervious manner by the sheets being sealed together about each portion, wherein the portions take the form of substantially spherical shapes which are covered on each side of the band by a sheet being formed with cavities (16, 17) to receive a part of each portion and wherein at least one of the sheet can be cut or torn at least partially about each portion for removal of each portion individually.

No. of Pages : 14 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042749 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : OPHTHALMIC DEVICE

(51) International classification :A61B3/00
(31) Priority Document No :1805561.6
(32) Priority Date :04/04/2018
(33) Name of priority country :U.K.
(86) International Application No :PCT/EP2019/058403
Filing Date :03/04/2019
(87) International Publication No :WO 2019/193051
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)OBSZANSKI, Karl

(57) Abstract :

The present invention provides an ophthalmic device comprising at least one linear array of a plurality of light sources. The linear array is rotationally mounted about a central axis on a mounting body which may contain a motor. The linear array has an inner end and an outer end, and the inner end is mounted closer to the central axis and the mounting body than the outer end. As the array is rotated, it forms a series of concentric and conical rings of light that can be projected onto an eye.

No. of Pages : 12 No. of Claims : 19

(54) Title of the invention : SEAL RING

(51) International classification :F16J15/3272,F16K1/226 (31) Priority Document No :2018-055092 (32) Priority Date :22/03/2018 (33) Name of priority country :Japan (86) International Application No :PCT/JP2019/011404 Filing Date :19/03/2019 (87) International Publication No :WO 2019/181922 (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71) Name of Applicant : 1)NTN CORPORATION Address of Applicant :3-17, Kyomachibori 1-chome, Nishi-ku, Osaka-shi, Osaka 5500003 Japan (72) Name of Inventor : 1)KAKEHI Kohzoh 2)YAMAZOE Yuuki
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(57) Abstract :

Provided is a seal ring with which wear of a counterpart housing can be reduced, sticking out from an annular groove can be prevented, and which has an excellent low-leakage property, which is the primary purpose of the seal ring. This seal ring 1 is a resin seal ring that is mounted in an annular groove 12 provided at the outer circumference of a substantially disc-shaped butterfly valve 11, and that is for sealing an annular gap 14 between the butterfly valve 11 and a housing 13 in which the valve is accommodated. A portion of the seal ring 1 protrudes from the annular groove 12 and adheres to the housing 13 due to pressure from the sealed fluid, thereby sealing the annular gap 14. The radial thickness t of the ring is 7-11% of the ring diameter in the free state, and when the valve is open and the diameter has expanded due to pressure from the sealed fluid the inner diameter of the ring is smaller than the outer diameter r of the valve.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042782 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : COIL MODULE, WIRELESS CHARGING EMISSION DEVICE, RECEIVING DEVICE, SYSTEM AND TERMINAL

(51) International classification :H01F38/14
(31) Priority Document No :201810266633.5
(32) Priority Date :28/03/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/070613
Filing Date :07/01/2019
(87) International Publication No :WO 2019/184548
(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)PEI, Changsheng
2)ZHU, Yongfa
3)ZENG, Zhiqiang
4)CHEN, Xiaowei

(57) Abstract :

Disclosed in the present application is a coil module and belongs to the technical field of wireless charging. The module comprises: an insulating layer, a first plane coil winding and a second plane coil winding. At least one turn of coil of the first plane coil winding comprises a first part, a second part and a first connecting part, and at least one turn of coil of the second plane coil winding comprises a third part, a fourth part and a second connecting part. A first connector is used for connecting the lateral part of the first part and the medial part of the second part, and a second connector is used for connecting the medial part of the third part and the lateral part of the fourth part connected; an overlapped part exists between projections of the first and second connectors on the plane where the insulating layer is located. Correspondingly, the invention further discloses a wireless charging emission device, receiving device and system adopting the coil module, and a terminal adopting the wireless charging system.

No. of Pages : 44 No. of Claims : 20

(54) Title of the invention : RUBBER BLANKET FOR PRINTING AND METHOD FOR PRODUCING SAME

<p>(51) International classification :B41N10/04,B32B15/06,B32B25/04</p> <p>(31) Priority Document No :2018-039998</p> <p>(32) Priority Date :06/03/2018</p> <p>(33) Name of priority country:Japan</p> <p>(86) International Application No :PCT/JP2018/044979</p> <p style="padding-left: 20px;">Filing Date :06/12/2018</p> <p>(87) International Publication No :WO 2019/171690</p> <p>(61) Patent of Addition to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p>	<p>(71)Name of Applicant : 1)KINYOSHA CO., LTD. Address of Applicant :1-2-2, Osaki, Shinagawa-ku, Tokyo 1410032 Japan</p> <p>(72)Name of Inventor : 1)TANAKA, Ryuta 2)KAWAGUCHI, Masakuni</p>
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(57) Abstract :

This rubber blanket (1) for printing is provided with: a base material layer (2); a surface rubber layer (3) which is provided on one surface of the base material layer (2); and a metal layer (4) which is provided on the other surface of the base material layer (2), said other surface being on the reverse side of the surface rubber layer (3)-side surface. The metal layer (4) is provided with a passivation layer (9) in at least a surface that is on the reverse side of the base material layer (2)-side surface.

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

(54) Title of the invention : SYSTEMS AND METHODS FOR GENERATING A DYNAMICALLY ADJUSTABLE DIAL PAD

(51) International classification :G06F3/0481,G06F3/048,G06F3/0482
 (31) Priority Document No :15/909928
 (32) Priority Date :01/03/2018
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/US2019/017130
 Filing Date :07/02/2019
 (87) International Publication No :WO 2019/168648
 (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)SANCHEZ, Gabriel Albors
3)AGARWAL, Ravan

(57) Abstract :
 Systems and methods for estimating relevant functionalities are disclosed. Example embodiments include a system for estimating relevant functionalities. The system may include a receiver adapted to receive incoming signals and a transmitter adapted to send outgoing signals. Additionally, the system may include circuitry coupled to the transmitter and receiver. The system may cause the circuitry to use the receiver to obtain information gathered from one or more applications supported by the electronic device. The system may cause the circuitry to remove a subset of personally identifying information from the information obtained. The system may determine an estimated user preference for a functionality of a set of functionalities using the information obtained. The functionality may correspond to an icon in an array of icons presentable on a display of the electronic device. The system may use the transmitter to communicate the estimated user preference for the functionality to the electronic device.

No. of Pages : 41 No. of Claims : 20

(54) Title of the invention : SYSTEMS AND METHODS FOR GENERATING A DYNAMICALLY ADJUSTABLE DIAL PAD

(51) International classification :G06F3/041,G06F3/023,G06F3/033
 (31) Priority Document No :15/909916
 (32) Priority Date :01/03/2018
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/US2019/017128
 Filing Date :07/02/2019
 (87) International Publication No :WO 2019/168647
 (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)SANCHEZ, Gabriel, Albors
3)AGARWAL, Pavan

(57) Abstract :
 Systems and methods for generating a dynamically adjustable dial pad are disclosed. Example embodiments include an electronic device for generating a dynamically adjustable dial pad. An electronic device may include a display, a transceiver, and circuitry. The circuitry may be coupled to the display and transceiver. The electronic device may cause the display to present icons. The device may cause the circuitry to gather information from applications supported by the device. The device may cause the transceiver to send the information gathered to a remote server. The device may cause the transceiver to receive, from the remote server, ranking information for functionalities. The ranking information may use the information gathered. The ranking information may represent an estimated relevance of the functionalities to a user. The device may cause the circuitry to generate modified icons using the ranking information. The device may cause the display to present the modified icons.

No. of Pages : 43 No. of Claims : 20

(54) Title of the invention : VACUUM ADIABATIC BODY AND REFRIGERATOR

(57) Abstract :

Provided is a vacuum adiabatic body. The vacuum adiabatic body includes a supporting unit configured to maintain a vacuum space part. The supporting unit includes a plurality of bars extending in a vertical direction between the first plate member and the second plate member. When a pitch of the bar is a, an elastic modulus of a material forming the bar is E, and a radius of a long axis is n and a radius of a short axis is m when a cross-section of the bar has an elliptical shape is n, the following equation: is satisfied.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042802 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DEVICE INCLUDING AN IONIZER

(51) International classification :H01J49/10,H01J27/02,H01J37/08

(31) Priority Document No :62/640864

(32) Priority Date :09/03/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/JP2019/009407

Filing Date :08/03/2019

(87) International Publication No :WO 2019/172433

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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1)BOUMSELLEK, Said

2)TAKAHASHI, Naoki

3)MURTHY, Prakash Sreedhar

(57) Abstract :

A device (1) including an ionizer (50) is disclosed. The ionizer comprises bulk bodies (80) including one or more emitter materials (89) and that is configured to at least partly depletable; and a heating unit (56) that is configured to heat at least a part (81) of the bulk bodies. The ionizer may comprise a electron emitter dispenser (53) that is configured to exposes a limited part of the bulk bodies.

No. of Pages : 19 No. of Claims : 22

(54) Title of the invention : VACUUM ADIABATIC BODY AND REFRIGERATOR

(51) International classification :F25D23/06,F25D23/08,F16L59/065
(31) Priority Document No :10-2018-0074232
(32) Priority Date :27/06/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2019/007757
Filing Date :26/06/2019
(87) International Publication No :WO 2020/004950
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)KANG, Myoungju
2)YOUN, Deokhyun
3)LEE, Jangseok

(57) Abstract :

Provided is a vacuum adiabatic body. To reduce a heat transfer amount between two plates, the vacuum adiabatic body includes: a conductive resistance sheet connecting plate members to each other, an exhaust port through which a gas of a third space is exhausted, and a sealing frame covering a conductive resistance sheet. A virtual line connecting both end portions of the conductive resistance sheet to each other is installed to be obliquely inclined when at least one extension direction of a first plate member or a second plate member is viewed in a horizontal direction.

No. of Pages : 40 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042811 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : EXHAUST SYSTEM INCLUDING SCRF CATALYST WITH OXIDATION ZONE

(51) International classification :F01N3/035,F01N3/10,F01N3/20
(31) Priority Document No :62/649614
(32) Priority Date :29/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IB2019/052596
Filing Date :29/03/2019
(87) International Publication No :WO 2019/186485
(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)BERGEAL, David
3)HOUEL, Valerie
4)WALTON, Mark
5)WIJEMANNE, Thilanka

(57) Abstract :

Systems and methods of the present invention related to an exhaust gas purification system comprising: (a) a first injector for injecting ammonia or a compound decomposable to ammonia into the exhaust gas; (b) a diesel particulate filter including an inlet and an outlet, wherein the filter includes a selective catalyst reduction (SCR) catalyst and an oxidation catalyst; (c) a second injector for injecting ammonia or a compound decomposable to ammonia into the exhaust gas, located downstream of the filter; and (d) a downstream catalyst comprising a selective catalytic reduction catalyst, located downstream of the second injector.

No. of Pages : 21 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042844 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : POLYURETHANE GEL MATERIAL, POLYURETHANE GEL, PSEUDO-BIOLOGICAL MATERIAL, AND PRODUCTION METHOD FOR POLYURETHANE GEL

(51) International classification :C08G18/73,C08G18/08,C08G18/48
(31) Priority Document No :2018-073416
(32) Priority Date :05/04/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/014588
Filing Date :02/04/2019
(87) International Publication No :WO 2019/194161
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)TAGO, Hiroaki
2)KANAYAMA, Hiroshi
3)KAJIURA, Makoto

(57) Abstract :

This polyurethane gel material contains: an aliphatic polyisocyanate (A) that has an average of 2.3 to 3.2 functional groups inclusive; a polyol (B) that has an average of 2.0 to 2.3 functional groups inclusive; and a plasticizer (C) that contains an ester group. The aliphatic polyisocyanate (A) includes an isocyanurate derivative of an aliphatic diisocyanate and/or an alcohol-modified isocyanurate derivative of an aliphatic diisocyanate. The polyol (B) includes a polyoxypropylene polyol and/or polytetramethylene ether glycol. The average hydroxyl value of the polyol (B) is 73 to 200 mg KOH/g inclusive. There are 100 to 500 parts by mass inclusive of the plasticizer (C) per 100 parts by mass of the polyol component (B).

No. of Pages : 40 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042846 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : POLYURETHANE GEL MATERIAL, POLYURETHANE GEL, PSEUDO-BIOLOGICAL MATERIAL, AND PRODUCTION METHOD FOR POLYURETHANE GEL

(51) International classification :C08G18/73,C08G18/08,C08G18/48
(31) Priority Document No :2018-073421
(32) Priority Date :05/04/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/014590
Filing Date :02/04/2019
(87) International Publication No :WO 2019/194162
(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)KAJIURA, Makoto

(57) Abstract :

This polyurethane gel material contains an aliphatic polyisocyanate (A) that has an average of 2.3-3.2 functional groups, a polyol (B) that has an average of 2.0-2.3 functional groups, and a plasticizer (C) that contains an ester group. The aliphatic polyisocyanate (A) includes an isocyanurate derivative of an aliphatic diisocyanate and/or an alcohol-modified isocyanurate derivative of an aliphatic diisocyanate. The polyol (B) includes polytetramethylene ether glycol and/or a polyoxyalkylene (C2-3) polyol that has an ethylene oxide content of no more than 30 mass%. The average hydroxyl value of the polyol (B) is 30-70 mg KOH/g. There are 50-400 parts by mass of the plasticizer (C) per 100 parts by mass of the polyol component (B).

No. of Pages : 43 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042866 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : AN OPTIMIZATION SYSTEM AND AN OPTIMIZATION METHOD

(51) International classification :H02J7/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2018/082965
Filing Date :13/04/2018
(87) International Publication No :WO 2019/196094
(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)ZANG, Xiaoyun
4)SAWODNY, Oliver T.H.
5)BORONKA, Alexander
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2)ZANG, Xiaoyun
3)SAWODNY, Oliver T.H.
4)BORONKA, Alexander

(57) Abstract :

The present invention provides an optimization system and method for optimizing the use of the power storage device. An optimization system comprising a processor configured to receive one or more criteria for optimizing the use of the power storage device in an application device, receive data comprising at least one of user input (s), data from a cloud, and data regarding the application device, and determine a charging/discharging profile for charging or discharging the power storage device from the received data based on the one or more optimizing criteria; and an output for outputting the charging/discharging profile; wherein the processor is further configured to receive at least one of the user feedback regarding the charging/discharging profile, machine learning data, big data, and a change regarding the optimization system and/or the application device, and update the charging/discharging profile based on the received at least one of the user feedback regarding the charging/discharging profile, machine learning data, big data and the change regarding the optimization system and/or the application device. According to the device, the use of the power storage device like battery may be dynamically optimized.

No. of Pages : 22 No. of Claims : 18

(54) Title of the invention : VIDEO ENCODING AND DECODING

(51) International classification :H04N19/82,H04N19/70,H04N19/46
 (31) Priority Document No :1805569.9
 (32) Priority Date :04/04/2018
 (33) Name of priority country :U.K.
 (86) International Application No :PCT/GB2019/050776
 Filing Date :20/03/2019
 (87) International Publication No :WO 2019/193313
 (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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2)MRAK, Marta
3)BLASI, Saverio
4)DIAS, Andre Seixas

(57) Abstract :

The present invention relates to a method of decoding a video bitstream, the method comprising the steps of: receiving a bitstream representing: residual samples produced by subtracting encoder filtered motion compensated prediction samples from image samples; and motion vectors used in forming the motion compensated prediction samples; the encoder filtering process conducted on the motion compensated prediction samples at an encoder having at least one parameter; using said motion vectors to provide motion compensated prediction samples from a previously reconstructed image; decoder filtering said motion compensated prediction samples in accordance with said at least one parameter; and adding said filtered motion compensated prediction samples to said residual samples to reconstruct images. A system and apparatus corresponding to this method are also disclosed.

No. of Pages : 15 No. of Claims : 41

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042887 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : CATHODE ASSEMBLY FOR ELECTROLYTIC CELL

(51) International classification :C25C3/16,C25C3/08,C25C7/00
(31) Priority Document No :18/52129
(32) Priority Date :12/03/2018
(33) Name of priority country :France
(86) International Application No:PCT/FR2019/050335
Filing Date :14/02/2019
(87) International Publication No :WO 2019/175486
(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)METSOL AG
(72)Name of Inventor :
1)DRAGO DRAGUTIN, Juric
2)RIVOALAND, Loig

(57) Abstract :

The invention relates to a cathode assembly for an electrolytic cell comprising, firstly, a cathode block (10) having a second surface (11) and a first surface (12). The cathode block (10) also comprises at least one sealing groove (13) opening onto the first surface (12) thereof and a plurality of electric contact pins (50) mounted in electrical contact with the first surface (12) of the cathode block (10). The cathode assembly then comprises at least one first current-carrying plate (20) in electrical contact with at least one electric contact pin (50), and which is connected to at least one unit for connecting to a source of electric current. The cathode assembly finally comprises at least one current-carrying bar (30) having an expansion coefficient substantially identical to the expansion coefficient of the current-carrying plate (20), which is sealed in the at least one sealing groove (13) while being attached to at least one current-carrying plate (20). Figure

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042901 A

(19) INDIA

(22) Date of filing of Application :02/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : CAPABILITY INTERACTION METHOD AND RELATED DEVICE

(51) International classification	:H04W36/00
(31) Priority Document No	:201810643850.1
(32) Priority Date	:21/06/2018
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2019/092191
Filing Date	:21/06/2019
(87) International Publication No	:WO 2019/242712
(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 :**
1)YANG, Ning

(57) Abstract :

A capability interaction method and a related drive capable of enabling a network device (110, 1020) to learn about capability information of an adjacent network device. The method comprises: obtaining capability information of at least one adjacent network device and/or at least one adjacent cell (601); and determining, on the basis of the capability information of the adjacent network device and/or at least one adjacent cell, a configuration of a radio resource for at least one terminal device (120, 2010) (602).

No. of Pages : 34 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042920 A

(19) INDIA

(22) Date of filing of Application :02/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PARENTERALLY ADMINISTERED IMMUNE ENHANCING DRUGS

(51) International classification :A61K31/70,C07H19/23
(31) Priority Document No :62/641003
(32) Priority Date :09/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/021300
Filing Date :08/03/2019
(87) International Publication No :WO 2019/173682
(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)JIN, Lixia
4)KALISIAK, Jaroslaw
5)LAWSON, Kenneth V.
6)LELETI, Manmohan Reddy
7)KARAKUNNEL, M.D., Joyson J.
8)POWERS, Jay Patrick

(57) Abstract :

Methods of identifying compounds that modulate the conversion of AMP to adenosine by 5-nucleotidase, ecto, and that possess particular pharmacokinetic characteristics are described herein. Methods of such compounds, and compositions comprising same, for the treatment and/or prevention of a diverse array of diseases, disorders and conditions, including cancer- and immune-related disorders, are also provided.

No. of Pages : 148 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042921 A

(19) INDIA

(22) Date of filing of Application :02/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD OF FORMING A PROTECTED CONNECTION AND CONNECTOR COMPRISING SAID CONNECTION

(51) International classification :H05K3/28,B05D1/00,H01R4/24
(31) Priority Document No :1804277.0
(32) Priority Date :16/03/2018
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2019/050713
Filing Date :13/03/2019
(87) International Publication No:WO 2019/175586
(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)HOPPER, Fred

3)MCLEOD, Alex

4)HUBBARD, Graham

5)POULTER, Neil

(57) Abstract :

A method of forming a protected connection between a first connecting element, optionally mounted on a support (202), and a second connecting element, the method comprising: (i) depositing a protective material (210) on the first connecting element and/or on the support; (ii) optionally depositing an overlying coating (212) on the protective material; and (iii) pushing the second connecting element and establishing a connection between the first connecting element and the second connecting element, the connection being protected by the protective material.

No. of Pages : 36 No. of Claims : 58

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042922 A

(19) INDIA

(22) Date of filing of Application :02/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ELECTRICAL ENERGY DISPENSING SYSTEM

(51) International classification :H02J7/00,H02J7/34,B60L53/55
(31) Priority Document No :1804707.6
(32) Priority Date :23/03/2018
(33) Name of priority country :U.K.
(86) International Application No:PCT/GB2019/050777
Filing Date :20/03/2019
(87) International Publication No :WO 2019/180429
(61) Patent of Addition to
Application Number :NA
Filing Date :NA
(62) Divisional to Application
Number :NA
Filing Date :NA

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1)VOLLER, Stephen David

(57) Abstract :

A system for delivering electrical energy to a chargeable unit of an electrically powered object characterised by comprising: at least one input line for delivering electricity from a grid and/or a source of renewable electrical energy; optionally a first converter disposed within the input line(s) for converting alternating current to direct current; at least one reservoir of electrical energy connected to the input line(s) and including (a) a plurality of supercapacitors arranged in series or parallel and (b) a means for delivering an output voltage and current therefrom; at least one second converter adapted to step-up or down the output voltage from the reservoir(s) to a charging voltage of the chargeable unit and at least one dispensing means connected to the systems and adapted to cooperate with a corresponding connector means on the object to enable the charging voltage to charge the chargeable unit.

No. of Pages : 7 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042942 A

(19) INDIA

(22) Date of filing of Application :02/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DECORATIVE TILE WITH STEREOSCOPIC IMAGE DISPLAY

(51) International classification :E04F13/072,B44F1/06
(31) Priority Document No :2018107728
(32) Priority Date :02/03/2018
(33) Name of priority country :Russia
(86) International Application No :PCT/RU2019/050022
Filing Date :01/03/2019
(87) International Publication No :WO 2019/168447
(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 invention relates to covering materials for buildings and rooms within buildings. A decorative tile comprises: a front protective transparent plate; a side protective layer; a transparent film; a rear protective layer; a stereoscopic image; and a lens array disposed above the stereoscopic image. The front protective transparent plate is connected by its inner side to the transparent film and is connected by its edges to the side protective layer which is connected in turn to the rear protective layer, the rear protective layer is connected by its inner side to the stereoscopic image, above which the lens array is disposed, wherein air gaps are provided between the lens array and the transparent film on one side and between the stereoscopic image and the lens array on the other side, said air gaps allowing the stereoscopic and dynamic display of the stereoscopic image. The transparent film provides additional strength to the protective transparent plate and provides ultra-violet protection for the stereoscopic image, and the front protective transparent plate, the side protective layer and the rear protective layer form a single sealed protective casing.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042957 A

(19) INDIA

(22) Date of filing of Application :02/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : HAIR AND SCALP DIAGNOSIS & TREATMENT

(51) International classification	:A61B5/00	(71) Name of Applicant :
(31) Priority Document No	:PI 2018700974	1)T-BIOMAX SDN BHD
(32) Priority Date	:12/03/2018	Address of Applicant :No. 37 & 39 Jalan USJ1/31, USJ 1,
(33) Name of priority country	:Malaysia	Subang Jaya Selangor, 47610 Malaysia
(86) International Application No	:PCT/MY2019/050019	(72) Name of Inventor :
Filing Date	:12/03/2019	1)CHEE CHONG, Thye
(87) International Publication No	:WO 2019/177451	
(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 system and method for diagnosis and treatment of hair and scalp. The system comprises an electronic user interface, a plurality of data blocks configured to collect hair and scalp related data from a plurality of IOT devices, a processor coupled to an AI engine configured to process the data for identifying a problem and recommending a treatment, and a controller encoded with instructions to process a plurality of data models wherein the AI engine determines identifiers in the data based on at least one of the plurality of data models for analyzing condition of hair and scalp to recommend the treatment to a user on the interface.

No. of Pages : 15 No. of Claims : 25

(54) Title of the invention : VACUUM ADIABATIC BODY AND REFRIGERATOR

(51) International classification :F16L59/065,F16L59/02,F25D23/06
(31) Priority Document No :10-2018-0074263
(32) Priority Date :27/06/2018
(33) Name of priority country:Republic of Korea
(86) International Application No :PCT/KR2019/007760
Filing Date :26/06/2019
(87) International Publication No :WO 2020/004952
(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)BAE, Jaehyun
3)YOUN, Deokhyun

(57) Abstract :
Provided is a vacuum adiabatic body. The vacuum adiabatic body includes a first plate member configured to define at least a portion of a wall for a first space, a second plate member configured to define at least a portion of a wall for a second space having a temperature different from that of the first space, a sealing part configured to seal the first plate member and the second plate member so as to provide a third space that has a temperature between the temperature of the first space and the temperature of the second space and is a vacuum space, and a supporting unit configured to maintain the third space. The supporting unit includes at least two bars configured to support the first plate member and the second plate member, and each of the bars is made of poly phenylene sulfide (PPS) containing glass fiber.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042963 A

(19) INDIA

(22) Date of filing of Application :03/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : CARRIER SELECTION METHOD, USER EQUIPMENT AND COMPUTER STORAGE MEDIUM

(51) International classification :H04W72/10

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :PCT/CN2018/079188

Filing Date :15/03/2018

(87) International Publication No :WO 2019/174008

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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1)TANG, Hai

(57) Abstract :

Disclosed are a carrier selection method, a user equipment (UE) and a computer storage medium. The method comprises: selecting, according to a first pre-set criterion, a resource on a target carrier for target data, wherein the first pre-set criterion at least comprises: preferentially selecting the resource for target data with a high priority; and transmitting data between UEs based on the selected resource on the target carrier.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017042973 A

(19) INDIA

(22) Date of filing of Application :03/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DIALYSIS MACHINE

(51) International classification :A61M1/16,B01D19/00
(31) Priority Document No :10 2018 107 895.1
(32) Priority Date :04/04/2018
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2019/058317
Filing Date :02/04/2019
(87) International Publication No :WO 2019/193013
(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)ST.,BLEIN, Tilman
3)SYFONIOS, Andreas
4)HMMER, Dirk
5)IRRGANG, Tobias
6)GLASER, Benedict

(57) Abstract :

The invention relates to a dialysis machine comprising a balance system having at least one balance chamber, for volumetrically exact feeding and discharging of dialysate to and from a dialyser fluidically connected to the balance system when in operation, and a water inlet system connected to the balance system for supplying fresh dialysis liquid, said water inlet system comprising a device for degassing water that is connected to a deaerator of the dialyser, wherein a first sub-region of the deaerator acts as a mixing chamber and can be connected, via at least one concentrate line, to at least one source of concentrate, and is fluidically connected to the balance system via at least one dialysate line, the filling volume of a balance chamber corresponding to or exceeding the sum of the volume of the mixing chamber and the interior volume of the dialysate line.

No. of Pages : 21 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043035 A

(19) INDIA

(22) Date of filing of Application :03/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : TITANIUM DIOXIDE

(51) International classification :A61K8/29,A61Q17/04,A61K8/02
(31) Priority Document No :18163206.8
(32) Priority Date :21/03/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/057037
Filing Date :21/03/2019
(87) International Publication No :WO 2019/180114
(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)LATVA-NIRVA, Esa
3)ROBB, John

(57) Abstract :

A cosmetic composition is provided that comprises from 0.1 to 20wt% of an organic cosmetic active ingredient that has ligand characteristics, such as avobenzone;from 0.1 to 30wt% of titanium dioxide particulate material, wherein the titanium dioxide is in the rutile form and has a geometric weight mean crystal size of from 0.35µm to 5µm, and wherein the titanium dioxide particles are provided with a silica coating; and a cosmetically acceptable carrier.The cosmetic composition can be used as a broad spectrum sunscreen and has good stability, with reduced discoloration.

No. of Pages : 76 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043045 A

(19) INDIA

(22) Date of filing of Application :03/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : VISUALIZATION AND MANAGEMENT OF ACCESS LEVELS FOR ACCESS CONTROL BASED ON AL HIERARCHY

(51) International classification :G07C9/00
(31) Priority Document No :62/659409
(32) Priority Date :18/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/027867
Filing Date :17/04/2019
(87) International Publication No :WO 2019/204435
(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)POTOCKI, Jakub
4)GAUTHIER, Ed
5)MARCHIOLI, John

(57) Abstract :

A method of operating an access control system containing one or more hierarchies, each of the one or more hierarchies includes one or more access levels is provided. The method including: computing one or more hierarchies; and assigning a primary access level of the one or more access levels within a primary hierarchy of the one or more hierarchies to a first credential; and determining that access levels vertically below the primary access level in the primary hierarchy are implicitly assigned to the first credential when assigning the primary access level of the one or more access levels within the primary hierarchy of the one or more hierarchies to the first credential.

No. of Pages : 15 No. of Claims : 20

(54) Title of the invention : REVERSE ROTATION PREVENTION IN CENTRIFUGAL COMPRESSOR

(51) International classification :F25B49/02,F04D27/02,F04D29/058
(31) Priority Document No :62/655020
(32) Priority Date :09/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/026308
Filing Date :08/04/2019
(87) International Publication No :WO 2019/199662
(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)NIEFORTH, Scott A.

(57) Abstract :

A method of operating a heat exchanger system in which a compressor, which is drivable by a motor, is fluidly interposed between an evaporator and a condenser following receipt of a shutdown command is provided. The method includes positioning inlet guide vanes (IGVs) of the compressor in a first position in the event of at least one of a first precondition being in effect and the first and a second precondition both not being in effect. The method further includes positioning the IGVs in a second position in an event the first precondition is not in effect but the second precondition is in effect, ramping a speed of the compressor down until a third precondition takes effect, removing power from the motor and positioning the IGVs in the first position once power is removed from the motor.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043054 A

(19) INDIA

(22) Date of filing of Application :03/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : LOST MOTION EXHAUST ROCKER ENGINE BRAKE SYSTEM WITH ACTUATION SOLENOID VALVE AND METHOD OF OPERATION

(51) International classification	:F01L1/18,F01L13/06	(71) Name of Applicant :
(31) Priority Document No	:62/652424	1)PACBRAKE COMPANY
(32) Priority Date	:04/04/2018	Address of Applicant :1670 Grant Avenue Blaine, Washington
(33) Name of priority country	:U.S.A.	98230 U.S.A.
(86) International Application No	:PCT/US2019/025721	(72) Name of Inventor :
Filing Date	:04/04/2019	1)BATCHELLER, Devin
(87) International Publication No	:WO 2019/195511	2)TAYLOR, Kody
(61) Patent of Addition to Application Number	:NA	3)MENEELY, Vincent
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A compression-release engine brake system for effectuating a compression-release engine braking operation of an internal combustion engine. The compression-release system includes a lost motion exhaust rocker assembly including an exhaust rocker arm, an actuation device including an actuation piston and an actuation cavity, and a reset device including a reset check valve and a slider-piston. Hydraulic fluid in the exhaust rocker arm is locked in the actuation cavity when the reset check valve is in the closed position, and flows through the reset check valve when the reset check valve is in the open position. The slider-piston is associated with the reset check valve so that in an extended position of the slider-piston the reset check valve is free to move toward the closed position, and in a retracted position of the slider-piston the reset check valve is moved to the open position thereof by the slider-piston.

No. of Pages : 39 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043059 A

(19) INDIA

(22) Date of filing of Application :03/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A BUTTERFLY VALVE, A METHOD FOR ROTATABLY LOCKING A DISC OF A BUTTERFLY VALVE AND USE OF A BUTTERFLY VALVE

(51) International classification :F16K1/22
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/DK2018/050046
Filing Date :15/03/2018
(87) International Publication No :WO 2019/174685
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)AVK HOLDING A/S
Address of Applicant :S,ndergade 33 8464 Galten Denmark
(72)**Name of Inventor :**
1)DE KLERK, Nicolaas Cornelius

(57) Abstract :

Disclosed is a butterfly valve (1)comprising a valve housing (2)and a rotatable disc (3)arranged to rotate between a blocking position, in which the disc (3)will block flow through the housing (2), and an open position in which the disc (3)will enable flow through the housing (2). The butterfly valve (1)further comprises a drive shaft (4)connected to the disc (3)and through which rotation of the disc (3)between the blocking position and the open position is at least partly enabled and the butterfly valve (1)comprises drive shaft locking means (5)arranged to lock the disc (3)against rotation at least in the blocking position or the open position, wherein the drive shaft locking means (5)comprises a removable locking pawl (6)including pawl engagement means (7)arranged to engage shaft engagement means (8)of the drive shaft (4), wherein the locking pawl (6)is maintained in the engagement by means of separate mechanical fastening means (9)arranged to releasably fix the locking pawl (6)to form backlash-free drive shaft locking means (5). A method for rotatably locking a disc (3)of a butterfly valve (1)and use of a butterfly valve (1)is also disclosed.

No. of Pages : 16 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043086 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ADSORBENT

(51) International classification :B01J20/06
(31) Priority Document No :2018-065854
(32) Priority Date :29/03/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/013524
Filing Date :28/03/2019
(87) International Publication No :WO 2019/189550
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)JGC CATALYSTS AND CHEMICALS LTD.
Address of Applicant :580 Horikawa-cho, Saiwai-ku,
Kawasaki-shi, Kanagawa 2120013 Japan
(72)Name of Inventor :
1)KOJIMA Chihiro
2)SAKAI Shingo
3)YASHIMA Takahiro
4)TAKAHASHI Kaoru
5)OKITA Atsushi
6)HONDA Kazunori

(57) Abstract :

This adsorbent is used for the purpose of removing carbonyl sulfide contained in a fluid that contains an olefin. This adsorbent contains copper oxide and an aluminum compound; the content of the aluminum compound is within the range of from 10% by mass (inclusive) to 50% by mass (inclusive) in terms of Al; and the NH₃ desorption amount in the temperature range of from 100°C (inclusive) to 200°C (inclusive) as determined by NH₃-TPD measurement is within the range of from 0.001 mmol/g (exclusive) to 1 mmol/g (inclusive).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043106 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : HAND POWERED MANUAL TREADMILL

(51) International classification :A63B22/02,A63B21/015,A63B22/12
(31) Priority Document No :62/638176
(32) Priority Date :04/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2018/041962
Filing Date :13/07/2018
(87) International Publication No :WO 2019/172949
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)YAN, Hui

Address of Applicant :21342 Greenspray Ln Huntington Beach, CA 92646 U.S.A.

(72)Name of Inventor :

1)YAN, Hui

(57) Abstract :

The present invention relates to a novel treadmill with hand-powered system to replace electric motor for driving the tread belt. The hand-powered system includes fixed range movement and free-range movement of both handles by different coupling system between two handles. Handles pivoting movement can be efficiently transfer to tread belts backward movement.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043109 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PROCESS FOR PREPARING MICROCAPSULES

(51) International classification :A61K8/11,A61K8/88,A61K8/06
(31) Priority Document No :18185415.9
(32) Priority Date :25/07/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/069690
Filing Date :22/07/2019
(87) International Publication No :WO 2020/020829
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)FIRMENICH SA

Address of Applicant :7, Rue de la Bergère 1242 Satigny
Switzerland

(72)Name of Inventor :

1)OUALI, Lahoussine

2)BASSET, Jean-François

3)ETCHENAUZIA, Laura

(57) Abstract :

The present invention relates to a new process for the preparation of core-shell microcapsules. Microcapsules are also an object of the invention. Perfuming compositions and consumer products comprising said capsules, in particular perfumed consumer products in the form of home care or personal care products, are also part of the invention.

No. of Pages : 34 No. of Claims : 15

(54) Title of the invention : HETEROARYL-TRIAZOLE AND HETEROARYL-TETRAZOLE COMPOUNDS AS PESTICIDES

(51) International classification :C07D401/14,C07D405/14,C07D403/04
 (31) Priority Document No :18167825.1
 (32) Priority Date :17/04/2018
 (33) Name of priority country :EPO
 (86) International Application No :PCT/EP2019/059624
 Filing Date :15/04/2019
 (87) International Publication No :WO 2019/201835
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :

1)BAYER AKTIENGESELLSCHAFTAddress of Applicant :Kaiser-Wilhelm-Allee 1 51373
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1)ARLT, Alexander**2)HALLENBACH, Werner****3)SCHWARZ, Hans-Georg****4)FLEIN, Martin****5)WROBLOWSKY, Heinz-Juergen****6)LINKA, Marc****7)G-RGENS, Ulrich****8)ILG, Kerstin****9)EBBINGHAUS-KINTSCHER, Ulrich****10)CANCHO GRANDE, Yolanda****11)DAMIJONAITIS, Arunas, Jonas****12)EILMUS, Sascha****13)TURBERG, Andreas****14)HEISLER, Iring**

(57) Abstract :

The present invention relates to novel heteroaryl-triazole and heteroaryl-tetrazole compounds of the general formula (I), in which the structural elements Y, Q1, Q2, R1, R2, R3a, R3b, R4 and R5 have the meaning given in the description, to formulations and compositions comprising such compounds and for their use in the control of animal pests including arthropods and insects in plant protection and to their use for control of ectoparasites on animals.

No. of Pages : 148 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043112 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : LYOCELL FIBER WITH VISCOSE LIKE PROPERTIES

(51) International classification :D01F1/00,D01F1/02,D01F2/00

(31) Priority Document No :18160142.8

(32) Priority Date :06/03/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/055528

Filing Date :06/03/2019

(87) International Publication No :WO 2019/170723

(61) Patent of Addition to
Application Number :NA

Filing Date :NA

(62) Divisional to Application
Number :NA

Filing Date :NA

(71)Name of Applicant :

1)LENZING AKTIENGESELLSCHAFT

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(72)Name of Inventor :

1)OPIETNIK, Martina

2)SILBERMANN, Verena

3)BORGARDS, Andrea

(57) Abstract :

The present invention provides a lyocell fiber with increased water retention value and decreased crystallinity as well as a method for producing same and products comprising same.

No. of Pages : 22 No. of Claims : 15

(54) Title of the invention : METHOD AND APPARATUS FOR UPLINK TRANSMISSION IN COMMUNICATION SYSTEM

(51) International classification :H04L5/00,H04W72/12,H04W72/04
(31) Priority Document No :10-2018-0039988
(32) Priority Date :05/04/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2019/003970
Filing Date :04/04/2019
(87) International Publication No :WO 2019/194589
(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)KIM, Cheul Soon
2)PARK, Gi Yoon
3)BAEK, Seung Kwon
4)KO, Young Jo

(57) Abstract :
Disclosed are a method and an apparatus for uplink transmission in a communication system. An operation method of a terminal, comprises the steps of: receiving, from a base station, first SFI information indicating n flexible symbol(s); receiving, from the base station, second SFI information re-indicating m symbol(s) of the n flexible symbol(s) as uplink (UL) symbol(s); and transmitting an SRS to the base station through the m symbol(s) re-indicated as a UL symbol among the n flexible symbol(s) indicated as a flexible symbol. Therefore, performance of the communication system can be improved.

No. of Pages : 120 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043138 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : TWO-COMPONENT ADHESIVE COMPOSITIONS BASED ON PHOSPHATE ESTER MODIFIED ISOCYANATES, AND METHODS FOR MAKING SAME

(51) International classification :C08G18/50,C08G18/76,C08G18/79
(31) Priority Document No :62/649122
(32) Priority Date :28/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/015325
Filing Date :28/01/2019
(87) International Publication No :WO 2019/190622
(61) 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
3)LI, Tuoqi
4)BROWN, Kristy

(57) Abstract :

The disclosed adhesive compositions comprise (A) an isocyanate component comprising an isocyanate-terminated prepolymer that is the reaction product of a polyisocyanate and an isocyanate-reactive mixture comprising a phosphate ester polyol. The disclosed adhesive compositions further comprise (B) an isocyanate-reactive component polyol component comprising a polyol. In some embodiments, methods for preparing two-component adhesives formulations are disclosed comprising preparing an isocyanate component comprising an isocyanate-terminated prepolymer by reacting a polyisocyanate with an isocyanate-reactive mixture comprising a phosphate ester polyol and preparing an isocyanate-reactive component comprising a polyol. The methods further comprise mixing the isocyanate component and the isocyanate-reactive component at a stoichiometric ratio (NCO/OH) of from about 1.0 to about 5.0. Methods for forming laminate structures, and the laminate structures themselves, are also disclosed.

No. of Pages : 26 No. of Claims : 11

(54) Title of the invention : FLOODING COMPOSITION WITH POLYSILOXANE

<p>(51) International classification :C08F255/02,C08L83/04,C08L91/00</p> <p>(31) Priority Document No :15/938885</p> <p>(32) Priority Date :28/03/2018</p> <p>(33) Name of priority country :U.S.A.</p> <p>(86) International Application No :PCT/US2019/022012 Filing Date :13/03/2019</p> <p>(87) International Publication No :WO 2019/190747</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)DOW GLOBAL TECHNOLOGIES LLC Address of Applicant :2040 Dow Center Midland, Michigan 48674 U.S.A.</p> <p>(72)Name of Inventor : 1)SEVEN, Karl M. 2)COGEN, Jeffrey M. 3)ESSEGHIR, Mohamed</p>
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(57) Abstract :

The present disclosure provides a flooding composition. In an embodiment, the flooding composition includes in weight percent (wt%) based on the weight of the composition (A) from 10 wt% to 45 wt% of a silane-grafted polyolefin (Si-g-PO). The flooding composition also includes (B) from 5 wt% to 60 wt% of a poly-olefin oil (PAO oil), (C) from 15 wt% to 90 wt% of a polysiloxane, and (D) from 0.05 wt% to 0.2 wt% of a catalyst.

No. of Pages : 28 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043199 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYNCHRONISATION DEVICE FOR SYNCHRONISING HEAD-MOUNTED DISPLAYS WITH A VIRTUAL WORLD IN AN AMUSEMENT RIDE, AMUSEMENT RIDE HAVING A SYNCHRONISATION DEVICE OF THIS TYPE, AND METHOD FOR OPERATING AN AMUSEMENT RIDE OF THIS TYPE

(51) International classification	:A63G7/00,A63G31/16	(71) Name of Applicant :
(31) Priority Document No	:18162346.3	1)VR COASTER GMBH & CO. KG
(32) Priority Date	:16/03/2018	Address of Applicant :Trippstadter Strae 110 67663
(33) Name of priority country	:EPO	Kaiserslautern Germany
(86) International Application No	:PCT/EP2018/084228	(72) Name of Inventor :
Filing Date	:10/12/2018	1)HEYSE, Michael
(87) International Publication No	:WO 2019/174770	
(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 synchronisation device for synchronising head-mounted displays (22) in an amusement ride (10), comprising at least one head-mounted display (22) with which a virtual reality generated by a VR device (30) can be represented, and a display position detection device (28) for detecting the position and orientation of the head-mounted display (22), wherein the synchronisation device (12) is designed in such a way that the virtual reality is synchronised with the head-mounted display (22), taking into consideration the position and orientation of the head-mounted display (22) detected by the display position detection device (28), as soon as a selectable starting criterion is fulfilled. The invention also relates to an amusement ride having a synchronisation device of this type. The invention further relates to a method for operating an amusement ride of this type.

No. of Pages : 15 No. of Claims : 16

(54) Title of the invention : SYNCHRONISATION DEVICE HAVING A BASE STATION FOR SYNCHRONISING HEAD-MOUNTED DISPLAYS WITH A VIRTUAL WORLD IN AN AMUSEMENT RIDE, AMUSEMENT RIDE HAVING A SYNCHRONISATION DEVICE OF THIS TYPE, AND METHOD FOR OPERATING AN AMUSEMENT RIDE OF THIS TYPE

(51) International classification	:A63G7/00,A63G31/16	(71)Name of Applicant :
(31) Priority Document No	:18162342.2	1)VR COASTER GMBH & CO. KG
(32) Priority Date	:16/03/2018	Address of Applicant :Trippstadter Strae 110 67663
(33) Name of priority country	:EPO	Kaiserslautern Germany
(86) International Application No	:PCT/EP2018/084226	(72)Name of Inventor :
Filing Date	:10/12/2018	1)HEYSE, Michael
(87) International Publication No	:WO 2019/174769	
(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 synchronisation device for synchronising head-mounted displays (22) with a virtual world in an amusement ride (10), comprising at least one head-mounted display (22) with which a virtual reality can be represented, a base station (24) for placing down the head-mounted display (22), wherein the base station (24) has receiving means with which the head-mounted display (22) can be placed down in a defined position and orientation in the base station (24), and a display position detection device (28) for detecting the position and orientation of the head-mounted display (22), where in the synchronisation device (12) is designed in such a way that the virtual reality is synchronised with the head-mounted display (22), taking into consideration the position and orientation of the head-mounted display (22) detected by the display position detection device (28) in relation to the position and orientation of the head-mounted display (22) in the base station (24), as soon as the head-mounted display (22) is removed from the base station (24). The invention also relates to an amusement ride (10) having a synchronisation device (12) of this type. The invention further relates to a method for operating an amusement ride (10) of this type.

No. of Pages : 15 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043202 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : INTEGRATED ULTRASONIC TRANSDUCERS

(51) International classification :A61B8/00,B06B1/06,G01N29/24
(31) Priority Document No :15/933309
(32) Priority Date :22/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/021500
Filing Date :09/03/2019
(87) International Publication No :WO 2019/182771
(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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Redwood City, California 94065 U.S.A.
(72)**Name of Inventor :**
1)BRYZEK, Janusz
2)AKKARAJU, Sandeep
3)HAQUE, Yusuf
4)ADAM, Joe

(57) Abstract :

A transducer assembly (700) includes: a microelectromechanical systems (MEMS) die (702) including a plurality of piezoelectric elements (720); a complementary metal-oxide-semiconductor (CMOS) die (704) electrically coupled to the MEMS die (702) by a first plurality of bumps (712) and including at least one circuit for controlling the plurality of piezoelectric elements (720); and a package (706) secured to the CMOS die (704) by an adhesive layer (710) and electrically connected to the CMOS die (704).

No. of Pages : 20 No. of Claims : 29

(54) Title of the invention : SYSTEM AND METHOD FOR TIME SYNCHRONIZATION BETWEEN CHANNELS OF A MULTICHANNEL RADIO SIGNAL RECEPTION SYSTEM

<p>(51) International classification :H03K5/15,H04J3/06,H04L7/00 (31) Priority Document No :18 00299 (32) Priority Date :11/04/2018 (33) Name of priority country :France (86) International Application No :PCT/EP2019/059115 Filing Date :10/04/2019 (87) International Publication No :WO 2019/197480 (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)THALES Address of Applicant :Tour Carpe Diem Place des Corolles Esplanade Nord 92400 COURBEVOIE France (72)Name of Inventor : 1)BRIAND, Thierry 2)KERNALEGUEN, Pierre</p>
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(57) Abstract :

The invention relates to a synchronization device (26i) designed to be inserted into a reception channel of a multichannel radio signal reception system between an interfacing module (10i) and a digital signal processing module (12i), the interfacing module being designed to receive digitized signal samples from an analogue-to-digital converter having a natural sampling frequency (F_{ei}) and to provide packets of P digitized signal samples at a first frequency (F_{ei}/P). This device has a memory (25i) accessible in write mode and in read mode by independent access operations, connected at the output of the interfacing module (10i), and a first set of registers (23i) supplied at input by first packets of P samples read from said memory (25i) from a read address, at a second frequency, and a second set of registers (25i) supplied by the outputs of the first set of registers and designed to deliver second packets of P samples at the rate of the second frequency, with a delay of one period of the second frequency (FT). The synchronization device supplies, at output, pluralities of third packets of P samples forming successive series each containing a number of samples in series corresponding to one and the same duration, and each first sample of a series of a first reception channel corresponds in time to the first sample of a series of another reception channel.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043211 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : LYOCELL FIBER WITH DECREASED PILL FORMATION

(51) International classification :D21H13/02,D21H13/08,D01F2/02
(31) Priority Document No :18160143.6
(32) Priority Date :06/03/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/055563
Filing Date :06/03/2019
(87) International Publication No :WO 2019/170740
(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 :Werkstrae 2 4860 Lenzing Austria
(72)**Name of Inventor :**
1)OPIETNIK, Martina
2)K.,MPF, Karin

(57) Abstract :

The present invention provides a lyocell fiber with decreased pill formation while showing a high hemicelluloses content and an increased tendency to fibrillate, as well as a method for producing same and products comprising same.

No. of Pages : 15 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043216 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : TIME DOMAIN RESOURCE ALLOCATION METHOD AND DEVICE

(51) International classification :H04W72/04
(31) Priority Document No :201810301448.5
(32) Priority Date :04/04/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/079570
Filing Date :25/03/2019
(87) International Publication No :WO 2019/192345
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)HUAWEI TECHNOLOGIES CO., LTD.
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Bantian, Longgang District Shenzhen, Guangdong 518129 China
(72)**Name of Inventor :**
1)WANG, Ting
2)LIU, Zhe
3)TANG, Hao
4)WANG, Yi

(57) Abstract :

Disclosed by the embodiment of the present application is a time domain resource allocation method and device, relating to the communication technology field. Reasonable default candidate resources are allocated to guarantee the transmission performance of data transmission. The method may comprise: determining a number N pieces of candidate time domain resource information, wherein N is greater than or equal to 2; receiving indication information for determining a time domain resource allocated for a data channel from the N pieces of candidate time domain resource information, wherein for at least one frame structure parameter of a number M types of frame structure parameters, a time domain resource indicated by at least one candidate time domain resource information of the N pieces of candidate time domain resource information is different from a time domain resource used by at least one of the following signals and/or channels in LTE: a cell common reference signal (CRS), a physical downlink control channel (PDCCH), a multimedia broadcast single frequency network (MBSFN), a primary synchronization signal (PSS), a secondary synchronization signal (SSS) and/or a packet broadcast channel (PBCH).

No. of Pages : 48 No. of Claims : 22

(54) Title of the invention : BREAST PUMP

<p>(51) International classification :A61M1/06,A61M1/00 (31) Priority Document No :10-2018-0039783 (32) Priority Date :05/04/2018 (33) Name of priority country :Republic of Korea (86) International Application No :PCT/KR2019/002145 Filing Date :21/02/2019 (87) International Publication No :WO 2019/194418 (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)HWANG, Hyo Soon Address of Applicant :(Yeokbuk-dong, YeokbukDongwonRoyalDuke) #103-1403, 26, Myongji-ro 16beon-gil Cheoin-gu, Yongin-Si Gyeonggi-do 17054 Republic of Korea (72)Name of Inventor : 1)HWANG, Hyo Soon 2)HWANG, Hyo Soon</p>
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(57) Abstract :

Disclosed is a breast pump. Provided is a breast milk extractor according to one aspect of the present invention, comprising: a tightly contacting housing including a protrusion part which is formed at a portion corresponding to a nipple of a lactating woman and extends outward, and a breast milk discharge hole formed on the protrusion part; a cap connector which is coupled to the protrusion part so as to cover an end of the protrusion part and form a first inner space between the cap connector and the end of the protrusion part, and which includes a breast milk outflow pipe that is in communication with the breast milk discharge hole and the first inner space; a funnel connector installed on the cap connector and forming a second inner space; a storage housing which has a coupling hole at a portion corresponding to the second inner space of the funnel connector and which is detachably coupled to the tightly contacting housing; a cover coupled to the funnel connector so as to cover the second inner space of the funnel connector through the coupling hole of the storage housing; and a flow separation membrane for separating the space between the funnel connector and the cover.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043225 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHODS FOR ADJUSTING A POLYMER PROPERTY

(51) International classification :C08F2/34,C08F4/6592,C08F210/16
(31) Priority Document No :62/649031
(32) Priority Date :28/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/023107
Filing Date :20/03/2019
(87) International Publication No :WO 2019/190848
(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)MARKEL, E., J.
3)PEQUENO, R., Eric
4)SAVATSKY, Bruce, J.

(57) Abstract :

Embodiments of the present disclosure are directed towards methods of adjusting melt index and/or density utilizing a metallocene complex represented by Formula (I): wherein each n-Pr is n-propyl, and each X is independently CH₃, Cl, Br, or F.

No. of Pages : 22 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043226 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : FLOODING COMPOSITION WITH POLYSILOXANE

(51) International classification:G02B6/44,C08L83/04,C08L91/00

(31) Priority Document No :15/938774

(32) Priority Date :28/03/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/021994

Filing Date :13/03/2019

(87) International Publication No :WO 2019/190746

(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)SEVEN, Karl M.

2)COGEN, Jeffrey M.

3)ESSEGHIR, Mohamed

(57) Abstract :

The present disclosure provides a flooding composition. In an embodiment, the flooding composition includes in weight percent (wt%) based on the weight of the composition (A) from 20 wt% to 40 wt% of a polyolefin component comprising (i) a first amorphous polyolefin (APO), and (ii) a second APO different than the first APO. The flooding composition also includes (B) from 30 wt% to 60 wt% of a bio-based oil; and (C) from 15 wt% to 45 wt% of a polysiloxane.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043227 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : POLYPROPYLENE COMPOSITION

(51) International classification :C08F210/06,C08F210/08,C08F210/02
(31) Priority Document No:18166433.5
(32) Priority Date :10/04/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/058861
Filing Date :09/04/2019
(87) International Publication No :WO 2019/197357
(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)WANG, Jingbo

3)BERGER, Friedrich

4)AHO, Jani

(57) Abstract :

New polypropylene composition, which combines low sealing initiation temperature (SIT), high hot-tack and good optical properties, like low haze, the use of suchpolypropylene composition and articles made therefrom.

No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043244 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PROCESS FOR PRODUCING CRUDE PALM FRUIT OIL

(51) International classification :C11B1/02,C11B1/06,C11B1/14
(31) Priority Document No :PI 2018701659
(32) Priority Date :25/04/2018
(33) Name of priority country :Malaysia
(86) International Application No:PCT/MY2019/000014
Filing Date :24/04/2019
(87) International Publication No :WO 2019/209100
(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)MOHD SIRAN, Yosri

9)WOK, Kamal

10)MUSTANER, Muliadi

11)MOHD HAKIMI, Noor Irma Nazashida

(57) Abstract :

A process for producing crude palm fruit oil, the process comprising the steps of sterilising and threshing palm fruits to produce mass passing digester, pressing the mass passing digester to produce undiluted crude palm fruit oil (1), mixing the undiluted crude palm fruit oil (1) with dilution water to produce diluted crude palm fruit oil (2) containing aqueous phase between 5 wt.% to 70 wt.% and oil phase of between 30 wt.% to 95 wt.%, clarifying the diluted crude palm fruit oil (2) and recovering crude palm fruit oil from the mesocarp and the underflow clarifier (3), producing decanter solid (5) and diluted sludge wherein at least one silicate composition is admixed to the mass pressing digester, the undiluted crude palm fruit oil (1), the diluted crude palm fruit oil (2), the mesocarp, the underflow clarifier (3), an outlet sludge tank (4), the decanter solid (5) a plurality of sludge streams (6) or any combination thereof to form the crude palm fruit oil.

No. of Pages : 88 No. of Claims : 56

(54) Title of the invention : REFRIGERATOR AND METHOD FOR CONTROLLING SAME

(51) International classification :F25D21/02,F25D21/00,F25D17/04
(31) Priority Document No :10-2018-0034490
(32) Priority Date :26/03/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2019/003205
Filing Date :19/03/2019
(87) International Publication No :WO 2019/190113
(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)JHEE, Sung

(57) Abstract :

A method for controlling a refrigerator according to an embodiment of the present invention comprises the steps of: operating, for a set duration, a heating element of a sensor which responds to changes in air flow; sensing the temperature of the heating element in on or off state; and sensing the blockage of an air channel in the heat-exchange space on the basis of the difference in value of the temperature between a first sensed temperature (Ht1), which is the lowest value, and a second sensed temperature (Ht2), which is the highest value, from among the sensed temperatures of the heating element.

No. of Pages : 36 No. of Claims : 20

(54) Title of the invention : REFRIGERATOR AND METHOD FOR CONTROLLING SAME

(57) Abstract :

A method for controlling a refrigerator according to an embodiment of the present invention comprises the steps of: operating, for a set duration, a heating element of a sensor disposed on a bypass channel which allows air to bypass an evaporator disposed in a heat-exchange space; sensing the temperature of the heating element in on or off state; and sensing the blockage of an air channel in the heat-exchange space on the basis of the difference in value of the temperature between a first sensed temperature (Ht1), which is the lowest value, and a second sensed temperature (Ht2), which is the highest value, from among the sensed temperatures of the heating element.

No. of Pages : 36 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043251 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : MEASURING DEVICE, MEASURING SYSTEM, MOVING BODY, AND MEASURING METHOD

(51) International classification :G01N29/24
(31) Priority Document No :2018-060867
(32) Priority Date :27/03/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/013302
Filing Date :27/03/2019
(87) International Publication No :WO 2019/189429
(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)KONDO Shuji

6)OKADA Hajime

7)KAWACHI Tetsuya

8)SHIMADA Yoshinori

9)KURAHASHI Shinri

(57) Abstract :

A measuring device which measures an inspection target on the basis of vibrations generated when the inspection target is irradiated with laser light is provided with: a condensing position deriving portion which, on the basis of the distance between a laser device for radiating laser light and a location irradiated by the laser light, derives an amount of adjustment of a distance between condensing lenses in a laser condensing unit which condenses the laser light; and a communication portion which transmits control information, including information indicating the amount of adjustment, to the laser condensing unit.

No. of Pages : 99 No. of Claims : 20

(54) Title of the invention : SUBSTRATE FOR ELECTRIC ELEMENT AND MANUFACTURING METHOD THEREFOR

(57) Abstract :

Various embodiments comprise: a substrate; a plurality of unit electric elements arranged on the substrate at regular intervals; and at least one conductive path electrically connected to each of the plurality of unit electric elements nearby and having an energized inspection area formed at an end thereof. It is possible to determine whether each of the plurality of unit electric elements is electrically good or defective by using an energized inspection area of the conductive path. Other various embodiments may be possible.

No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043274 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHODS FOR FREQUENCY DIVISION MULTIPLEXED ON-OFF KEYING SIGNALS FOR WAKE-UP RADIOS

(51) International classification :H04W52/02,H04W84/12,H04J13/00
(31) Priority Document No :62/647304
(32) Priority Date :23/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/023546
Filing Date :22/03/2019
(87) International Publication No :WO 2019/183457
(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)YANG, Rui
3)LA SITA, Frank
4)LOU, Hanqing
5)WANG, Xiaofei
6)SUN, Li-Hsiang

(57) Abstract :

An access point (AP) that supports the IEEE 802.11ba protocol may transmit a frame including a physical layer (PHY) preamble to one or more stations (STAs) over a channel. The PHY preamble may include a plurality of repeated modulated legacy signal (L-SIG) fields to spoof a recipient of the frame and protect a wake up signal (WUS) to be subsequently transmitted by the AP. The AP may transmit the WUS to at least a first STA of the one or more STAs, wherein the at least the first STA is a IEEE 802.11ba compliant STA.

No. of Pages : 39 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043277 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SELECTION OF OPTIMAL SURFACTANT BLENDS FOR WATERFLOOD ENHANCEMENT

(51) International classification:C09K8/60,E21B43/20,E21B49/00

(31) Priority Document No :62/644807

(32) Priority Date :19/03/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/022786

Filing Date :18/03/2019

(87) International Publication No :WO 2019/182990

(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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1)QUINTERO, Lirio

2)NGUYEN, Henry

3)KUZNETSOV, Oleksandr V.

(57) Abstract :

A method of providing an optimal surfactant blend to improve waterflood efficiency comprises selecting candidate surfactant blends based on one or more of the following: a reservoir condition; information of a crude oil; information of an injection fluid; or information of a formation fluid, each candidate surfactant blends comprising at least two surfactants, one surfactant having a higher relative affinity for the crude oil than for the injection fluid and at least one surfactant having a higher affinity for the injection fluid than for the crude oil; evaluating phase behavior of the candidate surfactant blends to select surfactant blends that form a Winsor III system with the crude oil and the injection fluid at a reservoir temperature; and evaluating the selected surfactant blends in a porous media to select an optimal surfactant blend which achieves at least an additional 10% crude oil recovery after waterflood.

No. of Pages : 14 No. of Claims : 15

(54) Title of the invention : CIRCUIT ARCHITECTURE FOR DISTRIBUTED MULTIPLEXED CONTROL AND ELEMENT SIGNALS FOR PHASED ARRAY ANTENNA

(51) International classification :H01Q3/34,H01Q3/26,H01Q23/00
 (31) Priority Document No :62/648527
 (32) Priority Date :27/03/2018
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/US2018/066900
 Filing Date :20/12/2018
 (87) International Publication No :WO 2019/190606
 (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)LIPTON, Ronald, S
3)TRIPATHI, Ashitkumar, J

(57) Abstract :
 The phased array antenna system is described. The phased array antenna system formed on one or more layers of a printed circuit board (PCB). The phased array antenna system be may include a beam forming network to convert between one or more element signals and a beam signal. The phased array antenna system may include one or more control circuits, where each control circuit may receive the element signals for corresponding antenna element. Each of the control circuits may further may establish a control signal path and an element signal path between the antenna elements and the beamforming network, where the signal path may carry multiplexed element and control signals. The control circuits may include a signal adjustment circuit that may adjust the corresponding element signal (e.g., in phase or amplitude) based on the control signal.

No. of Pages : 40 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043281 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : NEUTRALIZER COMPOSITION

(51) International classification :C09D7/60,C09D7/63,C08K5/05

(31) Priority Document No :201841010168

(32) Priority Date :20/03/2018

(33) Name of priority country :India

(86) International Application No :PCT/US2019/018003

Filing Date :14/02/2019

(87) International Publication No:WO 2019/182696

(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)SALINAS, Heidi V.

3)GHOSAL, Siddhartha

(57) Abstract :

A method for neutralizing a coating composition comprising adding a neutralizing agent to a coating composition; wherein the neutralizing agent comprises aminoethylethanolamine (AEEA) and at least one additional amine.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043282 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD FOR PREPARING ACROLEIN

(51) International classification :C07C45/28,C07C47/22
(31) Priority Document No :62/645858
(32) Priority Date :21/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/018874
Filing Date :21/02/2019
(87) International Publication No :WO 2019/182712
(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)HALE, Timothy Allen
3)KEYES, Brian Robert
4)ROSE, Justin
5)XU, Jinsuo

(57) Abstract :

Provided is a process for preparing acrolein by catalytic gas phase oxidation comprising (a) providing a reaction gas comprising (i) 5 to 10 mol % propylene, (ii) 0.02 to 0.75 mol % propane, and (iii) 0.25 to 1.9 mol % of a fuel mixture comprising at least one of methane and ethane, wherein the molar ratio of the total amount of propane, methane, and ethane to the total amount of propylene is from 0.01:1 to 0.25:1, and (b) contacting the reaction gas with a mixed metal oxide catalyst comprising one or more of molybdenum, bismuth, cobalt, and iron.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043284 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ENGINEERED IMMUNE EFFECTOR CELLS AND USE THEREOF

(51) International classification :C12N15/85,C12N5/0789,C12N5/074
(31) Priority Document No :62/649781
(32) Priority Date :29/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/024686
Filing Date :28/03/2019
(87) International Publication No :WO 2019/191495
(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)BJORDAHL, Ryan
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(57) Abstract :

Provided are methods and compositions for obtaining functionally enhanced derivative effector cells obtained from directed differentiation of genomically engineered iPSCs. The derivative cells provided herein have stable and functional genome editing that delivers improved or enhanced therapeutic effects. Also provided are therapeutic compositions and the used thereof comprising the functionally enhanced derivative effector cells alone, or with antibodies or checkpoint inhibitors in combination therapies.

No. of Pages : 124 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043285 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PLUNGER PUMP AND CONTACT MATING STRUCTURE USED IN THE SAME

(51) International classification	:F04B1/04,F02M59/10	(71) Name of Applicant :
(31) Priority Document No	:201820560790.2	1)ROBERT BOSCH GMBH
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(33) Name of priority country	:China	Germany
(86) International Application No	:PCT/EP2019/058784	(72) Name of Inventor :
Filing Date	:08/04/2019	1)SHI, Kai
(87) International Publication No	:WO 2019/201640	
(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 discloses a contact mating structure between a cam (201, 202) and a tappet assembly (500) and a plunger pump using the contact mating structure, wherein the cam (201, 202) is formed in a rotatable shaft, the tappet assembly (500) is movable perpendicularly relative to the rotatable shaft, the contact mating structure comprises a cam follower (800) pivotally provided at one end of the tappet assembly (500), and the cam follower (800) has a contact side (820) for contacting the profile of the cam (201, 202), wherein viewed in a cross-section perpendicular to a central axis of rotation of the rotatable shaft, the contact side (820) is concaved towards the cam (201, 202).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043288 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ANTI-CD25 FOR TUMOUR SPECIFIC CELL DEPLETION

(51) International classification :C07K16/28,C07K14/55,A61K39/00
(31) Priority Document No :62/642232
(32) Priority Date :13/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/EP2019/056249
Filing Date :13/03/2019
(87) International Publication No :WO 2019/175217
(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)MERCHERS, Pascal
6)BROWN, Mark
7)GEOGHEGAN, James
8)PRINZ, Bianka
9)QUEZADA, Sergio

(57) Abstract :

The present disclosure provides antibody sequences found in antibodies that bind to human CD25, in particular an anti CD25-a- 646 antibody which do not block the binding of CD25 to IL-2 or IL-2 signalling. The claimed antibody binds to the epitope : PHATFKAMA YKEGTM (42-56) on CD25. Antibodies and antigen-binding portions thereof including such sequences can be used in pharmaceutical compositions and methods of treatment, in particular for treating cancer.

No. of Pages : 70 No. of Claims : 46

(54) Title of the invention : ANTI-CD25 FOR TUMOUR SPECIFIC CELL DEPLETION

(51) International classification :C07K16/28,C07K14/55,A61K39/00
 (31) Priority Document No :62/642230
 (32) Priority Date :13/03/2018
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/EP2019/056248
 Filing Date :13/03/2019
 (87) International Publication No :WO 2019/175216
 (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 provides antibody sequences found in antibodies that bind to human CD25, in particular an anti CD25- a-674 antibody which do not block the binding of CD25 to IL-2 or IL-2 signalling. The claimed antibody binds to the epitopes: QCVQGYRA and RWTQPQLICTG on CD25 Antibodies and antigen-binding portions thereof including such sequences can be used in pharmaceutical compositions and methods of treatment, in particular for treating cancer.

No. of Pages : 63 No. of Claims : 41

(54) Title of the invention : BOX TEMPLATE FOLDING PROCESS AND MECHANISMS

(51) International classification :B65B11/00,B65B11/08,B65B11/10
 (31) Priority Document No :2018/05231
 (32) Priority Date :05/04/2018
 (33) Name of priority country:Belgium
 (86) International Application No :PCT/IB2019/052794
 Filing Date :05/04/2019
 (87) International Publication No :WO 2019/193555
 (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)DE DYCKER, Herman Germain
3)VAN STEENKISTE, Dimitri Dani«l Rapha«l
4)HAMERLINCK, Stefaan Albert Marie-Louise

(57) Abstract :

Apparatus and methods of forming boxes from template blanks includes moving the blank forward on a drive line while one or more side panel fingers raise and lower various side panels of the blank in an alternating fashion. One or more holders maintain the side panels in position as the blank moves forward on the drive line. The raised and lowered side panels rigidify various panels from which they extend. The rigidified panels may be less susceptible to bending along false scores that extend transversely across the blank during folding and bending steps of the box forming process.

No. of Pages : 33 No. of Claims : 43

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043294 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PACKAGING MACHINE INFEED, SEPARATION, AND CREASING MECHANISMS

(51) International classification :B26D1/04,B26D1/08,B26D5/00
(31) Priority Document No :2018/05232
(32) Priority Date :05/04/2018
(33) Name of priority country :Belgium
(86) International Application No :PCT/IB2019/052793
Filing Date :05/04/2019
(87) International Publication No:WO 2019/193554
(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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2)DE DYCKER, Herman Germain
3)VAN STEENKISTE, Dimitri Dani«l Rapha«l
4)HAMERLINCK, Stefaan Albert Marie-Louise

(57) Abstract :

A machine for forming packing templates includes a infeed system that can feed multiple feeds of sheet material into the machine without repositioning the infeed system or forming creases or bends in the sheet material. The machine also includes a separation and cutting systems with one or more cutting tables and biased knives that cut the sheet material packaging templates. The machine also includes creasing roller(s) that forms creases in the sheet material. The machine also includes a system for reducing or eliminating the impact of irregularities in the sheet material.

No. of Pages : 38 No. of Claims : 73

(54) Title of the invention : ANTI-CD25 FOR TUMOUR SPECIFIC CELL DEPLETION

(51) International classification :C07K16/28,C07K14/55,A61K39/00
 (31) Priority Document No :62/642248
 (32) Priority Date :13/03/2018
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/EP2019/056256
 Filing Date :13/03/2019
 (87) International Publication No :WO 2019/175222
 (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 provides antibody sequences found in antibodies that bind to human CD25, in particular an anti CD25- a-686 antibody which do not block the binding of CD25 to IL-2 or IL-2 signalling. The claimed antibody binds to the epitopes: NSSHSSWDNQCQCTS (70 to 84) on CD25 Antibodies and antigen- binding portions thereof including such sequences can be used in pharmaceutical compositions and methods of treatment, in particular for treating cancer.

No. of Pages : 80 No. of Claims : 46

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043303 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : CATALYST FORMULATIONS

(51) International classification :C08F210/16,C08F4/6592	(71) Name of Applicant : 1)UNIVATION TECHNOLOGIES, LLC Address of Applicant :5555 San Felipe Suite 1950 Houston, Texas 77056 U.S.A.
(31) Priority Document No :62/647099	(72) Name of Inventor :
(32) Priority Date :23/03/2018	1)MARIOTT, Wesley R.
(33) Name of priority country :U.S.A.	2)SZUL, John F.
(86) International Application No :PCT/US2019/020479	3)PENG, Haiqing
Filing Date :04/03/2019	4)FARLEY, James M.
(87) International Publication No :WO 2019/182746	5)SAVATSKY, Bruce J.
(61) Patent of Addition to Application Number :NA	6)LOCKLEAR, Brandon C.
Filing Date :NA	
(62) Divisional to Application Number :NA	
Filing Date :NA	

(57) Abstract :

Embodiments of the present disclosure are directed towards catalyst formulations including a metallocene and a stearic compound selected from bis 2-hydroxyethyl stearyl amine, aluminum distearate, and combinations thereof, where the metallocene is represented by the following formula: (Formula (I)) wherein each n-PR is n-propyl, and each X is independently CH₃, Cl, or F.

No. of Pages : 20 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043304 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : NEAR-FIELD TERAHERTZ IMAGING DEVICE

(51) International classification :G01J1/08,G01J1/42
(31) Priority Document No :1852688
(32) Priority Date :28/03/2018
(33) Name of priority country :France
(86) International Application No :PCT/FR2019/050720
Filing Date :28/03/2019
(87) International Publication No :WO 2019/186074
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)TIHIVE

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(72)Name of Inventor :

1)SHERRY, Hani

(57) Abstract :

The invention relates to a sensor for a terahertz imaging system, comprising a matrix of terahertz radiation receivers (18); and a matrix of terahertz radiation emitters (10) which has the same pitch as the receiver matrix, is disposed between the receiver matrix and an analysis area (12) situated in the near field of the emitters, and is configured in such a way that every emitter emits a wave in the direction of both the analysis area and a respective receiver of the receiver matrix.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043356 A

(19) INDIA

(22) Date of filing of Application :06/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : IMAGE ANNOTATION

(51) International classification :G06T7/80,G06T7/579,G06K9/00
(31) Priority Document No :1804082.4
(32) Priority Date :14/03/2018
(33) Name of priority country :U.K.
(86) International Application No :PCT/EP2019/056356
Filing Date :13/03/2019
(87) International Publication No :WO 2019/175286
(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)WESTMACOT, Tom
2)ROBERTS, Brook
3)REDFORD, John

(57) Abstract :

A method of annotating road images, the method comprising implementing, at an image processing system, the following steps: receiving a time sequence of two dimensional images as captured by an image capture device of travelling vehicle; processing the images to reconstruct, in three-dimensional space, a path travelled by the vehicle; using the reconstructed vehicle path to determine expected road structure extending along the reconstructed vehicle path; and generating road annotation data for marking at least one of the images with an expected road structure location, by performing a geometric projection of the expected road structure in three-dimensional space onto a two-dimensional plane of that image.

No. of Pages : 66 No. of Claims : 74

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043359 A

(19) INDIA

(22) Date of filing of Application :06/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : LEVEL SENSOR ASSEMBLY.

(51) International classification :F01N3/28,G01F23/74
(31) Priority Document No :20171589
(32) Priority Date :05/10/2017
(33) Name of priority country :Norway
(86) International Application No :PCT/NO2018/050237
Filing Date :03/10/2018
(87) International Publication No :WO 2019/070130
(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)GISMERVIK, Øystein
2)SANDØ, Jørn R.
3)ARTZ, Torsten

(57) Abstract :

A level sensor assembly (10) for measuring physical properties indicative of a quality of a urea solution (AdBlue/DEF), where at least a portion of said level sensor assembly (10) is inserted in a tank (50), said level sensor assembly (10) comprises a header unit (12) mounted in an aperture of the tank (50); heating tubes (20) inserted in the tank for heating/thawing the urea solution in the tank (50) and one or more tubes (22) for suction of urea solution from the tank (50), said tubes (20,22) being connected to the header unit (12); and a level sensor (24,26) for measuring level of urea solution in the tank (50). Further, a detachable UQS sensor (30) is installed in the header unit (12), said UQS sensor (30) being at least partly submerged in a liquid pool (32) of urea solution in the header unit (12), and the liquid pool (32) in the header unit (12) comprises a compressible and/or expanding bottom (34).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043367 A

(19) INDIA

(22) Date of filing of Application :06/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD AND DEVICE IN USER EQUIPMENT AND BASE STATION USED FOR WIRELESS COMMUNICATION

(51) International classification :H04L5/00
(31) Priority Document No :201810200864.6
(32) Priority Date :12/03/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/077579
Filing Date :09/03/2019
(87) International Publication No :WO 2019/174530
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)SHANGHAI LANGBO COMMUNICATION TECHNOLOGY COMPANY LIMITED
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(72)**Name of Inventor :**
1)ZHANG, Xiaobo

(57) Abstract :

Disclosed are a method and device in user equipment and a base station used for wireless communication. As an embodiment, user equipment monitors first-class signaling and second-class signaling in first time-frequency sub-resources and second time-frequency sub-resources, respectively; the user equipment sends a first information set, a first signaling is received in the first time-frequency sub-resources, the first signaling belongs to the first-class signaling; a sender of the first-class signaling and the sender of the second-class signaling are a same serving cell; the first information set is used for indicating whether scheduling of the first signaling is correctly received; the first signaling comprises a first domain, and a value of the first domain in the first signaling is related to the amount of the first-class signaling sent in the first time-frequency sub-resources and is independent of the amount of the second-class signaling sent in the second time frequency sub-resources. According to the present application, dynamic scheduling of non-ideal backhaul multiple TRPs to one user equipment can be supported, and thus the transmission efficiency is improved.

No. of Pages : 47 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043424 A

(19) INDIA

(22) Date of filing of Application :06/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : AQUEOUS RESIN BASED INKJET INKS

(51) International classification :C09D11/102,C09D11/30,C09D11/54

(31) Priority Document No :18167040.7

(32) Priority Date :12/04/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/058473

Filing Date :04/04/2019

(87) International Publication No :WO 2019/197264

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)AGFA NV

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(72)Name of Inventor :

1)LOCCUFIER, Johan

2)DECOSTER, Luc

(57) Abstract :

An aqueous dispersion of a capsule composed of a polymeric shell surrounding a core, wherein the core contains a silicone containing compound. The dispersion is suitable for pre-treatment liquids and inkjet inks in textile printing.

No. of Pages : 38 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043427 A

(19) INDIA

(22) Date of filing of Application :06/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : BUMETANIDE DERIVATIVES FOR THE THERAPY OF HYPERHIDROSIS

(51) International classification :C07D333/18,C07D333/34,C07D333/40
(31) Priority Document No :18166173.7
(32) Priority Date :06/04/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/058653
Filing Date :05/04/2019
(87) International Publication No :WO 2019/193159
(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)ERKER, Thomas
2)SCHREPPPEL, Philipp

(57) Abstract :

The present invention relates to bumetanide derivatives of formula (I) as well as pharmaceutical compositions comprising these compounds for use in the treatment or prevention of diseases/disorders involving Na⁺- K⁺- 2Cl⁻ - cotransporters (NKCCs), and particularly for use in the treatment or prevention of hyperhidrosis.

No. of Pages : 197 No. of Claims : 43

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043428 A

(19) INDIA

(22) Date of filing of Application :06/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : VERTICAL FLOW MOLECULAR ASSAY APPARATUS

(51) International classification :G01N33/50,G01N33/53,G01N33/544
(31) Priority Document No :62/650808
(32) Priority Date :30/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/024879
Filing Date :29/03/2019
(87) International Publication No :WO 2019/191613
(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)ZENHAUSERN, Frederic
2)CHEN, Peng
3)GU, Jian
4)LACOMBE, Jerome

(57) Abstract :

Provided are vertical flow detection devices and related methods. The devices may comprise a membrane having a first surface and a second surface with a plurality of porous structures extending between the first and second surfaces to form fluid conduits from a first fluid chamber formed by the first surface and a second fluid chamber formed by the second fluid surface. A capture agent is immobilized on and/or in the membrane. A rigid porous membrane support mechanically supports the membrane and to provide a relatively uniform flow across the membrane. Various gaskets or holder elements are positioned around an outer edge of the membrane to prevent fluid leakage around the membrane. A fluid pump is configured to force a fluid sample flow in a direction from the first fluid chamber to the second fluid chamber.

No. of Pages : 102 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043457 A

(19) INDIA

(22) Date of filing of Application :06/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ACCELERATOR CONTROL METHOD, ACCELERATOR CONTROL DEVICE, AND PARTICLE BEAM TREATMENT SYSTEM

(51) International classification :H05H13/04,A61N5/10
(31) Priority Document No :2018-074908
(32) Priority Date :09/04/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/015257
Filing Date :08/04/2019
(87) International Publication No :WO 2019/198653
(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)MATSUMOTO Munemichi

2)FURUKAWA Takuji

3)MIZUSHIMA Kota

4)HANAWA Katsushi

(57) Abstract :

In an accelerator control method according to the present embodiment, current is supplied, on the basis of a current value command signal, to a plurality of deflection electromagnets, the current causing a magnetic field to be generated around the interior of a main accelerator in accordance with the acceleration energy of charged particles. In the case of an acceleration cycle involving the emission of charged particles to a beam transport system, a flat region that causes the current value of the deflection electromagnets to be constant is provided. In the case of an acceleration cycle not involving the emission of charged particles to a beam transport system, a flat region is not provided in the current value command-signal, and the time change of the current value is smoothed when transitioning to a flat region of the current value or when transitioning from a flat region of the current value. The time required for smoothing is determined on the basis of a prescribed take-out energy of the charged particles, or on the basis of the difference in energy before and after a change to the prescribed take-out energy.

No. of Pages : 39 No. of Claims : 12

(54) Title of the invention : METHOD OF SEALING OFF A CUT OFF END OF A SUBSEA CABLE SECTION

(51) International classification :H02G1/10,H02G15/00,H02G15/04
 (31) Priority Document No :2020736
 (32) Priority Date :09/04/2018
 (33) Name of priority country :Netherlands
 (86) International Application No :PCT/NL2019/050211
 Filing Date :09/04/2019
 (87) International Publication No :WO 2019/199164
 (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)VAN KEULEN, Tim
2)OOR, Rob Rudolf Theodorus
3)VAN WEENEN, Emiel

(57) Abstract :

While laying a subsea cable, an exposed cut off end of the cable is exposed to water prior to permanently sealing off this cable end. To prevent damage to the cable due to contact with the often salt water, due to for example oxidation, a temporarily watertight seal is to be applied to the cut off end. A method for applying this seal is provided which comprises applying a mouldable sealant to the exposed end wherein the sealant acts as a watertight barrier between the water and the cut off end of the cable. The sealant may comprise an intermediate layer between the cut off end and a watertight outer layer arranged to increase adhesion between the cut off end and the outer layer. This allows a broader range of outer layer materials to be used as the outer layer material does not need to adhere directly with the cable.

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

(54) Title of the invention : CARBON CAPTURE SYSTEM COMPRISING A GAS TURBINE

(51) International classification :B01D53/14,F23J15/00,C01B32/50
 (31) Priority Document No :NA
 (32) Priority Date :NA
 (33) Name of priority country :NA
 (86) International Application No :PCT/NO2018/050068
 Filing Date :09/03/2018
 (87) International Publication No :WO 2019/172772
 (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 :
1)B̄RSETH, Knut
2)FLEISCHER, Henrik

(57) Abstract :

A method and a plant for capturing CO₂ from an incoming flue gas. The flue gas can be exhaust gas from coal and gas fired power plants, cement factories or refineries. The incoming exhaust gas is cooled, mixed with air and compressed, and thereafter introduced into a combustion chamber together with gas and/or liquid fuel. Part of the combustion is achieved by separate burners with cooling/combustion air feed with a volume equal to the volume of CO₂ captured. Said burners will elevate the temperature in the combustion chamber allowing combustion of exhaust gas with low oxygen content. CO₂ is captured at high partial pressure before expansion by the gas turbine to produce power and generate steam in the heat recovery unit. The gas turbine will operate with high efficiency close to design parameters with respect to inlet temperature, pressure and flow.

No. of Pages : 32 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043509 A

(19) INDIA

(22) Date of filing of Application :06/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : WEAR MEMBER FOR A WORK IMPLEMENT

(51) International classification :E02F9/28
(31) Priority Document No :15/939692
(32) Priority Date :29/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/021314
Filing Date :08/03/2019
(87) International Publication No :WO 2019/190719
(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)BJERKE, Nathan
2)CONGDON, Thomas M.

(57) Abstract :

A wear member (200, 300, 400, 500) includes a rear mounting region (206, 306, 406) having a shelf (212, 312, 518) forming a bottom surface (214, 314) and a rear surface (216, 316) or a plurality of mounting pads (412, 512) with at least one recess (414, 514) disposed at least partially on at least one of the plurality of the mounting pads (412, 512).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043512 A

(19) INDIA

(22) Date of filing of Application :06/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : THERMAL SWING ADSORPTION PROCESS WITH PURIFICATION

(51) International classification :B01D53/047
(31) Priority Document No :62/651119
(32) Priority Date :31/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/024791
Filing Date :29/03/2019
(87) International Publication No :WO 2019/191562
(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)GRIFFITHS, John Louis

2)DOONG, Shain-Jer

3)GORAWARA, Jayant Kumar

4)GASPAR, James Robert

(57) Abstract :

A process for regenerating a temperature swing adsorption unit comprising: sending a heated purge gas stream through an adsorption bed to remove impurities from said adsorption bed and producing a contaminated stream; sending said contaminated stream to a separator to produce a liquid stream and a vapor stream; returning said vapor stream as at least a portion of said heated purge stream until said vapor stream comprises above a predetermined level of impurities; and purging a portion of said vapor stream until the heated purge stream has a level of impurities below a second predetermined level.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043525 A

(19) INDIA

(22) Date of filing of Application :06/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ANTI-CHEMOKIN LIKE RECEPTOR 1 ANTIBODIES AND THEIR THERAPEUTIC APPLICATIONS

(51) International classification :C07K16/28,A61K39/395,A61P29/00
(31) Priority Document No :18305395.8
(32) Priority Date :03/04/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/058358
Filing Date :03/04/2019
(87) International Publication No :WO 2019/193029
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)POIRIER, Nicolas
2)MARY, Caroline
3)VANHOVE, Bernard
4)GAUTTIER, Vanessa
5)TRILLEAUD, Charline
6)DUBOURDEAU, Marc

(57) Abstract :

The present invention provides anti-CMKLR1 compounds having an agonist capability on the interaction between Resolvin E1 and CMKLR1, and their uses for treating or preventing a disease, in particular wherein the resolution of inflammation is delayed or disrupted.

No. of Pages : 93 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043534 A

(19) INDIA

(22) Date of filing of Application :06/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD FOR CONTROLLING TERMINAL TO ACCESS NETWORK, AND NETWORK ELEMENT

(51) International classification :H04L29/06,H04W12/08,H04W48/08
(31) Priority Document No :201810264955.6
(32) Priority Date :28/03/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/079631
Filing Date :26/03/2019
(87) International Publication No :WO 2019/184900
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)HU, Li
2)WU, Yizhuang
3)LU, Wei
4)CHEN, Jing
5)WANG, Yong

(57) Abstract :

A method for controlling a terminal to access a network, and a network element, belonging to the technical field of communications. Said method comprises: a security function network element detecting whether a target terminal has a security threat, and sending a message to a storage function network element according to a detection result, the message comprising device information and network access indication information, the device information being used for indicating at least one terminal including the target terminal, and the network access indication information being used for indicating that the at least one terminal is permitted or prohibited to access a network; and the storage function network element updating, according to the device information and the network access indication information, network access permission information of the at least one terminal, the network access permission information being used for indicating whether the at least one terminal is allowed to access a network. In the solution provided by the present application, a permission or prohibition indication is outputted to the storage function network element by means of an automatic processing logic of the security function network element, and the storage function network element controls, according to said indication, a terminal to access a network, thereby being more flexible, timely and automated than manual configuration by an administrator.

No. of Pages : 30 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043546 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DEVICE FOR PREPARATION OF EXPANDED MICROSPHERES

(51) International classification :B29C44/34
(31) Priority Document No :18165829.5
(32) Priority Date :05/04/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/058042
Filing Date :29/03/2019
(87) International Publication No :WO 2019/192936
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)NORDIN, Jan
2)AJD%N, Per

(57) Abstract :

The current invention relates to a device for expanding unexpanded, thermally expandable, thermoplastic microspheres, comprising; a heating zone having an inlet, and an outlet, a pump upstream of and in fluid communication with the heating zone, and capable of generating above-atmospheric pressure in the heating zone; means for heating the heating zone; an expansion zone with an inlet and an outlet, said inlet of the expansion zone being connected to the outlet of the heating zone in such a way that a pressure drop is created, such that the expansion zone is at a lower pressure than the heating zone; and a back pressure generator downstream of the expansion zone configured to create a variable counter pressure in the expansion zone. The invention also relates to a process for expanding unexpanded, thermally expandable, thermoplastic microspheres, where the microspheres comprise a thermoplastic polymer encapsulating a blowing agent, the blowing agent being a liquid having a boiling temperature not higher than the softening temperature of the thermoplastic polymer shell. The process comprises; feeding a slurry of unexpanded, thermally expandable, thermoplastic microspheres into a heating zone by means of a pump capable of generating higher than atmospheric pressure in the heating zone; heating the microspheres to a temperature above their softening temperature, while under a pressure sufficiently high to ensure they do not fully expand; passing the so-heated microspheres from the heating zone to an expansion zone, such that a pressure drop is created, resulting in a pressure in the expansion zone sufficiently low for the microspheres to expand, and removing the expanded microspheres from the expansion zone; wherein the expansion zone is configured to create a variable counter pressure by means of a back- pressure generator downstream of the expansion zone.

No. of Pages : 18 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043555 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : APPARATUS AND METHOD FOR TRACKING SYNCHRONIZATION IN WIRELESS COMMUNICATION SYSTEM

(51) International classification :H04W56/00,H04W24/08,H04W16/28
(31) Priority Document No :10-2018-0027090
(32) Priority Date :07/03/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2019/002666
Filing Date :07/03/2019
(87) International Publication No :WO 2019/172684
(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)RYOU, Sangkyou
3)BAEK, Ingil
4)JEONG, Junhee

(57) Abstract :

The present disclosure relates to a pre-5th-Generation (5G) or 5G communication system to be provided for supporting higher data rates Beyond 4th-Generation (4G) communication system such as Long Term Evolution (LTE). A terminal and method of the terminal in a wireless communication system are provided. The terminal includes at least one transceiver and at least one processor operatively connected to the at least one transceiver. The at least one processor is configured to acquire synchronization information of a first beam which is a serving beam, update the synchronization information based on the first beam or at least one second beam, determine at least one channel quality of the at least one second beam based on the updated synchronization information, and update the serving beam based on the at least one channel quality.

No. of Pages : 45 No. of Claims : 15

(54) Title of the invention : APPARATUS AND METHOD FOR RECOVERY OF SYNCHRONIZATION IN WIRELESS COMMUNICATION SYSTEM

(51) International classification :H04W56/00,H04W24/08
(31) Priority Document No :10-2018-0026971
(32) Priority Date :07/03/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2019/002662
Filing Date :07/03/2019
(87) International Publication No :WO 2019/172682
(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 pre-5th-Generation (5G) or 5G communication system to be provided for supporting higher data rates Beyond 4th-Generation (4G) communication system such as Long Term Evolution (LTE). According to various embodiments of the disclosure, an apparatus of a terminal in a wireless communication system is provided. The apparatus includes at least one transceiver, and at least one processor configured to be operatively connected to the at least one transceiver, wherein the at least one processor may be configured to: obtain first synchronization of a first carrier that is in synchronization, determine second synchronization of a second carrier that is out of synchronization based on the first synchronization, and perform communication based on the second synchronization.

No. of Pages : 40 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043602 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : COMPOSITIONS AND METHODS FOR TCR REPROGRAMMING USING FUSION PROTEINS

(51) International classification :A61K35/12,A61K35/17,A61K35/26
(31) Priority Document No :62/641159
(32) Priority Date :09/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/021315
Filing Date :08/03/2019
(87) International Publication No :WO 2019/173693
(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)HOFMEISTER, Robert
3)GETTS, Daniel
4)KIEFFER-KWON, Philippe
5)DONAGHEY, Julie

(57) Abstract :

Provided herein are recombinant nucleic acids encoding T cell receptor (TCR) fusion proteins (TFPs) and a TCR constant domain, modified T cells expressing the encoded molecules, and methods of use thereof for the treatment of diseases, including cancer.

No. of Pages : 104 No. of Claims : 97

(54) Title of the invention : INJECTOR, IN PARTICULAR DUAL FUNCTION INJECTOR AND/OR INJECTOR WITH STOP ELEMENT

<p>(51) International classification :A61F2/16,A61F2/14,A61F9/007 (31) Priority Document No :00467/18 (32) Priority Date :12/04/2018 (33) Name of priority country :Switzerland (86) International Application No :PCT/CH2019/050006 Filing Date :10/04/2019 (87) International Publication No :WO 2019/195951 (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)MEDICEL AG Address of Applicant :Dornierstrasse 11 9423 Altenrhein Switzerland (72)Name of Inventor : 1)DOCKHORN, Volker 2)GERMANN, Reto</p>
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(57) Abstract :

An injector (11) is shown and described, in particular for example an injector for ejecting an intraocular lens for the purpose of injecting the latter into an eye or an injector for implanting a corneal endothelial tissue, comprising an elongate injector body (13) which has a piston rod passage (16) and in which an injector piston rod (15) having a screw thread (33) is guided in a longitudinally displaceable manner, wherein the injector (11) is provided with two operating modes for the displacement of the injector piston rod (15) and is able to be switched between said modes, wherein the first operating mode defines an ejection operation and the second operating mode defines a screwing operation. According to the invention, provision is made that the injector body (13) has at least one retractable and deployable wing grip (27, 28), wherein the operating mode is set to ejection operation by the deployed position and the operating mode is set to screwing operation by the retracted position. According to the invention, provision can be made that the injector piston rod comprises a stop element. The stop element is preferably mounted displaceably on the piston rod. The stop element is particularly preferably configured as a soft stop.

No. of Pages : 51 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043609 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD FOR REPLACING A WIND TURBINE YAW PAD

(51) International classification :F03D7/02,F03D80/70,F03D80/50

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :PCT/US2018/027746

Filing Date :16/04/2018

(87) International Publication No :WO 2019/203783

(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)DOW, Andrew

2)WHITE, Kelly

(57) Abstract :

A method of replacing a plurality of yaw pads is provided. Yaw pads are arranged between a tower and a nacelle of a wind turbine. The yaw pads are replaced with new yaw pads. The method includes determining the center of gravity of the nacelle. Based on the center of gravity, a set of the plurality of yaw pads to be each substituted by a shim are selected. Each of the substituted shims comprising a thickness greater than the respective replaced yaw pad. The remaining yaw pads are replaced while the nacelle is supported by the shims.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043623 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SYNERGISTIC MIXTURE OF PLANT DEFENSE INDUCTORS

(51) International classification :A01N37/40,A01N43/16,A01N61/00
(31) Priority Document No :18382265.9
(32) Priority Date :19/04/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/060026
Filing Date :17/04/2019
(87) International Publication No :WO 2019/202050
(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 :
1)CASTILLO LPEZ, Jos Ignacio
2)S • NCHEZ DELGADO, Noelia
3)KIMURA, Sachi

(57) Abstract :

The present invention discloses a mixture of compounds one being a pattern-triggered immunity inductor and the other being a systemic resistance inductor that improves plant defense mechanisms, in particular by providing a synergistic effect on the plant defense mechanisms. Further aspects of the invention are the use of said for activating plant resistance against pathogens, and a kit for providing an agricultural composition for use in seeds, crops and plants.

No. of Pages : 44 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043634 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : LABORATORY TEMPERATURE CONTROL DEVICES

(51) International classification :B01L1/00,C12M1/00,B01L7/00
(31) Priority Document No :18166337.8
(32) Priority Date :09/04/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/058985
Filing Date :09/04/2019
(87) International Publication No :WO 2019/197418
(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)ABEL, Philipp
3)MENSCH, Sren
4)TIMMANN, Lutz

(57) Abstract :

The invention relates to laboratory temperature control devices (1) for storing laboratory samples. The invention relates in particular to incubators for the growth of cell cultures. Efficient measures for thermal decoupling of chamber (3) and housing (2) of the laboratory temperature control device are described.

No. of Pages : 33 No. of Claims : 15

(54) Title of the invention : MULTI-CHIP PACKAGE WITH OFFSET 3D STRUCTURE

(51) International classification :H01L25/065,H01L25/07,H01L23/00
(31) Priority Document No :15/961123
(32) Priority Date :24/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/024826
Filing Date :29/03/2019
(87) International Publication No :WO 2019/209460
(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)LOH, Gabriel, H.

(57) Abstract :

Various semiconductor chip devices and methods of manufacturing the same are disclosed. In one aspect, a semiconductor chip device is provided that has a reconstituted semiconductor chip package (115) that includes an interposer (125) that has a first side and a second and opposite side and a metallization stack (145) on the first side, a first semiconductor chip (25) on the metallization stack and at least partially encased by a dielectric layer (165) on the metallization stack, and plural semiconductor chips (40, 45) positioned over and at least partially laterally overlapping the first semiconductor chip.

No. of Pages : 11 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043655 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DUAL SPECIFICITY ANTIBODIES TO HUMAN PD-L1 AND PD-L2 AND METHODS OF USE THEREFOR

(51) International classification :C07K16/28
(31) Priority Document No :62/647407
(32) Priority Date :23/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/022295
Filing Date :14/03/2019
(87) International Publication No :WO 2019/182867
(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)JAISWAL, Ashvin, R.
3)ZHA, Dongxing
4)TONIATTI, Carlo
5)PRINZ, Bianka
6)BOLAND, Nadthakarn
7)KRAULAND, Eric

(57) Abstract :

The present disclosure is directed to bispecific antibodies which bind to both PD-L1 and PD-L2, and methods of using such antibodies to treat cancers, such as those that express or overexpress PD-L1, PD-L2, or both.

No. of Pages : 73 No. of Claims : 63

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043670 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : TIRE VULCANIZING MACHINE AND TIRE VULCANIZING METHOD

(51) International classification	:B29C33/02,B29L30/00	(71) Name of Applicant :
(31) Priority Document No	:PCT/JP2018/015339	1)ROCKY-ICHIMARU CO., LTD.
(32) Priority Date	:12/04/2018	Address of Applicant :601, Oaza Tsunemochi, Chikugo-shi,
(33) Name of priority country	:Japan	Fukuoka 8330016 Japan
(86) International Application No	:PCT/JP2018/018935	(72) Name of Inventor :
Filing Date	:16/05/2018	1)ICHIMARU Hironobu
(87) International Publication No	:WO 2019/198253	2)Iwatsu Soichiro
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A tire vulcanizing machine A that represents a first embodiment of a tire vulcanizing machine to which the present invention is applied is provided with: two guide rods 1; a mold 2 constituted by an upper mold 2a and a lower mold 2b; an upper plate 5; a lower plate 10; and an upper mold moving up and down device 8. Further, the guide rods 1 have two clamp grooves 1a and 1b on an outer peripheral surface thereof on which the upper plate 5 moves. Further, the upper plate 5 has a clamp device 4. The clamp device 4 is constituted by a clamp block 4a and fitted into the clamp groove 1a or 1b to fix the upper plate 5.

No. of Pages : 75 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043688 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : VISTA ANTIGEN-BINDING MOLECULES

(51) International classification :C07K16/28,A61P35/00,A61K39/395
(31) Priority Document No :PCT/EP2018/058258
(32) Priority Date :29/03/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/058036
Filing Date :29/03/2019
(87) International Publication No :WO 2019/185879
(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)INGRAM, Piers
3)THAKKAR, Dipti
4)WU, Zhihao
5)PASZKIEWICZ, Konrad
6)SANCENON, Vicente
7)GUAN, Siyu

(57) Abstract :

VISTA antigen-binding molecules are disclosed. Also disclosed are nucleic acids and expression vectors encoding, compositions comprising, and methods using, the VISTA antigen-binding molecules.

No. of Pages : 176 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043689 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SPIRO CYCLOHEXANEDIONE DERIVATES AS HERBICIDES

(51) International classification :C07D221/20,C07D401/14,C07D401/06
(31) Priority Document No :1804002.2
(32) Priority Date :13/03/2018
(33) Name of priority country :U.K.
(86) International Application No :PCT/EP2019/056049
Filing Date :11/03/2019
(87) International Publication No :WO 2019/175117
(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)HACHISU, Shuji
4)WILLETTS, Nigel, James
5)DALE, Suzanna
6)GREGORY, Alexander, William
7)HOULSBY, Ian, Thomas, Tinnmouth
8)BHONOAH, Yunas
9)COMAS-BARCELO, Julia

(57) Abstract :

The present invention relates to compounds of Formula (I), wherein R1, R2, R3, R4 and G are as defined herein. The invention further relates to herbicidal compositions which comprise a compound of Formula (I), to their use for controlling weeds, in particular in crops of useful plants.

No. of Pages : 52 No. of Claims : 15

(54) Title of the invention : METHOD FOR CONNECTING TWO CONDUCTORS COMPOSED OF DIFFERENT MATERIALS, AND CONNECTOR AND SYSTEM THEREFOR

<p>(51) International classification :H01R4/62,H01R13/03,H01R4/02 (31) Priority Document No :10 2018 107 485.9 (32) Priority Date :28/03/2018 (33) Name of priority country :Germany (86) International Application No :PCT/EP2019/056390 Filing Date :14/03/2019 (87) International Publication No :WO 2019/185358 (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)WOBBEN PROPERTIES GMBH Address of Applicant :Borsigstrae 26 26607 Aurich Germany (72)Name of Inventor : 1)K-HLER, Jan-Phillip 2)WILLMS, Arne</p>
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(57) Abstract :

The invention relates to a method for electrically connecting a first conductor (20) composed of a first material, preferably aluminium, to a second conductor (24) comprising or composed of a second material which is different from the first material, preferably copper, using a connector (22). To this end, a connector precursor (10) is provided, which comprises a conductor core (12) composed of the first material which is sheathed by a casing layer (14) composed of another material. The connector precursor (10) has a first end (16) and a second end (18). According to the method, the casing layer (14) is removed in the region of the first end (16) for providing a contact area (34). The first conductor is then connected to the first end (16) in the region of the contact area (34), and the second conductor (24) is connected to the second end (18) of the connector (22). The invention also relates to a connector (22) and to a system (100).

No. of Pages : 11 No. of Claims : 15

(54) Title of the invention : INSECTICIDAL PROTEINS FROM PLANTS AND METHODS FOR THEIR USE

<p>(51) International classification :A01N63/00,C12N5/10,C12N15/09</p> <p>(31) Priority Document No :62/642644</p> <p>(32) Priority Date :14/03/2018</p> <p>(33) Name of priority country :U.S.A.</p> <p>(86) International Application No :PCT/US2019/021770</p> <p style="padding-left: 20px;">Filing Date :12/03/2019</p> <p>(87) International Publication No :WO 2019/178038</p> <p>(61) Patent of Addition to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p>	<p>(71)Name of Applicant : 1)PIONEER HI-BRED INTERNATIONAL, INC. Address of Applicant :7100 Nw 62nd Avenue Po Box 1014 Johnston, Iowa 50131-1014 U.S.A.</p> <p>(72)Name of Inventor : 1)BARRY, Jennifer Kara 2)DONG, Hua 3)GERBER, Ryan Michael 4)PETERSON-BURCH, Brooke 5)SCHEPERS, Eric 6)WOLFE, Thomas Chad 7)XIE, Weiping 8)YALPANI, Nasser 9)ZHONG, Xiaohong</p>
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(57) Abstract :

Compositions and methods for controlling pests are provided. The methods involve transforming organisms with a nucleic acid sequence encoding an insecticidal protein. In particular, the nucleic acid sequences are useful for preparing plants and microorganisms that possess insecticidal activity. Thus, transformed bacteria, plants, plant cells, plant tissues and seeds are provided. Compositions are insecticidal nucleic acids and proteins of bacterial species. The sequences find use in the construction of expression vectors for subsequent transformation into organisms of interest including plants, as probes for the isolation of other homologous (or partially homologous) genes. The pesticidal proteins find use in controlling, inhibiting growth or killing Lepidopteran, Coleopteran, Dipteran, fungal, Hemipteran and/or nematode pest populations and for producing compositions with insecticidal activity.

No. of Pages : 164 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043694 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SUBSTITUTED (2-AZABICYCLO [3.1.0] HEXAN-2-YL) PYRAZOLO [1, 5-A] PYRIMIDINE AND IMIDAZO [1, 2-B] PYRIDAZINE COMPOUNDS AS TRK KINASES INHIBITORS

(51) International classification :C07D487/04,C07D471/04,C07D519/00
(31) Priority Document No :62/642600
(32) Priority Date :14/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/CN2019/077976
Filing Date :13/03/2019
(87) International Publication No :WO 2019/174598
(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)TAN, Haohan

3)HE, Chengxi

4)WANG, Xianlong

5)LIU, Qihong

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8)GAO, Yuwei

9)JIANG, Lihua

10)LINGHU, Li

11)LIN, Shu

12)ZHAO, Xingdong

13)WANG, Weibo

(57) Abstract :

Provided are certain TRK inhibitors, pharmaceutical compositions thereof, and methods of use thereof.

No. of Pages : 56 No. of Claims : 20

(54) Title of the invention : VACUUM ADIABATIC BODY AND REFRIGERATOR

(51) International classification :F25D23/06,F25D23/00,F25D23/08
(31) Priority Document No :10-2018-0074164
(32) Priority Date :27/06/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2019/007749
Filing Date :26/06/2019
(87) International Publication No :WO 2020/004943
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)JUNG, Wonyeong
2)KIM, Daewoong
3)NAM, Hyeunsik
4)YOUN, Deokhyun

(57) Abstract :

A provided is a vacuum adiabatic body. The vacuum adiabatic body includes a heat exchange pipeline including at least two pipelines which pass through a first plate member and a second plate member to allow a refrigerant to move between inner and outer spaces; and a through sealing part which allows the heat exchange pipeline to pass through a first point of the first plate member and a second point of the second plate member, which is adjacent to the first point, without contacting a third space.

No. of Pages : 38 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043699 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ANTENNA UNIT, WINDOW GLASS EQUIPPED WITH ANTENNA UNIT, AND MATCHING BODY

(51) International classification :H01Q1/32,H01Q1/22,H01Q19/22
(31) Priority Document No :2018-050042
(32) Priority Date :16/03/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/010812
Filing Date :15/03/2019
(87) International Publication No :WO 2019/177144
(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)AGC GLASS EUROPE
3)AGC FLAT GLASS NORTH AMERICA, INC.
4)AGC VIDROS DO BRASIL LTDA.
(72)Name of Inventor :
1)HORIE, Masaki
2)SONODA, Ryuta
3)TAKAHASHI, Yukio

(57) Abstract :

Provided is an antenna unit to be used while attached to window glass of a building, wherein: the antenna unit is provided with an emission element, a waveguide member positioned on an outdoor side relative to the emission element, and a conductor positioned on an indoor side relative to the emission element; and a is (2.11 — ϵ_r - 1.82) mm or higher, where a is the distance between the emission element and the waveguide member, and ϵ_r is the dielectric constant of a transmission medium composed of an electroconductive member between the emission element and the waveguide member.

No. of Pages : 43 No. of Claims : 27

(54) Title of the invention : CATALYST ARTICLE FOR USE IN AN EMISSION TREATMENT SYSTEM

<p>(51) International classification :B01J29/46,B01J37/02,B01J29/76 (31) Priority Document No :1805312.4 (32) Priority Date :29/03/2018 (33) Name of priority country :U.K. (86) International Application No :PCT/GB2019/050825 Filing Date :22/03/2019 (87) International Publication No :WO 2019/186121 (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)JOHNSON MATTHEY PUBLIC LIMITED COMPANY Address of Applicant :5th Floor 25 Farringdon Street London EC4A 4AB U.K. (72)Name of Inventor : 1)ARULRAJ, Kaneshalingham 2)CHANDLER, Guy Richard 3)LEPPELT, Rainer 4)NEWMAN, Andrew</p>
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(57) Abstract :

A catalyst article for treating a flow of a combustion exhaust gas comprises: a catalytically active substrate comprising one or more channels extending along an axial length thereof through which, in use, a combustion exhaust gas flows, the one or more channels having a first surface for contacting a flow of combustion exhaust gas; wherein the substrate is formed of an extruded vanadium-containing SCR catalyst material, wherein a first layer is disposed on at least a portion of the first surface, wherein the first layer comprises a washcoat of an ammonia slip catalyst composition comprising one or more platinum group metals supported on a particulate metal oxide support material, and wherein a layer comprising a washcoat of SCR catalyst composition is disposed on a surface in the one or more channels, wherein at least the portion of the first surface on which the first layer is disposed comprises a compound of copper, iron, cerium or zirconium or a mixture of any two or more thereof, in particular an iron compound.

No. of Pages : 18 No. of Claims : 22

(54) Title of the invention : INFORMATION PROCESSING METHOD AND DEVICE

(51) International classification :H04L5/00,H04W74/08,H04W72/04
 (31) Priority Document No :PCT/CN2018/082050
 (32) Priority Date :04/04/2018
 (33) Name of priority country :China
 (86) International Application No :PCT/CN2018/086619
 Filing Date :11/05/2018
 (87) International Publication No :WO 2019/192053
 (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 :**
1)ZHAO, Yue
2)YU, Zheng

(57) Abstract :

An information processing method and device, wherein a method comprises: a terminal device receives a random access response authorization, the random access response authorization including a resource allocation field; when the random access response authorization is used for scheduling of a first message 3Msg3, the resource allocation field comprises 4 bits; the resource allocation field performs resource indication in a narrow-band according to a uplink resource allocation type 0, and the resource allocation field is able to indicate resource allocation of one resource block, two resource blocks, three resource blocks, and six resource blocks within the narrow-band; when the random access response authorization is used for scheduling of a second message Msg3, the resource allocation field comprises a number N of bits, and the resource allocation field at least is able to indicate resource allocation of two resource blocks, three resource blocks, and six resource blocks within the narrow-band; the terminal device determines, according to the resource allocation field, the resource blocks allocated to the terminal device; and the terminal device sends to a network device the first Msg3 or the second Msg3 on the allocated resource blocks.

No. of Pages : 81 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043723 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD AND DEVICE FOR SUBSCRIBING TO SERVICE

(51) International classification :H04W8/18
(31) Priority Document No :201810312964.8
(32) Priority Date :09/04/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/081849
Filing Date :09/04/2019
(87) International Publication No :WO 2019/196813
(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)ZONG, Zaifeng

(57) Abstract :

A method and device for subscribing to a service, providing a mechanism for reporting a change in a service. A first network function network element transmits a first message to a second network function network element, such that a third network function network element subscribes to a first service via the second network function network element. The first message comprises a first address, and the first address is an address of the first network function network element. The first network function network element receives a third message by means of the first address, and learns, according to the third message, that the first service has changed. In the method, the first network function network element transmits the address thereof to the second network function network element, such that when the first service changes, the first network function network element receives a notification, thereby improving mechanisms for reporting service changes, improving service subscription processes, and preventing service interruptions.

No. of Pages : 45 No. of Claims : 70

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043724 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : COMMUNICATION METHOD AND APPARATUS

(51) International classification	:H04W72/04	(71) Name of Applicant :
(31) Priority Document No	:201810299099.8	1)HUAWEI TECHNOLOGIES CO., LTD.
(32) Priority Date	:04/04/2018	Address of Applicant :Huawei Administration Building,
(33) Name of priority country	:China	Bantian, Longgang District Shenzhen, Guangdong 518129 China
(86) International Application No	:PCT/CN2019/080651	(72) Name of Inventor :
Filing Date	:29/03/2019	1)MA, Ruixiang
(87) International Publication No	:WO 2019/192408	2)GUAN, Lei
(61) Patent of Addition to Application Number	:NA	3)LYU, Yongxia
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are a communication method and apparatus. The method comprises: a network device sends indication information to a terminal device to indicate a reference position of a start symbol of a data channel, and the network device sends a physical downlink control channel to the terminal device; then, the network device sends a data channel to the terminal device, or receives a data channel sent by the terminal device. By flexibly indicating a reference position of a start symbol of a data channel by means of indication information, the technical solution of the present application can ensure the accurate receiving and sending of the data channel; in addition, a sending opportunity of a physical downlink control channel may not be limited.

No. of Pages : 55 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043731 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD FOR MONITORING THE VIABILITY OF A GRAFT

(51) International classification	:A01N1/02	(71) Name of Applicant :
(31) Priority Document No	:18 53340	1)HEMARINA
(32) Priority Date	:17/04/2018	Address of Applicant :Aropole Centre 29600 Morlaix France
(33) Name of priority country	:France	(72) Name of Inventor :
(86) International Application No	:PCT/EP2019/059685	1)Franck ZAL
Filing Date	:15/04/2019	
(87) International Publication No	:WO 2019/201863	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The subject of the present invention is a method for monitoring the oxygenation of a graft, comprising: a) mixing an organ preservation solution with at least one oxygen transporter, preferably chosen from annelid extracellular haemoglobin, the globins thereof and the globin protomers thereof, in order to obtain a composition, in an impermeable container; b) immersing the graft in the composition obtained in a) in order to obtain a second composition; c) introducing an oxygen probe into the composition obtained in a), or into the second composition of step b); and d) closing the impermeable container, wherein steps c) and d) are carried out simultaneously or in any order.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043732 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : VOLTAGE SOURCE WITH AN ELECTROLYTE CONTAINING ASH, AND METHOD FOR MANUFACTURING THE VOLTAGE SOURCE

(51) International classification :H01M2/14,H01M2/16,C04B28/02
(31) Priority Document No :20185261
(32) Priority Date :20/03/2018
(33) Name of priority country :Finland
(86) International Application No :PCT/FI2019/050215
Filing Date :13/03/2019
(87) International Publication No :WO 2019/180311
(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 :

1)LEPP,,NEN, Juha

2)PIISPANEN, Mirja

(57) Abstract :

A voltage source includes two electrically conductive terminals (101, 102) with an electrolyte (103) between them. Said electrolyte (103) is a mixture in which the main component is ash produced in a power plant or an incineration plant.

No. of Pages : 13 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043734 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : POWER CONVERSION DEVICE

(51) International classification :H02J9/06,H02J3/32
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/JP2018/010813
Filing Date :19/03/2018
(87) International Publication No :WO 2019/180784
(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 :
1)NISHIMURA, Kazuki
2)NAKANO, Toshihide

(57) Abstract :

This uninterruptible power supply unit is provided with: a cooler (6) for dissipating heat from a converter (1) and an inverter (5); and a control device (8) which, when an output power (Po) of the inverter (5) has exceeded an upper limit value (PoH), decreases an input power (Pi) of the converter (1) by a difference power ($P_o = P_{oH} - P_o$) between the upper limit value (PoH) and the output power (Po), and increases an input power (Pb) of a bidirectional chopper (4) by a power ($2 - P_o$) of two times the difference power (Po).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043742 A

(19) INDIA

(22) Date of filing of Application :07/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : BICYCLIC ENONE CARBOXYLATES AS MODULATORS OF TRANSPORTERS AND USES THEREOF

(51) International classification :A61K31/429,C07D493/04,C07D495/04
(31) Priority Document No :62/650592
(32) Priority Date :30/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/024855
Filing Date :29/03/2019
(87) International Publication No :WO 2019/191599
(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 :**
1)SANDANAYAKA, Vincent

(57) Abstract :

The invention generally relates to the field of monocarboxylate transporter inhibitors, and more particularly to new bicyclic enone carboxylate enone compounds, the synthesis and use of these compounds and their pharmaceutical compositions, e.g., in the treatment, modulation and/or prevention of physiological conditions associated with monocarboxylate transporter activity such as in treating cancer and other neoplastic disorders, tissue and organ transplant rejection.

No. of Pages : 88 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043749 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : COLOURED MIRROR

(51) International classification :C03C17/36
(31) Priority Document No :1853654
(32) Priority Date :26/04/2018
(33) Name of priority country :France
(86) International Application No :PCT/FR2019/050944
Filing Date :19/04/2019
(87) International Publication No :WO 2019/207241
(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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1)MARIANI, Silvia

(57) Abstract :

The invention relates to a specular mirror comprising a glass substrate coated on one of its faces, successively starting from said glass substrate, with a stack of thin layers, a reflective layer of silver, then a layer of paint, characterised in that said stack of thin layers comprises at least one continuous metal layer containing copper having a physical thickness of between 2 and 40 nm and topped with a metal oxide adhesive layer having a refractive index of 550 nm within a range of between 1.8 and 2.6.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043750 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ANNULAR DUCT

(51) International classification :F15D1/02,B05B1/02,B05B1/04
(31) Priority Document No :62/761189
(32) Priority Date :12/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/021808
Filing Date :12/03/2019
(87) International Publication No :WO 2019/178065
(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)PENNEY, Kimberly
4)WEBSTER, Bruce
(72)**Name of Inventor :**
1)HARMAN, Jayden
2)PENNEY, Kimberly
3)WEBSTER, Bruce

(57) Abstract :

An annular duct arrangement configured to cause a flow stream passing through the annular duct arrangement to be expelled from an outlet of the annular duct arrangement in a predetermined flow form.

No. of Pages : 17 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043752 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : HYBRID CABLE/RAIL TRANSPORTATION SYSTEM, TRANSPORTATION UNIT FOR SUCH A TRANSPORTATION SYSTEM AND METHOD FOR OPERATING SUCH A TRANSPORTATION SYSTEM

(51) International classification :B61B7/02,B61B7/06,B61B12/00
(31) Priority Document No :102018000004362
(32) Priority Date :10/04/2018
(33) Name of priority country :Italy
(86) International Application No :PCT/IB2019/052959
Filing Date :10/04/2019
(87) International Publication No :WO 2019/198008
(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 :**
1)ERHARTER, Nikolaus
2)WIESER, Hartmut
3)CONTE, Giuseppe

(57) Abstract :

A hybrid cable/rail transportation system (1) comprising: at least one system portion configured as a cable transportation system (2) comprising at least one cable (3); at least one system portion configured as a rail transportation system (4) comprising at least one rail (5), wherein the system portion configured as a cable transportation system (2) is upstream and/or downstream of the system portion configured as a rail transportation system (4); a plurality of transportation units (13), wherein each transportation unit (13) comprises a cabin (6); wherein each cabin (6) is configured for being moved along the entire system, respectively supported hanging from the cable (3) along the system portion configured as a cable transportation system (2) and supported resting on the rail (5) along the system portion configured as a rail transportation system (4).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043776 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PYRAZOLO-TRIAZINE AND/OR PYRAZOLO-PYRIMIDINE DERIVATIVES AS SELECTIVE INHIBITOR OF CYCLIN DEPENDENT KINASE

(51) International classification :C07D487/04,C07D519/00,A61P31/00
(31) Priority Document No :62/656070
(32) Priority Date :11/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/EP2019/059302
Filing Date :11/04/2019
(87) International Publication No :WO 2019/197549
(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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2)KIM, Jaeseung
3)JEON, Yeejin
4)YU, Donghoon
5)SEO, Mooyoung
6)PARK, Dongsik
7)EICKHOFF, Jan
8)ZISCHINSKY, Gunther

(57) Abstract :

The present invention relates to pyrazolo[1,5-a][1,3,5]triazine and pyrazolo[1,5-a]pyrimidine derivatives and/or pharmaceutically acceptable salts thereof, the use of these derivatives as pharmaceutically active agents, especially for the prophylaxis and/or treatment of cell proliferative diseases, inflammatory diseases, immunological diseases, cardiovascular diseases and infectious diseases. Furthermore, the present invention is directed towards pharmaceutical compositions containing at least one of the pyrazolo[1,5-a][1,3,5]triazine and pyrazolo[1,5-a]pyrimidine derivatives and/or pharmaceutically acceptable salts thereof.

No. of Pages : 184 No. of Claims : 12

(54) Title of the invention : PHARMACEUTICALLY ACTIVE PYRAZOLO-TRIAZINE AND/OR PYRAZOLO-PYRIMIDINE DERIVATIVES

(51) International classification :C07D487/04,A61P35/00,A61P31/00
 (31) Priority Document No :62/656041
 (32) Priority Date :11/04/2018
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/EP2019/059289
 Filing Date :11/04/2019
 (87) International Publication No :WO 2019/197546
 (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)JEON, Yeejin
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5)SEO, Mooyoung
6)PARK, Dongsik
7)EICKHOFF, Jan
8)ZISCHINSKY, Gunther
9)KOCH, Uwe

(57) Abstract :

The present invention relates to pyrazolo [1,5 -a] [1,3,5]triazine and pyrazolo[1,5-a] pyrimidine derivatives and/or pharmaceutically acceptable salts thereof, the use of these derivatives as pharmaceutically active agents, especially for the prophylaxis and/or treatment of cell proliferative diseases, inflammatory diseases, immunological diseases, cardiovascular diseases and infectious diseases. Furthermore, the present invention is directed towards pharmaceutical compositions containing at least one of the pyrazolo [1,5-a][1,3,5]triazine and pyrazolo [1,5-a]pyrimidine derivatives and/or pharmaceutically acceptable salts thereof.

No. of Pages : 113 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043820 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DIRECT-GAP GROUP IV ALLOY NANOCRYSTALS WITH COMPOSITION-TUNABLE ENERGY GAPS AND NEAR-INFRARED PHOTOLUMINESCENCE

(51) International classification :B82Y15/00,B82Y20/00,B82Y40/00
(31) Priority Document No :62/644646
(32) Priority Date :19/03/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/022669
Filing Date :18/03/2019
(87) International Publication No :WO 2019/182934
(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)OZGUR, Umit
3)DEMCHENKO, Denis, O.
4)TALLAPALLY, Venkatesham
5)NAKAGAWARA, Tanner, A.

(57) Abstract :

Colloidal synthesis of narrowly disperse, near IR emitting Group IV alloy quantum dots with wide range of Sn compositions via reduction of precursor halides is provided, allowing for less-toxic, earth abundant, and silicon-compatible Group IV alloy quantum dots for application in a broad range of electronic and photonic technologies.

No. of Pages : 28 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043876 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : INFORMATION SENDING METHOD, INFORMATION RECEIVING METHOD, AND DEVICE

(51) International classification :H04W28/18
(31) Priority Document No :WO 2019/192008
(32) Priority Date :05/04/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2018/082065
Filing Date :05/04/2018
(87) International Publication No :WO 2019/192008
(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)ZHAO, Yue
2)YU, Zheng
3)FEI, Yongqiang

(57) Abstract :

An information sending method, an information receiving method, and a device The information sending method comprises: a terminal device receiving a first transport block size (TBS) configured by a network device, the first TBS being a TBS selected by the network device from a second TBS set, the second TBS set including N TBSs, said N being a positive integer greater than 1; the terminal device determining a third TBS set according to the first TBS, the maximum TBS in the third TBS set being less than or equal to the first TBS; the terminal device selecting a TBS from the third TBS set, and sending uplink information according to the selected TBS. The method and device provided in the embodiments of the present application may be applied to a communication system, for example, a V2X, an LTE-V, a V2V, an Internet of Vehicles, an MTC, an IoT, an LTE-M, an M2M, an Internet of Things, etc.

No. of Pages : 51 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043878 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : CONNECTION REESTABLISHING METHOD AND DEVICE

(51) International classification	:H04W76/19	(71)Name of Applicant :
(31) Priority Document No	:201810301277.6	1)HUAWEI TECHNOLOGIES CO., LTD.
(32) Priority Date	:04/04/2018	Address of Applicant :Huawei Administration Building
(33) Name of priority country	:China	Bantian, Longgang District Shenzhen, Guangdong 518129 China
(86) International Application No	:PCT/CN2019/081546	(72)Name of Inventor :
Filing Date	:04/04/2019	1)WANG, Rui
(87) International Publication No	:WO 2019/192608	2)DAI, Mingzeng
(61) Patent of Addition to Application Number	:NA	3)ZENG, Qinghai
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is a connection reestablishing method and a device, relating to the field of communication technology, which can realize connection reestablishing of terminal device in 5G system. The method comprise: the terminal device selects a first cell; in a case where the standard of the first cell is different from the standard of the source cell, and the first cell does not belong to the cell of the first type, the terminal device leaves the connected state, and sends the connection release reason value to the upper stratum, the connection release reason value includes at least one of handover failure, the type of the first cell, the core network type corresponding to the first cell, the standard of the first cell, whether the first cell is connected to the source core network, non-access stratum NAS recovery indication, NAS change and core network type change, the connection release reason value is used to instruct the upper stratum to determine whether to change the type of the core network to which the terminal device is connected, the first type of cell is a cell connected to the source core network, and the source core network is a core network that the terminal device accesses in the source cell.

No. of Pages : 70 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043879 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

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

(51) International classification :C07D301/02,C07D303/14
(31) Priority Document No :1805029.4
(32) Priority Date :28/03/2018
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2019/050904
Filing Date :28/03/2019
(87) International Publication No :WO 2019/186180
(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 :**
1)ATKINS, Martin
2)COLEMAN, Fergal
3)HARDIMAN, Sean

(57) Abstract :

This invention relates to a process for the preparation of glycidol from the thermal decarboxylation of glycerol carbonate. In one aspect, the present invention provides a process for the preparation of glycidol by thermal decarboxylation of glycerol carbonate, said process comprising the steps of: d)contacting liquid glycerol carbonate with a decarboxylation promotor, having a boiling point of at least 160°Cat atmospheric pressure and consisting essentially of an aliphatic mono-ol, an aliphatic polyol, or mixtures thereof, to form a liquid phase mixture; e)applying heat to the liquid phase mixture formed in step a) to induce thermal decarboxylation of the glycerol carbonate;and f)separating glycidol formed in step b) from the liquid phase mixture by evaporation of glycidol; and wherein the process does not comprise the use of a decarboxylation catalyst.

No. of Pages : 39 No. of Claims : 55

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043880 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A METHOD OF INDUCING OR IMPROVING WOUND HEALING PROPERTIES OF MESENCHYMAL STEM CELLS

(51) International classification :C12N5/0775,A61K35/51,A61P17/02
(31) Priority Document No :62/656531
(32) Priority Date :12/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/SG2019/050204
Filing Date :12/04/2019
(87) International Publication No :WO 2019/199234
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)CELLRESEARCH CORPORATION PTE. LTD.
Address of Applicant :7500A Beach Road #06-302 The Plaza
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(72)Name of Inventor :
1)PHAN, Toan Thang
2)TAN, Gavin

(57) Abstract :

The present invention relates to a method of inducing or improving wound healing properties of a mesenchymal stem cell population, the method comprising cultivating the mesenchymal stem cell population in a culture medium comprising DMEM (Dulbeccos modified eagle medium), F12 (Hams F12 Medium), M171 (Medium 171) and FBS (Fetal Bovine Serum). The invention also relates to a mesenchymal stem population, wherein at least about 90 % or more cells of the stem cell population express each of the following markers: CD73, CD90 and CD105 and lack expression of the following markers: CD34, CD45 and HLA-DR. The invention also relates to a pharmaceutical composition of this mesenchymal stem population.

No. of Pages : 71 No. of Claims : 54

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043881 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : CHIMERIC FC RECEPTOR BINDING PROTEINS AND USES THEREOF

(51) International classification	:C07K16/00,A61P31/16	(71) Name of Applicant :
(31) Priority Document No	:1804278.8	1)LIVERPOOL SCHOOL OF TROPICAL MEDICINE
(32) Priority Date	:16/03/2018	Address of Applicant :Pembroke Place Liverpool L3 5QA
(33) Name of priority country	:U.K.	U.K.
(86) International Application No	:PCT/GB2019/050744	(72) Name of Inventor :
Filing Date	:15/03/2019	1)PLEASS, Richard John
(87) International Publication No	:WO 2019/175605	2)BLUNDELL, Patricia Ann
(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 chimeric proteins, to compositions comprising such proteins and to the medical uses of such proteins and compositions. In particular the proteins or compositions of the invention may be used in the prevention or treatment of autoimmune diseases or inflammatory diseases, or for the prevention or treatment of diseases mediated through binding of sialic acid dependent receptors, or as vaccines or as anti-cancer agents. One aspect of the invention relates to a chimeric Fc receptor binding protein which comprises two chimeric polypeptide chains, wherein each chimeric polypeptide chain comprises an immunoglobulin G heavy chain constant region, a tailpiece region and a hinge region, wherein the amino acid sequence of each polypeptide chain possess a sugar moiety at or close to the N-terminus and a sugar moiety at or close to the C- terminus, and their use in the treatment or prevention of a disease mediated by a pathogen that relies on sialic acid receptors interactions.

No. of Pages : 88 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043882 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : COATINGS FOR TEXTURED 3D-PRINTED SUBSTRATES

(51) International classification :B29C64/188,C08J7/04
(31) Priority Document No :62/655145
(32) Priority Date :09/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/026672
Filing Date :09/04/2019
(87) International Publication No :WO 2019/199893
(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 :**
1)KRAUT, Nadine D.
2)ROMAN, John T.
3)KUTCHKO, Cynthia

(57) Abstract :

Coating systems are used to visually hide low-profile surface features and to establish the optical properties of high profile surface features. The coating systems are useful in hiding build lines on the surface of articles fabricated using three-dimensional printing. Using the coating systems, the optical properties of intentional surface features such as patterns and textures can be modified to achieve a desired optical effect.

No. of Pages : 36 No. of Claims : 48

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043883 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DETERGENT GRANULE

(51) International classification :C11D1/12,C11D3/08,C11D3/10
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2018/086291
Filing Date :10/05/2018
(87) International Publication No:WO 2019/213890
(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)XU, Dan
3)SHEN, Rui
4)TIAN, Xiao
5)GUAN, Zhe
6)HUANG, Xu
(72)**Name of Inventor :**
1)XU, Dan
2)SHEN, Rui
3)TIAN, Xiao
4)GUAN, Zhe
5)HUANG, Xu

(57) Abstract :

A detergent granule is characterized by a Medium Particle Size ranging from 200 μm to 1000 μm and an aspect ratio of no more than 2, and contains from 85 wt% to 95 wt% of an alkyl sulfate (AS) having a branched or linear unalkoxylated C6-C16 alkyl group and from 4 wt% to 14 wt% of a water-soluble salt, with a water or moisture content of from 1 wt% to 5 wt%.

No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : SECURITY PRINT MEDIA AND METHOD OF MANUFACTURE THEREOF

(51) International classification :B42D25/373,B42D25/378,B42D25/351
 (31) Priority Document No :1805901.4
 (32) Priority Date :10/04/2018
 (33) Name of priority country :U.K.
 (86) International Application No :PCT/GB2019/050789
 Filing Date :20/03/2019
 (87) International Publication No :WO 2019/197798
 (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)ECKFORD, Alan
2)DRAKE, Ben
3)SLEEP, Lindsay
4)MCLEAN, Sean

(57) Abstract :

A security print medium is disclosed for forming security documents therefrom comprising: a transparent or translucent polymer substrate having first and second opposing surfaces; one or more opacifying layers disposed on the first and/or second surfaces of the polymer substrate, the or each opacifying layer being arranged across substantially the whole area of the polymer substrate, optionally excluding any window region(s) thereof, and comprising a semi- opaque material; and a first anti-static layer disposed on the first or second surface of the polymer substrate and arranged across substantially the whole area of the polymer substrate, optionally excluding any window region(s) thereof, so as to overlap the one or more opacifying layers, the first anti-static layer comprising an anti-static material. Across at least a first section of the area of the polymer substrate, the first anti-static layer is arranged according to a first pattern defining a two-dimensional array of gaps in which the anti-static material of the first anti-static layer is absent, spaced by portions in which the anti-static material of the first anti-static layer is present, at least some of the portions being connected to one another so as to form a conductive network across the polymer substrate.

No. of Pages : 32 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043933 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : VEHICULAR LAMP DRIVE DEVICE AND CONTROL METHOD THEREFOR

(51) International classification	:H05B37/02,B60Q1/04	(71) Name of Applicant :
(31) Priority Document No	:2018-065191	1)MITSUBA CORPORATION
(32) Priority Date	:29/03/2018	Address of Applicant :2681, Hirosawa-cho 1-chome, Kiryu-shi, Gunma 3768555 Japan
(33) Name of priority country	:Japan	(72) Name of Inventor :
(86) International Application No	:PCT/JP2018/042806	1)SAITO Kotaro
Filing Date	:20/11/2018	2)WATANABE Hitoshi
(87) International Publication No	:WO 2019/187325	3)ITABASHI Gaku
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This vehicular lamp drive device drives a vehicular LED lamp by controlling the flow of alternating current output from the coil of a power-generator, which generates power via the rotation of an engine. This vehicular lamp drive device comprises: a first supply path connected at a mid-section of the coil, whereby a negative-side current output from the coil is supplied to a first load including at least the LED lamp; a second supply path connected at one end of the coil, whereby the negative-side current output from the coil is supplied to a second load that is different from the first load; and a third supply path connected at the one end of the coil, whereby a positive-side current output from the coil is supplied to a third load that is different from the first and second loads. In addition, this vehicular lamp drive device is equipped with a lighting control unit controlling the timing of the flow of electricity in the first supply path, and a load drive unit controlling the timing of the flow of electricity in the second supply path.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043946 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : CUTTING TOOL AND CUTTING INSERT HAVING COMPLEMENTARY ENGAGEMENT FEATURES FOR ECCENTRIC MOUNTING

(51) International classification	:B23C5/08,B23C5/22	(71) Name of Applicant :
(31) Priority Document No	:15/938020	1)ISCAR LTD.
(32) Priority Date	:28/03/2018	Address of Applicant :P.O. Box 11 24959 Tefen Israel
(33) Name of priority country	:U.S.A.	(72) Name of Inventor :
(86) International Application No	:PCT/IL2019/050237	1)IRLIN, Sergey
Filing Date	:04/03/2019	
(87) International Publication No	:WO 2019/186528	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A cutting tool (20) has a tool body (22) with a first insert pocket (24) and an indexable cutting insert (26) removably mounted therein. The first insert pocket has a first seat surface with a plurality of first engagement elements and a first support wall transverse thereto. The cutting insert has upper and lower surfaces and a boundary surface extending therebetween. The lower surface has a plurality of lower engaging elements and the boundary surface has a plurality of alternating first and second peripheral surfaces intersecting the upper surface to form first and second upper cutting edges. In each index position with the lower surface in contact with the first seat surface, the first support wall prevents translation of the cutting insert in a first direction, and the first engagement elements eccentrically contact the lower engaging elements to prevent translation of the cutting insert in a second direction perpendicular to the first direction.

No. of Pages : 18 No. of Claims : 28

(54) Title of the invention : METHOD AND REACTOR FOR PRODUCING UREA AMMONIUM SULPHATE

(51) International classification :B01J31/02,B01J19/24,B01J4/00
 (31) Priority Document No :18162813.2
 (32) Priority Date :20/03/2018
 (33) Name of priority country :EPO
 (86) International Application No :PCT/EP2019/056936
 Filing Date :20/03/2019
 (87) International Publication No:WO 2019/180066
 (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)VAN BELZEN, Ruud
2)VOLKE, Howard
3)WINNE, Erika

(57) Abstract :

The present invention relates to a method for the production of an urea ammonium sulphate (UAS) composition, wherein said UAS composition comprises 1 to 40 weight% of ammonium sulphate (AS) relative to the total weight of the UAS composition, from sulphuric acid, ammonia and/or ammonium carbamate, and urea, in a pipe reactor comprising at least a reactor section wherein feeds of sulphuric acid and/or ammonium bisulphate, ammonia and/or ammonium carbamate, and urea are combined to obtain said urea ammonium sulphate (UAS) composition, comprising the step of including a viscosity-reducing agent, selected from the group of water soluble aluminium salts, into one or more of said feeds. Preferably, said agent is an aluminium sulphate (AluS). The present invention also relates to a pipe reactor for the production of a urea ammonium sulphate (UAS) composition from sulphuric acid, ammonia and/or ammonium carbamate, and urea, the pipe reactor comprising at least a reactor section wherein continuous feeds of sulphuric acid and/or ammonium bisulphate, ammonia and/or ammonium carbamate and urea are combined to obtain said urea ammonium sulphate (UAS) composition, wherein the pipe reactor further comprises means for supplying an aqueous solution of a viscosity-reducing agent to the urea solution upstream of said pipe reactor section, which agent reduces the viscosity of said UAS solution or slurry. The present invention also relates to the use of aluminium sulphate as viscosity-reducing agent in a method for the production of urea ammonium sulphate (UAS) composition, wherein said UAS composition comprises 1 to 40 weight% of ammonium sulphate (AS) relative to the total weight of the UAS composition, from sulphuric acid, ammonia and/or ammonium carbamate, and urea, in a pipe reactor comprising at least a reactor section wherein continuous feeds of sulphuric acid and/or ammonium bisulphate, ammonia and/or ammonium carbamate and urea are combined to obtain said urea ammonium sulphate (UAS) composition.

No. of Pages : 18 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043952 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : VOLTAGE SOURCE WITH AN ELECTROLYTE CONTAINING ALUMINIUM AND SILICON OXIDES, AND METHOD FOR MANUFACTURING THE VOLTAGE SOURCE

(51) International classification :H01M2/14,C04B28/00,H01M2/16
(31) Priority Document No :20185262
(32) Priority Date :20/03/2018
(33) Name of priority country :Finland
(86) International Application No :PCT/FI2019/050216
Filing Date :13/03/2019
(87) International Publication No :WO 2019/180312
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)LEPP,,NEN, Juha

2)PIISPANEN, Mirja

(57) Abstract :

A voltage source includes two electrically conductive terminals (101, 102) with an electrolyte (103) between them. Said electrolyte (103) is a mixture in which the main components are aluminium and silicon oxides.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043953 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : NOZZLE FOR A DOWN-FLOW HYDROPROCESSING REACTOR

(51) International classification :B01J8/02,B01J8/04,B01J4/00
(31) Priority Document No :62/664602
(32) Priority Date :30/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IB2019/053555
Filing Date :30/04/2019
(87) International Publication No :WO 2019/211762
(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)SONG, Steven Xuqi
2)BREIG, Timothy D.

(57) Abstract :

An improved nozzle device for a down-flow hydroprocessing reactor is disclosed. The down-flow nozzle is useful in the petroleum and chemical processing industries in catalytic reactions of hydrocarbon feedstocks in the presence of hydrogen, at an elevated temperature and pressure, to provide for the mixing and distribution of gas and liquid to reactor catalyst beds. Typical hydroprocessing applications include hydrotreating, hydrofinishing, hydrocracking and hydrodewaxing.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043954 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : POWER CONVERSION DEVICE

(51) International classification :H02M1/00,H02M7/48
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/JP2018/016736
Filing Date :25/04/2018
(87) International Publication No :WO 2019/207666
(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)ODA, Kenji
2)OMOTE, Kenichiro
3)NAKAJIMA, Ryo

(57) Abstract :

Provided is a power conversion device for an arc flash, which can prevent an arc flash generated in a disk from being discharged to an operation surface that operates the disk, and can release the pressure in the disk from a flapper part provided on a ceiling to the outside. This power conversion device for an arc flash includes a power converter and a disk that receives the power converter, wherein first tip machining, which makes it difficult for the arc flash to fly at a site at which it is not desired to generate the arc flash, is performed on a bus constituting the power converter, and the disk is provided with: an explosion-proof shutter part which is disposed in a door that can be opened and closed by an operator, and when an arc flash is generated, prevents the arc flash from being discharged to the outside by the pressure in the disk; and a flapper part which discharges the pressure in the disk from a ceiling part of a disk unit to the outside.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043955 A

(19) INDIA

(22) Date of filing of Application :08/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PHARMACEUTICAL COMPOSITION COMPRISING META ARSENITE AND METHOD OF MANUFACTURE

(51) International classification :A61K9/20,A61K33/36,A61P35/00
(31) Priority Document No :2018900954
(32) Priority Date :22/03/2018
(33) Name of priority country :Australia
(86) International Application No :PCT/AU2019/050249
Filing Date :21/03/2019
(87) International Publication No :WO 2019/178643
(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)YANG, Yong-jin

(57) Abstract :

The present application relates to pharmaceutical compositions comprising a salt of arsenous acid, such as sodium meta arsenite or potassium meta arsenite, and methods of manufacturing the pharmaceutical compositions..

No. of Pages : 44 No. of Claims : 33

(54) Title of the invention : ANTIMICROBIAL HEAT SEAL COATING COMPOSITIONS

(51) International classification :C09D5/14,C09J123/08,C09J133/10
 (31) Priority Document No :62/649810
 (32) Priority Date :29/03/2018
 (33) Name of priority country:U.S.A.
 (86) International Application No :PCT/US2019/013564
 Filing Date :15/01/2019
 (87) International Publication No :WO 2019/190615
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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1)SCHMIDT, Thorsten

(57) Abstract :
 Antimicrobial heat seal coating compositions are disclosed comprising (A) a copolymer dispersed in a solvent, the copolymer comprising at least one selected from the group consisting of a (meth)acrylate ester (co)polymer, an olefin (co)polymers, a copolymer comprising (meth)acrylic ester units and olefin units and (B) an antimicrobial agent. Food packaging articles are also disclosed, the food packaging articles comprising the disclosed heat seal coatings. When applied in a food packaging application, such as a dairy food packaging application, the disclosed coatings provide for reduced work exposer to hydrogen peroxide and improved packaging reliability.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043980 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : FOAM FORMULATIONS

(51) International classification	:C08G18/48,C08G18/50	(71) Name of Applicant :
(31) Priority Document No	:102018000004162	1)DOW GLOBAL TECHNOLOGIES LLC
(32) Priority Date	:03/04/2018	Address of Applicant :2040 Dow Center Midland, Michigan
(33) Name of priority country	:Italy	48674 U.S.A.
(86) International Application No	:PCT/US2019/022865	(72) Name of Inventor :
Filing Date	:19/03/2019	1)GIROTTI, Cecilia
(87) International Publication No	:WO 2019/194966	2)BRANDOLI, Andrea
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments of the present disclosure are directed towards foam formulations that include a high functionality polyether polyol, an aromatic polyether polyol, an amine initiated aliphatic polyether polyol, and a diol.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043981 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : INTRODUCER NEEDLE WITH NOTCHES FOR IMPROVED FLASHBACK

(51) International classification :A61M25/06,A61M5/158	(71) Name of Applicant :
(31) Priority Document No :15/946593	1)BECTON, DICKINSON AND COMPANY
(32) Priority Date :05/04/2018	Address of Applicant :1 Becton Drive Franklin Lakes, New Jersey 07417 U.S.A.
(33) Name of priority country :U.S.A.	(72) Name of Inventor :
(86) International Application No :PCT/US2019/022991	1)MA, Yiping
Filing Date :19/03/2019	2)DAVIS, Bryan G.
(87) International Publication No :WO 2019/194969	3)HARDING, Weston F.
(61) Patent of Addition to Application Number :NA	4)BURKHOLZ, Jonathan Karl
Filing Date :NA	
(62) Divisional to Application Number :NA	
Filing Date :NA	

(57) Abstract :

An introducer needle may include a proximal end, a distal tip, and a needle lumen extending therebetween. The introducer needle may include a wall defining the needle lumen, a first notch formed through the wall, and a second notch formed through the wall. A catheter system may include a catheter adapter, a catheter extending distally from the distal end of the catheter adapter, a flash chamber coupled to the introducer needle, and the introducer needle, which may extend through the catheter. The first and second notches and the flash chamber may facilitate pressure-driven blood flow into the catheter for improved flashback and detection of transfixation when the catheter is primed prior to insertion into vasculature of a patient or otherwise.

No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043982 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : PRODUCTION METHOD FOR 5,5-DI-SUBSTITUTED-4,5-DIHYDROISOXAZOLE

(51) International classification	:C07D261/04,C07B61/00	(71) Name of Applicant :
(31) Priority Document No	:2018-086679	1)KUMIAI CHEMICAL INDUSTRY CO., LTD.
(32) Priority Date	:27/04/2018	Address of Applicant :4-26, Ikenohata 1-chome, Taito-ku,
(33) Name of priority country	:Japan	Tokyo 1108782 Japan
(86) International Application No	:PCT/JP2019/017459	(72) Name of Inventor :
Filing Date	:24/04/2019	1)NAGATA, Toshihiro
(87) International Publication No	:WO 2019/208643	2)SHIKAMA, Daisuke
(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 is to provide a production method for a 4,5-dihydroisoxazole represented by formula (3), which is safe, industrially desirable, economical, and environmentally friendly. The present invention causes the compound of formula (1) to react with hydroxylamine in the presence of an acid catalyst to produce the compound of formula (3) through the reaction represented by the reaction equation.

No. of Pages : 93 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043983 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : ANTI-MUC1 ANTIBODY

(51) International classification :C07K16/30
(31) Priority Document No :18173253.8
(32) Priority Date :18/05/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/062756
Filing Date :17/05/2019
(87) International Publication No :WO 2019/219889
(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)DAIICHI SANKYO CO., LTD.
(72)Name of Inventor :
1)GELLERT, Johanna
2)FLECHNER, Anke
3)WEIGELT, Doreen
4)DANIELCZYK, Antje

(57) Abstract :

The present disclosure pertains to novel antibodies directed against the cancer antigen MUC1. In particular, an antibody with improved antigen binding was obtained by deleting a glycosylation site in the CDR-H2 of a known anti-MUC1 antibody.

No. of Pages : 60 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043987 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : FLEXIBLE REPETITION OF PUSCH MINI-SLOTS WITHIN A SLOT

(51) International classification :H04L1/18,H04L5/00
(31) Priority Document No :18188330.7
(32) Priority Date :09/08/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/063928
Filing Date :29/05/2019
(87) International Publication No :WO 2020/030317
(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 :**
1)SUZUKI, Hidetoshi
2)LI, Hongchao
3)BHAMRI, Ankit

(57) Abstract :

The disclosure relates to a transmission device for transmitting data to a reception device in a communication system. The transmission device comprises circuitry which, in operation, allocates the data to a plurality of transmission time intervals, TTIs, respectively comprising a lower number of symbols than a slot and the plurality of TTIs including an initial TTI and one or more subsequent TTIs subsequent to the initial TTI, wherein the data allocated to each of the plurality of TTIs is the same, further allocates a demodulation reference signal, DMRS, to the initial TTI, and obtains a DMRS allocation for each of the subsequent TTIs indicating whether or not no DMRS is allocated to the respective TTI to be transmitted in addition to the data. The transmission device further comprises a transceiver which, in operation, transmits, within the slot, the data and DMRS in accordance with the DMRS allocation.

No. of Pages : 34 No. of Claims : 15

(54) Title of the invention : TOILET

(51) International classification :A47K13/10,A47K13/00,A47C1/00
(31) Priority Document No :62/655904
(32) Priority Date :11/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/026727
Filing Date :10/04/2019
(87) International Publication No :WO 2019/199925
(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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1)CHUNG, Chansol
2)KOHLER, Karger David
3)HALLORAN, Daniel N.
4)LAUNDRE, Jeffrey T.
5)MUELLENBACH, Keith E.
6)TARPLEE, Jennifer L.
7)LOEST, Craig J.

(57) Abstract :
A toilet includes a base, a cover, and a seat. The seat is rotatably coupled to the base, and the cover is rotatably coupled to the seat. The cover and the seat define an angled axis that is oriented upward and forward toward a front end of the base. The cover and the seat are each configured to rotate about the angled axis between a lowered position in which the cover and the seat are located adjacent the base and a stowed position in which the cover and the seat are oriented in an upward direction.

No. of Pages : 50 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017043999 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : SIDE WINDOW OF THE MEANS OF TRANSPORT THAT CAN BE USED AS AN EMERGENCY EXIT, COMPRISING AN EXTERNAL PANE OF GLASS THAT IS SET BACK

(51) International classification	:B32B17/10
(31) Priority Document No	:1854712
(32) Priority Date	:31/05/2018
(33) Name of priority country	:France
(86) International Application No	:PCT/EP2019/063047
Filing Date	:21/05/2019
(87) International Publication No	:WO 2019/228850
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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92400 Courbevoie France

(72)**Name of Inventor :**
1)GASTAL, Guillaume

(57) Abstract :

The invention relates to a side window (1) of a means of transport, particularly a train window, said window comprising: - an a laminated external window (2) comprising at least one external pane of glass (3), an internal pane of glass (5) and a sheet of plastic (4) situated between the said external pane of glass (3) and the said internal pane of glass (5), each sheet or pane (3, 4, 5) of the said external window (2) having a peripheral edge face (30, 40, 50), - an internal window (6), - a window frame structure (7) which is situated at the periphery of the said external window (2) and at the periphery of the said internal window (6), characterized in that the edge face (30) of the said external pane of glass (3) is set back by a distance (r) from the edge face (50) of the said internal windowpane (5) over at least part of the length of the edge face (30) of the said external sheet of glass (3) and preferably over the entirety of the length of the edge face (30) of the said external pane of glass (3), and in that the said window frame structure (7) is not in contact with the said external pane of glass (3).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017044000 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD OF DEBUGGING A PROCESSOR

(51) International classification :G06F11/22
(31) Priority Document No :15/950147
(32) Priority Date :10/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/018490
Filing Date :19/02/2019
(87) International Publication No :WO 2019/199378
(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 :2485 Augustine Drive Santa Clara, CA
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(72)**Name of Inventor :**
1)SCHIEVE, Eric W.

(57) Abstract :

Methods for designing a processor based on executing a randomly created and randomly executed executable on a fabricated processor. By implementing randomization at multiple levels in the testing of the processor, coupled with highly specific test generation constraint rules, highly focused tests on a micro-architectural feature are implemented while at the same time applying a high degree of random permutation in the way it stresses that specific feature. This allows for the detection and diagnosis of errors and bugs in the processor that elude traditional testing methods. Once the errors and bugs are detected and diagnosed, the processor can then be redesigned to no longer produce the anomalies. By eliminating the errors and bugs in the processor, a processor with improved computational efficiency and reliability can be fabricated.

No. of Pages : 19 No. of Claims : 20

(54) Title of the invention : A NOVEL FORM OF IVERMECTIN AND A PROCESS FOR MAKING IT

(51) International classification :C07D493/22,C07H17/08,A61P33/00
 (31) Priority Document No :110634
 (32) Priority Date :19/03/2018
 (33) Name of priority country :Portugal
 (86) International Application No :PCT/GB2019/050760
 Filing Date :19/03/2019
 (87) International Publication No :WO 2019/180417
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Hovione Scientia Limited
 Address of Applicant :Loughbeg Ringaskiddy Co. Cork
 Ireland Ireland
2)HOVIONE SCIENTIA LIMITED
 (72)Name of Inventor :
1)SILVA, Srgio

(57) Abstract :

Amorphous ivermectinis provided, suitably in isolated solid form, and is suitably free of any additives or a support matrix, such as a solid dispersion. Also provided is a pharmaceutical formulation, for animal including human or veterinary use, comprising the amorphous ivermectin of the invention, and a pharmaceutically-acceptable carrier therefor. Also provided is a medical device incorporating amorphous ivermectin according to the invention, or a medical device incorporating a pharmaceutical formulation according to the invention described herein. A method of preparing amorphous ivermectin comprises the steps of preparing a solution of ivermectin in at least one solvent; removing the solvent by feeding the solution to a spray dryer and collecting particles of ivermectin. Amorphous ivermectin as disclosed herein may be used as a medicament, in particular to treat conditions such as a medical condition caused by internal nematode infections including but not limited to onchocerciasis (river blindness), filariasis (elephantiasis), strongyloidiasis or demodicosis.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017044002 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : POLYESTER RESIN COMPOSITION, AND COMPONENT FOR OPTICALLY REFLECTIVE MEMBER AND OPTICALLY REFLECTIVE MEMBER CONTAINING SAME

(51) International classification :C08L67/02,C08K3/00,C08K5/098
(31) Priority Document No :2018-058292
(32) Priority Date :26/03/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/012393
Filing Date :25/03/2019
(87) International Publication No :WO 2019/188921
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)TOYOBO CO., LTD.
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(72)**Name of Inventor :**
1)FURUKAWA Kaori
2)SHIMIZU Takahiro
3)SHIMOHARAI Takuya

(57) Abstract :

Provided is a polyester resin composition that has high heat resistance and low gas properties, and is capable of greatly reducing mold contamination during continuous molding, and of reducing flow mark formation. The polyester resin composition contains: a polyester resin A containing 82-88 mass% polybutylene terephthalate resin and 12-18 mass% polyethylene terephthalate resin; a metal organic acid salt B constituted by an organic acid salt of an alkali metal and/or an organic acid salt of an alkaline earth metal; and 1-13 parts by mass, per 100 parts by mass of the polyester resin A, of an inorganic filler C having an average particle size of 0.05-3 μm . The composition contains 0.000005-0.05 parts by mass of alkali metal atoms and/or alkaline earth metal atoms per 100 parts by mass of the polyester resin A, and 1,000 mg/kg or less of a linear oligomer such as polybutylene terephthalate.

No. of Pages : 41 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017044003 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : CONVERSION OF 1,2,5,6-HEXANETETROL (HTO) TO TETRAHYDROFURAN DICARBOXYLIC ACID (THFDCA)

(51) International classification :C07D307/68
(31) Priority Document No :62/657277
(32) Priority Date :13/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/024493
Filing Date :28/03/2019
(87) International Publication No :WO 2019/199468
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)ARCHER DANIELS MIDLAND COMPANY
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Decatur, Illinois 62526 U.S.A.
(72)**Name of Inventor :**
1)MA, Chi Cheng

(57) Abstract :

Disclosed herein are methods for synthesizing useful intermediates and/or products from 1,2,5,6-hexanetetrol (HTO), which itself can be derived from a sugar. In an aspect, a process is provided for production of THFDCA from 1,2,5,6-hexanetetrol (HTO). The process comprises the steps of (a) ring closing to form a ring compound and (b) oxidizing using a catalyst comprising platinum and bismuth to form an acid mixture. Step (a) may be performed before or after step (b).

No. of Pages : 15 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017044004 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DEHYDRATION AND CYCLIZATION OF ALPHA-, BETA-DIHYDROXY CARBONYL COMPOUNDS TO 2-SUBSTITUTED FURAN DERIVATIVES

(51) International classification :C07D307/68
(31) Priority Document No :62/657416
(32) Priority Date :13/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/025785
Filing Date :04/04/2019
(87) International Publication No :WO 2019/199570
(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 :
1)BRAZDIL, James
2)ROGNESS, Donald

(57) Abstract :

Processes are disclosed for the synthesis of 2-substituted furan derivatives from a substrate having a carbonyl functional group (C=O), with hydroxy-substituted carbon atoms at alpha and beta positions, relative to the carbonyl functional group. In one embodiment, an alpha-, beta-dihydroxy carboxylate is dehydrated to form a dicarbonyl intermediate by transformation of the alpha-hydroxy group to a second carbonyl group and removal of the beta-hydroxy group. The dicarbonyl intermediate undergoes cyclization and dehydration to produce the 2-substituted furan derivative. Optionally, a further step of oxidation may be carried out, for example to convert a hydroxymethyl group, as a 5-substituted furan ring, to a carboxy group of 2,5-furan dicarboxylic acid.

No. of Pages : 17 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017044026 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : GUIDANCE SYSTEM, METHOD AND DEVICES THEREOF

(51) International classification	:A61B34/00,A61B17/34	(71) Name of Applicant :
(31) Priority Document No	:110686	1)KARL STORZ SE & CO. KG
(32) Priority Date	:13/04/2018	Address of Applicant :Dr.-Karl-Storz-Strae 34 78532
(33) Name of priority country	:Portugal	Tuttlingen Germany
(86) International Application No	:PCT/IB2019/053083	(72) Name of Inventor :
Filing Date	:15/04/2019	1)ARAŠJO MARTINS VILA†A, JoŁo Lus
(87) International Publication No	:WO 2019/198061	2)CORREIA PINTO, Jorge
(61) Patent of Addition to Application Number	:NA	3)CRUZ FONSECA, Jaime Francisco
Filing Date	:NA	4)LIMA, EstevŁo
(62) Divisional to Application Number	:NA	5)RODRIGUES, Pedro
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a guidance system, a method and a device for dynamically guiding a surgical needle catheter onto an organ to be surgically operated of a patient. In particular, the disclosure relates to a guidance system, a method and a device to aid in the percutaneous kidney puncture.

No. of Pages : 38 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017044045 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : METHOD FOR PRODUCING NATURAL KILLER CELLS

(51) International classification :C12N5/0783
(31) Priority Document No :10-2018-0033828
(32) Priority Date :23/03/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2019/003341
Filing Date :22/03/2019
(87) International Publication No :WO 2019/182392
(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)PAIK, Sang Hoon

3)HAN, Seungryel

4)LEE, Sanghyun

5)LAM, Hyeongjin

6)KIM, Juyoung

7)HAN, Mu Ri

8)NOH, Dong Il

(57) Abstract :

The present invention relates to a method for producing natural killer (NK) cells. More specifically, the present invention relates to a method for producing NK cells, characterized in that peripheral blood mononuclear cells from which CD3-positive cells are removed are proliferated together with supporting cells, and the peripheral blood mononuclear cells are re-stimulated with supporting cells at the time of reaching a specific number of cumulative division times. The present invention also relates to a method for producing NK cells, characterized in that NK cells are cultured under appropriate culture conditions by using a bioreactor. The production method according to the present invention has an advantage that NK cells having a high cell killing ability and cell survival rate can be produced with high purity and at high efficiency in a short period of time by a clinically friendly method as compared with existing methods, thereby increasing the productivity of an NK cell therapy agent.

No. of Pages : 42 No. of Claims : 16

(54) Title of the invention : MODIFIED MITOCHONDRIA AND USE THEREOF

(51) International classification :C07K14/705,C07K14/395,C07K14/47
 (31) Priority Document No:10-2018-0048486
 (32) Priority Date :26/04/2018
 (33) Name of priority country :Republic of Korea
 (86) International Application No :PCT/KR2019/005020
 Filing Date :25/04/2019
 (87) International Publication No :WO 2019/209051
 (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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3)KIM, Yu Jin
4)YU, Shin-Hye
5)KIM, Nayoung
6)KIM, Mi Jin
7)CHOI, Yong-Soo
8)LEE, Seo Eun

(57) Abstract :

Mitochondria modified by a targeting protein, according to one embodiment of the present invention, can be effectively delivered to a target. In addition, when a protein of interest bound to the modified mitochondria is delivered into a cell, various activities can be exhibited. The modified mitochondria can effectively cause cancer tissue death, and thus can also be used as an anticancer agent. Furthermore, various activities are exhibited according to a protein of interest loaded on a modified mitochondria, and thus the modified mitochondria can be applied in the treatment of various diseases. Additionally, a fusion protein comprising a protein of interest and a fusion protein comprising a targeting protein, according to one embodiment of the present invention, can be used in order to modify mitochondria. Moreover, mitochondria modified with the fusion proteins exhibits various effects in a target cell.

No. of Pages : 70 No. of Claims : 53

(54) Title of the invention : SELF-LIMITING NOCTUIDS

(51) International classification :A01K67/033,C12N15/85,C12N15/63
 (31) Priority Document No :62/649912
 (32) Priority Date :29/03/2018
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/GB2019/050897
 Filing Date :28/03/2019
 (87) International Publication No :WO 2019/186175
 (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 invention provides a Noctuid dsx splice cassette for expression of a gene of interest on a sex- specific basis, gene expression systems for imparting a self-limiting trait to transformed Noctuidae, as well as transgenic Noctuidae and methods of suppressing populations of Noctuidae and reducing, inhibiting or eliminating crop damage caused by the Noctuid insects.

No. of Pages : 65 No. of Claims : 89

(54) Title of the invention : IMIDAZOPYRIDINES USEFUL AS MITOCHONDRIAL UNCOUPLERS

(51) International classification :C07D487/04,C07D471/04,C07D498/04
 (31) Priority Document No :62/660880
 (32) Priority Date :20/04/2018
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/US2019/028555
 Filing Date :22/04/2019
 (87) International Publication No :WO 2019/204816
 (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 disclosure provides compounds of Formula (I-A) and (I-B) and the pharmaceutically acceptable salts thereof. The variables, R, R2, R3, X1, X2, X3, Y1, Y, and Z are defined herein. Certain compounds of Formula (I-A) and (I-B) act as selective mitochondrial protonophore uncouplers that do not affect plasma membrane potential. These compounds are useful for treating or decreasing the risk of conditions responsive to mitochondrial uncoupling, such as cancer, obesity, type II diabetes, fatty liver disease, insulin resistance, Parkinsons disease, ischemia reperfusion injury, heart failure, non-alcoholic fatty liver disease (NALFD), and non-alcoholic steatohepatitis (NASH). Because mitochondrial uncouplers decrease the production of reactive oxygen species (ROS), which are known to contribute to age-related cell damage, the compounds are useful for increasing lifespan. Compounds and salts of Formula(I-A) and (I-B) are also useful for regulating glucose homeostasis or insulin action in a patient.

No. of Pages : 87 No. of Claims : 32

(54) Title of the invention : OXADIAZOLOPYRAZINES AND OXADIAZOLOPYRIDINES USEFUL AS MITOCHONDRIAL UNCOUPLERS

(51) International classification:C07D498/04,A61P3/04,A61P3/00

(31) Priority Document No :62/660880

(32) Priority Date :20/04/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/028544
Filing Date :22/04/2019

(87) International Publication No :WO 2019/204813

(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 disclosure provide compounds of Formula I and the pharmaceutically acceptable salts thereof. The variables, R1, R2, R3, X1, X2, and Z are defined herein. Certain compounds of Formula I act as selective mitochondrial protonophore uncouplers that do not affect the plasma membrane potential. Compounds and salts of Formula I are useful for treating or decreasing the risk of conditions responsive to mitochondrial uncoupling, such as cancer, obesity, type II diabetes, fatty liver disease, insulin resistance, Parkinsons disease, ischemia reperfusion injury, heart failure, non-alcoholic fatty liver disease (NALFD), and non-alcoholic steatohepatitis (NASH). Because mitochondrial uncouplers decrease the production of reactive oxygen species (ROS), which are known to contribute to age-related cell damage, compounds of Formula I are useful for increasing lifespan. Compounds and salts of Formula I are also useful for regulating glucose homeostasis or insulin action in a patient.

No. of Pages : 136 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017044052 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : INDUCTION HEATING LINE BILLET PUSHOUT SYSTEM AND METHOD WITH JOINTED PUSH ROD ASSEMBLY

(51) International classification :B21K27/04,B21K29/00,B21J13/10
(31) Priority Document No :62/656630
(32) Priority Date :12/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/026994
Filing Date :11/04/2019
(87) International Publication No :WO 2019/200101
(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 billet pushout system is provided for an electric induction billet heating line with long length revolute jointed pushout rods forming a non-jamming pushout rod assembly that is stored in a linear enclosure connected to an arcuate enclosure that deploys and retracts the pushout rod assembly to and from the electric induction billet heating line.

No. of Pages : 18 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017044068 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : A THREE-PROTEIN PROTEOMIC BIOMARKER FOR PROSPECTIVE DETERMINATION OF RISK FOR DEVELOPMENT OF ACTIVE TUBERCULOSIS

(51) International classification :G01N33/569
(31) Priority Document No :2018/02474
(32) Priority Date :16/04/2018
(33) Name of priority country :South Africa
(86) International Application No :PCT/IB2019/053025
Filing Date :12/04/2019
(87) International Publication No :WO 2019/202448
(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)PENN-NICHOLSON, Adam Garth
3)ZAK, Daniel Edward
4)THOMPSON, Ethan Greene

(57) Abstract :

The invention relates to a method and kit for determining a likelihood of a human subject with asymptomatic tuberculosis (TB) infection or suspected TB infection progressing to active tuberculosis disease, the method comprising detecting a presence or level of a first and a second pair of protein biomarkers selected from Complement Component 9 (C9) and Complement C1q Tumor Necrosis Factor-Related Protein 3 (C1qTNF3); and C9 and Creatine Kinase M- and B-type (CKMB) in a sample from the subject.

No. of Pages : 55 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017044069 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DEVICE FOR COOKING BY INDUCTION ON A PORCELAIN SURFACE

(51) International classification	:A47J36/34,H05B6/06	(71) Name of Applicant :
(31) Priority Document No	:U201830347	1)ARBE STOLANIC, S.L.
(32) Priority Date	:13/03/2018	Address of Applicant :CL. Alfara del Patriarca, N° 21 Bajo
(33) Name of priority country	:Spain	46025 VALENCIA Spain
(86) International Application No	:PCT/ES2019/070129	(72) Name of Inventor :
Filing Date	:05/03/2019	1)RODRIGUEZ BENEYTO, Ignacio
(87) International Publication No	:WO 2019/175452	
(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 cooking by induction on a porcelain surface with induction means (2) under a cooking surface (3) connected to electric and electronic means for controlling power and operation, and thermally insulating separators (4) between the cooking surface (3) and the ferromagnetic surface (5) of the vessel, which, as the electric and electronic means for controlling power and operation, comprises a control unit (6) for controlling the induction means (2), included under the cooking surface (3), a remote control (7), and built-in temperature sensors (8), at least one, in each of the thermally insulating separators (4), being provided with communication means so that the control unit (6) receives information from the remote control (7) as well as from the temperature sensors (8) located in the separators (4) to control the power of the induction means (2).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017044071 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : DOUBLE-TUBE HEAT EXCHANGER AND MANUFACTURING METHOD THEREOF

(51) International classification	:F28D7/10,F28D21/00	(71) Name of Applicant :
(31) Priority Document No	:102018000004827	1)MANENTI, Giovanni
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(86) International Application No	:PCT/IB2019/052755	(72) Name of Inventor :
Filing Date	:04/04/2019	1)MANENTI, Giovanni
(87) International Publication No	:WO 2019/207384	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A double-tube heat exchanger is described, comprising an outer tube and an inner tube concentrically arranged so as to form a first annular gap in between the outer tube and the inner tube. The outer tube is provided with at least an inlet connection and with at least an outlet connection for inletting and outletting, respectively, a first fluid flowing in the first annular gap. The inner tube is provided with at least a first inlet connection and with at least a second outlet connection for inletting and outletting, respectively, a second fluid flowing in the inner tube for an indirect heat exchange with the first fluid. The inlet and outlet connections of the inner tube are jointed to equipment or conduits placed upstream and/or downstream of the heat exchanger. The inner tube is formed by at least two tube sections, jointed each other by a joint of butt-to-butt type. One of the tube sections is integrally formed, as a single monolithic piece, with an assembly wall which joints a first end of the outer tube to the inner tube, so to seal the first annular gap at the first end of the outer tube. A second annular gap is formed in between the inner tube, or the equipment or conduits, or the inner tube and the equipment or conduits, and the assembly wall. The second annular gap is exposed to the air and is in fluid communication neither with the first annular gap nor with the inner tube, and is at least partially surrounded by the first annular gap.

No. of Pages : 26 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017044079 A

(19) INDIA

(22) Date of filing of Application :09/10/2020

(43) Publication Date : 22/01/2021

(54) Title of the invention : APPARATUS AND METHOD OF TRANSMITTING AND RECEIVING MESSAGE 3 PROTOCOL DATA UNIT

(51) International classification :H04W74/00,H04W74/08
(31) Priority Document No :62/664378
(32) Priority Date :30/04/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/KR2019/005236
Filing Date :30/04/2019
(87) International Publication No :WO 2019/212243
(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)KIM, Soenghun

(57) Abstract :

A communication method and system for converging a fifth generation (5G) communication system for supporting higher data rates beyond a fourth generation (4G) system with a technology for Internet of things (IoT) are provided. The communication method and system may be applied to intelligent services based on the 5G communication technology and the IoT-related technology, such as smart home, smart building, smart city, smart car, connected car, health care, digital education, smart retail, security and safety services. A method by a terminal for transmitting a message 3 (Msg3) in a random access procedure is provided.

No. of Pages : 33 No. of Claims : 15

CONTINUED TO PART- 2