पेटेंट कार्यालय
शासकीय जर्नल

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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.

(Om Prakash Gupta)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

10TH MAY, 2019

CONTENTS

THE PATENT OFFICE
KOLKATA, 10/05/2019
Address of the Patent Offices/Jurisdictions
The following are addresses of all the Patent Offices located at different places having their Territorial Jurisdiction on a Zonal basis as shown below:-

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

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 10/05/2019

• 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 है:-

1	कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिहन, 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	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
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 ❖ गुजरात, महाराष्ट्र, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दादर और नगर हवेली.	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
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		

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, सूचनाए, 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.

(Om Prakash Gupta)
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 there under on weekly basis on every **Friday**.

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

SPECIAL NOTICE

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

Early Publication:

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201811039842 A
(19) INDIA
(22) Date of filing of Application :22/10/2018
(43) Publication Date : 10/05/2019

(54) Title of the invention : IMAGE CLASSIFICATION SYSTEM AND METHOD THEREOF

(51) International classification :G06K9/46
(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 Group of Colleges
Address of Applicant :Landran Kharar Banur Highway, Sector 112, Sahibzada Ajit Singh Nagar, Mohali, Punjab 140307, India.
Punjab India
(72)**Name of Inventor :**
1)Dr. Amit Verma
2)Gagandeep Bhatia
3)Dr.Gagandeep

(57) Abstract :
The present invention relates to a system and method for classification of histopathological image of breast cancer cells/tissues based on convolutional neural network and transfer learning models. The system comprises of a database module; a preprocessing module for image dataset preparation and augmentation; a feature extraction module; a classifier module for classifying images; a training module; and a user interface module. The method comprises the steps of collecting dataset of images; converting images into patches; augmenting the patches to increase the number of dataset; extracting features from the dataset; fully connected layer and classifying the images; training the dataset; entering the test image in the user interface module and predicting the probability of pathological condition in the test image.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/08/2018

(21) Application No.201811029961 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A SELF-COMPACTING CONCRETE MIX

(51) International classification :E21B33/14
(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)SHARDA UNIVERSITY
Address of Applicant :32-34, Knowledge Park 3, Greater Noida, 201306, Uttar Pradesh (UP), India Uttar Pradesh India
(72)**Name of Inventor :**
1)Nishant Kumar
2)Sunil Saharan

(57) Abstract :
The present invention provides a self-compacting concrete mix comprising cement, fine aggregates, coarse aggregates, a pozzolanic material and a super plasticizer. The pozzolanic material is selected from a group consisting of fly ash, metakaolin, or silica fume. Further, the cement is replaced with the pozzolanic material in a range of 5% to 20% by weight of the cement to obtain a self-compacting concrete. Furthermore, the super plasticizer is present in an amount ranging from 0.1% to 4% by weight of the cement.

No. of Pages : 44 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/08/2018

(21) Application No.201811031196 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A SELF-BALANCING UNICYCLE

(51) International classification :F01K27/00
(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)Trone Automobiles Private Limited
Address of Applicant :House- 82, Kalepur, Gorakhpur, Uttar Pradesh- 273009, India. Uttar Pradesh India
(72)**Name of Inventor :**
1)AHAD, Abdul
2)MADDHESHIYA, Shanu
3)SINGH, Vishal Ranjan

(57) Abstract :
The present disclosure provides a self-balancing unicycle. The unicycle comprises a wheel hub assembly. The wheel assembly comprises a wheel hub coupled to a wheel of the unicycle; a primary electric motor coupled to the wheel hub for transmitting rotary motion to the wheel; a secondary electric motor; and flywheel coupled to the secondary electric motor. The secondary electric motor rotates the flywheel at a specific speed. Selective rotation of the primary motor in different direction provides forward and backward balancing of said unicycle. Rotation of the flywheel turns the wheel in a direction of tilting of the unicycle, and generates a counter force in a direction that is opposite to tilting of the unicycle to provide balancing of said unicycle in side-ways direction.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2018

(21) Application No.201811046652 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A HIGH STRENGTH CONCRETE COMPOSITION

(51) International classification :C04B28/02
(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)SHARDA UNIVERSITY
Address of Applicant :32-34, Knowledge Park 3, Greater Noida, 201306, Uttar Pradesh (UP), India Uttar Pradesh India
(72)**Name of Inventor :**
1)Megha Gupta

(57) Abstract :
The present invention relates to the field of construction materials. The present invention particularly relates to a high strength concrete composition comprising white glass powder as its major constituent. The present invention further discloses that the aforementioned high strength concrete composition demonstrates better results as a mineral admixture in improving the compressive, split tensile & flexural strength of concrete. The aforementioned high grade concrete composition is useful in the construction of water tanks, pre-cast membrane and all type of structural elements known in the art.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/02/2019

(21) Application No.201911006170 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHODS AND SYSTEMS FOR REPAIRING CROSSINGS OF RAILWAY TRACKS

(51) International classification	:E01B 25/02
(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)LOW HEAT METAL BONDS PRIVATE LIMITED
Address of Applicant :A-106 New Friends Colony, New Delhi Delhi India 110025 Delhi India
(72)**Name of Inventor :**
1)ROHIT KHANNA

(57) Abstract :
Methods and systems for repairing crossings of railway tracks are disclosed. In an embodiment, the system (100) may include a LASER sensor (102) configured to obtain data associated with a portion of the crossing of railway tracks. The system (100) may further include a repair controller device (104). The repair controller device (104) may generate a three-dimensional model of a portion of the crossing using the data obtained by the LASER sensor (102), determine a target portion of the crossing at which repairing is required, and an extent of repairing required, generate a sequence of one or more actions to be performed for repairing the identified target portion, and generate a trigger to perform the one or more actions at the identified target portion. The system may include a repairing arm (114) configured to perform the one or more actions at the identified target portion. [To be published with Fig. 1]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2019

(21) Application No.201911014002 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A RAPE PREVENTION DEVICE

(51) International classification	:A61F 5/00	(71)**Name of Applicant :** **1)JAVTESH SINGH** Address of Applicant :OPPOSITE GOVERNMENT COLLEGE, KK ROAD, STREET NO. 2 SHIBZADA FATEH SINGH NAGAR, SRI MUKTSAR SAHIB PINCODE-152026, INDIA Punjab India **2)HARPREET SINGH** **3)HARKIRAT KAUR**
(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	(72)**Name of Inventor :** **1)JAVTESH SINGH** **2)HARPREET SINGH** **3)HARKIRAT KAUR**
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A rape prevention device (100) is disclosed in the form of wearable garment that is comfortable to wear that is in the form of two part garment that includes a shorts section (102) and a belt section (104). The belt section (104) is attached to the short section (102) and a current of negligible voltage is passed through each section using wires (210) or conductive tape (310). The rape prevention (100) also includes a locking mechanism that can only be unlocked by applied certain set of password saved by user only. Moreover, the rape prevention device (100) further includes safety and alert feature like distress call that alerts the concerned persons of the user, when some miscreant forcefully tries to sexual assault or rape a woman. [Figure 1]

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201911014051 A
(19) INDIA
(22) Date of filing of Application :08/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : CONTINUOUS ROLLER GARBAGE COLLECTING MACHINE

(51) International classification	:B65F 1/00	(71)**Name of Applicant :** **1)ADITYA SINGH**
(31) Priority Document No	:NA	Address of Applicant :C-2, SAMADHIYA COLONY,
(32) Priority Date	:NA	LASHKAR, TARAGANJ, GWALIOR MADHYA PRADESH-
(33) Name of priority country	:NA	474001, INDIA Himachal Pradesh India
(86) International Application No	:NA	**2)ANIMESH SAHOO**
Filing Date	:NA	**3)DR. RAJESH KUMAR SHARMA**
(87) International Publication No	: NA	(72)**Name of Inventor :**
(61) Patent of Addition to Application Number	:NA	**1)ADITYA SINGH**
Filing Date	:NA	**2)ANIMESH SAHOO**
(62) Divisional to Application Number	:NA	**3)DR. RAJESH KUMAR SHARMA**
Filing Date	:NA	

(57) Abstract :
As the cleanliness and hygienic environment are the requirements of the people in their daily life, a need has been felt for cleaning different types of garbage in a continuous manner without any intervention, minimum human effort, increased productivity, and with less maintenance. A novel continuous roller garbage collecting machine has been proposed which can satisfy all these requirements. This machine uses 125 cc engine for power transmission to all the components and can be easily used by layman while keeping well equipped safety parameters in mind. The machine can also be easily put to operation in uneven topography without any problem apart from its operation on the plane roads/paths.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2019

(21) Application No.201911014163 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A SOLAR ASSISTED PYROLYSIS CAVITY REACTOR

(51) International classification :F27B7/162
(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)University of Petroleum and Energy Studies
Address of Applicant :Energy Acres, Bidholi, Premnager, Dehradun, Uttarakhand, India-248007 Uttarakhand India
(72)**Name of Inventor :**
1)Dr. Suresh Kumar
2)Dr. Venkateswarlu Chintala
3)Dr. Jitendra K Pandey

(57) Abstract :
The invention relates to a solar assisted cavity reactor. The reactor is a circular fixed bed type with the maximum feedstock capacity of 15 kg/batch. The invention works on the concept that when the solar radiation was focused on to the reactor, temperature of the reactor surface increased drastically by absorbing heat energy due to concentrated solar radiation falling on the surface. The heat energy transferred from the reactor surface to the biomass through conduction heat transfer mechanism and correspondingly the biomass temperature increased significantly. The developed reactor is flexible in such a way that different kinds of carbonaceous feedstocks including biomass and sewage sludge could be feed into it for bio-oil production. According to an embodiment of the invention, Jatropha biomass was used for the bio-oil production.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201911014348 A
(19) INDIA
(22) Date of filing of Application :09/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : A TAMPER EVIDENT RELOCKING MEASURING CAP

(51) International classification :B65D
(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)MRINAL DOVAL
Address of Applicant :Doon Trafalgar Apartments, House C-204, Dhoran Khas, Near IT Park, Dehradun, Uttarakhand - 248001, India. Uttarakhand India
(72)**Name of Inventor :**
1)MRINAL DOVAL

(57) Abstract :
A tamper evident relocking measuring cap is disclosed. The tamper evident cap (4) comprises visible tamper evident portion (10) to indicate tampering or first opening of the cap. The cap can be relocked to bottle after use to close the bottle. Measuring means are provided in the cap (4) for accurate measurement of the liquid within the bottle, wherein relocking of the cap help in keeping the cap attached with the bottle and protect the cap from being misplaced or lost after the first use.

No. of Pages : 40 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2019

(21) Application No.201911014611 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : POWER GENERATORS FOR ELECTRIC & HYBRID VEHICLE

(51) International classification	:B60K 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 :**
1)Amit Pandey
Address of Applicant :M.I.G. 71 Vikas Nagar Vistar, Bargadwa, Gorakhpur Uttar Pradesh India
(72)**Name of Inventor :**
1)Amit Pandey

(57) Abstract :
A method for power generation from wind circulation across the vehicle has been disclosed. A moving vehicle faces high wind pressure from front side and it faces high speed wind circulation on its other sides too. This wind pressure is utilized to generate electrical power with the help of various power extractor devices. The power extractor comprises of wind turbines along with alternators. Wind turbine converts wind pressure to rotating power and alternator converts this rotational power into electrical power. A specific purpose multi-level horizontal and vertical axis wind turbine is placed in front side of vehicle to extract power from front. To extract power from wind passes on the other sides, various turbines having central axis horizontal to exterior surface of vehicle are placed. Proper placing of these turbines is highly intended to extract more power. To enhance electrical capability and mean plug-in time of vehicle, power generated by wind turbines and other onboard generated power are combined together by electronic combiner and collector controller.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201911014753 A
(19) INDIA
(22) Date of filing of Application :12/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : NON-WHOLE NUMBER RATIO FOR DC VOLTAGE SOURCES FOR MINIMUM THD OPERATION OF MULTI-LEVEL INVERTER

(51) International classification	:G05F 1/00
(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

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2)Mohd Tariq
(72)**Name of Inventor :**
1)Kaif Ahmed Lodi
2)Mohd Tariq

(57) Abstract :
An inverter with a control logic for reduction of THD through variable DC link voltage and Switching circuit made up of ACO algorithm.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2019

(21) Application No.201911014800 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DRY GRASS MIXER MACHINE

(51) International classification :F26B17/26
(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)GURDEEP SINGH
3)MAYA DEVI
(72)**Name of Inventor :**
1)DHARAMVIR SINGH
2)GURDEEP SINGH
3)MAYA DEVI

(57) Abstract :
The invention discloses a feeder mixing machine for cattle. The machine comprises a movable cart, a stirring system, a feeding system and a control system. The stirring system is arranged on the upper portion of the movable cart. The feeding system is arranged in the middle of the movable cart. The control system is connected with the stirring system and the feeding system, and used for controlling the stirring system and the feeding system to work. A stirring device and a feeding device are combined, so that evenly-stirred mixed concentrate feed directly enters the feeding system, the sum of labour is reduced, and meanwhile labour efficiency is greatly improved. A feeding motor drives a control baffle to move left and right, therefore, the size of a discharging opening in the bottom of a storage box is precisely controlled, the feed needed by each cow is discharged within a certain discharging time, and waste of the feed is reduced. The mixed concentrate feed stirring and feeding all-in-one machine can also be used in the fields of breeding beefs, pigs and the like and has high practical value.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2018

(21) Application No.201811008822 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : BRAZED TURBULENT SUBSTRATE STRUCTURES

(51) International classification :F01D5/187
(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

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(72)**Name of Inventor :**
1)Alok Trigunayat
2)Jaipal Singh
3)Ritesh Mathur

(57) Abstract :
ABSTRACT A CATALYST SUBSTRATE A catalyst substrate (100) that includes a first foil layer (102) and a second foil layer (104). At least one of the first foil layer and the second foil layer is structured with a pattern (106) of deformations, and at least one of the first foil layer and the second foil layer includes micro-corrugations (108) protruding in perpendicular direction to its surface. The first foil layer and the second foil layer are wound together to create a three dimensional honeycomb structure (110) having passages (112) extending through the length of the honeycomb structure to allow flow of a gas (113) through the honeycomb structure in a longitudinal direction, and the first foil layer and the second foil layer have a plurality of apertures (114) to allow mixing of the gas flowing through the passages in the honeycomb structure. Figure1A

No. of Pages : 30 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201911010430 A
(19) INDIA
(22) Date of filing of Application :18/03/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : AN IMPROVED DIAMOND LIKE CARBON COATED OPENING ROLLERS AND CLOTHING RINGS OF OPEN-END SPINNING MACHINES

(51) International classification :D01H 4/32
(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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(72)**Name of Inventor :**
1)Kishore Khaitan

(57) Abstract :
The present invention relates to an improved diamond-like-carbon (DC) coated opening roller heads and clothing rings enhancing 70% or more of life compared to uncoated products. The DC coating is applied to the products by a plasma enhanced chemical vapour deposition process. Fig.l

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/01/2019
(21) Application No.201911000516 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CORROSION INHIBITING COMPOSITION AND METHOD OF INHIBITING CORROSION OF A METALLIC REINFORCEMENT IN A CONCRETE STRUCTURE

(51) International classification :C23F11/00
(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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(72)**Name of Inventor :**
1)Nishant Kumar
2)Sunil Saharan
3)Moiyeen Ul Majid

(57) Abstract :
The present invention provides a corrosion inhibiting composition. The corrosion inhibiting composition comprises a corrosion inhibitor selected from a group consisting of Neem powder, Zinc powder or a combination thereof. The corrosion inhibiting composition further comprises Linseed Oil as a carrier. Further, a method of inhibiting corrosion of a metallic reinforcement in a concrete structure is provided. Figs. 1(a) and 1(b)

No. of Pages : 38 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/01/2019

(21) Application No.201911001012 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A METHOD OF BIOREMEDIATION OF WASTE WATER RESOURCE(S) BY MICRO-ALGAE

(51) International classification	:C02F3/32
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)RITA SINGH MAJUMDAR
2)SWAKRITI SHRESTHA

(57) Abstract :
The present invention relates to a method of bioremediation of waste water resources. The present invention particularly relates to the meth-od of bioremediation of waste water resources by micro algae. The pre-sent invention further discloses that aforementioned bioremediation method is an effective tertiary treatment of water with significant im-provement in physiochemical parameters such as pH, dissolved oxygen (DO), Biological oxygen Demand (BOD), Chemical Oxygen Demand (COD) and enhanced production of valuable biomass.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/02/2019
(21) Application No.201911004388 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD AND SYSTEM FOR IMAGE VERIFICATION

(51) International classification :G60K
(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)Gagandeep Bhatia
2)Dr. Amit Verma
3)Gagandeep

(57) Abstract :
The present invention relates to a method and system for signature verification, wherein the system comprises of a storage device for storing plurality of signature images to create a database, a processor for extracting features from the images, a display device for displaying results generated by the processor. The method for signature verification comprises the steps of creating a database of authenticated signature images and storing them in the storage device, extracting features from the authenticated images, uploading a query signature image in the storage device, extracting features of the query signature image, comparing the features of the query image with the authenticated image, generating a result indicating similarity/non-similarity of the query image with the database images and displaying the result on the display device.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/01/2019

(21) Application No.201911000366 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A PROSTHETIC DEVICE AND A METHOD OF OPERATING THE SAME

(51) International classification :A61F
(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)Pallavi Gupta

(57) Abstract :
The present invention provides a prosthetic device comprising a first component (200), a second component (400) and a third component (600). The first component (200) has a plurality of first sensors and a control unit. The plurality of first sensors (200) are configured to measure electromyography (EMG) signals to provide an input data and the control unit is configured to convert the input data into an output data and compare the output data with a predetermined data stored in the control unit. The second component (400) has an image capturing equipment configured for sensing an object by capturing images in real-time. The control unit stores data of the captured images and commands the first component, second component, and third component to perform a desired gesture based on the compared output data and the stored data of captured images. Also, a method of operating the device (1000) is provided.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201821006318 A
(19) INDIA
(22) Date of filing of Application :19/02/2018
(43) Publication Date : 10/05/2019

(54) Title of the invention : GRAPHENE BASE SUPERCONDUCTOR PLANAR TRANSFORMER.

(51) International classification	:H01F 27/00 H01F 17/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)Tarun Radadiya

(57) Abstract :
The planar transformer, or inductor, is a low profile device that covers a large area, whereas, the conventional transformer would be more cubical in volume. Planar Magnetics is the new buzz word inthe field of power magnetics. It took a few engineers with the foresight to come up with a way to increase the power density, while at the same time increasing the overall performance, and also, making it costeffective.Graphene is an exciting new atomically-thin two-dimensional (2D) system of carbon atoms organized in a hexagonal lattice structure. This wonder material • . Its rapid rise to popularity in scientific and technological communities can be attributed to a number of its exceptional properties. Graphene base planar transformers are steadily replacing the need for traditional wire-wound transformers in many industries. Electric vehicles, solar inverters, wind power, aviation, healthcare, automobile, aerospace, space application, telecommunication, biomedical and industrial manufacturing are just some of the areas where this technology is gaining ground. While the windings of wire-wound transformers are used with round wire, the planars windings are built by utilizing flat copper layers (PCBs) or plated flat copper windings (lead frames) to create a laminate-style winding construction. The result is a compact, high-power density planar transformer that is typically 85% of the volume and weight of a traditional wire-wound transformer. This size reduction eliminates many of the design constraints associated with wire-wound transformers, and the planar transformers other characteristics offer additional benefits. With a very-low profile, excellent thermal characteristics, high repeatability, and low leakage inductance, planar transformers can easily meet the needs of modern applications. Graphene base planar magnetic devices offer lots of advantages and features over their conventional counterparts. This innovation the magnetic fields within the planar structure and their effects on the distribution of high frequency currents in the windings. Strategies for optimizing planar design are presented.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201821006319 A
(19) INDIA
(22) Date of filing of Application :19/02/2018
(43) Publication Date : 10/05/2019

(54) Title of the invention : MOBILE BASE HUMAN BODY MONITORING SYSTEM

(51) International classification	:A61B 5/00	(71)**Name of Applicant :** **1)Tarun Radadiya** Address of Applicant :Kaival krupa, saguna nagar society, B/H ramji mandir , jalalpore road, jalalpore , Navsari-396445 Gujarat 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 :** **1)Tarun Radadiya**
Filing Date	:NA	
(87) 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 :
Human body is the entire structure of a human being. It is composed of many different types of cells that together create tissues and subsequently organ systems. They ensure homeostasis and the viability of the human body.Health is a difficult state to define, but relates to the self-defined perception of an individual and includes physical, mental, social and cultural factors. The absence or deficit of health is illness which includes disease and injury. Diseases cause symptoms felt, seen or perceived by a person, and signs which may be visible on a medical examination. Illnesses may be from birth (congenital) or arise later in life (acquired). Acquired diseases may be contagious, caused or provoked by lifestyle factors such as smoking, alcohol use and diet, arise as the result of injury or trauma, or have a number of different mechanisms or provoking factors. Lots of reason human body circle around of the disease, human do not get to hospital fitness and body checkup This innovation Mobile base human body monitoring system fully body monitoring in daily routine life.

No. of Pages : 7 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/03/2018

(21) Application No.201721032484 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DEEP BLACK DYE MIXTURES OF FIBER-REACTIVE AZO DYES

(51) International classification	:C09B 67/00
(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

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(72)**Name of Inventor :**
1)Kiri Pravinbhai Amratlal
2)Tandel Girish Hirabhai

(57) Abstract :
Abstract A Composition for Deep Black Dye Mixtures of Fiber-Reactive Azo Dyes The present invention provides a composition for deep black dye mixtures of fiber-reactive azo dyes. More particularly it provides a reactive orange triazo dye when combined with reactive navy disazo dyes and reactive yellow monoazo dyes along with other excipients and antidusting oil to give economical black mixtures with excellent self life and strong tinctorial value that is unattainable with other mixtures of dyes.

No. of Pages : 67 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201821042797 A
(19) INDIA
(22) Date of filing of Application :14/11/2018
(43) Publication Date : 10/05/2019

(54) Title of the invention : ACD-SYSTEM : ANTI CLOGGING DRAINAGE SYSTEM

(51) International classification	:E03F 7/00 E03F 5/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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4)PRITHU JAIN
5)SMRIDHI SETH
6)PROF. DR. BIPLAB KUMAR SARKAR

(57) Abstract :
The field of invention describes the utilization of actuators, sensors and PLC. The Smart Drain Management System is designed to automatically detect the blockage in the entrance of drains and filter out the water entering by flushing out the garbage hence preventing the drains from choking. The system involves the use of two water level sensors, two rotary pneumatic actuators along with two solenoid valves, 1 mesh valve and 2 circular closed valves (valve 1 and valve 2), and a chain sprocket mechanism. The mesh valve and valve 1 are connected by a chain sprocket mechanism and are controlled via rotary pneumatic actuator, and valve 2 is controlled by another pneumatic rotary actuator. Initially the mesh valve and valve 2 are closed and valve 1 is open such that water enters the drain, gets filtered out in the mesh and goes to the main drainage pipe (water takes the straight path) and the garbage gets accumulated at the mesh. SDMS involves the use of 2 water level sensor installed before and after the mesh valve to detect the blockage in the drainage pipe. When both the water level sensors are detecting water, it means blockage hasnt occurred yet but when the water level sensor installed after the mesh valve doesnt detect water it means blockage has occurred due to accumulation of excess garbage such that water cannot pass through the mesh valve. PLC and Arduino get this data from the sensors and then send the signal to the actuators and solenoid valves which opens the mesh valve and valve 2 and closing the vale 1 such that the garbage gets flushed out via the T path. The valves will then return to their initial position after n seconds (depending on the PLC programming). IOT is used to collect data for the purpose of monitoring the frequency of rainfall and water clogging, and also display the location of the unit where blocking has occurred.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/11/2018

(21) Application No.201821043109 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A SYSTEM AND METHOD FOR GENERATING A CONTENT NETWORK

(51) International classification	:G06F 8/00
(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

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(72)**Name of Inventor :**
1)K Narayan Pai

(57) Abstract :
Disclosed is a system for conducting network building assessments to generate a content network. The system comprises of an interface implemented via one or more computer processors that, upon executing computer-executable instructions, causes a user to access the content network and receive content in accordance to one or more features of the content network, wherein the interface includes a user input component to obtain at least two user identifiers from the user. A server that implements the network building assessments for generating the content network, wherein the server is implemented via one or more computer processors that, upon executing computer-executable instructions, causes the server to receive from the user input component the at least two identifiers, wherein the at least two identifiers include a content network identifier and a user identifier. The server assesses the content network identifier to determine whether the content network identifier is one of an existing content network or new content network, wherein the content network identifier is new content network, request a new content network identifier to generate the new content network, accesses the user identifier to determine whether the user is one of a member or a non-member of the content network, wherein when the user is a non-member of the existing content networks, request information from the user, and generate user profile based on the received information from the non-member via the user input component, and generates a content network for display in the interface in accordance to one or more features of the new content network and the generated user profile.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/01/2018

(21) Application No.201821003742 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : GRAPHENE BASE DRUG-ELUTING STENT.

(51) International classification	:A61L 31/00
(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

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(72)**Name of Inventor :**
1)Tarun Radadiya

(57) Abstract :
The Graphene family has captured the interest and the imagination of an increasing number of scientists working in different fields, ranging from composites to flexible electronics. In the area of biomedical application.Graphene is especially involved in drug delivery, bio sensing and tissue engineering, with strong contributions to the whole Nano medicine area. Besides the interesting results obtained so far and the evident success, there are still many problems to solve, on the way to the manufacturing of biomedical devices, including the lack of standardization in the production of the Graphene family members. This innovation discloses a Graphene heart stent manufactured by taking Graphene or a Graphene synthetic material as a raw material.Graphene base Drug-eluting stent use full of Graphene superior mechanical, biomedical and chemical properties.Graphene base Drug-eluting stent is 99.99% efficient compare to the non Graphene base Drug-eluting stent.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/12/2018

(21) Application No.201821050047 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : HERBAL FORMULA CONTAINING COCCULUS HIRSUTUS EXTRACT FOR THE TREATMENT AND MANAGEMENT OF TUBERCULOSIS

(51) International classification	:A61K 36/00 A61K 9/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)Jethva Khushboo Dhirajlal
2)Zaveri Maitreyi Narendrakumar
3)Deshpande Shrikalp Shrikant

(57) Abstract :
The present invention provides a herbal formulation containing Cocculus hirsutus extract for the treatment and management of tuberculosis. This formulation may optionally include herbal extracts of one or both among Long pepper and Adhatoda vasica. This formulation shows, apart from anti-tuberculosis activity, hepatoprotective and immunomodulatory activity thereby benefitting the patient. It shows enhanced bioavailability and there are no chances of development of drug resistance in bacteria while using this formulation. This formulation can be made in different compositions and dosage forms. The herbal formulation of the present invention is highly cost effective with minimal side effects.

No. of Pages : 24 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/12/2018

(21) Application No.201821050056 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : HERBAL FORMULA CONTAINING EULOPHIA NUDA EXTRACT FOR THE TREATMENT AND MANAGEMENT OF BREAST CANCER

(51) International classification	:A61K 36/00 A61K 9/00	(71)**Name of Applicant :** **1)SV INNOVATION FOUNDATION** Address of Applicant :Sarva Vidyalaya Innovation Foundation, Kelvani Mandal, Station Road, Kadi Mehsana 382715, Gujarat, India. Gujarat India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	(72)**Name of Inventor :**
(33) Name of priority country	:NA	**1)Bhatt Dhara Rajendrakumar**
(86) International Application No	:NA	**2)Zaveri Maitreyi Narendrakumar**
Filing Date	:NA	**3)Deshpande Shrikalp Shrikant**
(87) 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 herbal formula containing Eulophia nuda extract for the treatment and management of breast cancer which may optionally include herbal extracts of one, two or all among Curculigo orchioides, Withania somnifera and Curcuma longa. To prepare the required formulation, the herbal extracts are mixed with required additives and preservatives. This formulation can be made in different dosage forms and formulations. This herbal formulation has immunomodulatory, anti-inflammatory, hepatoprotective and nephroprotective activity. The herbal formulation of the present invention is highly cost effective with minimal side effects.

No. of Pages : 28 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201821050059 A
(19) INDIA
(22) Date of filing of Application :31/12/2018
(43) Publication Date : 10/05/2019

(54) Title of the invention : HERBAL FORMULA CONTAINING GYMNOSPORIA MONTANA LEAF EXTRACT FOR THE TREATMENT OF LIVER DISEASES

(51) International classification	:A61K 36/00 A61K 9/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)Zaveri Maitreyi Narendrakumar
3)Deshpande Shrikalp Shrikant

(57) Abstract :
The present invention relates to a herbal formula containing Gymnosporia montana leaf extract for the treatment of liver diseases which may optionally contain one or both among Piperine extracted from the fruits of Long pepper and alcoholic extracts of roots of Oroxylum indicum. This formulation can be used for effective treatment of a number of liver diseases. This formulation can be made in different compositions and dosage forms. Being a herbal formulation, it has minimal side effects and is economical thereby making it affordable. The formulation also possesses antibacterial and antimutagenic activity along with having hepatoprotective and immunomodulatory activity.

No. of Pages : 31 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/03/2019

(21) Application No.201921010813 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : VORTEX TUBE

(51) International classification	:F25B 9/00
(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

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4)Chetan Kishor Tembhurkar
5)Sagar B. Jawalekar
6)Nilesh Rameshrao Pathare
7)S. S. Deshpande

(57) Abstract :
The present invention relates to vortex tube which precisely splits a compressed gas stream into a cold and hot stream without any chemical reactions or external energy supply. In the presented invention the design of vortex tube comprises of cold end, cold end orifice diameter cap, hot end and inline conical valve. Also materials required for the manufacturing are billet of dia. 40mm (S.S. 304), 20mm (S.S 304) and 35mm (Brass). Following invention is described in detail with the help of Figure 1 of sheet 1 showing the vortex tube and Figure 2 of sheet 1 showing the cold end, Figure 3 of sheet 2 showing vortex generator, Figure 4 of sheet 2 showing hot end sleeve, Figure 5 of sheet 3 showing conical valve and Figure 6 of sheet 3 shows hot end.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921011205 A
(19) INDIA
(22) Date of filing of Application :22/03/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : BI- FLAP RETRACTOR

(51) International classification	:A61B 17/00 A61C 5/00
(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

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2)Dr. Bhimappa Mallappa Rudagi
(72)**Name of Inventor :**
1)Dr. Mohammad Ahmad Mohammad Farooque Ansari
2)Dr. Bhimappa Mallappa Rudagi

(57) Abstract :
Present invention relates to bi-flap retractor. It is a stainless steel retractor which comprises of a handle and two arms i.e. buccal and lingual arm and connected by spring hinge joint. In the invention both the buccal and lingual mucoperiosteal flaps can be retracted simultaneously with one instrument and only one hand is engaged in retraction, and also provides adequate accessibility for performing the surgery. Hence, it does not require extra hand and instrument for retraction of lingual flap. Protection of lingual nerve and adjacent structures, prevention of interference of tongue, prevention of fracture of lingual cortical plate is achieved. It offers the advantages of effectiveness and simplicity and its dimensions seem to be appropriate for all patients. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the schematic view of bi-flap retractor.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921011206 A
(19) INDIA
(22) Date of filing of Application :22/03/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : FLY ASH AND RICE HUSK ASH TRIPLE BLEND CONCRETE

(51) International classification	:C04B 28/00 C04B 18/00	(71)**Name of Applicant :** **1)Vishvanath Nandkumar Kanthe** Address of Applicant :National Institute of Technology, GE Road, Raipur, Chhattisgarh, India Maharashtra India
(31) Priority Document No	:NA	**2)Shirish Vinayak Deo**
(32) Priority Date	:NA	**3)Meena Murmu**
(33) Name of priority country	:NA	(72)**Name of Inventor :**
(86) International Application No	:NA	**1)Vishvanath Nandkumar Kanthe**
Filing Date	:NA	**2)Shirish Vinayak Deo**
(87) International Publication No	: NA	**3)Meena Murmu**
(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 making fly ash and rice husk ash triple blend concrete. The object of the proposed method is to use fly ash and rice husk ash along with ordinary Portland cement for making triple blend concrete which enhances the workability, strength and durability of concrete. A composition of triple blend concrete mix consist of 10 weight percent rice husk ash constant for all mix and 10, 20 and 30 weight percent fly ash variation along with partial replacement of ordinary Portland cement. Therefore the presented triple blend concrete is use to achieve the dense particle packing in concrete matrix. Following invention is described in detail with the help of Figure 1 of sheet 1 showing a flow chart to produce fly ash and rice husk ash along with ordinary Portland cement triple blend concrete.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921011339 A
(19) INDIA
(22) Date of filing of Application :23/03/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : NON-INVASIVE MULTIPOINT TARGET PELVIC FLOOR MUSCLE EXERCISER.

(51) International classification	:A63B 21/00 A63B 23/00
(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

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(72)**Name of Inventor :**
1)Het Desai

(57) Abstract :
Abstract Our invention titled:- Non Invasive multipoint target Pelvic Floor Muscle Exerciser includes an Motor(1), Handle(2), Rod(3), Shaft(4), Bearing(5), Fulcrum(6), Coupler(7), Target actuator(8 & 9) for providing an intense localized vibratory activation, is not a medical device. It uses vibration targeted to specific surface area that covers non-invasive vibratory activation of a specific area of muscles. Pelvic Floor Muscle Exerciser is specially designed to provide pelvic floor rehab. Pelvic floor muscle activator, and biofeedback device designed scientifically to provide neuromuscular re-education through visual guidance, auditory signals and tactile biofeedback to help to take care of pelvic floor muscle dysfunction in male, female and children to improve Pelvic floor dysfunctions (by building strength, endurance, hypertrophy, power, control and flexibility). Users can choose from inbuilt programs or can create customized target activation of pelvic floor depending on the clinical needs.

No. of Pages : 30 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921012170 A
(19) INDIA
(22) Date of filing of Application :28/03/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : 'ADVANCED RAIN-GUN

(51) International classification	:B05B 3/00 B05B 15/00
(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

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3)NIKHIL RAJENDRA KAMBLE
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6)SHUBHAM WASUDEORAO BOKADE
7)SWAPNIL PRABHAKAR INGOLE
8)VAIBHAV LILADHAR BHENDARE

(57) Abstract :
7. ABSTRACT OF THE INVENTION There are various types of irrigation system; everyone has their advantage and limitation as well. Various inventions and innovations are made in this field since man had learnt to be civilized. There are various methods of the irrigation. Modern sprinklers and Rain-gun are now-a-days in most common use due to its ease of usability and time-efficiency. Sprinklers irrigate the field by spraying the water radially but its disadvantage lies in the distance coverage while Rain-gun sprays the water to maximum limit but its high pressure leads to the soil erosion and damage to the crops. Various efforts were made and are being made in this field. The proposed design of the Advanced Rain-gun aims at increasing the maximum radial distance without causing much damage to the crops and to the field. The height adjusting mechanism provided can be used to deal with the range variation by varying it according to the need of the field, crops and the environment as well. An additional Spear-head provided within the main body of the Rain-gun may also be used for adjusting the range and the flow regulation of the water flowing through it. Thus eliminating the use of various set of nozzles for different varieties, nature and height of the crops.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/03/2019

(21) Application No.201921012196 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : NOVEL TESTING KIT FOR AUTOMATIC POWER FACTOR CORRECTION (APFC) RELAY

(51) International classification	:H02J 3/00 H02M 1/00
(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

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(57) Abstract :
Abstract This paper is based on manufacturing of novel testing kit for APFC relay. APFC relay is mainly focused because almost all the industrial and commercial consumers to reduce the monthly electricity bill by automatically controlling the power factor and maintaining it around unity use it. If power factor is maintained at its ideal value i.e. unity then reactive power consumed by the load will be zero. Each capacitor of a capacitor bank, which is generally used for power factor improvement, is connected to the APFC relay. APFC relay measures the load power factor compares it with target power factor and switches ON the capacitors of capacitor bank to correct the power factor. The target power factor is the value of power factor set by the consumer or manufacturer at which he wants to maintain the load power factor. It automatically switches ON and off the capacitor to avoid over compensation. Novel testing kit tested the relay using only two phases with purely resistive load. In purely resistive load the voltage and current of each phase is in phase with each other. Hence to provide phase shift between voltage and current one of the phase currents is reversed. By doing so the phase shift 60° is obtained. In existing testing kits, this phase shift is obtained by providing purely inductive load. The reactive power consumed by this load is very high during testing which results in high power loss. This problem was overcome in novel testing kit, which tested the relay with purely resistive load. At full load relay under test switched on all the capacitors to reach its target power factor i.e. unity. Thus using novel testing kit each stage of relay operation is tested. Keywords APFC; Novel; Existing testing kit; Resistive toad; Voltage coil; Current coil; Testing; Phase Angle.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/03/2019

(21) Application No.201921012980 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A METHOD OF PRODUCTION AND STORAGE OF TAMARIND FRUIT PULP

(51) International classification	:A23L 21/18 A23B 4/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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5)Dr. R. D. Sathbhai
6)Dr. S. B. Lande
7)Dr. R. S. Gaikwad
8)Dr. S. A. Ranipise
9)Dr. U. D. Chawan

(57) Abstract :
The invention describes a method of production and storage of Tamarind fruit pulp. The method described in this invention uses least amount of preservative and follows technological steps as selection of fruits; boiling of fruits in hot water; extraction of pulp with the help of brush type pulp extractor wherein seeds are separated mechanically; boiling of pulp; addition of preservative; pasteurization glass bottles followed by filling of boiled tamarind pulp in pasteurized glass bottles by hot filling method and sealing with pasteurized crown cork and pasteurizing of sealed bottles which significantly reduces chances of contamination.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921012981 A
(19) INDIA
(22) Date of filing of Application :31/03/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : PHULE NANKATAI COOKIES AND PROCESS FOR PREPARATION THEREOF

(51) International classification	:A21D 13/00 A21D 2/00	(71)**Name of Applicant :** **1)Mahatma Phule Krishi Vidyapeeth,(MPKV), Rahuri.** Address of Applicant :Director of Research, Mahatma Phule Krishi Vidyapeeth,(MPKV), Manmad Rd, Rahuri, Ahmednagar, Maharashtra 413722 Maharashtra India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	(72)**Name of Inventor :**
(33) Name of priority country	:NA	**1)Dr. U. D. Chavan**
(86) International Application No	:NA	**2)Dr. P. M. Kotecha**
Filing Date	:NA	**3)Dr. S. B. Lande**
(87) 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 :
Phule Nankatai Cookies and Process for preparation thereof, overcomes the side effects of traditional cookies and biscuits arose due to high gluten contents present therein. The invention provides efficient, time saving and cost effective method for preparation low gluten cookies. Refined Wheat Flour(maida) having low gluten content, Fat (vanaspati ghee), Sugar, Water, Ammonium bicarbonate and Sodium bicarbonate etc. are the main embodiments used in present invention. These cookies have shown good Sensory qualities like colour, flavour, taste, texture and crust etc. Steps for preparation for said cookies include steps of: Making super fine mixture of fat and suger, Adding Refined Wheat Flour having gluten 18 to 20 % wet gluten contents , Sodium bicarbonate, and ammonium bicarbonate and water, Dough making, Sheeting, Cutting/making rounds with hands or using circular die, Baking (180-200°C, for 15 min), Cooling and packaging, Storage etc

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/03/2019

(21) Application No.201921012982 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A METHOD OF PRODUCTION AND STORAGE OF INDIAN GOOSEBERRY (AONLA) FRUIT PULP

(51) International classification	:A23L 2/00
(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

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9)Dr. U. D. Chawan

(57) Abstract :
The invention describes a method of production and storage of Aonla fruit pulp. The method described in this invention uses least amount of preservative and follows technological steps as washing of fruits, blanching in boiling water, separation of fruit pulp from kernel using brush type pulper, boiling and filling the pulp in pasteurized glass bottles by hot filling method, sealing of pulp bottle with pasteurized crown cork and pasteurizing of sealed bottles which significantly reduces chances of contamination.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921012983 A
(19) INDIA
(22) Date of filing of Application :31/03/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : READY TO SERVE BEVERAGE OF AONLA (INDIAN GOOSEBERRY)FRUIT AND A METHOD OF PRODUCTION THEREOF

(51) International classification	:A23L 2/00 A23B 7/00
(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

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8)Dr. S. A. Ranpise
9)Dr. U. D. Chawan

(57) Abstract :
The invention describes a method of production and storage of Aonla ready to serve beverage with natural flavoring agent. The method described in this invention uses least amount of preservative and follows hot filling method for storing the pulp in pasteurized glass bottles and sealing the same pasteurized cork crown which significantly reduces chances of contamination.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/03/2019

(21) Application No.201921012984 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : READY TO SERVE BEVERAGE OF MANGO AND A METHOD OF PRODUCTION THEREOF

(51) International classification	:A23L 2/00 A23C 21/00 A23L 33/00	(71)**Name of Applicant :** **1)Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri** Address of Applicant :Director of Research, Mahatma Phule Krishi Vidyapeeth (MPKV), Manmad Rd, Rahuri, Ahmednagar Maharashtra: 413722 Maharashtra India (72)**Name of Inventor :**
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(33) Name of priority country	:NA	**3)Dr. S. D. Masalkar**
(86) International Application No	:NA	**4)Dr. V. P. Kad**
Filing Date	:NA	**5)Dr. R. D. Sathbhai**
(87) International Publication No	: NA	**6)Dr. S. B. Lande**
(61) Patent of Addition to Application Number	:NA	**7)Dr. R. S. Gaikwad**
Filing Date	:NA	**8)Dr. S. A. Ranpise**
(62) Divisional to Application Number	:NA	**9)Dr. U. D. Chavan**
Filing Date	:NA	

(57) Abstract :
A method of production and storage of ready to serve beverage of Mango (Mangifera indica L) is described herein. The said method uses least amount of preservative and follows hot filling method for storing the ready to serve mango beverage in pasteurized glass bottles and sealing the same pasteurized cork crown which significantly reduces chances of contamination. No artificial flavoring agents are used in this method. The beverage prepared in accordance with present invention is very tasty, nutritious and energizing drink.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/03/2019

(21) Application No.201921012985 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PHULE PVC PADDY TRANSPLANTING MARKER

(51) International classification	:A23L 19/00 A23L 17/00 A23L 33/00	(71)**Name of Applicant :** **1)Mahtma Phule Krishi Vidyapeeth(MPKV), Rahuri** Address of Applicant :Director of Research, Mahatma Phule Krishi Vidyapeeth (MPKV), Manmad Rd, Rahuri, Ahmednagar Maharashtra: 413722 Maharashtra India
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(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
Phule PVC Paddy Transplanting Marker is cost effective and time saving precision farming tool comprising main frame (4) of 1.20 m x 0.40 m size; and this tool is used for manual paddy transplantation through effective implementation of four point technology by maintaining prescribed plant population(transplanting at 15 cm X 25 cm spacing). This frame makes compulsory transplanting at space and use of briquette technology, which enables to increase the production and productivity of Rice. This technology implies for improving the FUE, Reduction of labour cost, Reduce the seed rate. Three PVC pipes(1) of length 1.2 m and two PVC pipes(1) of length 0.4 m, four elbows(2) and two T joints(3) are used to form Main Frame(4). This frame is suitable from single to many labours. The use of this frame will enable the in national goal of food security as well as pollution control and climate change effects.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921012986 A
(19) INDIA
(22) Date of filing of Application :31/03/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : TAMARIND READY TO SERVE BEVERAGE AND METHOD OF PRODUCTION THEREOF

(51) International classification	:A23G 3/00 A23L 2/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The invention describes a method of production of ready to serve beverage of tamarind. The ready to serve (RTS) beverage of tamarind is prepared with tamarind pulp (12%) while maintaining total soluble solids (TSS) as 140Brix with 0.4% acidity and flavored with cumin powder (0.15%) and salt (0.20%).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/03/2019

(21) Application No.201921012988 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PROCESS FOR PREPARATION AND STORAGE OF RAW MANGO PULP

(51) International classification	:A23L 19/00 A23L 17/00 A23L 33/00	(71)**Name of Applicant :** **1)Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri.** Address of Applicant :: Director of Research, Mahatma Phule Krishi Vidyapeeth, Manmad Rd, Rahuri, Ahmednagar Maharashtra 413722 Maharashtra India (72)**Name of Inventor :** **1)Dr. V. K. Garande** **2)S. N. Ambad** **3)Dr. U. S. Shinde** **4)Dr. G. G. Khot** **5)Dr. S. S. Dhumal**
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
The process for preparation and storage of raw mango pulp has a great significance in the field of food processing. The shelf life of the raw mango pulp prepared in accordance with present invention is one year at ambient temperature. This pulp can be used for preparation of Raw Mango Drink (Panhe) as and when required and as per the standard procedures for Panhe making. The main steps are: Selection of fruits which are dropped during strong winds and storms which can cause the loss to the growers. Blanching of raw mango, Sorting, Removing stone and collecting pulp with the help of hand, Mixing the water in pulp with 1:1 ratio, Grinding, Pasteurizing the pulp for 15-20 minutes at 800C. Use of sodium benzoate and hot filling process are the essential steps for better retention of quality and shelf life of the product at ambient temperature.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921012989 A
(19) INDIA
(22) Date of filing of Application :31/03/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : A READY TO EAT SPICED PANEER AND PROCESS THEREOF

(51) International classification	:A23L 19/00 A23L 17/00 A23L 33/00	(71)**Name of Applicant :** **1)Mahatma Phule Rahuri Krishi Vidyapeeth, (MPKV) Rahuri** Address of Applicant :Director of Research, Mahatma Phule Rahuri Krishi Vidyapeeth Manmad Road, Rahuri, Ahmednagar, Maharashtra 413 722 Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Dr. Dhiraj Hiraman Kankhare**
(33) Name of priority country	:NA	**2)Ms. Komal Dahiphale**
(86) International Application No	:NA	**3)Dr. Somnath Hanumant Mane**
Filing Date	:NA	
(87) 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 ready to eat spiced paneer and process thereof includes, enhancement in the raw taste of paneer by addition of spices and peppermint paste. The process involves the steps like standardization of cow milk, heating followed by filtration, further heating of milk for another 10 minutes. The spice mixture and peppermint paste are added in the heated milk. After coagulation whey is drained off and coagulant is pressed for 30-40 minutes. The paneer is further hardened before cutting into pieces. Such ready to eat spiced paneer is the healthy and tasty alternative for health conscious people over fried and preservatives added snacks available in market

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/03/2019
(21) Application No.201921012207 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A SYSTEM AND METHOD FOR GENERATING AN AUDIO-VISUAL

(51) International classification	:G06F 17/00
(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

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(57) Abstract :
A system for and a method for generating an audio-visual is provided. The system includes an extraction module to extract an input from a source. An identification module to identify a language in the input using a language identifier, identify entities from the input using an entity extractor and identify emotions associated with identified entities using an emotional analyser. A summarization module to summarize identified data using natural language processing based approach. A database to store the identified data and summarized identified data, and store reference data. A generation module to generate graphical representations of the identified entities from the identified data, summarized identified data and the reference data using a generative adversarial network based approach and also generate pieces of music using the identified data, the summarized identified data and the reference data. A compiling module to generate an audio-visual based on generated data using a visualization tree. FIG. 1

No. of Pages : 33 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/03/2019

(21) Application No.201921012426 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : THUMB IMPRESSION WITH UID VERIFICATION BASED METHOD FOR PREVENTING VEHICLE THEFT

(51) International classification	:G06F 21/00 G06K 9/00
(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

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4)Mr. Nehulkar Tanmay Suresh
5)Miss. Arote Rutuja Bhagavat

(57) Abstract :
The present invention generally relates to automobile sector and security system of the automobile and in particularly relates to protecting vehicle from a thief. A method and system for preventing vehicle theft based Thumb Impression with UID verification is provided. The method includes the steps of: receiving a biometric input for accessing ignition of a vehicle, said biometric input being a Thumb Impression; detecting said biometric input; comparing said biometric input with a pre-stored biometric input of the authorized owner of the vehicle; generating an alert if said biometric input does not match with a pre-stored biometric input of the authorized owner of the vehicle; capturing details of mismatching biometric input for future police records; and transmitting details of mismatched biometric input to a monitoring server.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/03/2019

(21) Application No.201921012480 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : IOT BASED SMART HELMET

(51) International classification	:G08B 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	:NA

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6)Ms. Pooja Sonawane

(57) Abstract :
Present invention relates to an IoT based smart helmet. The main object of the proposed invention is to provide a low cost and secure smart helmet. Wherein the proposed invention comprises of Wi-Fi enabled processor, some integrated network of sensors are being used to design the smart helmet for engine control system, inbuilt Bluetooth system, accident alert system, alcohol detection, over speed or rash driving alert on control. The proposed system is very helpful in case of women safety. It provides safer drive by monitoring the drowsiness of the driver and reduces the speed of the vehicle. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the proposed IoT based smart helmet.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921012481 A
(19) INDIA
(22) Date of filing of Application :29/03/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : HYBRID DRAFT BIOMASS COOK STOVE

(51) International classification	:F24B 1/00 F24B 5/00	(71)**Name of Applicant :** **1)Milind Prakash Kshirsagar** Address of Applicant :Assistant professor, Department of Mechanical engineering, St. Vincent Pallotti College of Engineering and Technology, Gavasi Manapur, Wardha road, Ashokwan, Nagpur - 441108. Maharashtra India **2)Dr. Vilas Ramdas Kalamakar**
(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)Milind Prakash Kshirsagar**
(87) International Publication No	: NA	**2)Dr. Vilas Ramdas Kalamakar**
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
Present invention relates to a hybrid draft biomass cook stove. The object of the proposed invention is to provide a reduction in CO and PM emissions in solid fuel combustion biomass cook stove by application of hybrid draft. The present invention provides a safe cooking experience to the user in terms of Tier 4 level exhaust emissions, while ensuring overall efficiency greater than 25%. The invention applies tangentially injected forced secondary air and optimized primary air for improving the performance of the stove. The present invention help to provide an energy and emissions efficient hybrid draft biomass cook stove. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the dimensions of the proposed hybrid draft biomass cook stove.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/04/2019

(21) Application No.201921013503 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AIRFOIL FLAPS FOR HEADGEAR

(51) International classification	:F22B 11/00
(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

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(57) Abstract :
The invention relates to an accessory or built in airfoil flaps for headgears. More particularly, the invention relates to airfoil flaps for headgears, for generating high lift force at the time of driving for compensating dead weight of headgear. While riding the pressure of the wind causes pushing of the head gear thus, the neck can become mechanically stressed beyond what it can bear. Each airfoil flap produce 25 to 35 gram lift force which encounters the dead weight of the helmet, and wherein the curvature and geometry of the airfoil NACA 63 series standards, having a thickness of 10%, camber value of 0.0%, trailing edge angle of 12.50 lower flatness of 7.0%, leading edge radius of 2.0% and an efficiency of 32.3.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/04/2019

(21) Application No.201921013767 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A METHOD AND APPRATUS OF SAFETY FOR DRIVER

(51) International classification	:G08B 25/00 G06Q 40/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
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(57) Abstract :
A method and apparatus for safety of driver is consisting a smart device. Smart device is consists an application. This present invention is disclose the real time accident detection and inform to nearest hospitals, police station, insurance company and any family person via application based generated SOS message via use of GPS and GSM and GPRS system. Also the invention is rejected incoming calls while vehicle speed is more than 20 km/hr due to GPS system tracking and accelerometer. Also the rejected calls are displays in whitelist of application. Also any persons dial number more than three times, automatically this number transfer in emergency contact list in the application.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/04/2019
(21) Application No.201921013770 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A NOVEL METHODOLOGY TO PREPARE SUSTAINABLE AND VERSATILE ACTIVATED CARBON FROM WASTE BIOMASS FOR QUICK, CONTINOUS AND PRESSURE FILTRATION TECHNOLOGY

(51) International classification	:B01D 53/00 B01J 20/00
(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

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(57) Abstract :
This work has emphasis on purification of water within a short period of time (5 min). In particularly, it had been reviews the novelty, creation and the designing in the water technology via high pressure filtration experiment. Now, in industrial areas it is a global need to develop such type technology. The aim of our work is to introduce a simple, low cost and sustainable water technology, which purify the water in a veiy shortest possible time. It has built on principle of adsorption process. Here, we utilize activated carbon as an adsorbent material which is derived from Waste Tea Residue (WTR). In this work, 10 mg.L-1 Methylene Blue (MB) had successfully removed from MB contaminated wastewater in the shortest purification time (5 min). Result from Scanning Electron Microscopy (SEM), Brunauer-Emmett-Teller (BET), Fourier-transform infrared (FTIR) spectroscopy, X-ray Photoelectron Spectroscopy (XPS), and Raman characterization techniques confirm the successful synthesis of WTRAC. In the present report, near about 120.13 mg.g-1 of methylene blue (MB) dye was removed from aqueous solution by using Waste tea residue activated carbon (WTRAC). More importantly, the model experimental work (video 1) confirms the successful designing and construction of our developed filter. This can be removed the variety pollutants in the same way. Thus, an excellent removal efficiency and low cost construction site strongly recommended that the developed filter is a good water purifier in upcoming days. Also it can may used on large scale water purifier in industries in critical conditions.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/04/2019

(21) Application No.201921013077 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ELECTRONIC DEVICE FOR PREVENTING COLLISION OF VEHICLES IN LOW VISIBILITY SITUATION

(51) International classification	:G08G 1/00 G05D 1/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)DR. A S UMESH
3)ASHISH CHATURVEDI
4)PRASHANT KUMAR SHRIVASTAVA

(57) Abstract :
The present invention is also related to intelligent highway safety systems. It presents an electronic device for preventing collision of vehicles in low visibility situation more preferably for the fog conditions. It present an intelligent sensing and control electronic device placed in front of the vehicle for avoidance of the collision. Ultrasound sensors and central processing and transmitting unit is used to avoidance, sense and control the vehicle with information exchange to the central unit. It discloses ultrasound sensors based electronic vehicle control system.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/04/2019

(21) Application No.201921013190 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : HOCA (HOTELS AND CAFE): A FOOD ORDERING SYSTEM BASED ON QUICK RESPONSE CODES

(51) International classification	:G06Q 10/00 G06Q 50/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
A system for food ordering using quick response codes (QR codes) for restaurants, hotels, cafeterias or canteens is invented in this invention named as HOCA (Hotels and Caf). It comprises a process and a model to order food within organization or within hotels and restaurants. The invented system, comprising process and models, for ordering food using QR codes is implemented as mobile and web based applications. In most of the government or private organizations, schools, and colleges the food ordered from outside is not allowed. The delivery person is not allowed in the campus. The employees, staff, or faculty can directly visit the canteens or cafeteria within the campus for enjoying their food or they can make a call to ask for the available food items. It may possible after visit to canteen the food they need is not available. When they make a call it may possible canteen person doesn™t receive their call. In this invention a system, comprising process and models, is invented which allows working people of the organizations to order the food from their workplace canteen or cafeteria that can be delivered at their desk or table itself. Using the invented system staff, employees, faculty or all entities within organization can explore the available food items at their organization™s canteen selects their favorite food items, orders it and then the ordered food items are delivered at their workplace desk or table. In hotels or restaurants if there is crowd of customers then waiter or the person who is taking orders may not be able to give proper attention to all the customers. Hotels use pages for writing customer™s food orders which causes wastage of natural resources. Hotel owners hire people to maintain the record of ordered food. Hotels use traditional way in which waiter continuously have to ask the customers to order the food which is irritating and annoying for the customers. To overcome this issue, this invented system is very useful. Even it has been observed that when customers orders the food from their hotel rooms, hotel manager who is taking order doesn™t know which food items are available or sometimes manager forgets the taken order. The invented system, models and process can be used within hotels and restaurants where the customers can explore available food items on the menus which are regularly updated. Customers can order the required food items which are then delivered on their table or at their hotel rooms. The customers, employees, staff, etc. can also provide the review or feedback of the ordered food items and canteens, cafeterias, restaurants or hotels from where they ordered the food. The canteens, cafeterias, restaurants or hotels owners can access the daily reports or reports for specific durations selected by them to track the overall sell of food items. Even the customers can view their order history.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/04/2019

(21) Application No.201921013814 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM FOR IDENTIFICATION OF INDIAN CLASSICAL MUSICAL INSTRUMENT SOUNDS USING AUDIO DESCRIPTORS.

(51) International classification	:G06K 9/00
(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

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(57) Abstract :
The proposed system will be designed to overcome the shortfalls /gaps of the currently available systems. For the system to be developed, the problem statement is Recognition Technique for Identification of Indian Classical Musical Instrument Sounds using Audio Descriptors. In this system, an audio sample of musical instrument is taken as input (either in .wav, .mpeg or etc.) to the system. Then different features are extracted using audio descriptors. Then the extracted features are classified using Audio Descriptors. Different classification techniques are statistical synthesis, machine learning, supervised learning, and unsupervised learning. By using proper classification techniques, Musical Instrument from North Indian Classical Music will be identified. Proposed System deals with three steps viz, Pre-processing of musical instruments sound samples, Extraction of audio features from sound samples and Classification. In feature extraction technique FT, STFT, LPC, PLP, MFCC, MIR toolbox & audio descriptors (such as attack time, ZCR, Roll off, Brightness, Roughness, Irregularity) are adopted for accurate recognition. Similarly the Classifiers such as - K-means, KNN, GMM, HMM, Neural Network are used for supervised and unsupervised leaning.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/04/2019

(21) Application No.201921013820 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM AND METHOD FOR SPEAKER IDENTIFICATION USING GEOGRAPHICAL REGION LANGUAGE.

(51) International classification	:G10L 17/00 G10L 25/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)MR. AJAY N PAITHANE

(57) Abstract :
: In this system and method for speaker identification using Geographical region language to develop this system the primary challenge ahead in developing a technique for geographical region language identification of a speaker is to accomplish remarkable recognition accuracy. Hence, the primary objectives of this idea are to construct a speech database of speakers of different geographical regions. Once the database is developed the next step will be to extract features of the speech signals using feature extraction technique and compare the features for the classification of the features various classifiers are available but the most promising classifier like SVM has to be used to classify the appropriate features using classification technique and investigate the performance. To design and develop a geographical region language identification technique for a speaker and to achieve a better tradeoff between the precision and the complexity of the identification technique for a speaker a sophisticate algorithm is required so in our system we have decided to develop one algorithm for full proof system.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/04/2019

(21) Application No.201921013824 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM AND METHOD FOR BRAIN ACTIVITY EPILEPSY IDENTIFICATION USING FMRI AND EEG.

(51) International classification	:A61B 5/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(72)**Name of Inventor :**
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2)DR. D.M.YADAV

(57) Abstract :
Functional magnetic resonance imaging (tMRl) is one of the mean source of analyzing brain activity in medical science. The representation has a benefit of illustrating the brain activity in visual representation and signal variation in EEG representation. It is used in detection of various human brain disorderusing signal processing analysis. In the analysis of the fMRI, EEG-fMRI are used as a input details and a detail analysis gives the brain activity for analysis to the neurologist. The automation of the EEG analysis has given the advantage of cost effective and time saving implementation of early disorder. The accuracy of these automated systems are however constraints with the artifacts and the misinterpretation of brain activity under analysis. A erroneous analysis of the recorded signal gives a inaccurate decision leading to false diagnosis. It is hence needed to develop a high precision approach for EEG-fMRI analysis tool to overcome the distortional effects with faster computing. In this paper, a new coding for the EEG-fMRI is proposed, where the brain activity is integrated with the EEG coding for developing a new feature representation of EEG-fMRI signal. The proposed approach is evaluated for an analysis of epileptic disorder.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/04/2019

(21) Application No.201921015099 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : EXTERNAL PROCESSOR BASED DELTA ROBOT SYSTEM.

(51) International classification	:G05B 19/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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5)Innovative Solutions
6)Kishor Uttam Uppalwad
7)Akash Anil Shinde
8)Shweta Madhukar Bansode
9)Akshata Manojkumar Jadhav
10)Ujwal Ramesh Shirode
(72)**Name of Inventor :**
1)Innovative Solutions

(57) Abstract :
In this invention we are developing a delta robot without propriety robot controller by integrating standard factory automation products. We have eliminated the need of a complete robot controller by using PLC (49), Motion module (48), Servo Motor with gearbox (41), Servo Drive (47) and an ARM based External Processor (52). This facilitates in reducing the overall cost of the system and better scope for developing customized solutions. We have used ARM based External Processor (52) to compute the kinematics and send corresponding data to PLC (49)for implementing the required motion. Using a PLC (49) in the system offers us a versatile option of on field connectivity and integrating field input and outputs with the system to minimize the system delays. The input co-ordinates are stored in the memory of PLC, this data is read by the processor. The External Processor (52) then computes the angles and writes the angle to the memory of PLC (49). Then the PLC (49) and the motion module (48) does the interpolation and gives the final commands to servo amplifier and finally servo motors with gearbox (41) are driven and motion is implemented. The External Processor (52) is programmed to compute forward and inverse kinematics. The External Processor (52) can also trace profiles and loci of a few common shapes without the need of additional hardware and software. The system makes use of Ethernet based communication protocols to exchange data in network. The used low power motors i.e. 400W servo motors for each axis along with a precision gearbox of reduction ratio 1:10. The servo motors have electromagnetic brakes to avoid accident in case of power failure and have absolute encoder system to store encoder pulses.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921015102 A
(19) INDIA
(22) Date of filing of Application :15/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : HANGING CAR MECHANISM.

(51) International classification	:B60T 17/00 B64F 1/00	(71)**Name of Applicant :** **1)KHACHANE CHIRAG RAJENDRA** Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING, SECTOR 26, PRADHIKARAN NIGDI, PUNE-411 044, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)KHACHANE CHIRAG RAJENDRA**
(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 safety system for passengers travelling in a car/vehicle (having four wheels or more) using a rope gun. The given system will contain two rope guns installed in the rear part of the chassis of the car/vehicle (having four wheels or more). This system will activate either manually or automatically when the car detects a free fall. When the system is activated it will launch the rope guns installed in the chassis towards a steady detected object which will be able to hold the weight of the car. The car will stay hanging until a rescue team arrives. This system may also be used in case of brake failure to stop the car/vehicle (having four wheels or more).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/04/2019

(21) Application No.201921015107 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : LOAD APPLICATION SYSTEM FOR DIFFERENT CONFIGURATION OF MULTIPLE FOOTINGS

(51) International classification	:G01R 31/00 G01N 3/00
(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

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2)Dr. Sunil Shaligram Pusadkar
(72)**Name of Inventor :**
1)Mr. Sachin Satishchandra Saraf
2)Dr. Sunil Shaligram Pusadkar

(57) Abstract :
Present invention relates to a load application system for model plate load test on different configuration of multiple footings. The main objective is to provide system for laboratory model plate load test on which the bearing capacity of RSF in presences of multiple footings (three and four) can be determined for different placement patterns. In this system, it is possible to place the three and four footings in series, triangular and square arrangement; possible to place the three and four footings at varying center to center distances between them; also possible to apply simultaneous load to three and four footings; and possible to determine bearing capacity of footing in presences of multiple footings (three and four footing).Following invention is described in detail with the help of Figure 1 of sheet 1 showing simultaneous load application system for laboratory model plate load test.

No. of Pages : 23 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2019

(21) Application No.201921014049 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A METHOD FOR GENERATING STEGANOGRAMS ON CONCENTRIC IMAGES BY CONSTRUCTION (SCIC)

(51) International classification	:G06T 11/00 G06T 1/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)MRS. SINDHU PALONNATH MANA

(57) Abstract :
This invention provides a method for Generating Steganograms on Concentric Images by Construction (SCIC). Methods for construction of concentric images are proposed here. The incircle and circum-circle of diverse geometric patterns are the basis of the concentric image construction. The image construction is the mode of embedding the message in it. No changes are made to an existing image in its color or least significant bit, this method constructs a new image based on the message. The new image looks like a traditional drawing, and the key for decoding is the predefined map.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921014050 A
(19) INDIA
(22) Date of filing of Application :08/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : A METHOD FOR GENERATING STEGANOGRAMS ON CONCENTRIC IMAGES BY PAINTING (SCIP)

(51) International classification	:G06T 11/00 G06T 1/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)DR. AMBUJA SALGAONKAR
2)MRS. SINDHU PALONNATH MANA

(57) Abstract :
This invention provides a method for an improved method for Generating Steganograms on Concentric Images by Painting (SCIP). In this method takes concentric images, though any image could be selected for creation of steganograms. The message to be hidden is embedded in the form of colors on the faces. i.e., regions, of these images. The color to symbol mapping, a homomorphic cypher, is the key used for the steganography. This method produces appealing images, resembling the traditional spiritual drawings, hiding the message. The data rate of this steganography technique will be high as the various possible colorings are huge, if we use large number of colors. The choice of a suitable image is very important, as the number of regions in the image should not be less than the length of the message to be embedded.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921014053 A
(19) INDIA
(22) Date of filing of Application :08/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : FIBER BASED ENVIRONMENT FRIENDLY, LOW COST AND REUSABLE PACKAGING MATERIAL FROM CORNCOB

(51) International classification	:C08L 23/00	(71)**Name of Applicant :** **1)SANJAY LAXMAN BHAGAT** Address of Applicant :SATIN HILLS FLAT NO.5, TUKARAM CHOWK, AKOLA, MAHARASHTRA, INDIA,PIN CODE: 444001 Maharashtra India **2)VYANKATESH SANJAY BHAGAT** **3)PRANAV DEEPAK PATHAK**
(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 :** **1)SANJAY LAXMAN BHAGAT** **2)VYANKATESH SANJAY BHAGAT** **3)PRANAV DEEPAK PATHAK**
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The Corn cob is found in abundant quantity and generally used as alternative for solid fuel. When it is burnt it causes lot of pollution. Corncobs are easily available agricultural residue in cheap rate. In this invension, the low cost, easily available, durable, reusable, easy for transport and environmental friendly material i.e. corncob is used for the packaging of delicate materials like, glass bottles , vaccine / injections vials , glass cuvettes, instrument part metal parts etc. The invention describes the easy process of converting corncob obtained as a agricultural residue to the packaging material.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2019

(21) Application No.201921014067 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD, APPARATUS AND SYSTEM FOR FINDING TWO'S COMPLEMENT OF A N-BIT NUMBER.

(51) International classification	:G06F 7/00
(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

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1)MS. WADAR SUSHMA RAJU
2)DR. BORMANE D S
3)DR. PATIL SHAILAJA C.
4)MR. PATIL AVINASH SUBHASH

(57) Abstract :
The twos complement is the most common method of representing signed integers on computers. The method of complements had long been used to perform subtraction in decimal adding machines and mechanical calculators. The twos complement of a n-bit number is one of the most important mathematical scheme required in various applications. It is a common operation in computer systems. Twos complement is mainly used in binary subtraction or for calculating the difference between two values. Compared to other systems for representing signed numbers, twos complement has the advantage that the fundamental arithmetic operations of addition, subtraction and multiplication are identical to those for unsigned binary numbers. There are various techniques available for finding the twos complement of a number, but all of them require an adder in addition with NOT gates or XOR gates. There also exists a logical method to calculate the twos complement of the number. This model is designed to suit the needs of any application without any need of adders. The complement can be achieved in two ways proposed here. The first technique provides the computation of the twos complement of the number with optimized hardware and the other one enhancing the speed of operation. Its implementation on hardware such as FPGA will provide several advantages compared to the performance offered in software. The model designed to calculate twos complement of a number occupies low device space with improved speed and low power consumption. The design is coded in RTL VHDL, and implemented in FPGA-board for hardware validation. The implementation produced the twos complement, with low latency and optimized hardware for various input data width is tested. These designs use novel approach to compute the twos compliment of a number.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2019

(21) Application No.201921014594 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AN ALTRATION IN AUTOMATION OF SEWAGE TREATMENT PLANT USING PLC & SCADA

(51) International classification	:C21D 11/00 C02F 101/00
(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

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(57) Abstract :
ABSTRACT The term, Industrial Automation generally refers to the science and technology of process control of various plants such as chemical and petrochemical plants, oil refineries, iron and steel plants, power plants, paper pulp and paper mills, pharmaceutical, food and beverage industries, water and waste water treatment plants, oil and gas fields, etc. Plant Automation is one of the important requirements, which improves the quality of products as well as reduces requirements of manpower. Industrial automation has taken a giant step to control industrial machineries and industrial processes by replacing human operators. Now a days Programmable Logic Controller (PLC) and SCADA systems are extensively used in industries. Industry people are encouraging use of Programmable Logic Controller (PLC) for plant automation. The origin of PLC comes from the American Automotive Industries. With the advent of industrial automation, we will briefly discuss the Programmable Logic Controller (PLC) used in our plant. This report explains the work done for Automation of Sewage Treatment Plant using PLC and SCADA. In this work, we have used Schneider Electrics Controller and SCADA, Unity Pro XL and Vijeo-Designer softwares.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2019

(21) Application No.201921014617 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : OPTIMISATION OF CONSTITUENTS IN COCONUT FIBER REINFORCED RECYCLED PAPER COMPOSITE

(51) International classification	:D21H 17/00
(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

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4)MS. KARISHMA SANTOSH GANDHI
5)MS. ADITI NITIN POTE

(57) Abstract :
ABSTRACT Plastics have always been used to a large extend in the packaging industry and day-to-day household requirements. But this comes at the cost of human health and environment. Though many of the researches are going on to increase the strength (Tensile and Bursting strength) of the paper, there hasnt been a noteworthy solution with properties comparable to plastic. So also, the theoretical basis of addition of the bonding material and other parameters, and their influence to the overall strength are not considered till now. Here is an attempt to make a fibre reinforced paper composite which would achieve water repellence and dry strength. Also we studied the influence of parameters such as pressure, amount of binding agent, consistency and CSF to the overall strength of paper using Taguchi method. The results sets for the tested samples through experimentations lead to inference regarding the contribution of the each factor to the overall strength and will help us to choose the best suitable i.e. optimum values of the stated parameters for the strength of the paper. The properties under enhancement are tensile and bursting strength.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921014788 A
(19) INDIA
(22) Date of filing of Application :12/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : FILM COMPOSITION OF CLOVE OIL AND EUCALYPTUS OIL FOR PREVENTION OF HALITOSIS

(51) International classification	:A61K 8/00 A61K 31/00	(71)**Name of Applicant :** **1)Bobe Kisan Raghunath** Address of Applicant :Jayawant Shikshan Prasarak Mandal™s, Jayawantrao Sawant College of Pharmacy and Research, S.No.58, Handewadi Road, Hadapsar, Pune Maharashtra India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	(72)**Name of Inventor :** **1)Bobe Kisan Raghunath** **2)Nagare Shrikant Sanjay**
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 film composition comprising clove oil, eucalyptus oil, Hydroxy Propyl Methyl Cellulose 15 cps, Hydroxy Propyl Methyl Cellulose K4M, plasticizer and casting solvents. The present invention also relates to a process for preparing a film composition. The film composition of present invention has antimicrobial activity and potentially useful for treatment of halitosis or bad breath. The film composition of present invention has potential advantage of masked bitter taste, provides local effect on oral cavity and prevents bad breath or malodour.

No. of Pages : 28 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/04/2019

(21) Application No.201921015118 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DUAL AIRGAP ELECTRICAL MACHINES

(51) International classification	:H02K 21/00 H02K 15/00	(71)**Name of Applicant :** **1)Vishal Sharma** Address of Applicant :B-204, Park Titanium, Park Street, Wakad, Pune 411057, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
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(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 dual airgap machine with a single stator between two rotors on its either side; with the stator comprising more than one coil segments circumferentially and each of the two rotors comprises more than one magnets on the circumference; wherein each coil segment comprising an inner core with shoes on each end of the inner core having a wider area than the said inner core; wherein a protrusion is provided on one or two sides of each of the said shoe beyond the coil width in such a way that this protrusion serves multiple important functions which would otherwise each require a separate increase in the volume of the machine, namely higher power density, higher demagnetization withstand capability, creation of a wider cooling channel within the coil segment and creation of a means to position the coil segments with accuracy within the stator. Also disclosed is a coil winding and a method thereof, suited for dual rotor single stator machines, which creates a cooling channel at the centre of the coil without having to increase the length of the bar or reducing the number of turns in the coil.

No. of Pages : 47 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/04/2019

(21) Application No.201921015129 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : FIRE PREVENTION MACHINE WITHOUT HUMAN PRESENCE (FIRE-ROB).

(51) International classification	:F24C 7/00 A62C 99/00 A62C 2/00	
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

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4)CHINMAY PASHABHAI PRIYADARSHI
5)DHRUMIL SHAILESHKUMAR MODI
6)MEHUL KAMLESHBHAI MISTRY

(57) Abstract :
Abstract of the Invention Safety has become very important constraint for good quality of life. Due to fire hazard it effects human health and create economical losses. To solve these problems, our focus stays on affordable cost of fire prevention machine without human presence (Fire-rob). Fire-rob can observe whole situation and control the fire standing at safe distance with the use of this mechanism. It can save the human life from the fire and even non¬technical person can easily operate it after a formal training.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/04/2019

(21) Application No.201921015132 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PIEZOELECTRIC ELECTRICITY GENERATION WITH ACUPRESSURE WALKING TRACKS.

(51) International classification	:A61H 39/00	(71)**Name of Applicant :** **1)MUNOT DIVYA PRAVIN**
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(32) Priority Date	:NA	ENGINEERING, SECTOR 26, PRADHIKARAN,NIGDI, PUNE-
(33) Name of priority country	:NA	411 044, MAHARASHTRA, INDIA. Maharashtra India
(86) International Application No	:NA	**2)JAHAGIRDAR BHARGAVI VASUDEV**
Filing Date	:NA	**3)BELHEKAR NIRANJAN PRAKASH**
(87) International Publication No	: NA	(72)**Name of Inventor :**
(61) Patent of Addition to Application Number	:NA	**1)MUNOT DIVYA PRAVIN**
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(62) Divisional to Application Number	:NA	**3)BELHEKAR NIRANJAN PRAKASH**
Filing Date	:NA	

(57) Abstract :
ABSTRACT This system generates electricity using the piezoelectric effect and simultaneously it is beneficial to all the users through acupressure. The mechanical stress applied to the system is the pressure applied by the foot of person on the acupressure walking track. Under this walking tack the piezoelectric system is present. Along with the generation of electricity, it is beneficial for the individual walking on the system which is covered by an Acupressure rubber pad. This method is cost effective and can be used on a large scale for generating electricity with number of walking tracks. Acupressure helps in curing some ailments. Therefore, it is a health efficient, cost effective and power generating system.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/04/2019

(21) Application No.201921015221 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : HIGHLY NUTRITIOUS SYNBIOTIC DAIRY DRINKS BASED ON GRAIN AMYLOPECTIN MATERIAL WITH EFFICIENT ANTIMICROBIAL PROPERTIES AND A PROCESS PREPARATION THEREOF.

(51) International classification	:A23L 33/00
(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

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(72)**Name of Inventor :**
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2)Bharathwaj Sathyamoorthy

(57) Abstract :
This invention describes process and compositions comprising one or more probiotic microorganisms, one or more readily utilizable and resistant carbohydrates, and one or more protein sources. Furthermore, this invention pertains to promoting gastrointestinal health by ingesting a composition comprising insoluble complex carbohydrates and probiotic organism that display anti-microbial effect against enteric pathogens. Additionally, the compositions are rich in several essential and non-essential metabolites that promote good health and well being of the individual and host.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921015246 A
(19) INDIA
(22) Date of filing of Application :16/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEMS AND METHODS FOR DECOMPOSITION OF BIOMASS.

(51) International classification	:C05F 17/00
(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

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(72)**Name of Inventor :**
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3)GHOSH ARJIT
4)SUTAR RAJENDRA
5)TALELE KIRAN

(57) Abstract :
ABSTRACT SYSTEMS AND METHODS FOR DECOMPOSITION OF BIOMASS A method and apparatus for automatic decomposition of waste. The disclosed method and apparatus comprise of an assembly of automatically opening lid of collector, detachable metal tumbler, controlled environment enclosed in chambered system. A mixing wand mechanically mixes and/or breaks up compost material and enhances airflow there through. A mechanism to segregate fluids to reduce the water content from composite material, using a catch tray. The airtight housing physically shields external environment from precarious by-products. Sensing mechanism indicates the volume of waste collected in metal tumbler. The entire process is continuously displayed on display device.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921015250 A
(19) INDIA
(22) Date of filing of Application :16/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : CONTROLLER FOR HIGH SPEED BLDC MOTOR GENERATOR

(51) International classification	:H02K 21/00 H02P 6/00	(71)**Name of Applicant :** **1)Vishal Sharma** Address of Applicant :B-204, Park Titanium, Park Street, Wakad, Pune 411057, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)Vishal Sharma**
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A controller and the associated control steps to drive a polyphase Permanent Magnet BLDC Motor Generator with a different commute sequences below and above the base speed ensuring that the magnets are not subjected to flux weakening. In a three phase BLDC motor with trapezoidal control, two phases are made to conduct in series. The innovation introduces a circuit and control steps to conduct a single phase in series beyond the base speed, thus running at a higher speed without the need of flux weakening, while the same circuit continuing to support two phase conduction below the base speed. The same circuit and control steps can be extended to polyphase machines. Variable speed operation with PWM signals requires freewheeling diodes to conduct during the OFF period of the PWM cycle. The circuit ensures that this freewheeling operation continues as expected in all the different modes of machine, including motoring speed control below the base speed, motoring speed control above the base speed, coasting and regeneration. Such a control has many applications, particularly in automotive drive systems.

No. of Pages : 27 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921015256 A
(19) INDIA
(22) Date of filing of Application :16/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : SMART CATTLE FARM DEVELOPED USING ARTIFICIAL INTELLIGENCE AND ROBOTICS.

(51) International classification	:G07F 17/00	(71)**Name of Applicant :** **1)GUDMALWAR MAHESH PRABHAKAR** Address of Applicant :2455, KANYASHALA, BURUDGALLI, KUNDALWADI, BILOLI, NANDED, MAHARASHTRA, INDIA-431711. Maharashtra India **2)KOTKAR RESHMA BABURAO**
(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 :** **1)GUDMALWAR MAHESH PRABHAKAR** **2)KOTKAR RESHMA BABURAO**
(87) 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 THE INVENTION SMART CATTLE FARM DEVELOPED USING ARTIFICIAL INTELLIGENCE AND ROBOTICS In day to day life demand of milk and dairy products is increasing with increase in population. To overcome this demand efficient cattle farming plays an important role. Traditionally, maintenance of cattle farm is done by appointing human caretaker for cleaning of dung, feeding and watering to cattle. But this approach is less efficient and costly because of improper timely maintenance of cattle farm by caretaker. In this work artificial intelligence based smart cattle farm system is proposed for maintenance of cattle farm. Maintenance tasks such as cleaning of dung, feeding and watering to cattle are automatically scheduled and perform using robot and Raspberry Pi single board computer. The proposed system is efficient because it can avoid human errors such as improper scheduled cleaning of dung, feeding and watering to cattle. It also consists of metal detector which can detect metal in the feed and can removed manually.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921014084 A
(19) INDIA
(22) Date of filing of Application :08/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD, APPARATUS AND SYSTEM FOR FINDING A SQUARE ROOT OF A PERFECT SQUARE NUMBER.

(51) International classification	:G06F 17/00 G06F 7/00	(71)**Name of Applicant :** **1)MR. PATIL AVINASH SUBHASH** Address of Applicant :JSPM'S RAJARSHI SHAHU COLLEGE OF ENGINEERING, S.NO. 80,PUNE-MUMBAI BYPASS HIGHWAY, TATHAWADE,PUNE,INDIA-411033 Maharashtra India
(31) Priority Document No	:NA	**2)DR. PATIL SHAILAJA C.**
(32) Priority Date	:NA	**3)DR. BORMANE D S**
(33) Name of priority country	:NA	**4)MS. WADAR SUSHMA RAJU**
(86) International Application No	:NA	(72)**Name of Inventor :**
Filing Date	:NA	**1)MR. PATIL AVINASH SUBHASH**
(87) International Publication No	: NA	**2)DR. PATIL SHAILAJA C.**
(61) Patent of Addition to Application Number	:NA	**3)DR. BORMANE D S**
Filing Date	:NA	**4)MS. WADAR SUSHMA RAJU**
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
Square root is one of the mathematical operations which widely used in digital signal processing, audio and video processing units, etc. Its implementation on hardware level such as a digital gate level circuit or on reconfigurable hardware logic will provide several advantages compared to the performance offered in software. There are several algorithms which can be utilized for this calculation, but they are difficult to implement in Reconfigurable hardware logic. The existing algorithms and methods such as iterative algorithms like restoring and non restoring method, Newton Rahpson method, SRT, CORD1C algorithm, Rough estimation method, Goldschmidts algorithm and taylor series method etc. The square root operation presents a model of Reconfigurable hardware logic based square root calculator, which requires very low resources usage, thus occupying very low area of FPGA. The model designed to calculate square root of a number consumes low device space with improved speed and low power consumption. The design uses a novel approach to compute the square root. The design is coded in RTL VHDL, and implemented in FPGA- Basys 3 board for hardware validation. The implementation produced square root calculation, with low latency computation and low area consumption, for various input tested.

No. of Pages : 18 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2019

(21) Application No.201921014107 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : IGNITION BASED SIDE STAND POSITION CONTROL SYSTEM FOR TWO WHEELERS

(51) International classification	:H01F 38/00
(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

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(57) Abstract :
[0023] The present invention relates to a Ignition based side stand position control system for two wheelers providing a cost effective and maintenance free solution for avoidance of accidents in two wheelers due to side stand comprising mainly of engine ignition circuit, an engine starting circuit and a stand, for motorcycles of the type comprising a stand assembly including a stand adapted to be brought to a forwardly inclined operative position for supporting the motorcycle when the latter is stationary, to be moved to an inoperative or uplifted position by the driver when the motorcycle runs, mild steel flat sheet with stand device and iron holding clips comprising, in combination, a first normally closed circuit switch called side stand switch connected in between positive terminal and grounded terminal of ignition coil and no requirement of external power source, and second additional switch is connected between grounded terminal of ignition coil and buzzer; included in side stand assembly and operable to effect opening of side stand switch, when side stand is in its inoperative position, and to effect closing of side stand switch when side stand is in its neutral position. Following invention is described in detail with the help of figure 1 of sheet 1 showing electric circuit diagram of the embodiment.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2019

(21) Application No.201921014247 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : 'MICROWAVE SENSOR FOR NON INVASIVE DETERMINATION OF BLOOD GLUCOSE LEVEL'

(51) International classification	:A61B 5/00	(71)**Name of Applicant :** **1)MS VIDYA VIJAY DESHMUKH** Address of Applicant :SHRIRAM COMPLEX FLAT NO: 06,323, NANA PETH,LAKSHMI ROAD, NEAR ARUNA CHOWK, PUNE,MAHARASHTRA,INDIA, PIN CODE: 411002 Maharashtra India **2)DR SUVARNA SANDIP CHORAGE**
(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 :** **1)MS VIDYA VIJAY DESHMUKH** **2)DR SUVARNA SANDIP CHORAGE**
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
9. ABSTRACT OF INVENTION This invention presents possibility to measure Blood Glucose Level noninvasively using Microwave Sensor. A Narrowband Microstrip Patch Antenna is designed, simulated and fabricated to resonate at 1.3 GHz. Human finger is kept above a Microstrip antenna. Because of this near field of antenna gets interact with Material Under Test (MUT) here human finger. So electric characteristics of antenna changes in relation to permittivity of material. Change in dielectric causes corresponding shift in resonating frequency of NB antenna. This relationship is useful to measure Blood Glucose level. Patients blood glucose level is measured by traditional glucose meter. At the same time resonant frequency shift of antenna is measured by Vector Network Analyzer to create database. Linear regression is applied to optimize this database. For real time monitoring of Blood Glucose Level Computer with Python programming is interfaced to VNA This set up is helpful to predict Blood Glucose Level noninvasively using Microwave sensor.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921014967 A
(19) INDIA
(22) Date of filing of Application :14/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : WIRE ELECTRIC DISCHARGE MACHINE FOR TURNING OPERATION

(51) International classification	:B23H 7/00 B23H 1/00	(71)**Name of Applicant :** **1)Mr. Harshadkumar Patel** Address of Applicant :Moto Kothari Vas Near Sak Market Ta-Post:-Kadi Gujarat India Gujarat India **2)Dr. Dhaval M. Patel**
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)Mr. Harshadkumar Patel** **2)Dr. Dhaval M. Patel**
(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 wire electric discharge machine for turning operation provides a novel double side material removal mechanism for machining on dynamic work piece/article (109) in reusable and non-reusable wire electric discharge machine (WEDM) to achieve higher Material Removal Rate (MRR), improved surface finishing and increase accuracy by controlling spindle run out errors and to achieve symmetrical and non-symmetrical geometry as per need via novel synchronised rotary control. Multiple parallel units of wire electric discharge machine for turning operation assembly as represented in figure 1 can be used to create a tapper arrangement of electric discharge machine (EDM) wires for larger diameter of input articles to smaller diameter of finished end point article for increased output. Novel synchronised rotary control which controls parameters like wire motion, wire speed, flushing pressure, spark gap, spindle speed, power usage, wire tension and others.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/04/2019

(21) Application No.201921014989 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AN APPARATUS FOR MAKING PAPER BAG

(51) International classification	:B31B 70/00 B31B 50/00	
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

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(57) Abstract :
ABSTRACT: An apparatus for making paper bag mainly provide a method for making a paper bag. The present invention mainly relates to the lever type apparatus that creases and cuts paper as per different size of paper. The paper can feed to the apparatus 100 from any direction of the apparatus 100. Paper feed into the apparatus 100 up to one end of the paper will not reach at the end of the apparatus 100. Then after force is applied on to upper plate 1 which is connected to the lower plate 2 by means of fulcrum rod 6. Now upper plate 1 is subjected to apply force is transfer to the paper. This results in cutting of paper as well as indentation is formed on the paper after that is done the paper is taken out and so folder according to the indentation or crease made on it and at last glue is applied at the end. [Figure 1]

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/04/2019

(21) Application No.201921015087 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DESIGN AND FABRICATION OF WASTE SEQUESTRATION GIZMO.

(51) International classification :C02F 1/00
(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

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(57) Abstract :
ABSTRACT Due to increase in population of India the consumption rate of various goods has increased so as the generation of waste increased simultaneously. In order to provide a proper waste management system we need to design a machine to sort the various waste constituents which can be further processed and recycled to reduce the waste. So to achieve such goals we are designing a waste segregator machine which is capable of separating wastes such as metals, non-metals, organic, inorganic, etc. our design strikes towards an efficient, compact and cost effective machine which is feasible for small organizations also. The design is the basic step for manufacturing of the machine if the design is proper and safe the manufacturing goes smooth. We are manufacturing the machine to obtain the goal of separating the waste which can be used by small scale as well as large scale industry effectively, which would directly add into benefit for the society. The manufacturing the machine which would be easy to operate and simple in construction. In short it would be affordable if produced in numbers.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/10/2017

(21) Application No.201721035392 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : UNIFIED CELL DIFFERENTIATION PROTOCOL

(51) International classification	:C12N 5/00
(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

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4)SAREEN, Dhruv
5)RAO, Mahendra
6)BHARTI, Kapil
7)LAMBA, Deepak

(57) Abstract :
The present disclosure discloses a unified celldifferentiation protocol for obtaining photoreceptor cells, retinal pigment epithelium, and 3D retinal organoid from pluripotent stem cells. The present disclosure also discloses photoreceptor cells, retinal 10 pigmented epithelium, and 3D retinal organoid obtained from pluripotent stem cells. Also disclosed are a pharmaceutical composition and a medicament comprising the photoreceptor cells, retinal pigment epithelium, and 3D retinal organoid as described in the present disclosure.

No. of Pages : 57 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2018
(21) Application No.201821045610 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A SYSTEM AND A METHOD FOR REDUCING AND ELIMINATING AIR POLLUTION FROM A GEOGRAPHICAL AREA

(51) International classification	:H04W 84/00
(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

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(57) Abstract :
The system includes an eloptic beam projector configured to detect resonance frequency of each of one or more air pollutants™ eloptic radiation. The eloptic beam projector configured to receive the satellite image of the geographical area from where the air pollutant(s) are collected. The eloptic beam projector further configured to project the detected resonance frequency of eloptic radiation of each of the air pollutant(s) in an anti-phase mode for a predefined time and a predefined interval, on the received satellite image, thereby reducing and/or eliminating the air pollution from the geographical area. The invention provides for improving air quality index and bringing it down to in a safe range as defined by the United Nations. FIG. 1

No. of Pages : 31 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/05/2018

(21) Application No.201821016461 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PROCESSING BATCH OF GEMSTONES

(51) International classification	:A44C 17/00
(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

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(57) Abstract :
ABSTRACT PROCESSING BATCH OF GEMSTONES The present subject matter relates to a system (100) and a method for gemstone processing which involves gemstone identification and verification, and also includes within its purview a non-transitory computer readable media having instructions recorded thereon for gemstone processing. According to an aspect, the present subject matter involves a two-step approach for identifying and verifying the gemstone in a batch of rough gemstones. The two-step approach allows for accurately identifying the gemstone in the batch so that corresponding information that is used for processing the gemstone is correct and the gemstone is processed according to that correct information only. < <to be published with Fig.1> >

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2019

(21) Application No.201921014292 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : MANUFACTURING OF 3D PRINTER FILAMENT USING RECYCLED PET (POLYETHYLENE TEREPHTHALATE) BOTTLE, ALLOYED WITH PC (POLYCARBONATE)

(51) International classification	:B29C 47/00 C08L 67/00 B29B 17/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
ABSTRACT: The large number of disposable bottles presently produced makes imperative the search for alternative procedures for recycling or reuse of these materials, since they are not biodegradable. As chemical processing is most often costly and sometimes aggressive to the environment, a possible solution is the recycling of such material by thermo-mechanical techniques. This project takes into consideration the thermo-mechanical recycling of post consumed plastic bottles, especially the ones made of polyethylene terephthalate (PET) and converting them into 3D Printer Filament used in an FDM based 3D Printer. To enhance the properties of polyethylene terephthalate (PET) it will be alloyed with polycarbonate (PC) and will be processed in a single screw extruder setup.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2019

(21) Application No.201921014481 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AUTOMATIC SALINE MONITORING, CONTROLLING AND NOTIFICATION SYSTEM USING INTERNET OF THINGS.

(51) International classification	:A61M 5/00 A61M 39/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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5)SONU DUPARE
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8)PRIYANKA JAIN

(57) Abstract :
ANNEXURE-I ABSTRACT: The current invention discloses a system developed for continuous monitoring of saline fluid level when saline is applied to the patient. It also discloses a system developed for controlling saline fluid flow as per requirement with overcoming the problem of reverse blood flow and air drop formation in saline tube. It also relates to a automatic monitoring mechanism developed for use of more than one bottle per saline stand, when more than one bottles are needed for the patient. Multiple saline bottles can be used in one after the other fashion automatically using our system which not only saves time of attending patient by nurse but also helps in preventing reverse blood flow and air bubble formation through I.V. tube. As none of the components used in our system anyway intrude in the saline bottle, I.V. tube or flow/stop mechanism on 3-way cannula, there is no chance of any infection to patient through the I.V. system used with our system. Hence inn our system factor of sterility is very well maintained. Small negligence in monitoring the saline fluid level may lead to reverse flow of blood and stop air bubble formation within the infusion tube. Hence the current invention relates to a notification system to notify the status, of saline fluid level in bottle, emptiness of bottle, need of change of bottle, to the nurses, caretakers, doctors, hospital authorities. This type of system can be used at Homes specially for the Assisted living as well as at Hospitals.

No. of Pages : 23 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/04/2018
(21) Application No.201821015160 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYNTHESIS OF ANTIBACTERIAL SILVER NANOPARTICLES UTILIZING COW DUNG BACTERIAL CELL FREE SUPERNATANT

(51) International classification	:C12P 21/00 C12R 1/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)RATNA TRIVEDI

(57) Abstract :
The present invention relates to novel silver nanoparticles utilizing cow dung bacterial cell free supernatant and method thereof. A method of preparation of Silver nanoparticles (AgNPs) having antibacterial properties by biosynthesis, said method comprises the following steps:(a)Screening and isolation of a bacteria from cattle™s dung to obtain a bacterial isolate;(b) Inoculating said bacterial isolate in sterile nutrient broth media at room temperature for 24 hours;(c) Centrifuging the culture medium obtained in the step (b) to obtain a cell-free supernatant;(d) Adding said cell-free supernatant to AgNO3 solution; and(e)Incubating the reaction mixture of step (d) in dark in temperature range of 30 to 100 degree centigrade.The cell free extract of bacteria isolated from cow dungs like Stenotrophomonas sp. and Brevundimonasdiminuta had been used as SDC, prepared nanoparticle which applied for antibacterial agent.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2019
(21) Application No.201921009442 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A BEAM VISUALIZER DEVICE

(51) International classification	:G02F 1/00 G02B 27/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)UPADHYAYA, Brahma, Nand
4)AHLAWAT, Anju
5)KARNAL, Ashwani, Kumar

(57) Abstract :
The present invention relates to a beam visualizer device based on luminescent transparent ceramics and uses thereof. It relates to the fabrication of pass through type IR beam visualizer using transparent ceramic (particularly, Tb, Yb co-doped Y2O3) and its utilization in conversion of IR beam to visible beam having high sensitivity, high damage threshold over wide range of IR wavelengths.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921006581 A
(19) INDIA
(22) Date of filing of Application :19/02/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM AND METHOD FOR LIFTING LOW-ENERGY SPACECRAFT

(51) International classification	:B64G 1/00 F01C 1/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)Parth Kachhadiya
(72)**Name of Inventor :**
1)Prof. (Dr.) Kaushika D Patel
2)Parth Kachhadiya

(57) Abstract :
A reusable low-energy spacecraft lifting system is provided with a spacecraft with a two-layered body with the layers counter-rotatable with the help of magnetic levitation and co-axial rotor assembly at very high-speed. The system produces time-varying magnetic field around the spacecraft that interacts with geomagnetic field to support the lifting of the spacecraft. With the combination of magnetic levitation and co-axial rotors, system provides effective lifting solution for any spacecraft with minimized fuel and energy consumption.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/02/2019
(21) Application No.201921006144 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM AND METHOD TO GENERATE SPEECH BASED ON TEXT FORMING PART OF A RECEIVED IMAGE

(51) International classification	:G06F 17/00 G06K 9/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)SACHDEVA, Akshita
3)BAGHEL, Abhishek
4)CHAKALASIYA, Jay Mohan
5)NAIK, Ninad Pradeep

(57) Abstract :
A system to generate speech based on text forming part of a received image is disclosed. The system generates a clean image from the image received; detects number of columns in the clean image and stitches the number of columns in proper reading sequence to create a single column text image file carrying complete text of the image; extracts text from the single column text image file and performs text segmentation on extracted text to segment the extracted text into words, sentences and paragraphs to generate a segmented text file; and converts the segmented text file into a first speech output and provides the first speech output to a user according to the user commands. Content summarization, multimedia overlays and audio highlighting is provided.

No. of Pages : 43 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/03/2019

(21) Application No.201921008385 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : POSTURE ASSESSMENT DEVICE

(51) International classification	:A61B 5/00	(71)**Name of Applicant :** **1)Dr.Shyam Devidas Ganvir** Address of Applicant :Block D flat no:06 Dr.vithalrao vikhe Patil Foundations, College of Physiotherapy, opp. Govt Diary milk ,vadgaon Gupta Road, Vilad Ghat Ahmednagar (m.s), MAHARASHTRA, 414111, 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)Dr.Shyam Devidas Ganvir**
(61) Patent of Addition to Application Number	:NA	**2)Dr.Suvarna Shyam Ganvir**
Filing Date	:NA	**3)Dr.Chetna Kunde**
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
ABSTARCT Posture Assessment Device The invention relates to a posture assessment device i.e. provided with an aluminum frame (102) of length of 80 inches and breadth of 35 inches with transparent glass (108) from all four sides, wherein the transparent Glass calibrated into 0.5cm squares for accurate postural Analysis, a door with handle (106) and foot markers (112) for patients to stand on, with foot base width is 10cm. Further assessment of faulty posture can be done at a glance in all views(anterior, posterior, right lateral and left lateral). A caster wheel, of size 7 inches and diameter of 180mm x 50mm , wherein the caster has breaks which allow grid to remain in one place while analysis of posture is being done.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/04/2018

(21) Application No.201821002735 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM AND METHOD FOR BALANCING A VEHICLE

(51) International classification	:B64G 1/00 A63B 71/00
(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

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2)ASHUTOSH UPADHYAY
(72)**Name of Inventor :**
1)VIKAS PODDAR
2)ASHUTOSH UPADHYAY

(57) Abstract :
SYSTEM AND METHOD FOR BALANCING A VEHICLE A system, method and a device for balancing a vehicle is provided. In one embodiment the system comprises of a control moment gyroscope. In another embodiment two or more control moment gyroscope may be provided. Further, in an embodiment a mechanism to provide stopping of a precession shaft that links the control moment gyroscope to the vehicle is provided. Furthermore, a user operable switch may be provided in an embodiment to stop precession shaft of the control moment gyroscope. Reference : FIG. 1

No. of Pages : 28 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/01/2018

(21) Application No.201821003146 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DEVICE TO REMOVE POLAR MOLECULES FROM AN AIR STREAM

(51) International classification	:G01N 27/00
(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

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(72)**Name of Inventor :**
1)DR. LISA SOLANKI
2)ABHINAV SOLANKI

(57) Abstract :
A device 2 to remove polar molecules like water vapor from an air stream is provided herein. The device includes a non-conductive housing 4 encapsulating a chamber 5 where the chamber 5 includes a fan 6 located at one end of the chamber 5 which allows air 24 to enter into the chamber 5, at least one metallic brush 12 is located inside a chamber and mounted on a dielectric holder 14, a curved solid wall 39 integrated with the non-conductive housing 4 at one end where the curved solid wall 39 allows smooth passage of air flow 24 from the chamber 5 and ensures minimum impingement on the brush 12, a curved wire mesh 40 integrated with the non-conductive housing 4 at the other end opposite to the curved solid wall 39, a power supply 18 to charge the metallic brush 12 and the curved wire mesh 40, where the metallic brush 12 when charged ionizes the air 24 to produce the ion current 26, facilitating removal of polar molecules from the air 24 to generate purified air 42 from the device 2. Fig. 5

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2019
(21) Application No.201921007163 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : VIDEO LARYNGOSCOPE WITH DUAL LIGHT SOURCE WITH MULTIPLE SUCTION PORT AND OXYGEN DELIVERY SYSTEM

(51) International classification	:A61B 1/00 A61M 16/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)Dr. Mahesh Jalindranath Nerkar
2)Yogesh G
3)B Vinod Kumar
4)Dr. Mohan Kumar G

(57) Abstract :
Disclosed is a video laryngoscope. The video laryngoscope comprises a camera module, a fiber optic dual LED light source, a suction port, an oxygen delivery port, an algorithmic module, and a communication module. The camera module captures an image of a Larynx to facilitate intubation. The camera module comprises one or more LED light sources. The one or more light sources and the fiber optic dual light source illuminate the Larynx during intubation. The suction port cleans pharyngeal secretions during intubation. Oxygen delivery system ensures 100% oxygenation during incubation to avoid hypoxia during procedure. The algorithmic module is associated with a microcontroller unit to process the captured image in real-time. The communication module is configured with the microcontroller unit to transmit the processed image to an external computing device. The communication module communicatively coupled with a display unit to display the processed image.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/12/2017

(21) Application No.201721047112 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SELF POWERED AND TIMER BASED SOLAR PANEL CLEANING SYSTEM

(51) International classification	:H02S 40/00
(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

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2)Ghadiali Yusuf Nazmuddin

(57) Abstract :
The present invention relates to self powered and timer based solar panel cleaning system that is operated by self generating electrical power from solar energy and reduces wear and tear problem of moving parts. In this system, the microcontroller (54) is interfaced with motor driver (51) and brush driver (52). Said motor driver (51) and brush driver (52) control the speed of wheel motor (32) and brush driver (33). When ultrasonic sensor (5) sends signal to microcontroller (54), said microcontroller (54) generates and transmits signal to wheel motor driver (51) and brush driver (52). Thus, when structure reaches nearby the end edge of the solar panel array, said drivers gradually reduce r.p.m. of wheel motor (32) and brush motor (33) and then motors stop when machine reaches to opposite platform. Thus, during alteration of mode, r.p.m. of motors will be at substantially low that prevents the moving parts from damage.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/03/2019

(21) Application No.201921011581 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SMALL HANDY IMPROVED PAPER PUNCHING MACHINE.

(51) International classification	:B21D 28/00 B21D 43/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)Miss. Revati Madan Pawar
4)Ganesh Dnyandeo Dudhe
(72)**Name of Inventor :**
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2)Mr. Gananjay Madan Pawar
3)Miss. Revati Madan Pawar

(57) Abstract :
According to this invention, there is provide Small handy improved paper punching machine which deals with 1) Small handy paper punching machine has reduced size and weight and hence convenient for carrying. It is convenient to carry in daily office bag and ladies purse. It is pocket friendly paper punching machine. Hence it will help anyone in urgent situation. 2) This paper punching machine though it is small it has same capacity as that of medium punching machines available in the market i.e. punching capacity 20-22 paper sheets, punching distance 80mm and punching diameter 5.50 mm. It has more punching capacity than small machines available. 3) We can also fix plastic jig or of suitable metal jig in the base cavity for making impressions to form hole. In this invention, there is provided small handy improved paper punching machine in which we are reducing size of punching machine. Due to small size of improved paper punching machine it will be user friendly and convenient to carry, as well as it™s having same working capacity and same functionality as compared to conventional punching machine.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/03/2019

(21) Application No.201921012888 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : IN-BUILT SYSTEM TO ENSURE THE DRIVING LICENSE BEFORE DRIVING THE VEHICLE

(51) International classification	:B60R 25/00
(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

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(72)**Name of Inventor :**
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(57) Abstract :
Present invention relates to an in-built system to ensure the driving license before driving the vehicle. The object of the proposed system is to assure that every driver should carry their own driving license while driving the vehicle. In the proposed system after inserting a key in to ignition switch, the key has to turn in clockwise to get display on. At the display the system ask for the license card and after inserting license card it will check all the details about the driver™s age, validity and applicability if license is of two wheeler or four wheeler. Further front side camera can verify or detect the face that weather the same person is driving the car or not and if not then vehicle will not move from its steady position and after few time car will automatically get off. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the block diagram and Figure 2 of sheet 2 showing the flow chart.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201821014012 A
(19) INDIA
(22) Date of filing of Application :12/04/2018
(43) Publication Date : 10/05/2019

(54) Title of the invention : APPARATUS AND PROCESS FOR ARRANGING & FILLING OF ROSETTE SHAPE TBP GRAINS FOR BMCS MODULE

(51) International classification	:F02K 9/00 B24D 18/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)Mohan Laxman Pasalkar

(57) Abstract :
11. ABSTRACT OF THE INVENTION The present embodiment is an apparatus for assembling and filling of propellant grains in BMCS system and process for the same. An apparatus comprising of hopper connected to honeycomb entry plate in delivery module for delivering required no of grains in one layer at a time, counting and arranging propellant grains vertically on split plate mounted on Horizontal frame. Y plate assembly is used for grains collection. In the process for arrangement of propellant grain layers in BMCS assembly, the propellant grains are arranged to fall free in the grain holes. Layer of propellant grains dropped on Split plate and collected and arranged in required circular form using Y plate. Flexible cylinder is used to hold the propellant grains layer around the igniter tube including suitable FRD™s. The main cartridge body is inserted from the top and the assembly is completed finally inserting PRD after confirmation of the propellant ACM. Mohan Laxman Pasalkar

No. of Pages : 30 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921015095 A
(19) INDIA
(22) Date of filing of Application :15/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : DEVELOPMENT OF AUTOMATIC WRITING MACHINE USING ANDROID INTERFACE & VOICE.

(51) International classification	:G06F 17/00 G06F 19/00	(71)**Name of Applicant :** **1)MHATRE AMOGH ARVIND** Address of Applicant :ROOM NO.8, CHINTAMANI HOUSE, VAZIRA NAKA, BORIVALI (W), MUMBAI,MAHARASHTRA,INDIA, PIN CODE: 400 091 Maharashtra India **2)KADAM SOURABH MANOHAR** **3)KELVANKAR KALPIT PRASHANT** **4)RAUT VINIT DEEPAK** **5)RAUT NIYATI NITIN**
(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	(72)**Name of Inventor :** **1)MHATRE AMOGH ARVIND** **2)KADAM SOURABH MANOHAR** **3)KELVANKAR KALPIT PRASHANT**
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
ABSTRACT Voice recognition alongside Artificial Intelligence can help achieve greater goals in terms of automatic writing tools made available to the society. Traditional approach to writing scriptures and handwritten theses are far more replaced by machine typed material which is far more accurate and easy to analyse as well as understand. The proposed system also helps provide the same by using voice recognition and some inherent motors which will be controlled as per the voice data received from the user. Machine learning algorithms are way powerful in analysing such complex data and syncing it further with the motion of the mechanical motors to recreate the human art of writing. It will enable flawless and faster writing material which would be of greater use to one and all and short scripts and notes could be generated right away without even the need of identifying the data in the first place or lifting up the pen in the other. Keywords :- Writing Machine, Machine Learning. Voice Recognition, Android Phone, Bluetooth Module, Arduino UNO.

No. of Pages : 9 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/10/2018

(21) Application No.201821039830 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM FOR SIMULTANEOUS RECOVERY OF PURIFIED WATER AND DISSOLVED SOLIDS FROM IMPURE HIGH TDS WATER

(51) International classification	:B01D 3/00 B01D 1/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)DESAI, Dhiren M

(57) Abstract :
ABSTRACT SYSTEM FOR SIMULTANEOUS RECOVERY OF PURIFIED WATER AND DISSOLVED SOLIDS FROM IMPURE HIGH TDS WATER • The present system is for simultaneous recovery of purified water and dissolved solids from impure high TDS water (1) which is achieved in a single step and eliminates the use of external thermal energy for making the system significantly efficient. It eliminates the use of boiler, cooling tower that reduces the overall capital cost and continuous requirement of external thermal energy for making system efficient. The simultaneous recovery of the purified water and solids from high TDS input effluent reduce the energy intensity of the system. Said system provides a vacuum system as heat pump which enables the system to be self-sufficient in thermal energy requirements for evaporation process and reduces GHG emissions significantly. Fig. (1)

No. of Pages : 39 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/03/2019

(21) Application No.201921011448 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : GYPSUM PRODUCTS IN DENTISTRY AND ITS ENVIRONMENTAL HAZARDS

(51) International classification	:C04B 28/00
(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

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3)DR. CHETANA MAKADE
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1)DR. PRATIMA RAMAKRISHNA SHENOI
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3)DR. CHETANA MAKADE
4)DR. PURABI EDBOR

(57) Abstract :
Gypsum is an abundant mineral which is having a wide range of applications ranging from plasterboards , building plaster , idols and for soil treatment in agriculture.Gypsum products are also used on a large scale in the field of dentistry for diagnosis for treatment planning and fabrication of various restorations . Annual consumption of gypsum products by a Dental Institute is 2500 kg in a year. Tnspite of such a rampant usage, unfortunately , it is lesser known that this highly used mineral when landfllled with other wastes releases toxic hydrogen sulphide gas , which has adverse effects on the environment and public health . In our study, we found alarming results and absolute lack of awareness regarding the disposal and environmental hazards among dentists . Thus, there is need for awareness of these environmental hazards among dentists and appropriate measures must be taken for the safe and segregated disposal of gypsum products.

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201921015529 A
(19) INDIA
(22) Date of filing of Application :18/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : A PROCESS FOR DRYING THE WET MASS OF PAPER INDUSTRY ETP SLUDGE

(51) International classification	:F26B 3/00 F26B 23/00	(71)**Name of Applicant :** **1)M/S KILBURN ENGINEERING LIMITED** Address of Applicant :Plot No. 6, MIDC Saravali, Kalyan Bhiwandi Road, Taluka Bhiwandi, District Thane 421311, Maharashtra, India. Maharashtra India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	(72)**Name of Inventor :**
(33) Name of priority country	:NA	**1)MR. ARORA, PREM KUMAR**
(86) International Application No	:NA	**2)MR. PALKAR, SUNIL H.**
Filing Date	:NA	
(87) 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 :
There was a long standing need to provide a solution that can assist in drying the wet mass of paper industry ETP sludge in easy, safe and economic way. Current invention provides a process of drying the wet mass of paper industry ETP sludge having moisture content 50 -90% to a residue having moisture content below 15% by a) feeding wet mass of paper industry ETP sludge having moisture content 50 -90% to a continuous conduction screw dryer, b) heating said wet mass for at least 20 minutes to a temperature ranging between 90°-110°C in said continuous conduction screw dryer, and c) collecting the residue having moisture content below 15%. This residue can be easily disposed of using available means of disposal. Alternatively, it can be used as an alternative fuel for burning. Refer Figure 1:

No. of Pages : 23 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/09/2018

(21) Application No.201821036359 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A PORTABLE SURVEILLANCE SYSTEM

(51) International classification	:H04N 7/00 G08B 13/00 H04N 5/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)JEETENDRA KOCHAR

(57) Abstract :
ABSTRACT SURVEILLANCE SYSTEMS AND DEVICES THEREFOR A surveillance system (100) comprising a surveillance device (102) having a wearable unit (102) adapted to be worn by a user and a remote server (106). The surveillance device (102) comprising: a processing unit (202), audio capturing means (206) configured to capture audio in a surrounding of said wearable unit (102) to provide audio captured data, video capturing means (208) configured to capture a video imagery of things in front of said wearable unit to provide video captured data, and transmission means (210) configured to transmit captured data from said audio capturing means (206) and video capturing means (208) in real-time to a remote location. The remote server (106) configured to save the received data for a remote surveillance team. The remote server (106) upon receiving an activation signal from the user extracts data from saved data of a predefined duration in a most-recent past for review.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/09/2018

(21) Application No.201821036426 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A CONTINUOUS MIXING PLANT FOR CONTINUOUS PRODUCTION OF COMPOSITE CONSTRUCTION MATERIALS

(51) International classification	:B28C 9/00 B28C 7/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)Surelia Jayanti Narandas

(57) Abstract :
A continuous mixing plant (1) comprises continuous mixing unit (2) comprised of inlet hoppers (5,6) for receiving of aggregates and cementitious ingredients; feeder unit (7) having multiple-feeder bins (9) for storage of aggregates; auxiliary conveyor (10) and collecting conveyor (11) for receiving aggregates from each bin (8); slinger conveyor (12) for supplying aggregates from collecting conveyor (11) to inlet hopper (5); silo (13) for storage of cementitious-ingredients; weighing and conveyance system (14) for weighing and conveying cementitious-ingredients to continuous mixer (3); a water metering system (17) installed on water feeding line (16) over the continuous mixer (3) for measuring water flow; a load-out conveyor (18) for delivering mixed materials from continuous mixer (3) to a gob hopper (20) or storage silo (36) which discharges mixed materials into receiving truck (22); control cabin (23) comprising control panel with PLC unit and VFD units for remotely monitoring and controlling the plant (1).

No. of Pages : 30 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/04/2019

(21) Application No.201941016861 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SOLAR ENERGY COLLECTION USING FEW SETS OF ˜ISOSCELES TRIANGLE OUTLINED REFLECTORS, FLAT REFLECTORS, AND ABSORBERS™ •

(51) International classification :G01S3/00
(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

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(72)**Name of Inventor :**
1)VOORADI RAJESHWARA PRASAD

(57) Abstract :
ABSTARCT OF THE INVENTION The device named as Solar energy collection using few sets of ˜isosceles triangle outlined reflectors, flat reflectors, and absorbers™ • is a solar thermal energy collection device useful for collecting solar thermal energy at temperatures above 100 degree centigrade, throughout period of incidence of useful sunlight. The present invention relates to physical Sciences. This device consists of following components. 1) Plurality of ˜isosceles triangle outlined reflectors, flat (plane) sunlight reflectors, and solar energy absorbers™ placed in parallel rows on their supporting means, such that said all reflectors and absorbers are capable of collectively intercepting and absorbing most of the energy of sunlight incident on them. Said all isosceles triangle outlined reflectors and solar energy absorbers are arranged such that there is a means for solar energy absorption in-between two isosceles triangle outlined reflectors, and there are flat sunlight reflectors in between them. Said each one isosceles triangle outlined reflector is fitted with plane sunlight reflective means on either side to serve the purpose of specular reflection of ˜most of the incident sunlight™ through-out day towards solar energy absorbers placed adjacent to it™s either side faces. ˜Flat (plane) sunlight reflectors™ are also provided in between (lower) outer edges of adjacent isosceles triangle outlined reflectors to reflect sunlight (reflected by said isosceles triangle outlined reflectors) towards said solar energy absorbers. 2) A big framed structure or any other suitable means • capable of holding and supporting said plurality of isosceles triangle outlined reflectors, flat sunlight reflectors, and solar energy absorbers in predefined manner • on its top side • . 3) A detachable • transparent top covering provided to cover top surface of said device to prevent accumulation of dust on said plurality of sets of isosceles triangle outlined reflectors, and solar energy absorbers™ . 4) A detachable tank mounted on a stand at suitable elevation can be provided for storage of ˜water, or thermal fluid™ for continuous supply of ˜water, or thermic fluid™ through thermal insulated pipe conduits to inlet header pipes of solar energy absorbing means to avoid development of high temperature in said solar energy absorbing means due to absence of ˜water or thermic fluid™. Isosceles triangle outlined reflectors™ and flat reflectors provided on either side of ˜a solar energy absorber™ reflects most of the incident sunlight towards ˜the solar energy absorber provided in between them, subjected to the condition of orientation of the device such that said all reflectors and absorbers are capable of receiving and intercepting sunlight throughout day without any adjustment. In case of small devices fitted with wheels, it is advisable to do orientation of longitudinal axis of said reflectors at right angle to direction of incident sunlight • either once in a day or at least once in a week, to get better output from the device.

No. of Pages : 53 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/04/2019

(21) Application No.201941016864 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : RUINA NE VEHICULUM

(51) International classification :G01S17/00
(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

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3)MISS.M.KIRTHANA
4)MISS.R.DHIVYA DHARSHINI

(57) Abstract :
Autonomous vehicles like Driverless cars are seen only in science fiction movies but in 2019 they are becoming a veracity and reality. People all around the world are excited to watch the driverless car in reality. Selfless car does not need the human intervention. Complete driverless car is still at an advanced testing stage, but partially automated technology has been around for the last few years. A partially automated vehicle has the features such as lane keeping, automatic braking, and adaptive cruise control etc. In autonomous vehicle system the car must sense the environment and detect the objects and with the help of GPS it must run through the right navigation path whilst obeying traffic and transportation rules.in addition to that safety of passengers and the foot walkers is also much more important. This means to avoid the colliding with obstacles and meeting with accidents. To prevent the autonomous vehicle, this autonomous system helps a lot. The sensor used in this system identifies the objects in front of the vehicle and stops the vehicle guides it to move in different direction to avoid accidents. This accident avoidance system helps the autonomous vehicle to reach the destination by training the vehicle with artificial intelligence. By making the vehicles smartest the life style also becomes smartest.

No. of Pages : 6 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/05/2019

(21) Application No.201941017288 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : MUCOADHESIVE MULTI-UNIT MINI PATCHES (MMMP) IN ENTERIC COATED CAPSULES FOR CONTROLLED RELEASE OF LANSOPRAZOLE

(51) International classification :C07K16/00
(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

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1)SHANTA KUMARI ADIKI
2)SANTHISREE VEMULAPALLI
3)PRAKASH KATAKAM

(57) Abstract :
The present invention maily related to the field of pharmaceuticals specific to drug delivery field. The present invention relates to the formulation and evaluation of oral mucoadhesive multi-unit mini patches (MMMP) of lansoprazole (LAN) for extended release. More particularly application of this specification is formulate and evaluate MMMP in enteric coated capsules for extended release of lansoprazole using chitosan in combination with xanthan gum, guar gum, tragacanth or acacia used in the ratios of 19:1, 9:1, 4:1, 1.5:1 and 0.66:1 thereof employing 2% acetic acid as solvent for chitosan, purified water as solvent for natural gum polymers and glycerin 0.12 mL as plasticizer. The invention relates to punching of patches into MMMP with 0.5 mm diameter and filling into hard glatin capsules and further treating the capsules with enteric coating polymers. The invention relates to characterization of prepared MMMP for surface texture, thickness, folding endurance, moisture content, moisture uptake, mucoadhesive strength, drug content uniformity, In-vitro drug release and accelerated physical stabiliity studies. The SEM photographs further showed the rough to smooth pattern of surfaces of patches. The thickness of MMMP found between 43.62±0.27 and 49.53±0.11 m. Mean weight of mini-patch was measured and found between 13.81+0.14 and 14.94+0.15 mg. The percentage of swelling was between 215±5.39 and 473±6.72. The moisture content was between 1.04±0.06 and 2.67±0.24. The mucoadhesion in terms of time reequired to detach all the MMMP from mucosal surface was found between 5.5+0.2 and 12.3+0.6 h. Percentage of drug content uniformity was between 95.08±3.42% and 99.16±4.73% for all formulations. The FTIR and DSC spectra indicated no drug-poymer interactions. The in vitro dissolution studies showed extended release of LAN from MMMP in pH 6.8 phosphate buffer where as no significant of drug release found in acidic environment showing that MMMP in enteric coated capsules could be employed to delivery LAN to intestine directly. Formulations LXF5, LGF5, LTF5 and LAF5 were optimized based on physical characteristics and in vitro drug release patterns. In all the cases the drug dissolution was reciprocal to the polymer concentration in the formulations. Among all natural polymers employed in this specification the decreasing order of drug release from the polymers was Xanthan gum > Tragacanth > Guar gum > Acacia. Accelerated stability studies showed no significant change ($p < .05$) in drug content and dissolution profile of all optimized formulations before and after the test. The prepared mucoadhesive multiple-unit mini patches (MMMP) in enteric coated capsules for controlled release of lansoprazole using natural polymers and could be successfully employed for intestinal delivery while minimizing the drug degradation and providing extended release of the drug.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/05/2019

(21) Application No.201941017300 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AN APPROACH OF WIRELESS SENSOR NETWORK AND DELAY-TOLERANT NETWORK DEPLOYMENT

(51) International classification :H04W4/00
(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

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(57) Abstract :
The challenges for deploying a Delay-Tolerant Wireless Sensor Network fare ijidentified in a subarctic climatic environment. Recording of environmental data and remote access of measuring stations is enabled by the network. This invention proposes a high-level network organization, reviewing different transport and network layer protocols required for the network. Existing sensor network deployments are reviewed for identifying the proposed network requirements for a particular scenario and specific application. The greatest challenges are the deployment area geographical properties and the network size. Different hardware and network technologies are used within the same network to deploy this network successfully. The applications requirements, the operation environment and radio communication conditions of the area are thoroughly investigated to deploy such a

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/02/2017

(21) Application No.201741004922 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AN IMPROVED ROTARY ENGINE

(51) International classification	:F02B 75/02, F02B 53/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)AYYAPPAN PILLAI, Anand Kotaykagath

(57) Abstract :
The present disclosure relates to an improved rotary engine. The improved rotary engine comprises a cam, a pair of springs, an air inlet conduit, a fuel inlet conduit, a piston, a spark plug, a chamber, a shaft, a rotor, a stator and an exhaust gas conduit. Further, a fuel injector and a compressor may also be utilized for fuel and air injection. The mechanism of the rotary engine in accordance with the present disclosure has also been disclosed.

No. of Pages : 10 No. of Claims : 0

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/05/2019

(21) Application No.201941017853 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : INTELLIGENT SYSTEM AND METHOD FOR MANAGING PERSONAL HEALTH CONDITION INFORMATION AND GENERATING APPROPRIATE PRESCRIPTIONS

(51) International classification :A61B5/00
(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

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5)SURYA PRAKASH KATEKONDA

(57) Abstract :
Exemplary embodiments of the present disclosure are directed towards a system and method for managing health condition information and generating appropriate prescriptions, comprising: a first computing device 104, a second computing device 106 and a third computing device 107 are configured to collect a health condition information from a plurality of first end-users by a prescription generation module 110, the prescription generation module 110 configured to monitor the health condition information continuously and the prescription generation module 110 further configured to send a prognosis prescription to the first computing device 104, the second computing device 106 and the third computing device 107, the prescription generation module 110 comprises an information processing module 302 configured with a user access module 202 to access or register with the prescription generation module 110.
FIG. 1

No. of Pages : 36 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/05/2019

(21) Application No.201941017857 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : APPARATUS OF WRITING BOARD WITH THE PROTECTION OF BIOMETRIC BASED AND EYE SIGNAL

(51) International classification :G01M3/00
(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

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12)BANALA SARITHA

(57) Abstract :
Bio-metric and eye singled based writing board with secured and authentication features is the system of biometric identification of an individual using eye signals in real time. The setup is included within a board computing device with identification of the device placed board based on iris recognition within one or more cameras directed at one or both eyes, and/or other physiological, anatomical and/or behavioural measures. The Verification of user identity by the device can be used to enable or disable the display of secure information that is transmitted from the board device in order to determine appropriate security measure by remote processing units. The device which is incorporated within the server connected to the computing boards performs other functions including viewing the surrounding environment using camera(s), recording audio data via a microphone, and/or other sensing equipment.

No. of Pages : 27 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/05/2019

(21) Application No.201941017876 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SOLAR ENERGY COLLECTOR MADE USING PLURALITY OF ˜TRIANGLE OUTLINED REFLECTORS, CONCAVE CYLINDRICAL REFLECTORS, AND ABSORBERS™

(51) International classification :H01L31/00
(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

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1)VOORADI RAJESHWARA PRASAD

(57) Abstract :
ABSTRACT OF THE INVENTION The present invention named as Solar energy collector made using plurality of ˜triangle outlined reflectors, concave cylindrical reflectors, and absorbers™ • is a stationary solar thermal energy collection device having sunlight concentration ratio of three. This device is useful for steam generation and also useful for heating of thermic fluid up to temperatures more than 100 degrees centigrade. The present invention relates to Physical Sciences. This device consists of following components. 1) Plurality of ˜triangle outlined sunlight reflectors, concave cylindrical sectioned sunlight reflectors, and solar energy absorbers placed in parallel rows on their supporting means, such that there are two concave cylindrical sectioned sunlight reflectors in between two triangle outlined sunlight reflectors and a solar energy absorber placed just above interconnecting linear joint of two concave cylindrical sectioned sunlight reflectors • . Said all reflectors and solar energy absorbers are arranged such that those are capable of collectively intercepting and absorbing most of the energy of sunlight incident on them. 2) A big framed structure or any other suitable means • capable of holding and supporting said plurality of sets of triangle outlined reflectors, concave cylindrical sectioned sunlight reflectors, and solar energy absorbers in predefined manner • on its top side. 3) Detachable manifold • for holding and supporting ˜inlet, and outlet header pipes™ in thermal insulated covering. 4) Detachable transparent top covering • provided to cover top surface of said device to prevent accumulation of dust on said plurality of sets of triangle outlined reflectors, concave cylindrical sectioned sunlight reflectors, and solar energy absorbers™ • . 5) A detachable • tank mounted on a stand at suitable elevation can be provided (adjacent to said solar energy absorbing device) for storage of ˜water, or thermal fluid™ for continuous supply of ˜water, or thermic fluid™ through thermal insulated pipe conduits to inlet header pipes of solar energy absorbing means to avoid development of high temperature in said solar energy absorbing means by ensuring continuous supply of ˜water or thermic fluid™ used for circulation of thermal energy. Said two types of reflectors namely triangle outlined reflectors, and concave cylindrical sectioned sunlight reflectors reflect most of the incident sunlight towards ˜the solar energy absorber provided in between them, subjected to the condition of orientation of the device such that said all reflectors and absorbers are capable of receiving and intercepting sunlight throughout day.

No. of Pages : 66 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/05/2019

(21) Application No.201941017384 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SLOTTED WHEEL MICROSTRIP PATCH ANTENNA BASED RF ENERGY HARVESTING SYSTEM

(51) International classification :H04B7/06
(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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10)Shilpa Jindal

(57) Abstract :
In today™s world there are massive crisis over power utilization. The proposed RF energy harvesting circuit includes a slotted wheel dual broadband antenna which can be utilized for Wi-Fi and various other wireless applications such as Bluetooth, Wireless body area network and WLAN. The antenna resonates at 2.4 and 5 GHz with a bandwidth approximately to 62% and 65% of the resonating frequencies respectively. The energy harvesting circuit comprises of five components, the first one being the slotted wheel microstrip patch antenna as described earlier. It can be used to harvest energy from Wi-Fi and other RF sources. The next element being the matching network, the purpose of use of matching network is that maximum power can be transferred from the antenna to the rectifier circuit. The next element is rectifier which is used to convert the AC input to DC. The output of the antenna is AC signal but we need a DC Output, therefore the rectifier is used for this conversion. The next element is the power managing circuit which is used to increase the voltage across the circuit. The last element used is the load across which the output is showcased. Hence, with this a complete circuit for RF energy harvesting over Wi-Fi signals has been proposed.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/05/2019

(21) Application No.201941017442 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DEPOSITION OF SOLAR REFLECTIVE COAT ON THE OUTER WALL OF PLASTIC CONTAINER FOR ENHANCED SOLAR WATER DISINFECTION APPLICATIONS

(51) International classification :H02S20/00
(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

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4)Mr.Putti Venkata Siva Teja
5)Mr.Maduthuri Venkatesh:

(57) Abstract :
The present invention discloses a technique to improve disinfection rate in water stored in plastic containers like bottles and cans by depositing Aluminium (Al) or Chromium (Cr) or other materials capable to obtain mirror like finish on the outer surface of the plastic bottle. These materials can be deposited by Chemical vapor deposition or vacuum metallization. The plastic containers can be of various shape and sizes. This phenomenon can be applied onto plastic water portable or storage containers with or without antimicrobial/ germicide materials coated on the inner wall/s of the water storage containers. The mirror like solar reflector coat will bounce radiation back from surface and helps to boost the rate of inactivation of microbes or reduce the microbial activity in the water body. Furthermore, when deposited on bottles which already have an inner lining of antimicrobial or photo-catalytic coating this reflective outer coat will enhance the efficiency of inner coat.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/05/2019

(21) Application No.201941017459 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AN INDEPENDENT, PAN-INDUSTRY NETWORKING AND MARKETING APPLICATION FOR INDEPENDENT MUSIC PROFESSIONAL,ENTITIES AND CONSUMERS

(51) International classification :G06Q30/02
(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

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1)KAUSHAL CHANDRASEN

(57) Abstract :
This application relates to Information and Communication Technology (ICT) in the music industry, designed to empower every individual and entity connected to the music and performance industry across the globe to operate independently, to be able to directly reach out to and make their products & services available to their customers, fans and to the the public, and actively integrate the audience into the cycle of creation, promotion and consumption greatly reducing the time, effort and costs of production, promotion while adding much value to the consumer. Designed to address issues related to artist revenues, that points to a large disconnect between different streams in the industry, it includes all possible entities related to the music industry and its consumers in its core functionality, to create and increase opportunities for all kinds of talent in the music and performance industry in one place.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201941017885 A
(19) INDIA
(22) Date of filing of Application :04/05/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : A NOVEL PAIN FREE WET GRINDER FOR FASTER GRINDING AND EASY COLLECTOIN CUM CLEANING PROCESS

(51) International classification :B02C17/16
(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
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(57) Abstract :
A Novel wet grinder 100 for faster grinding and easy grinded material collection, which consist of Drum 101 in which Roller stone 108 rotates over Fixed Flat Stone 113 for grinding the material of interest. Unlike conventional wet grinders, the Drum Assembly 101 is static and the roller stone 108 is rotatable with the help of Motor Unit 110 connected to roller stone 108 through Roller shaft 109 in roller holder assembly 109. This mechanism of fixed drum assembly 101 and variable speed rotatable roller stone 108 increases the grinding speed of the material of interest. The wet grinder includes Hosing Unit 103 in which Outer dispatch valve 104 and Inner dispatch valve 105 is connected. After the grinding process is complete in Drum unit 101, the low viscous/high viscous liquid can be released by opening the outer dispatch valve 104. After collecting the low viscous/high viscous liquid, the Drum Unit 101 is cleaned by pouring water inside drum unit 101 and rotated for few minutes to collect the water through inner dispatch valve 105. This mechanism of collecting the low viscous/high viscous liquid and water is not novel in this invention unlike conventional wet grinders. Another advantage of Static drum unit 101 is that, the vessel from which the grinding material is loaded can be placed on the drum unit, which ensures hassle free and safe loading for women engaged in grinding process. FIG. 1 & 2

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/05/2019
(21) Application No.201941017892 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : BIOLOGICAL EFFECTS OF CAMPSTEROL IN LUNG AND LIVER DISEASES ISOLATED FROM EUPHORBIA HETEROPHYLLA STEMS

(51) International classification :A61K31/00
(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
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2)MAMILLAPALLI VANI

(57) Abstract :
The present investigation aims at isolation, characterization, and identification of antiasthmatic and hepatoprotective activities of Campsterol by selective animal models from the plant Euphorbia heterophylla stem extracts. The selected plant is poisonous but used in traditional practices. GC-MS, column chromatography, spectroscopic techniques were used to isolate and characterize Campsterol in present plant extracts. Antiasthmatic studies were carried out by histamine and acetylcholine induced bronchospasm and ileum contraction models in guinea pigs. The hepatoprotective activity was studied by CCl4 induced hepatotoxicity model in rats. The results indicate that Campsterol exhibited anticholinergic bronchospasmolytic activity comparable to standard drug Atropine sulphate. The isolated component also exhibited decrease in biochemical marker enzymes ALT, AST, ALP and regeneration of damaged hepatocytes in the histopathological study comparable to standard drug silymarin. Further studies can be carried out to understand the mechanism of action, drug development of Campsterol which may act as a novel bronchodilator and hepatoprotective agent.
Keywords: Campsterol, bronchodilator, hepatoprotective

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/05/2019

(21) Application No.201941017987 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : LORAWAN BASED ROOT KEY UPDATE SCHEME

(51) International classification :G08C17/00
(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
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(57) Abstract :
A new low-power wide-area network (LPWAN) protocol applied for Internet of Things (IoT) technology is LoRaWAN. Long-range coverage and low power consumption are the key features of LPWAN. The basic security scheme is provided by the specifications of LoRaWAN 1.1 whose key management is to be improved. The security of LoRaWAN 1.1 is reviewed in this invention. The root key updated scheme enhances the security of LoRaWAN 1.1. The cryptoanalysis of security keys is more difficult in LoRaWAN with the rootkey update. Fewer computing resources are required by the proposed root key update scheme compared with other key schemes including the LoRaWAN key update scheme. The simulation and analysis of the proposed scheme shows high degree of randomness, the basic requirement for a security key.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/05/2019

(21) Application No.201941017502 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : FORMULATION OF GLIMEPIRIDE TABLET USING A NOVEL DILUENT AND SUPER ACTING DISINTEGRANT ISOLATED FROM NYMPHAEA PUBESCENS

(51) International classification :A61K9/00
(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

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2)K. DEVAGI

(57) Abstract :
The present invention states that the novel starch as a novel diluent and a super acting disintegrant is isolated from the rhizomes of Nymphaea pubescens. Glimepiride tablet is formulated by using novel diluent and superdisintegrant by direct compression method. The starch is isolated by conventional method and characterised by microscopical evaluation, SEM analysis and its thermal degradation property by differential scanning calorimetry method. The formulated Glimepiride tablet is evaluated for precompression and postcompression parameters. The percentage purity of Glimepiride tablet is done by HPLC method. In post compression parameter the disintegration time is found to be two seconds thereby acting as super acting disintegrant when compared to existed starch. Therefore the novel starch isolated from the aquatic plant Nymphaea pubescens rhizome can be incorporated as superdisintegrant and diluent in the formulation of dispersible tablets.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/05/2019

(21) Application No.201941017540 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : MINING POSITIVE AND NEGATIVE ASSOCIATION RULES FROM MULTI DATABASE IN DISTRIBUTED ENVIRONMENT

(51) International classification :G02B1/00
(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

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(57) Abstract :
The current invention is a multi-database mining model is proposed to find interested global positive and negative association rules without placing all databases of different branches at one place i.e. centralized database. Each local branch computes frequent and infrequent items of its database and sent along with support values to the administrator site. At this site a weight is assigned to each local frequent item set and based on these values each branch database weight is calculated. Global frequent and infrequent item sets are extracted from local patterns based on the weights of databases. Pruning strategies are also adopted in the proposed model to find interested frequent and infrequent global patterns. Global positive association rules are generated from global frequent item sets whereas global negative association rules are generated from global infrequent item sets.

No. of Pages : 24 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/05/2019

(21) Application No.201941017674 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A SYSTEM AND METHOD OF MECHANICAL ROTARY TO RECIPROCATING VIA METAMATERIAL MECHANISM

(51) International classification :G02B1/00
(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

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(57) Abstract :
A mechanical metamaterial mechanism includes a three-dimensional matrix of extraordinary response to applied force, including negative bulk moduli, negative Poisson™s ratio and negative mass densities. In this invention done tuneable metamaterial structure makes a flexible substrate capable of being strained, a metamaterial pattern on a surface of the flexible substrate, and a plurality layer on the metamaterial pattern. Which manifests a negative stiffness • and can be seen in the SC material. The negative stiffness is a unique snap-through • property that can be engineered into the material. Machines perform a mechanical function and consist of one or more basic or compound mechanisms. In particular they changed the rigid inside structure of objects in order to optimize the object™s strength-to-weight ratio. In this embodiment 3D printing techniques used to develop architected materials with precisely designed geometries that can support the prototyping of exceptionally lightweight, strong, and tough metamaterials. Control of such complex geometries has been made possible by advances in 3D printing techniques.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201941017694 A
(19) INDIA
(22) Date of filing of Application :03/05/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : SMART ELECTRICITY CONTROLLER FOR DOMESTIC

(51) International classification :H02J13/00
(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

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(57) Abstract :
This invention is about a smart control unit for domestic usage for monitoring and regulating consumption of electricity. This unit is IOT enabled and interfaced with regular house-hold devices or appliances such as TV, tube lights, fans, AC units, refrigerators, laptops etc. The unit consists of a microcontroller, a current sensor, relay boards, a GSM unit and a display unit. The consumption of electricity by each device is assessed by a program resident in the microcontroller. The innovative aspect of is that the user will be able to communicate with device through a mobile application and also get real time alerts on the electricity consumption. Other innovation is the device will be made available in the form of switch board that can be integrated in to households through easy installation.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/04/2019

(21) Application No.201941016866 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AUTOMATIC SHUTTLE MOVEMENT DETECTION IN HANDLOOM MACHINE

(51) International classification :D03D47/00
(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

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(57) Abstract :
The yarn in the shuttle was obtained from the raw cotton fiber as a single winded threaded fiber with a uniform width and length. The movement of the shuttle object makes the process of weaving compatible by providing a sliding movement between the warp and weft i.e., the horizontal and vertical oriented threads in the handloom machine. The shuttle carries the warp in the form of clew whereas the weft was made stationary in vertical pattern in the handloom machine. Thus the movement of shuttle that carries the warp clew in between the weft will provide a structure that resembles like a matrix that creates a cloth. Any discontinued or irregular movement in the shuttle will make the misalignment in the warp and weft thereby it makes the process of weaving as a tedious one. we designed a circuit which can be incorporated in the handloom machine for effective identification of misalignment in shuttle movement.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/04/2019

(21) Application No.201941016868 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AUTOMATIC ABNORMAL YARN TENSION DETECTION AND CONTROL IN HANDLOOM MACHINES

(51) International classification :D03D47/00
(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

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(57) Abstract :
The perfect tension in the yarn is an essential parameters that defines the confines and quality of the fabric that weaved in the handloom machine. Any changes that are made in the yarn tension will result in the decrement of quality. Thus it is essential to maintain the yarn tension as constant throughout the process. The yarn in the shuttle was obtained from the raw cotton fiber as a single winded threaded fiber with a uniform width and length. The shuttle carries the warp in the form of clew whereas the weft was made stationary in vertical pattern in the handloom machine. If the tension in the warp yarn decreases or if the yarn was broken accidentally, the conventional handloom machines does not have any system to detect it. Thus the usage of limit switch will help easy identification of abnormal yarn tension. We have designed a circuit using limit switch controlled by an microcontroller for easier identification of abnormal yarn tension identification and control action.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/04/2019

(21) Application No.201941016937 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : FINGER VEIN AUTHENTICATION APPARATUS AND A METHOD THEREOF

(51) International classification :A61B18/00
(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

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3)ANAND OLIVER, Sheryl Oliver
4)JOHN JUSTIN, Jean Justus
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6)SELVARAJ, Vinu

(57) Abstract :
The present invention relates to Fingerprint authentication system using Finger vein analysis through Support Vector Machine.algorithm using image processing methods. The image processing system consists the steps such as, Image acquisition either by offline or online means and Pre-processing of the infrared image. Fig 1.

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201941016941 A
(19) INDIA
(22) Date of filing of Application :29/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : IMAGE PROCESSING SYSTEM FOR LUNG CANCER IDENTIFICATION

(51) International classification :G06F17/00
(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

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4)JOHN ROSE, ANITA ROSE
5)MAHALINGAM,SHALINI
6)KALIYAPERUMAL,VIJAYALAKSHMI

(57) Abstract :
The present invention relates to identification of malignancy level classification of lung cancer through machine learning. An image processing system for lung cancer identification comprises of; an image pre-processing; image segmentation; feature extraction; image classification; and prediction characterized in that said feature extraction process comprises of Structural Co-occurrence Matrix (SCM) technique and said image classification comprises of support vector machine (SVM) technique processed in a digital image processing environment.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/03/2019

(21) Application No.201941010365 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : LASER FLASH THERMAL DIFFUSIVITY ANALYSER FOR THE MEASUREMENT OF THERMAL PROPERTIES OF SOLID MATERIAL

(51) International classification :G01N25/18
(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)P. KARUPPASAMY
3)S. SIVANESAN

(57) Abstract :
Title: Laser flash thermal diffusivity analyser for the measurement of thermal properties of solid materials. The present invention describes the experimental set-up arrangement of laser flash thermal diffusivity analyser and discloses the measurement method of thermal properties of solid materials. The laser flash thermal diffusivity analyser set-up arrangement comprising laser source (1), furnace or heating chamber (2) coupled with liquid nitrogen cooling system (5) and vacuum pump (29), non contact Infrared (IR) detector (3) attached with software integrated computer (4) to retrieve the temperature data.

No. of Pages : 31 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/04/2019

(21) Application No.201941017055 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DEVELOPMENT OF GAS INSULATED OR XLPE RELIABLE UNDER GROUND CABLES TO SUIT DIFFERENT SOIL PROFILES

(51) International classification :H02G5/00
(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

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12)M. MAHESHWAR I

(57) Abstract :
The gas filled/ cross linked poly ethylene (XLPE) underground three core cable comprising stranded conductor covered by impregnated dielectric material filled with Sulphurhexa-fluoride gas or covered with XLPE material. The three conductors are fitted in a lead sheathing. The outer two layers are covered by armoring and serving of superior quality dielectric material.To prevent such recurring failures and to avoid traffic disturbance, design and development of improved version of cable technology over the existing cables of Rubber, VIR, impregnated paper, PVC is proposed for invention to study in this project. Main parameters to be focused on design of the underground cables are thermal resistivity of soils, resistivity to water content, mechanical, and resistivity to electro chemical reaction / soil conditions. The material specifications of outer layers of underground cables i.e., Armoring and serving layers play an important role for development of reliable cable for power transmission through underground soil medium. This work mainly for development of Gas Insulated or XLPE or oil Paper Insulated cables.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201941017192 A
(19) INDIA
(22) Date of filing of Application :30/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : SAFEGUARDING MECHANISM FOR INDUSTRIAL EQUIPMENT FROM FIRE ACCIDENTS

(51) International classification :H02J9/08
(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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4)A.Shiva Nagu
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6)G.Brahmachary
7)B.Manish Kumar

(57) Abstract :
The present disclosure is about safeguarding equipment against industrial fire accidents. As safety plays a major role against all adverse conditions, fire accidents being the major ones, protection of machinery /equipment is always on top priority. Not only the human loss but also the sophisticated and expensive machinery need to be safe guarded against the fire mishaps. The machines are likely to be exposed to heat and fire in large scale at the time of industrial fire accidents. The thermal insulated cabin made of vermiculate silica fabric is hung above the machine which drops down as the fire breaks out in the vicinity of the machine. The vermiculate silica fabric can withstand high temperatures and all types of fires too.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201841009356 A
(19) INDIA
(22) Date of filing of Application :14/03/2018
(43) Publication Date : 10/05/2019

(54) Title of the invention : 3- DIMENSIONAL CONVEYOR SYSTEM

(51) International classification :B29C64/20
(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)M Thamaraiselvan

(57) Abstract :
CONVEYING SYSTEM A Conveying system (200) used to transfer materials across points located at same or different floors with capability to travel on routes consisting of horizontal, curved or inclined paths without needing additional support structure underneath. The conveyor system (200) comprises of single molded or 3D printed Modular Heavy-duty belt leaf (100) structure with assembled rollers (5) to carry loads on side guide rails without needing additional support structure underneath, wherein square tubes or profiles used as guiding tracks (6). A plurality of belt leaves (100) may be linked in series for forming belt section to required length. The present system is simple, scalable architecture with higher flexibility, less maintenance and wears also unique values with less cost of ownership. Most illustrative figure: Fig.1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/09/2018

(21) Application No.201841035948 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : TWO WHEEL DRIVE HYBRID POWERTRAIN FOR SCOOTERS

(51) International classification	:B62H7/00
(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

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1)LAKHAPAMU GNAN SANDEEP

(57) Abstract :
This invention relates to a hybrid two-wheeler where a hub motor and a DC motor are connected to the front wheel and rear wheel respectively in which an IC engine is already connected in the two-wheeler conventionally wherein a mechanism is introduced to regulate the rotation of the actuation of the motors with respect to the wheels in such a way that rotation of the actuation by the IC engine is restricted to the other actuators and vice versa where an electronic control unit is fixed which controls all the motors in plurality of operating modes. Fig 2.

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/03/2019

(21) Application No.201941011910 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AUTOMATED EXTERNAL DEFIBRILLATOR SYSTEM WITH INTELLIGENT ECG DETECTION AND AUTOMATIC VERNACULAR LANGUAGE ASSISTANCE

(51) International classification :A61N1/00
(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

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(72)**Name of Inventor :**
1)T. THYAGARAJAN
2)SABITHA RAMAKRISHNAN
3)G. ANAND

(57) Abstract :
Title: Automated externa! defibrillator system with intelligent ECG detection and automatic vernacular language assistance An automated external defibrillator system with ECG detection and vernacular language assistance is disclosed. The system comprising: a plurality of modules including at least one high voltage charging and discharging module (10), at least one ECG acquisition module (20) comprising at least one ECG signal analyzing and determining unit (21) which is configured to analyze ECG signal in time domain, at least one shock level control module (30), at least one vernacular language support module (40) which is selected either automatically or manually, enabled with GPS unit (41) for providing audio and visual command assistance in selectable list of Indian Languages and at least one user interface module (50) including at least one TFT touchscreen LCD display unit (55), at least one LCD display unit (51), at least one speaker (52) for outputting vernacular language based audio prompts, a plurality of LEDs (53) and a plurality of control buttons (54).

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201941013082 A
(19) INDIA
(22) Date of filing of Application :02/04/2019
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM AND METHOD FOR AUTOMATIC LIQUID LEVEL CONTROL IN A LIQUID STRORAGE UNIT

(51) International classification :G01M3/00
(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

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1)D Vishnu Nampoodiri

(57) Abstract :
The present invention discloses a system (100) and method for automatic liquid level control. The system (100) is generally installed in places having liquid tanks (105). The system (100) has an automatic control unit (103) that controls operation of electrical pump (113) used to fill liquid in tank (105) based on liquid level sensed by 6 mm pressure pipes (104) and (108) connected to the tank (105). Electrical pump (113) is turned ON, when the liquid level is below the preset low level in the tank (105) and turns OFF when the liquid level is above the preset high level in the tank (105). The user can choose intermediate filling mode to fill the tank (105), when liquid is above the preset low level but below the preset high level in the tank (105). The system (100) also turns OFF the electrical pump (113) and buzzers the user, when dry run occurs or when no liquid in the sump or well (114) occurs.

No. of Pages : 33 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/03/2019

(21) Application No.201941009746 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ENHANCEMENT OF DIRECT METHANOL FUEL CELL PERFORMANCE WITH NAFION PROTON EXCHANGE MEMBRANE OPTIMALLY EXPOSED TO ULTRAVIOLET RAYS

(51) International classification	:H01M 8/00
(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

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6)PETER FERNANDES

(57) Abstract :
According to the basic aspect of the present invention there is provided an enhanced direct methanol fuel cell (DMFC) device power. The DMFCs used fuel flow channels fabricated in <100> silicon wafer orientation for transport of fuel (methanol with water at anode and air/oxygen at cathode in this case) and nafion membrane with optimally irradiated ultraviolet (UV) rays as proton exchange membrane. The process comprises: cleaning of <100> silicon wafers, growing of silicon dioxide (Si02) by wet oxidation, spinning positive photo resist on both sides and front side UV exposure using level 1 mask (to feed methanol with water at anode and air at cathode), development of positive photo resist, etching front side Si02 using buffered hydrofluoric acid, stripping front side and back side positive photo resist using acetone, etching silicon by means of tetra methyl ammonium hydroxide (TMAH) for through holes, spinning positive photo resist on both sides and front side UV exposure using level 2 mask (fuel flow channel mask), development of positive photo resist, etching front side Si02 using buffered hydrofluoric acid, stripping front side and back side positive photo resist using acetone, etching silicon by means of TMAH for fuel flow channels, sequential sputtering of Chrome-Gold to form electrical contacts and electrodes on fuel flow channels. Further, Pt nano-particles (for anode) and Pt-Ru nano-particles (for cathode) are suspended in Isopropyl alcohol to form the catalyst solutions which are then loaded in gas diffusion layers (GDLs). DMFC devices are assembled: first, by preparing membrane electrode assembly (MEA) consisting of optimally UV irradiated nafion membrane sandwiched between two catalyst loaded GDLs; and second, by sandwiching MEA between two silicon fuel flow channels and placing the assembly between two identical aluminum reservoirs both at anode and cathode of DMFC for enhanced power output. Ref: Fig 1.

No. of Pages : 20 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/04/2019

(21) Application No.201941016358 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AN ORGANIC ANTI-MOLD BAKERY ADDITIVE

(51) International classification :C08F220/00
(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

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(57) Abstract :
Organic Anti-mold Bakery additive • is a natural mold inhibitory food additive which is produced by fermentation of grain flours like wheat or corn converted from the non-edible grade grains followed by downstream processing steps to extract the natural organic acids as preservative components and filter out all protein content. At a minimal dose of 0.3 to 0.5 % will enhance the shelf life of bakery products by 25-30 days. The microbial source used for the production of this product is a bacterial consortium of three Propionibacterium strains, which were culturally modified by way of strain improvement through medium optimization experiments for product yield enhancement at the ˜in house R&D section™ of Prathista Industries Limited. The active ingredient in Organic Anti-mold Bakery additive • is a combination of naturally produced organic salts, including propionates, lactates, acetates that have anti-mold properties along with flavor and texture improving efficiency for the finished product.

No. of Pages : 21 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/04/2019

(21) Application No.201941016364 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AN ORGANIC, NATURAL ANTIMICROBIAL PRESERVATIVE FOR MEAT PRODUCTS

(51) International classification :A23L3/35
(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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(57) Abstract :
The present invention relates to an Organic, Natural Antimicrobial preservative for Meat products comprising of natural organic salts (majorly lactates and acetates) which are a completely safe, organic, natural ingredients for preventing spoilage of fresh meats and sausages under refrigeration and imparts an enhanced shelf life to the meat products. The present organic preservative is produced by a two-step microbial fermentation of reducing sugars extracted from sweet potato and cassava starches using Lactobacillus plantarum for the first anaerobic fermentation step followed by the second aerobic fermentation step by a bacterial consortium comprising of Saccharomyces cerevisiae and Acetobacter aceti followed by downstream purification steps. It imparts a long term preservation and shelf life to the meat products for a period of more than 20-25 days for fresh brined meat and more than 6-8 months for processed and cured, refrigerated meats.

No. of Pages : 19 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/03/2019

(21) Application No.201941012954 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CEMENT-WOOD COMPOSITE DOOR AND CUPBOARD DOOR, CEMENT BACKED DECORATIVE LAMINATE AND CEMENT FACED PLYWOOD BOARD •

(51) International classification :E06B3/70
(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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(57) Abstract :
Abstract Method for manufacturing cement - wood composite door, cupboard door, cement backed decorative laminate and cement faced plywood board • comprises the steps of placing a decorative laminate sheet on a plain surface in a backside up position, applying a special glue on the decorative laminate sheet, thereafter applying a coating of cement slurry on the laminate sheet, applying a glass fiber mat on the cement slurry coating, applying a second coating of cement slurry on the glass fiber mat, placing a timber frame on the cement slurry coating, filling a gap in the timber frame using special glue applied timber pieces, placing a flat plate on the timber frame and the gap filling materials with light pressure, then waiting for a time period of 24 hours to allow the cement to set so as to obtain a first part of the door. The above steps are repeated to obtain a second part of the door. The first part of the door is placed on the cement slurry and positioned in such a way that a laminated face of the first part is upside and the timber frame is downside. The timber frame and gap filling materials are coated with glue. A flat plate is placed on the whole setting with light pressure. The cement cures after 24 hours and side edges are trimmed to obtain a plain decorative laminate faced cement wood composite door. Ref Figure 1

No. of Pages : 35 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/04/2019

(21) Application No.201941013325 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM AND METHOD FOR PREDICTING WELLNESS MEASURES

(51) International classification :A61B5/00
(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
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2)Ganesh Suryanarayanan

(57) Abstract :
A method (200) for predicting a wellness metric (208, 314, 612) is presented. The method (200) includes maintaining (202) a model which receives as input a set of parameters and provides as output a wellness metric (208, 314, 612). Furthermore, the method (200) includes receiving (204) a set of non-invasive biological parameters (106, 404, 602) of a user (102). In addition, the method (200) includes providing (206) the set of non-invasive biological parameters (106, 404, 602) as the set of parameters to the model to cause the model to generate a wellness metric (208, 314, 612) for the user (102).

No. of Pages : 51 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/04/2019

(21) Application No.201941013350 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM AND METHOD FOR ACCESSING AND STARTING A VEHICLE USING WIRELESS SMART KEY DEVICE

(51) International classification :E03D9/00
(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

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2)Raghuvaran Modupalli

(57) Abstract :
A system and method accessing a vehicle using a wireless smart key device through the non-audible signal are disclosed. The system includes a communication unit in the vehicle and the electronic system in the wireless smart key device which does the entire operations for allowing the access. The communication unit includes a sensing unit, control unit, a speaker and a microphone. The communication unit is adapted to generate, send and receive tones, both the proximity tones and the user identification tones and to embed the tones with the required message. The method includes generating, sending, receiving, processing and authenticating the tones embedded with the message which utilizes non-audible communication. The system and method make the accessing of the vehicle possible. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/07/2017

(21) Application No.201741023937 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SAWTOOTH LOCKING SYSTEM FOR ASSAULT RIFLES

(51) International classification	:F41A17/54	(71)**Name of Applicant :**
(31) Priority Document No	:NA	**1)KARTHIK R. SINGH**
(32) Priority Date	:NA	Address of Applicant :D-2, QATERS AAI RESIDENTIAL
(33) Name of priority country	:NA	COLONY, MEENAMBAKKAM, PAZHAVANTHANGAL,
(86) International Application No	:NA	KANHEEPURAM DISTRICT, TAMIL NADU, INDIA. Tamil
Filing Date	:NA	Nadu India
(87) International Publication No	: NA	(72)**Name of Inventor :**
(61) Patent of Addition to Application Number	:NA	**1)KARTHIK R. SINGH**
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The Invention is related to the field of Firearm Technology more specifically the locking system for firearm, named as SAWTOOTH LOCKING SYSTEM FOR ASSULT RIFLES. The main purpose of this system is to reduce upward recoil and to maximize the barrel length of a gun by keeping the overall length of the gun as low as possible which provides more mobility and control to the user. Specifically, the design is made to fit the bullpup style gun configuration, where the stock of the gun has mechanical.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2019

(21) Application No.201941008848 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AN ELECTRICAL ENERGY STORAGE DEVICE FOR REDUCING HEAT DISSIPATION IN ENERGY SOURCES

(51) International classification :B60L3/00
(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

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(72)**Name of Inventor :**
1)A.Venkata Sai Teja
2)Mrinal Tyagi

(57) Abstract :
An electrical energy storage device for reducing heat dissipation in energy sources of an electric vehicle. The device includes one or more cells and a thermal exchange material. The one or more cells are arranged circularly in parallel connection on one or more first frames to form one or more blocks. The one or more blocks are electrically connected with each other in a series connection on one or more second frames to form one or more batteries. The one or more batteries are connected in a parallel connection to form a battery assembly. The thermal exchange material that is adapted to enclose a central cell of the one or more cells in each of the one or more blocks. The thermal exchange material reduces heat dissipation from the surroundings of the one or more cells by covering the heat generating tab between the one or more cells.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/02/2019

(21) Application No.201941004280 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : LAND MINE DETECTION ROBOT USING ROCKER BOGIE MECHANISM

(51) International classification :G05D1/00
(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

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4)Mr. S. Gangadharan
5)Mr. S. Arjun
6)Mr. S. Jeffrey Melvin
7)Mr. R. Ranjith
(72)**Name of Inventor :**
1)Dr. V. Balaji,
2)Mr. K. Balachandar
3)Ms. L. Shaalini
4)Mr. S. Gangadharan
5)Mr. S. Arjun
6)Mr. S. Jeffrey Melvin
7)Mr. R. Ranjith

(57) Abstract :
The landmine detection robot is constructed using the rocker and bogie suspension mechanism. The rocker bogie mechanism helps the vehicle to move in almost all terrains like desert, snow, rough surfaces. The main objective of this construction is to detect the land mines which are buried under ground and to minimize the loss of life. The mine is comprised of minerals that are metallic in nature hence a metal detector is induced in the system to determine the mines that are buried under the ground. The cart is controlled wirelessly with the help of a powerful Bluetooth module that can drive the cart to a longer distance. The cart motor functions are controlled by the use of the Arduino Uno circuit which is programmed with simple loop commands.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/04/2019

(21) Application No.201941013816 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : FLAT SURFACE PAINTING MACHINE

(51) International classification :B05C17/00
(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

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3)MARIAPPAN, MADHIVHANAN
4)RAVI, MALLIKA
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2)GNANARAJ, RAJAKUMAR
3)MARIAPPAN, MADHIVHANAN
4)RAVI, MALLIKA
5)SELVAM, SHARGUNAM

(57) Abstract :
The present invention relates to the field of automation based flat surface painting machine preferably for painting wall surfaces. A flat surface painting machine (1) comprises of a roller arrangement (11) for painting means, a paint mixing arrangement (31) for mixing and supplying paint, a horizontal guiding assembly (51) for horizontal movement, a vertical guiding assembly (71) for vertical movement; and a processing and controlling unit (81) characterized in that said roller arrangement (11) comprises of a roller (12) actuated by stepper motor means (15) and driven by starter motor means (16) such that the roller arrangement (11) is controlled by the processing and controlling unit (81). Figure 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/04/2019

(21) Application No.201941013817 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A METHOD TO MANUFACTURE COPPER NANOPARTICLES BY AQUA-CHEMICAL REDUCTION OF COPPER BASED SALTS

(51) International classification :C22F1/00
(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

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2)A. JAYSHREE

(57) Abstract :
The present invention relates to a method to manufacture copper nanoparticles wherein the said copper salts are vigorously stirred with reducing, capping and protective agent. The procedure is carried out at room temperature in the absence of solvent, instead water is used as dispersive agent and for washing impurities. The present invention provided a well defined shape and size of copper nanoparticles for mass production.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/05/2018

(21) Application No.201841020397 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : INTELLIGENT MOMENTARY PATH BETWEEN RAIL PLATFORMS

(51) International classification	:B65G 47/00
(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

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(72)**Name of Inventor :**
1)DR.C.CHELLASWAMY
2)S.SANJAY

(57) Abstract :
Though modern railway stations are equipped with escalators and elevators to facilitate uplifting of different users, it is again an unresolved predicament for the elderly and physically challenged people to cross between the platforms. To help these people to cross the platforms at ease, an intelligent method and apparatus are disclosed to monitor and control the momentary pathway constructed across two platforms. It has three main parts such as monitoring unit, signal control unit, and a vehicle control unit. The authorized user enters the cipher code and the required platform information, the system analyzes the availability of the platforms and informs the situation by corroborating the prevailing signaling parameters such as, arrival time of train for the platform, duration to be allotted to cross the platforms, and time limit for the pneumatic actuator to be active. The controller fetches all the data within a few seconds and allocates the time for the pneumatic actuator and helps the person to cross the platform and moving back pneumatic activators to their original positions. The start and end of the platform can be identified by the load cells which are fitted in the bottom of the momentary path.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2019

(21) Application No.201931010190 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A SYSTEM TO UTILIZE HYBRID RENEWABLE SOURCE OF ENERGY OBTAINED FROM ROADWAYS TO GENERATE ELECTRICITY

(51) International classification :F03G7/00
(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

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2)GURDEEP SINGH
(72)**Name of Inventor :**
1)ABHISHEK SINGH
2)GURDEEP SINGH

(57) Abstract :
This invention is a system to obtain the renewable source of energy generated using the roadways utilizing solar panels, wind turbines, piezoelectric arrays setup on the roadways. The roads arc constructed with roofs which protects the roads and the vehicles travelling under it from any form of climatic condition. The roofs are installed with solar panels made from efficient materials with backtracking mechanism to obtain maximum sun rays at all time. Wind turbines are arranged near the roads and also made airborne to consume maximum wind energy generated on road. The roads and the footpaths are arranged with piezoelectric array to obtain power generated using difference in pressure or motion. The generated electricity is utilized for the apparatus on road and the additional power is stored into an electric grid which is carried using an efficient transmission line capable of very low dissipation of electricity due to temperature difference. TITLE A system to utilize hybrid renewable source of energy obtained from roadways to generate electricity.

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

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.201711039230 A

(19) INDIA

(22) Date of filing of Application :03/11/2017

(43) Publication Date : 10/05/2019

(54) Title of the invention : A MULTI-UTILITY CARAFE

(51) International classification	:B65D25/56	(71)**Name of Applicant :**
(31) Priority Document No	:NA	**1)AGARWAL , Siddhant**
(32) Priority Date	:NA	Address of Applicant :B2/65 Safdarjung Enclave, New Delhi-110029 Delhi India
(33) Name of priority country	:NA	(72)**Name of Inventor :**
(86) International Application No	:NA	**1)AGARWAL , Siddhant**
Filing Date	:NA	
(87) 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 various embodiments of the present invention provide a multi-utility carafe comprising a base 101, a liquid compartment 104, an ice compartment 105, and a head 108. The base 101 is made up of a rigid material and comprises a switch 102, a rechargeable battery panel and an illumination panel 103. The illumination panel 103 forms a top portion of the base 101. The liquid compartment 104 is fixed over a top portion of the base 101 through a locking mechanism. The ice compartment 105 comprises a base cup 106 and a cap 107. The base cup 106 is fixed over the liquid compartment 104 though the locking mechanism. The cap is removably locked over the base cup. The head 108 is removable locked over the cap. The illumination panel is connected to the switch through the rechargeable battery panel. FIG. 1a

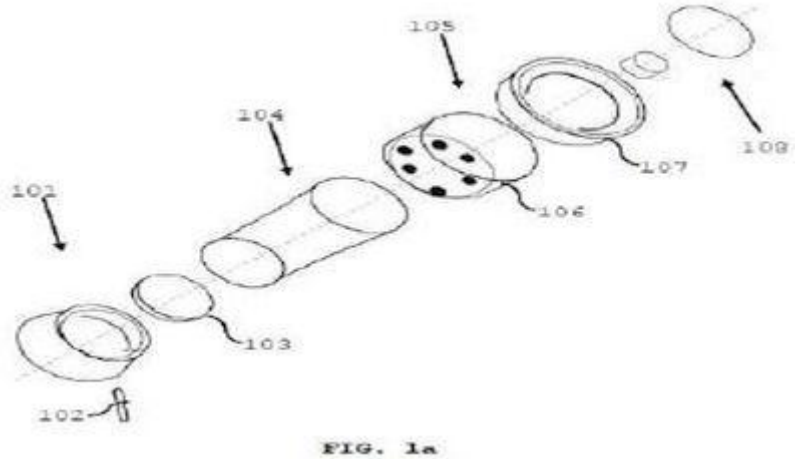

FIG. 1a

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2017

(21) Application No.201711039235 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ECOFRIENDLY AND BIODEGRADABLE LUBRICANT FORMULATION AND PROCESS FOR PREPARATION THEREOF

(51) International classification :C10M105/34
(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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2)ANJAN RAY
3)GANANATH DOULAT THAKRE
4)NEERAJ ATRAY

(57) Abstract :
The present invention discloses with the development of ecofriendly and biodegradable lubricant formulation useful for micro electro mechanical systems and process thereof. The new generation Mineral oil free lubricant formulations were developed by esterification of polyols such as 2,2-dimethyl, 1,3-Propanediol, 2,2-diethyl-1,3-propane diol, and aliphatic di carboxylic acids like adipic and azelaic and with mono alcohol, using heterogeneous catalyst Indion 140 with cation exchange properties. The said formulation has a viscosity in the range of 31 to 47 cSt at 40°C, a high viscosity index of 139-196, pour point of approximately < -39°C with a multifunctional EP additive of recommended dose of 1.5- 4%. These new generation lubricants exhibited excellent biodegradability, a high viscosity index, and a low pour point, a high flash point, good lubricity, good oxidative stability, very good protection, against wear, no evaporation loss, good adherence to metal, corrosion inhibiting characteristics and suitability for use with commercial additives. In addition the products are non toxic to,the sewage bacteria.

No. of Pages : 32 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2017

(21) Application No.201711039518 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AUTOMATIC FRESHWATER SUPPLY SYSTEM IN RAIL COACHES

(51) International classification :B61K11/00
(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

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Address of Applicant :26, Ahbabnagar, Jwalapur Haridwar Uttarakhand India
(72)**Name of Inventor :**
1)Vakeel Ahmad

(57) Abstract :
Invention relates to automatic freshwater water Supply & monitoring system for rail coaches, particularly but not necessarily exclusive to high speed & Indian Railways™ LHB type coaches. The invention enables automatic & continuous pressurized water supply to consumption points in the coach, and online communicating ˜low water™ level to pre-assigned phone numbers through SMS, facilitating the water replenishment in particular coach in running train, at next water filling station. In said invention, two small size auxiliary tanks I & II are provided, which are connected with under-frame mounted main tank through an ejector/eductor, which ensure a continuous pressurized water supply to consumption points. Air is fed to ejector/eductor to prime the system only once by filling the water in auxiliary tanks I. The ejector/eductor is also fed with pressurized motive water received from auxiliary tanks™ delivery pipe line. This pressured water drives the water supply from main tank to auxiliary tanks I & II, in a continuous cycle. The invention is reliable, energy efficient solution with low maintenance, for automatic & continuous water supply & monitoring system in high speed coaches.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2017

(21) Application No.201711039578 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DEVELOPMENT OF NUTRITIONAL WHEY-BASED SWEET LIME BEVERAGE (WHEY-LIME) USING HIGH PRESSURE PROCESSING

(51) International classification	:A23L 2/42
(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 SUDESH KUMAR YADAV
3)DR RAJENDER SINGH SANGWAN

(57) Abstract :
The present invention relates to a process for the development of high-pressure processed (HPP) whey-based sweet lime beverage (whey-lime). In order to enhance its functional quality and palatability, ingredients in the form of amla juice and ginger juice are also added. The sweet lime blended whey drink is processed at high pressure of 500 MPa for 10 min at 25 °C. The high pressure processed whey-based sweet lime beverage is kept in polypropylene bottles and stored at 4 °C. The whey-based sweet lime beverage is investigated for the presence of yeast, total plate count, aerobic mesophiles, coliforms, and lactic acid bacteria. The high pressure processed whey-based sweet lime beverage is found to be microbiologically safe for the period of 120 days at 4 °C. Moreover, HPP treated whey-based sweet lime beverage contains high amount of hesperidin which is a flavanone glycoside, that increases the functional quality of the beverage in comparison to control and heat treated whey-lime beverage. Therefore, high pressure processing of whey-based beverage with sweet lime along with addition of medicinal plant extracts (amla juice and ginger juice) is found to be useful in transforming the developed drink into a healthy and palatable functional beverage. This HPP processed whey beverage in the flavor of sweet lime and functional compounds from amla juice and ginger juice will bring a new technology for the dairy industry in India, where the huge amount of whey gets drained. The optimum use of liquid whey as valuable ingredient will be rendering a superior alternative for healthy beverage to consumers over carbonated, thermally treated, and artificial additives/preservatives/synthetic flavor added drinks.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2017

(21) Application No.201711039629 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A CONTROL METHOD AND SYSTEM FOR BATTERY CHARGING MANAGEMENT

(51) International classification :H01B1/127
(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)Nagaraju Ingurthi
3)Yoganand Parthasarathy
4)Suresh Kayanadath

(57) Abstract :
The invention relates to a control method and systems for battery charging management. A battery charging power management system of the present invention comprising an input energy supply unit (202) is operatively connected to a battery unit (205) through a battery driving unit (204). A control unit (203) is disposed between the input energy supply unit (202) and a battery driving unit (204). A closed loop charging controlling mechanism is integrated in the control unit to provide constant current charging operation in the battery unit by controlling a switching operating frequency Ts of the battery driving unit, wherein said charging operation is controlled instantaneously based on a, predetermined duty cycle D and the switching operating frequency Ts of the battery driving unit (204).

No. of Pages : 29 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2017

(21) Application No.201711039636 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A SYSTEM AND METHOD FOR MAINTAINING A CONSTANT CHARGING CURRENT IN A CHARGING SYSTEM

(51) International classification :H02J7/04
(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)Sanjeev Kumar
3)Suresh Kayanadath

(57) Abstract :
A system and method of maintaining a constant and Low THD charging current in a charging system is provided. According to an embodiment, the system for maintaining a constant and Low THD charging current in a charging system comprises an input energy supply unit (101) which is operatively connected to a charging unit (104) through a battery driving unit (103). The system further comprises a controller unit (102) which is disposed between the input energy supply unit (101) and a battery driving unit (103) and wherein said controller unit (102) is adapted to perform modulating a duty cycle as per mains signal. The controller unit (102) is adapted to perform modulating a duty cycle as per instantaneous value of mains, RMS value of mains and Peak value of mains of the mains signal.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2017

(21) Application No.201711039642 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ONE WAY VALVE PLUG FOR CONTAINER

(51) International classification :B65D1/00, B65D23/02
(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

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(72)**Name of Inventor :**
1)Prasad Dhume

(57) Abstract :
The present invention relates to a valve assembly unit (V) that is permanently fitted at the neck (N) of a container (I), the valve assembly unit (V) comprising: a plug (P) which is a part of the valve assembly unit (V) covered with a tamper proof cap (C); a ball (B) sits on the ball seat (4) in the cavity (I)I wherein the ball (B) moves upward and downward; multiple interlocking teeth (5) which lock with the container (I) at the neck (N) after the valve (V) is inserted into the plug thus preventing the plug and valve from being removed; uniquely positioned openings (O3) preventing refilling of bottle even if there is an attempt to fill the bottle in tilted condition; wherein the flow of the liquid is restricted by the movement of the ball (B), the ball (B) sits on the ball seat (4) when the container (I) is in the vertical position thereby preventing flow of liquid from the outside into the container (I) and allowing the flow of the liquid only when the container (I) is in the tilted position and the ball (B) is moved downwards. The plug for pouring liquids from a bottle or container, most likely agro-chemicals, has a one way ball type valve plug allowing liquid to be poured from the container or bottle while preventing water or any other liquid to be poured into the container or bottle. A new type internal locking arrangement prevents removal of the valve from the neck of the container. A tamper evident cap ensures sealing of the valve plug and prevents pilferage of the liquid from the container before being used by the user.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2017

(21) Application No.201711039663 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A SINGLE SENSOR BASED MAXIMUM POWER POINT TRACKING (MPPT) TECHNIQUE FOR BATTERY CHARGING

(51) International classification	:H02J7/00	(71)**Name of Applicant :**
(31) Priority Document No	:NA	**1)INDIAN INSTITUTE OF TECHNOLOGY DELHI**
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(86) International Application No	:NA	(72)**Name of Inventor :**
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(87) International Publication No	: NA	**2)PANIGRAHI, Bijaya Ketan**
(61) Patent of Addition to Application Number	:NA	**3)KUMAR, Nishant**
Filing Date	:NA	**4)HUSSAIN, Ikhlaq**
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present disclosure relates to a single sensor (3) based maximum power point tracking (MPPT) method for partially shaded photo voltaic (PV) array (1), for battery (4) charging. The method of the present disclosure is suitable for uniformly shaded as well as partially shaded condition. Moreover, the method is very economical and reliable due to the single sensor and its dynamic response is faster due to an optimization technique. [Figure 1.]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2017

(21) Application No.201711039858 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ANTI-UROLITHIATIC ACTIVITY OF COTULA ANTHEMOIDES: COMPOSITION AND PROCESS THEREOF

(51) International classification :A61K36/185
(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 :**
1)BHAT RASHID ABDUL

(57) Abstract :
The present invention discloses an oral herbal composition effective in management of urolithiasis comprising: 0.1 to 12% of whole or parts or refined extracts of whole or parts of Cotula anthemoides and a process of preparing the same. The composition is capable to prevent the formation of stone and dissolve the existing stones with minimum side effects on long term intake.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2017

(21) Application No.201711039867 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SODIUM BOROHYDRIDE SYNTHESIS FROM SPENT SOLUTION

(51) International classification :F01K11/02
(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 :**
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(72)**Name of Inventor :**
1)SUBHAM

(57) Abstract :
The present invention relates to a method for producing sodium borohydride (NaBH4) from a spent solution comprising sodium metaborate, cobalt borate, sodium hydroxide, potassium hydroxide and water obtained after hydrolysis of sodium borohydride. The present invention more particularly relates to recycling or regeneration of sodium borohydride from the spent solution which has a great potential to act as a fuel in a fuel cell.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/11/2017

(21) Application No.201711039911 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CONTEXT SENSITIVE IOT PLATFORM FOR ADVERTISEMENT AND USER ENGAGEMENT THROUGH SMART MIRROR

(51) International classification	:G06F9/4893
(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)Priyamvada Tripathi
(72)**Name of Inventor :**
1)Kanav Kahol
2)Priyamvada Tripathi

(57) Abstract :
The various embodiments of the present invention disclose a system for determining an environmental state and a behavioral state of a user by analysis of input signals. The present invention provides a portable device named as Smart mirror to act as the environment and user behavior recorder and analyzer. The smart mirror then functions as an advanced artificial intelligence based compatriot which provides a plurality of information, environmental effects, solutions to problem, mood enhancer effects, memory hub, remote device controller etc. Being switchable between an inert mirror and an interactive display, the smart mirror provides a comfort of a mirror and a data log unit. The smart mirror solves a problem of accessing a data in various distributed devices and provides a single point access.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/11/2017

(21) Application No.201711039960 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ECONOMICAL, CLEAN AND OPTIMUM TECHNOLOGY OF ASH DISPOSAL (ECOTAD)

(51) International classification	:C02F1/56	(71)**Name of Applicant :**
(31) Priority Document No	:NA	**1)DATTA ASHOK KUMAR**
(32) Priority Date	:NA	Address of Applicant :D-31, SECTOR-30, NOIDA UTTAR
(33) Name of priority country	:NA	PRADESH-201301, INDIA Uttar Pradesh India
(86) International Application No	:NA	**2)MRS. DUTTA RAJ**
Filing Date	:NA	**3)DATT VIVEK**
(87) International Publication No	: NA	**4)DUTT DEEPAK**
(61) Patent of Addition to Application Number	:NA	(72)**Name of Inventor :**
Filing Date	:NA	**1)DATTA ASHOK KUMAR**
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
ECOTAD.(Optimum,clean and optimum Technology efAsh Disposal) wllpermanehtly bury ash (fly-ash+bottom-ash)within excavated pits and it can be immediately implemented in new and existing coal/lignite fired power plants/industries because model test is not required. the ash-filled pits will be covered with a think layer of excavated soil. these activities with mitigate pollution, due to 4.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/11/2017

(21) Application No.201711039977 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A PORTABLE DEVICE FOR COOKING VARIOUS FOOD ITEMS

(51) International classification :F01M9/10
(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)ARCHANA MISHRA

(57) Abstract :
The present invention relates to a portable device for cooking various food items simultaneously. The device comprises an upper and a lower casing and a cooking plate in between held by a holding ring. There are five kinds of cooking plates used in this device. The plates are replaceable and are replaced depending on the type food item to be cooked. The five types of plates are rice plate, frying plate, roti plate, grilling plate and sandwich plate. The device is used to cook flat bread items such as roti, dosa, chilla, etc and cooking items such as rice, egg boil, vegetables, curries, Maggie, tea and coffee.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/11/2017

(21) Application No.201711040031 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A POWER TAKE-OFF ARRANGEMENT FOR A TRACTOR

(51) International classification :F01K27/00
(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)MITTAL, Sunil
2)CHAWLA, Jatinder Singh

(57) Abstract :
The present disclosure envisages a power take-off arrangement for a tractor. The arrangement comprises an input power shaft coupled with an engine of the tractor. A power take-off shaft is selectively engageable with the input power shaft to receive a mechanical drive. A handle facilitates the selective engagement between the input power shaft and the power take-off shaft. In a first operative configuration, at an engaged position of a clutch of the tractor, the handle is in a locked and a non-actuable state, wherein in the locked and non-actuable state the power take-off shaft and the input power shaft are disengaged. In a second operative configuration, at a disengaged position of the clutch, the handle is in an unlocked and an actuable state, thereby facilitating the selective engagement between the input power shaft and the power take-off shaft subsequent to actuation.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2017

(21) Application No.201711039736 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A HIGHLY SENSITIVE NSP1 ENZYME ASSAY AND KIT FOR DETERMINING INHIBITORS OF ALPHAVIRUS/CHIKUNGUNYA VIRUS

(51) International classification :C12N7/00
(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

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(72)**Name of Inventor :**
1)Shailly Tomar
2)Pravindra Kumar
3)Ramanjit Kaur

(57) Abstract :
The present invention is in the field of determining inhibitory compounds against the capping enzyme, nsP1 of alphaviruses/Chikungunya/alphavirus-like superfamily. The invention also provides kit for identifying inhibitors of capping enzyme as drugs for the treatment or prevention of infections caused by Chikungunya/alphavirus.

No. of Pages : 30 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2017

(21) Application No.201711039756 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ANTICORROSION ACTIVITY OF MILD STEEL FROM MICROALGAL STRAINS

(51) International classification :C07D249/06
(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)MONIKA PRAKASH RAI
2)ANWESHA KHANRA

(57) Abstract :
The present invention provides a novel approach for anti-biocorrosion efficiency of mild steel under acidic condition (IN HC1) by three novel isolated microalgae strains namely Chlorococcum sp., Desmodesmus sp. and Euglena sp. The methanolic extract (inhibitor) of all three microalgae is taken for the experimentation. Weight loss study, Electrochemical impedance (Tafel plots), > Atomic force microscopy (AFM) and Scanning electron microscopy (SEM) images confirm excellent performance of all three inhibitors for anti-corrosion behavior. The anti-corrosion efficiency obtained by three microalgae is comparative to their fatty acid components present therefore it is envisaged that FAME produced from microalgae may exposed as a successive inhibitor for mild steel in acidic condition.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2017

(21) Application No.201711039757 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SMART HANDHELD NANO DEVICE FOR ON SOPT BACTERIAL DETECTION

(51) International classification :G01N21/63
(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)DEVINDER MADHWAL
4)VINOD KUMAR JAIN

(57) Abstract :
The present invention provides a novel smart handheld device based on nanomaterial which provides both colorimetric detection of bacteria as well as quantification of the same.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2017

(21) Application No.201711039774 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PURINE BASED COMPOUNDS AS TOLL-LIKE RECEPTOR 9 ANTAGONIST

(51) International classification :C12N15/117
(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)GANGULY DIPYAMAN
3)MUKHERJEE AYAN
4)PAUL BARNALI
5)RAHAMAN OINDRILA
6)KUNDU BISWAJIT
7)ROY SWARNALI
8)DEBILNA RAYCHAUDHURI

(57) Abstract :
The present invention provides novel purine based compounds of formula 1, method of preparation of purine based compounds and its composition useful for inhibiting signalling through Toll-like receptors. These compounds are useful in inhibiting immune stimulation involving toll -like receptor 9 (TLR9). These can be used in treatment of autoimmune disease and inflammation where aberrant activation of TLR9 plays role.

No. of Pages : 54 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2017

(21) Application No.201711039798 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : IMPROVED BIO TOILET SYSTEM (IBTS)

(51) International classification	:Y02A40/208
(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 :**
1)KEWAL KUMAR

(57) Abstract :
The patent provides for a bio-toilet, duly isolated from the v toilet waste carrying auxiliary and main bio-tank via sliding valve and the non return valve; in order to isolate the coach environment from the undesirable odors, pungent and poisonous gases like Ammonia, Hydrogen Sulfide. These tanks are also contaminated with a large variety of bacteria viruses and pathogens which are responsible for causing more than a hundred varieties of diseases to the human beings; are spread through the toilets , ducts and non accessible locations which act as breeding ground in the coach. The bio waste is, therefore, proposed to be processed isolated from toilets in an under slung semi sealed bio-reactor tank with feed from a centralized storage. Bio reactor tank receives bio- slurry, through 3 number of auxiliary tanks each having a filter and macerating pump and it processes the same to convert it to waste water and gases. To ensure efficient functioning of the bio reactor, in which the over/under dilution of the slurry is a critical parameter, a < liquid content bypass is also provided. In addition to an automatic toilet over flow detection, deodorized spray, onboard sampling of bio generated water is provided in the toilets. The system operates through a microprocessor based control (PLC) to minimize staff intervention.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/10/2018

(21) Application No.201814038310 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : FUEL CELL SYSTEM AND METHOD OF CONTROLLING THE SAME

(51) International classification	:H01M8/24
(31) Priority Document No	:2017-216004
(32) Priority Date	:09/11/2017
(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

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1)Ryoichi NAMBA
2)Tomotaka ISHIKAWA
3)Yoshikatsu FUJIMURA

(57) Abstract :
A controller (20) of a fuel cell system performs cathode gas supply control to raise an average cell voltage of a fuel cell stack by increasing supply of cathode gas to the fuel cell stack, when electric power required to be generated by the fuel cell stack is equal to zero, and the average cell voltage is lower than a predetermined target voltage. Under the cathode gas supply control, the controller (20) sets the target voltage when a predetermined condition indicating that crossleak is likely to occur is satisfied, to a value higher than a reference target voltage as the target voltage in the case where the condition is not satisfied.

No. of Pages : 30 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/10/2018
(21) Application No.201814038524 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ELEVATOR

(51) International classification :B66B9/00
(31) Priority Document No :17200594.4
(32) Priority Date :08/11/2017
(33) Name of priority country :EUROPEAN UNION
(86) International Application No :NA
Filing Date :NA
(87) 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)Olli Pokkinen

(57) Abstract :
The invention relates to an elevator comprising - an elevator motor (12) - a motor drive (14) for the elevator motor (12) having a frequency converter comprising a rectifier bridge (16), an inverter bridge (18) and a DC link (20) in between, which frequency converter is controlled via a controller (34), the rectifier bridge (16) being connected to AC mains (42) via three feed lines (38a-c) comprising chokes (44a,b), and the rectifier bridge (16) being realised via controllable semiconductor switches (17a-f), - a contactor (40) being located between the feed lines (38a-c) and AC mains (42), - a backup power supply (48) at least for emergency drive operation, - an emergency control (35) for performing an automatic emergency drive, - the backup power supply (48) is via a first switch (52) connectable with only a first (38a) of said feed lines (38a-c). According to the invention - a second and/or third (38b,c) of said feed lines (38a-c) is via a second switch (54a,b) connectable as power supply to a car door arrangement (56), - the first switch (52) as well as the second switch (54a,b) are controlled by the emergency control (35), and - the emergency control (35) is connected to a manual drive circuit (78) having a manual drive switch (82) for a manual rescue drive.

No. of Pages : 22 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/10/2018

(21) Application No.201814038526 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ELEVATOR

(51) International classification :B66B9/00
(31) Priority Document No :17200594.4
(32) Priority Date :08/11/2017
(33) Name of priority country :EUROPEAN UNION
(86) International Application No :NA
Filing Date :NA
(87) 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)Arto Nakari
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(57) Abstract :
The invention relates to an elevator comprising - an elevator motor (12) -a motor drive (14) for the elevator motor (12) having a frequency converter comprising a rectifier bridge (16), an Inverter bridge (18) and a DC link (20) in between, which frequency converter is controlled via a controller (34), the rectifier bridge (16) being connected to AC mains (42) via three feed lines (38a-c) comprising chokes (44a,b), and the rectifier bridge (16) being realised via controllable semiconductor switches (17a-f), - a contactor (40) being located between the feed lines (38a-c) and AC mains (42), - a backup power supply (48) at least for emergency drive operation, - an emergency control (34a) is associated with the motor drive (14), which emergency control (34a) is configured to perform an automatic emergency drive. According to the invention - the emergency control (34a) is connected to a manual drive circuit (78) having a manual drive switch (82) for a manual rescue drive, and - the elevator comprises a motion sensor (35) connected to the emergency control (34a), whereby the emergency control is configured to activate a brake (32a, 32b) and/or gripping device of the elevator in case the car speed during a manual rescue drive exceeds a predetermined threshold value.

No. of Pages : 23 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/10/2018

(21) Application No.201814040431 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CAR SHARING FEE SETTING DEVICE, METHOD AND SYSTEM

(51) International classification :G07B15/00
(31) Priority Document No :2017-216611
(32) Priority Date :09/11/2017
(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

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1)Aya ONODERA
2)Akihiko NAKANISHI
3)Takumi HAMAJIMA
4)Yusuke TSUTSUI

(57) Abstract :
When a user who utilizes a gasoline-powered vehicle shifts to EV car sharing, and the user wishes to have applied a discount for shifting to EV car sharing, a fee setting device setting a car sharing fee requests the user to input a cost paid in the past to purchase gasoline (S120). The fee setting device registers the cost paid to purchase gasoline, as input (SI30), and if the cost paid to purchase gasoline is a predetermined amount or more, the fee setting device selects a first discount (SI50) and sets a basic fee (SI70). If the cost paid to purchase gasoline is less than the predetermined amount, the fee setting device selects a second discount (SI60) and sets a basic fee (S170). REFER TO FIGURE 6

No. of Pages : 52 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/10/2018

(21) Application No.201814040433 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : FEE SETTING DEVICE, METHOD AND SYSTEM

(51) International classification :G06Q10/06
(31) Priority Document No :2017-213947
(32) Priority Date :06/11/2017
(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

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(72)**Name of Inventor :**
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2)Akihiko NAKANISHI
3)Takumi HAMAJIMA
4)Yusuke TSUTSUI

(57) Abstract :
When a process of returning a vehicle is performed, a fee setting device identifies a zone where the vehicle is returned (S215), and calculates the identified zones zone SOC (S220). The fee setting device determines whether a discount for leveling is applicable (S240). The fee setting device compares a zone SOC of a zone where a user rented a vehicle and a zone SOC of a zone where the user returned the vehicle. When the zone SOC of the zone where the user rented the vehicle is larger than the zone SOC of the zone where the user returned the vehicle, the discount for leveling is applied.

No. of Pages : 51 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/10/2018

(21) Application No.201814040528 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : EARPHONE SOCKET, MOUNTING STRUCTURE AND MOBILE TERMINAL

(51) International classification :H01R13/10
(31) Priority Document No :201711096858.2
(32) Priority Date :09/11/2017
(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

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(72)**Name of Inventor :**
1)CHEN, JIA

(57) Abstract :
The present disclosure relates to an earphone socket, a mounting structure and a mobile terminal. The earphone socket includes: a support base; a functional assembly including a microphone resilient component, a right channel resilient component and a left channel resilient component which are fixed on the support base; and an earthing resilient component fixed on the support base. The microphone resilient component includes a first arc-shaped sleeve. The right channel resilient component includes a second arc-shaped sleeve. The left channel resilient component includes a circular sleeve and a first resilient contact piece coupled to the circular sleeve. The first arc-shaped sleeve, the second arc-shaped sleeve, and the circular sleeve are arranged to define a plughole configured to mate with the earphone plug. The first resilient contact piece is configured to press the earphone plug. Fig. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/10/2018

(21) Application No.201814040673 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : APPLICATION PREDICTION METHOD, APPLICATION PRELOADING METHOD, APPLICATION PREDICTION APPARATUS AND APPLICATION PRELOADING APPARATUS

(51) International classification :G06N5/00
(31) Priority Document No :201711091993.8
(32) Priority Date :08/11/2017
(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

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(72)**Name of Inventor :**
1)CHEN, YAN

(57) Abstract :
Provided are an application prediction method, an application preloading method, an application prediction apparatus and an application preloading apparatus. The application prediction method includes: obtaining a user behavior sample in a preset time period, where the user behavior sample includes an association record of usage timing of at least two applications determined from two or more applications on a terminal including a usage record of the at least two application and a usage timing relationship of the at least two applications; training a preset prediction model according to the association record of usage timing to generate an application prediction model, thereby may take full advantage of the association record of usage timing of the applications which may truly reflect the user behavior, optimize application preloading mechanism, improve the prediction accuracy of the application to be started effectively, and further reduce power consumption of the terminal system and memory usage. Fig. 1

No. of Pages : 39 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/10/2018

(21) Application No.201814041030 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD AND ARRANGEMENT FOR ASSIGNING THE SPATIAL POSITION TO A DEVICE

(51) International classification :H04B10/00
(31) Priority Document No :DE 102017219910.5
(32) Priority Date :09/11/2017
(33) Name of priority country :Germany
(86) International Application No :NA
Filing Date :NA
(87) 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 :**
1)DOMEISEN ; PATRIK
2)ZECHLIN ; OLIVER

(57) Abstract :
A method and arrangement for assigning the spatial position to a device, in particular in the context of the commissioning of the device (e.g. field device, actuator, sensor), wherein a positioning system is used to determine the spatial position of a mobile communication terminal located in the spatial vicinity of the device; wherein the mobile communication terminal (e.g. smartphone) is configured to transmit the spatial position to the device, and wherein the mobile communication terminal is furthermore configured such that the transmission of the spatial position from the mobile communication terminal to the device only takes place when the device has been identified as an authenticated receiver prior to transmission.

No. of Pages : 31 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/10/2018

(21) Application No.201814041091 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PLASTIC MATERIAL FOR IN-MOLD INJECTION MOLDING, PLASTIC PRODUCT, AND METHOD FOR PREPARING PLASTIC MATERIAL

(51) International classification :B29C45/26
(31) Priority Document No :201711078338.9
(32) Priority Date :06/11/2017
(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

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Address of Applicant :NO. 18, HAIBIN ROAD, WUSHA, CHANG'AN, DONGGUAN, GUANGDONG 523860, CHINA China
(72)**Name of Inventor :**
1)LI, JING
2)YANG, GUANGMING

(57) Abstract :
A plastic material for in-mold injection molding is disclosed. The plastic material includes polycarbonate, wherein a melt index of the plastic material is less than 28g/10min. A plastic product including the plastic material and a method for preparing the plastic material are further disclosed.

No. of Pages : 25 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/10/2018

(21) Application No.201814041126 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SWITCHING DEVICE WITH ARC EXTINGUISHING DEVICE AND ARC GUIDE •

(51) International classification :H01H73/18
(31) Priority Document No :10 2017 125 685.7
(32) Priority Date :03/11/2017
(33) Name of priority country :Germany
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(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)Robert KRALIK

(57) Abstract :
The present invention relates to a switching device comprising at least one contact point, an arc extinguishing chamber assigned to the contact point, and an arc blow device assigned to the contact point. The arc extinguishing chamber comprises an exit opening through which plasma, which is generated inside the switching device by a switch arc developing when the contact point opens, can exit out of the switching device, the exit opening having a clearance dimension and defining an exit plane. The arc blow device is provided for generating a magnetic blow field by which the switch arc developing when the contact point opens is blown away from the contact point towards the exit opening. Furthermore, the switching device comprises at least one first arc guide plate which extends from the contact point to the exit opening and by which the switch arc is guided and stretched on the way from the contact point to the exit opening, wherein the first arc guide plate comprises a first portion and a second portion within the arc extinguishing chamber between the contact point and the exit plane, the first portion of the first arc guide plate being arranged proximal to the contact point, and the second portion of the first arc guide plate being arranged distal to the contact point. According to the invention it is provided that the second portion of the first arc guide plate extends beyond the exit opening in a direction parallel to the exit plane so that the switch arc is stretched by the second portion of the first arc guide plate at least at one end of the switch arc beyond the clearance dimension of the exit opening, wherein an arc guide pin projecting from the second portion of the first arc guide plate is arranged in front of the exit opening, by which arc guide pin the switch arc is again shortened in front of the exit opening.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2018

(21) Application No.201814041389 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : HOUSING, MANUFACTURING METHOD OF THE SAME, AND ELECTRONIC DEVICE

(51) International classification :H05K5/00
(31) Priority Document No :201711078841.4
(32) Priority Date :06/11/2017
(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

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(72)**Name of Inventor :**
1)ZENG Yuanqing

(57) Abstract :
A manufacturing method of a housing includes the following steps: a preformed housing is provided. The preformed housing includes a body and a sidewall connected to the edge of the body, and a decoration film disposed on the body and the sidewall. A portion of the sidewall is exposed from the decoration film. The body includes a first surface. The sidewall includes a second surface. The second surface extends from the first surface. The first surface and the second surface are non-coplanar. A decoration layer is formed on the exposed portion of the sidewall by a surface processing treatment.

No. of Pages : 33 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2018

(21) Application No.201814041434 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CAMERA DEVICE, BRACKET AND MOBILE TERMINAL USING SAME

(51) International classification :H04M1/0264
(31) Priority Document No :201721487264.X
(32) Priority Date :09/11/2017
(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

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(72)**Name of Inventor :**
1)CHEN, Jia
2)HUANG, Maozhao

(57) Abstract :
The disclosure relates to a mobile terminal, includes a display screen, a border and a rear housing, the display screen and the rear housing being respectively disposed on two sides of the border, a mounting member being disposed between the display screen and the rear housing. The mobile terminal also includes a camera device connected to the mounting member, and the camera device includes a camera unit and a bracket. The bracket includes a frame body and a fixing portion connected to the frame body, the frame body defines a receiving space, and the camera unit is partially accommodated in the receiving space. The fixing portion is set on a side of the frame body facing away from the receiving space, and the camera device is connected to the mounting member by the fixing portion. The disclosure also relates to the camera device and bracket of the above mobile terminal.

No. of Pages : 43 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2018

(21) Application No.201814041454 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : BIPOLAR BATTERY ASSEMBLY

(51) International classification :H01M10/18
(31) Priority Document No :15/802,797
(32) Priority Date :03/11/2017
(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

(71)**Name of Applicant :**
1)Advanced Battery Concepts, LLC
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(72)**Name of Inventor :**
1)SHAFFER, Edward, O. II
2)HOBDAY, Donald

(57) Abstract :
A bipolar battery having: a) two or more stacks of battery plates; b) a liquid electrolyte disposed in between the battery plates to form electrochemical cells; c) a plurality of separators, wherein each individual separator is located in each electrochemical cell; d) one or more dual polar battery plates disposed between two or more stacks of battery plates, the dual polar battery plate(s) including: (i) a first anode or cathode located on one surface; (ii) a second anode or cathode located on an opposing surface; and (iii) one or more current conductors between the first anode or cathode and the second anode or cathode; and e) one or more current conduits which connect the one or more current conductors directly or indirectly to one or more battery terminals.

No. of Pages : 81 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2018

(21) Application No.201814041548 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : COOLING-ONLY AIR CONDITIONING SYSTEM

(51) International classification :F01K27/00
(31) Priority Document No :2017-213981
(32) Priority Date :06/11/2017
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)KIMURA Sayako

(57) Abstract :
To provide a cooling-only air conditioning system mat realizes cost containment. An air conditioning system 100 is a cooling-only air conditioning system. The air conditioning system 100 has plural indoor units 30, which each includes an indoor heat exchanger 33. The air conditioning system 100 has plural outdoor units 10 which are connected to the indoor units 30 and are arranged in parallel with each other. The outdoor unit 10 has an outdoor heat exchanger 12 and a check valve 13. A high-pressure liquid-side flow passage RP3, in which refrigerant that flows out from the outdoor heat exchanger 12 and flows to the indoor units 30 flows, is formed in the outdoor units 10. The outdoor unit 10 does not include, in the high-pressure liquid-side flow passage RP3, a control valve whose open/closed state is electrically controlled. The check valve 13 is disposed in the high-pressure liquid-side flow passage RP3 and is positioned on the downstream side of the outdoor heat exchanger 12 in terms of flow of the refrigerant. The check valve 13 allows a flow of refrigerant heading from one end of the check valve 13 (the end portion on the outdoor heat exchanger 12 side) toward the other end. The check valve 13 shuts off a flow of refrigerant heading from the other end of the check valve 13 toward the one end.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2018
(21) Application No.201814041570 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHODS AND SYSTEMS FOR PRELOADING APPLICATIONS AND GENERATING PREDICTION MODELS

(51) International classification :H04L29/06
(31) Priority Document No :201711078330.2
(32) Priority Date :06/11/2017
(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

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(72)**Name of Inventor :**
1)CHEN, Yan

(57) Abstract :
An application preloading method and apparatus, and a prediction model generation method and apparatus are described. Application preloading may include obtaining application usage state information of a terminal and contextual information of the terminal (100); inputting the obtained application usage state information and contextual information into a pre-generated prediction model that is configured for predicting application startup and for calculating at least one prediction value for the application startup (101); determining an application to be started according to the at least one prediction value, and preloading the application to be started (102). The prediction model may be pre-generated according to usage association information of applications within a predetermined time period and contextual information of the terminal corresponding to the usage association information. [Fig. 1]

No. of Pages : 48 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2018

(21) Application No.201814041637 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CAMERA DEVICE, BRACKET AND MOBILE TERMINAL USING SAME

(51) International classification :H04M1/0264
(31) Priority Document No :201721488136.7
(32) Priority Date :09/11/2017
(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 :**
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(72)**Name of Inventor :**
1)CHEN, Jia

(57) Abstract :
The disclosure relates to a mobile terminal, includes a display screen, a border and a rear housing, the display screen and the rear housing being respectively disposed on two sides of the border, a mounting member being disposed between the display screen and the rear housing. The mobile terminal also includes a camera device connected to the mounting member, and the camera device includes a camera unit and a bracket. The bracket includes a frame body and a fixing portion connected to the frame body, the frame body defines a receiving space, and the camera unit is partially accommodated in the receiving space. The fixing portion is provided with a joint portion, and the joint portion is configured to connect the mounting member by hot melting. The fixing portion is set on a side of the frame body facing away from the receiving space, and the camera device is connected to the mounting member by the fixing portion. The disclosure also relates to the camera device and bracket of the above mobile terminal.

No. of Pages : 43 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2018
(21) Application No.201814041638 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A PLANET WHEEL ASSEMBLY FOR A PLANETARY GEAR

(51) International classification :F01M9/10
(31) Priority Document No :17200338.6
(32) Priority Date :07/11/2017
(33) Name of priority country :EPO
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(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)KONTINEN Tuomo
2)SAASTAMOINEN Jussi

(57) Abstract :
A planet wheel assembly (101) comprises a planet shaft (102), a planet wheel (103) having radial contact surfaces (104, 105) and axial contact surfaces (106, 107), bushings (108, 109) connected to the planet shaft, radial sliding elements (108, 109) between radial contact surfaces of the bushings and the radial contact surfaces of the planet wheel, and axial sliding elements (112, 113) between axial contact surfaces of the bushings and the axial contact surfaces of the planet wheel. The planet wheel is shaped to constitute a circumferential projection (118) which protrudes radially towards the planet shaft, is axially between the radial sliding elements, and forms the first and second axial contact surfaces of the planet wheel. This arrangement, where the radial sliding elements are axially outmost and the axial sliding elements are on the middle, improves the ability of the radial sliding elements to act against forces tilting the planet wheel. FIGURE 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2018

(21) Application No.201814041784 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ABSORBENT ARTICLE

(51) International classification :B65D88/1631
(31) Priority Document No :2017-214648
(32) Priority Date :07/11/2017
(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

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(72)**Name of Inventor :**
1)UEDA, Masumi
2)FUJII, Keishi

(57) Abstract :
An absorbent article (1) includes a front side waist portion (20), a back side waist portion (30) and holes (50) penetrating at least one of the front side waist portion (20) or the back side waist portion (30) in the front-back direction. At least one of the holes (50) is provided in a non-overlapping region (30NL) of the front side waist portion (20) or the back side waist portion (30) where the front side waist portion (20) and the back side waist portion (30) do not overlap with each other in the front-back direction.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2018

(21) Application No.201814041797 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD FOR RESOURCE ALLOCATION AND RELATED PRODUCTS

(51) International classification :H04W72/04
(31) Priority Document No :201711097784.4
(32) Priority Date :09/11/2017
(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

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(72)**Name of Inventor :**
1)CHEN, YAN
2)CHENG, JIE

(57) Abstract :
A method for resource allocation and related products are provided. The method includes the following. A selection operation performed on a target widget of an operation interface of a target application of a terminal device is received by an operating system of the terminal device (201). A resource adjustment strategy corresponding to the selection operation performed on the target widget is obtained by the operating system (202), and allocation of at least one system resource for the target application is adjusted by the operating system within a time interval associated with the selection operation performed on the target widget according to the resource adjustment strategy (203).

No. of Pages : 35 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/08/2018

(21) Application No.201814029280 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DRIVETRAIN ASSEMBLY HAVING A SHIFT MECHANISM

(51) International classification :F01K27/00
(31) Priority Document No :15/802,537
(32) Priority Date :03/11/2017
(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

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(72)**Name of Inventor :**
1)Sinka, Aaron
2)Starna, Matthew
3)Jones, Matthew
4)Khoryshev, Aleksey

(57) Abstract :
A drivetrain assembly having a shift mechanism. fhe shift mechanism may include a shift rail, a first shift assembly, a second shift assembly, and a sector cam. The shift rail may be fixedly disposed on a housing. The sector cam may control movement of the first shift assembly and the second shift assembly.

No. of Pages : 28 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006836 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A DEVICE FOR THE ATTACHED FLOW OF BLOOD

(51) International classification :A61B5/15
(31) Priority Document No :62/378971
(32) Priority Date :24/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/048147
Filing Date :23/08/2017
(87) International Publication No :WO 2018/039307
(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)BOKKA SRINIVASA RAO, Kishore, K.
2)KIM, Jayeon
3)IVOSEVIC, Milan

(57) Abstract :
A collection device (10) which directs a flow of blood into a container (14) and provides a controlled blood flow path that ensures blood flow from a collection site to a collection container is disclosed.

No. of Pages : 21 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006839 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : GPU REMOTE COMMUNICATION WITH TRIGGERED OPERATIONS

(51) International classification :G06F13/38G06T1/20
(31) Priority Document No :15/297079
(32) Priority Date :18/10/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/052250
Filing Date :19/09/2017
(87) International Publication No :WO 2018/075182
(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)LEBEANE, Michael W.
2)REINHARDT, Steven K.

(57) Abstract :
Methods, devices, and systems for transmitting data over a computer communications network are disclosed. A queue of communications commands can be pre-generated using a central processing unit (CPU) and stored in a device memory of a network interface controller (NIC). Thereafter, if a graphics processing unit (GPU) has data to communicate to a remote GPU, it can store the data in a send buffer, where the location in the buffer is pointed to by a pre-generated command. The GPU can then signal to the interface device that the data is ready, triggering execution of the pre-generated command to send the data.

No. of Pages : 14 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006841 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : THERAPEUTIC COMBINATIONS TO TREAT RED BLOOD CELL DISORDERS

(51) International classification :A61K38/00A61P7/06
(31) Priority Document No :16181521.2
(32) Priority Date :27/07/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/068938
Filing Date :26/07/2017
(87) International Publication No :WO 2018/019911
(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)BENGHOZI, Rene
3)LAMOUR, Fran§ois

(57) Abstract :
The present invention is related to a combination useful in the prevention and/or treatment of red blood cell disorders, in particular, acute and chronic complications associated with red blood cell dysfunction, increased red blood cell cholesterol and decreased plasma levels of lipophilic antioxidant (sickle cell disease, thalassemia, diabetes). The invention in particular relates to pharmaceutical formulations, regimens, methods of treatment and uses thereof.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006844 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : LOCK ADDRESS CONTENTION PREDICTOR

(51) International classification	:G06F3/06G06F12/084G06F12/0842
(31) Priority Document No	:15/273304
(32) Priority Date	:22/09/2016
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2017/050240 :06/09/2017
(87) International Publication No	:WO 2018/057293
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)KING, John M.
3)RAFACZ, Matthew A.
4)CRUM, Matthew M.

(57) Abstract :
Techniques for selectively executing a lock instruction speculatively or non-speculatively based on lock address prediction and/or temporal lock prediction, including methods an devices for locking an entry in a memory device. In some techniques, a lock instruction executed by a thread for a particular memory entry of a memory device is detected. Whether contention occurred for the particular memory entry during an earlier speculative lock is detected on a condition that the lock instruction comprises a speculative lock instruction. The lock is executed non-speculatively if contention occurred for the particular memory entry during an earlier speculative lock. The lock is executed speculatively if contention did not occur for the particular memory entry during an earlier speculative lock.

No. of Pages : 23 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006848 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD FOR MEASURING HbA1c

(51) International classification :C12Q1/37G01N21/59G01N33/72
(31) Priority Document No :2016-157958
(32) Priority Date :10/08/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/029185
Filing Date :10/08/2017
(87) International Publication No :WO 2018/030531
(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)NISHIO, Tomohisa
3)NAKANISHI, Kazuo

(57) Abstract :
Provided is a method in which the effects of coexisting substances are avoided in the measurement of HbA1c in a whole blood sample by an enzymatic method. A method for measuring the ratio of the hemoglobin A1c concentration with respect to the hemoglobin concentration in a sample by an enzymatic method, wherein: the method has a first step for optically measuring the hemoglobin concentration and a second step for optically measuring the hemoglobin A1c concentration; and, when calculating the HbA1c% by dividing the hemoglobin A1c concentration measured in the second step by the hemoglobin concentration measured in the first step, the hemoglobin concentration that serves as the denominator measured at a first wavelength is corrected using the result measured at a second wavelength.

No. of Pages : 39 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/07/2018

(21) Application No.201814026827 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEMS AND METHODS FOR CHANGING AN OPERATION OF A SECURITY SYSTEM IN RESPONSE TO COMPARING A FIRST UNIQUE IDENTIFIER AND A SECOND UNIQUE IDENTIFIER

(51) International classification :H04L63/0876
(31) Priority Document No :15/807,845
(32) Priority Date :09/11/2017
(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

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(72)**Name of Inventor :**
1)Wu, Yue

(57) Abstract :
Systems and methods are provided for altering an operation characteristic of a security system based pn comparing a first representation of a first unique identifier to a second representation of a second unique identifier. Some methods can include a control panel transitioning the security system from a current state to a new state or displaying an alert message.

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006781 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : INTRUSION DETECTION PANE ASSEMBLY

(51) International classification :G08B13/04
(31) Priority Document No :16182361.2
(32) Priority Date :02/08/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/068843
Filing Date :26/07/2017
(87) International Publication No :WO 2018/024564
(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)EFFERTZ, Christian
2)FRANCOIS, Guillaume
3)DROSTE, Stefan
4)SCHMALBUCH, Klaus
5)WEISSLER, Ariane
6)KUSTER, Hans-Werner

(57) Abstract :
The present invention relates to an intrusion detection pane assembly (10, 10™) which comprises: - at least one first pane (1) which consists of tempered glass and has an outer surface (I) and an inner surface (II), - at least one transparent, electrically conductive coating (3) which is applied to the inner surface (II) of the first pane (1), and - a sensor unit (20) having a transmitting unit (20.1), an antenna (21) and an evaluation unit (20.2), the transmitting unit (20.1) transmitting at least one high-frequency voltage signal of a frequency f of 0.1 GHz to 6 GHz to the antenna (21) and the antenna (21) emitting electromagnetic radiation of the frequency f, and the evaluation unit (20.2) measuring the impedance matching of the transmitting unit (20.1) to the antenna (21). The antenna (21) is electromagnetically coupled to the transparent, electrically conductive coating (3) and the sensor unit (20) outputs an alarm signal if the measured impedance matching deviates from a comparison value.

No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006782 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : INTRUSION DETECTION PANE ASSEMBLY

(51) International classification :G08B13/04
(31) Priority Document No :16182364.6
(32) Priority Date :02/08/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/068844
Filing Date :26/07/2017
(87) International Publication No :WO 2018/024565
(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)FRANCOIS, Guillaume
3)DROSTE, Stefan
4)SCHMALBUCH, Klaus
5)WEISSLER, Ariane
6)KUSTER, Hans-Werner

(57) Abstract :
The present invention relates to an intrusion detection pane assembly (10, 10™) which comprises: - at least one first pane (1) which consists of tempered glass and has an outer surface (I) and an inner surface (II), - at least one transparent, electrically conductive coating (3) which is applied to the inner surface (II) of the first pane (1), and - a sensor unit (20) having a transmitting unit (20.1), an antenna (21) and an evaluation unit (20.2), the transmitting unit (20.1) transmitting at least one high-frequency voltage signal of a frequency f of 0.1 GHz to 6 GHz to the antenna (21) and the antenna (21) emitting electromagnetic radiation of the frequency f, and the evaluation unit (20.2) measuring the impedance matching of the transmitting unit (20.1) to the antenna (21). The transparent, electrically conductive coating (3) has at least one region (9) with at least one structure (4) that is devoid of coating and said region (9) overlaps at least in sections, preferably includes at least in sections and especially completely includes the area of the orthogonal projection of the antenna (21) onto the transparent, electrically conductive coating (3). The antenna (21) is electromagnetically coupled to the transparent, electrically conductive coating (3) and the sensor unit (20) outputs an alarm signal if the measured impedance matching deviates from a comparison value.

No. of Pages : 34 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006786 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : EMOLLIENT TOPICAL DISINFECTANTS

(51) International classification :A61K33/18A61K9/00A61K9/06
(31) Priority Document No :62/365035
(32) Priority Date :21/07/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/042726
Filing Date :19/07/2017
(87) International Publication No:WO 2018/017645
(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)CERRO, Andrew M.

(57) Abstract :
This invention relates generally to an emollient topical composition of matter that contains molecular iodine with a reduced effective vapor pressure. In specific embodiments, the composition reduces the loss of molecular iodine to the atmosphere under storage conditions after application to mammalian tissue.

No. of Pages : 25 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006849 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PROCESS FOR REDUCTION OF ENERGY CONSUMPTION DURING THE PRETREATMENT OF BIOMASS

(51) International classification :C10L9/00
(31) Priority Document No :16187062.1
(32) Priority Date :02/09/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/071165
Filing Date :22/08/2017
(87) International Publication No :WO 2018/041679
(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)HORTSCH, Ralf

(57) Abstract :
The present invention relates to a process for reduction of energy consumption during the pretreatment of biomass.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006850 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : POWER DELIVERY DEVICES FOR RECIPROCATING ENGINES AND RELATED SYSTEMS AND METHODS

(51) International classification :F02B75/40F02B75/28F02B75/18
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/US2016/046033
Filing Date :08/08/2016
(87) International Publication No :WO 2018/030985
(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)SABDERS, Nicholas, A.
2)SANDERS, Ryan Thomas Kiley

(57) Abstract :
In some aspects, reciprocating engines can include a drive mechanism for generating a rotational motion output from reciprocating piston assembly, where the drive mechanism includes an axially translating y-axis component to reciprocate along a y-axis with the piston assembly; an x-axis component: i) configured to reciprocate substantially perpendicularly to the y-axis, ii) having an internal ring gear, and iii) having an orbital engagement component substantially concentric with the internal ring gear; an output shaft assembly having an output pinion gear engaging tangentially with the internal ring gear; and a stationary engagement component substantially concentric with the output shaft assembly, the stationary engagement component interfacing with the orbital engagement component, the interfacing between the stationary engagement component and the orbital engagement component applying a force to the x-axis component to maintain contact between the internal ring gear and the output pinion gear.

No. of Pages : 46 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006851 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DUAL MODE ACCOMMODATIVE-DISACCOMMODATIVE INTRAOCULAR LENS

(51) International classification :A61F2/16
(31) Priority Document No :62/378737
(32) Priority Date :24/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/048219
Filing Date :23/08/2017
(87) International Publication No :WO 2018/039353
(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)BEER, Paul, Marius

(57) Abstract :
A dual mode accommodative-disaccommodative intraocular lens comprising: a haptic system (100) comprising a plurality of closed-loop haptics having shape memory; a shape-shifting flexible optic (105) comprising an anterior optic capsule and a posterior optic capsule fused together defining therebetween an optic vesicle filled with a fluid, wherein the haptics are attached to the optic, allowing an action of the haptics to alter a shape of the optic, the dual mode AD-IOL, at rest, is in a fully accommodated configuration; a restraining ring (255) connectable to the haptics and tabs (240) that connecting the restraining ring to the haptic immobilize the haptic in a disaccommodated configuration of the AD-IOL.

No. of Pages : 33 No. of Claims : 43

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006852 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : OPERATION MONITORING DEVICE, METHOD AND PROGRAM FOR HIGH-FREQUENCY RESISTANCE WELDING AND INDUCTION HEATED WELDING OF ELECTRIC RESISTANCE WELDED STEEL PIPE

(51) International classification :B21C37/08B21C51/00B23K13/00
(31) Priority Document No :2016-222690
(32) Priority Date :15/11/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/037591
Filing Date :17/10/2017
(87) International Publication No :WO 2018/092492
(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)MIURA, Takao
4)KARUBE, Yoshifumi
5)YAMAMOTO, Kazuto

(57) Abstract :
The objective of the present invention is to enable accurate detection of a mismatch during electric resistance welding. This operation monitoring device for high-frequency resistance welding and induction heated welding of an electric resistance welded steel pipe, in which a strip-shaped metal sheet is continuously formed into a cylindrical shape by means of a group of rollers while being conveyed from an upstream side to a downstream side, and in which the two edge portions, in the circumferential direction, of the metal sheet, which are caused to converge into a V-shape, are caused to melt by the application of heat and are caused to abut one another, is characterized by being provided with a means for detecting a mismatch by recognizing a non-uniformity between light-emitting regions of a metal part, on both sides, in the circumferential direction, of the abutting position on an outer surface or an inner surface of the metal plate, on the basis of an image of a region including a V-convergence location, which is a location at which the two edge portions in the circumferential direction converge into said V-shape, and said metal part which is caused to flow out onto the surface of the metal plate by means of an electromagnetic force downstream of the V-convergence location, wherein said image is captured by means of an image capturing device from an outer surface side or an inner surface side of the metal plate that has been formed into said cylindrical shape.

No. of Pages : 27 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006794 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : GEAR PACKAGING FOR ROBOTIC JOINTS

(51) International classification :B25J9/10B25J17/02
(31) Priority Document No :1612763.1
(32) Priority Date :22/07/2016
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2017/052121
Filing Date :19/07/2017
(87) International Publication No :WO 2018/015748
(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)MARSHALL, Keith
3)JACKSON, Thomas Bates

(57) Abstract :
A robot arm (1) comprising a first arm segment (310) and a second arm segment (311) coupled to each other by a first revolute joint (301) having a first rotation axis (305) and a second revolute joint (302) having a second rotation axis (306) non-parallel to the first rotation axis, and a joint mechanism for articulating the first arm segment relative to the second arm segment about the first and second rotation axes, the joint mechanism comprising: a first driven gear (312) disposed about an axle (317) coincident with the first rotation axis, the axle being fast with a first arm segment of the robot arm; a second driven gear (313) disposed about the second rotation axis and fast with a second arm segment of the robot arm and fast with the first driven gear about the first rotation axis; a first drive gear (314) configured to drive the first driven gear to rotate about the axle, the first drive gear being arranged to engage the first driven gear; a second drive gear (315) for driving the second driven gear to rotate about the second rotation axis; and an intermediary gear arrangement (316) arranged to engage the second drive gear and the second driven gear and being disposed about the first rotation axis, whereby rotation of the intermediary gear arrangement relative to the first arm segment about the first rotation axis can be driven.

No. of Pages : 22 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006795 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : MAGNETIC POSITION SENSOR

(51) International classification :G01D5/14G01D5/245G01D5/249
(31) Priority Document No :1612768.0
(32) Priority Date :22/07/2016
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2017/052125
Filing Date :19/07/2017
(87) International Publication No :WO 2018/015750
(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)MOTTRAM, Edward John

(57) Abstract :
A method of assembling a position sensing arrangement for sensing the position of a revolute joint of an articulated structure. The position sensing arrangement comprises a magnetic sensor assembly and a disc having a first magnetic ring with j magnetic pole pairs and a second magnetic ring with k magnetic pole pairs. A boundary of the disc is constrained by the articulated structure. The method comprises: determining a number of pole pairs of the first magnetic ring to be an integer p such that the first magnetic ring is separated from the constrained boundary by at least the magnetic sensor assembly; determining a number of pole pairs of the second magnetic ring to be an integer q such that the second magnetic ring is separated from the first magnetic ring by a predetermined distance; and if p and q are co- prime: selecting j to be p and k to be q; and assembling the position sensing arrangement by mounting the disc to the articulated structure such that both the disc and the revolute joint are permitted to rotate about the same axis.

No. of Pages : 36 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006797 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CALIBRATING POSITION SENSOR READINGS

(51) International classification :G01D5/244G01D5/20G01D5/14
(31) Priority Document No :1612766.4
(32) Priority Date :22/07/2016
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2017/052120
Filing Date :19/07/2017
(87) International Publication No:WO 2018/015747
(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)ROBERTS, Paul Christopher

(57) Abstract :
A method of correcting a position reading from a position sensing arrangement. The position sensing arrangement is suitable for sensing the position of a revolute joint of an articulated structure, and comprises a disc having a magnetic ring with magnetic pole pairs and a magnetic sensor assembly comprising a magnetic sensor array for detecting the magnetic pole pairs of the magnetic ring. The method comprises: for each pole pair of the magnetic ring, taking a calibration pole pair position reading with the magnetic sensor array, and generating a pole pair correcting function by comparing the calibration pole pair position reading with a model pole pair position reading; averaging the pole pair correcting functions of the pole pairs of the magnetic ring to generate an average pole pair correcting function for the magnetic ring; taking a position reading with the magnetic sensor array, the position reading comprising a plurality of pole pair position readings; and generating a corrected position reading by deducting the average pole pair correcting function from each pole pair position reading.

No. of Pages : 34 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006853 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SLIDING COMPONENT

(51) International classification :F16J15/34
(31) Priority Document No :2016-171322
(32) Priority Date :01/09/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/030432
Filing Date :25/08/2017
(87) International Publication No :WO 2018/043307
(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)INOUE Hideyuki
3)NEGISHI Yuta
4)TOKUNAGA Yuichiro

(57) Abstract :
The purpose of the present invention is to improve the sliding characteristics in a wide range of bearing characteristic numbers of a sliding surface. A plurality of dimples 10 are characterized by having substantially the same opening diameter, being mutually independent from other dimples, being configured such that the ratio of depth h to diameter D of each of the dimples 10 is set within a range of 1/500-1/10, and being disposed randomly so that the area ratio of dimples 10 within a unit angle of 120° along the circumferential direction of the sliding surface S is within a range of 8-50%.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006854 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SPIRO BICYCLIC INHIBITORS OF MENIN-MLL INTERACTION

(51) International classification :C07D519/00A61K45/06A61P35/00
(31) Priority Document No :62/394295
(32) Priority Date :14/09/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/EP2017/073004
Filing Date :13/09/2017
(87) International Publication No :WO 2018/050686
(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)PANDE, Vineet
3)HERKERT, Barbara
4)KROSKY, Daniel, Jason
5)QUEROLLE, Olivier, Alexis, Georges
6)PILATTE, Isabelle, No«lle, Constance
7)PATRICK, Aaron, Nathaniel

(57) Abstract :
The present invention relates to pharmaceutical agents useful for therapy and/or prophylaxis in a mammal, and in particular to spiro bicyclic compounds, pharmaceutical composition comprising such compounds, and their use as menin/MLL protein/protein interaction inhibitors, useful for treating diseases such as cancer, myelodysplasia syndrome (MDS) and diabetes.

No. of Pages : 225 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006855 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : FALL ARREST DEVICES, AND RELATED METHODS

(51) International classification :B66B5/00B66B5/04B66B5/18
(31) Priority Document No :16382383.4
(32) Priority Date :03/08/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/069363
Filing Date :31/07/2017
(87) International Publication No :WO 2018/024694
(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)RIVERO, Jos Javir Nu±ez

(57) Abstract :
A fall arrest device comprises a casing with an entry hole for the wire rope, and an exit hole for the wire rope, and a clamping mechanism and an overspeed detector arranged inside the casing. The speed detection mechanism comprises a driven roller arranged to be driven by the wire rope. The driven roller has one or more selected areas to be detected by a sensor, and the device further comprises a motion indicator configured to receive a signal from the sensor when the sensor detects one of the selected areas. The motion indicator is configured to give different indications depending on whether or not the signal is received from the sensor, and such indications are detectable from outside the casing. Methods for operating such a fall arrest device and method for retrofitting fall arrest devices are also disclosed.

No. of Pages : 11 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006862 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : RUBBER COMPOSITION

(51) International classification :C08L7/00B60C1/00C08K3/04
(31) Priority Document No :2016-149842
(32) Priority Date :29/07/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/026145
Filing Date :19/07/2017
(87) International Publication No :WO 2018/021118
(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)SUZUKI Kenji

(57) Abstract :
Provided is a rubber composition for road roller tires which is characterized by comprising silica 100 parts by mass of a rubber component and 3 parts by mass or more of sulfur has excellent cracking resistance and swelling resistance and can be used in both of a tread part and a side part.

No. of Pages : 32 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006864 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DIMETHOXYPHENYL SUBSTITUTED INDOLE COMPOUNDS AS TLR7, TLR8 OR TLR9 INHIBITORS

(51) International classification :C07D401/14C07D405/14C07D401/04
(31) Priority Document No :11026137
(32) Priority Date :30/07/2016
(33) Name of priority country :India
(86) International Application No :PCT/US2017/044091
Filing Date :27/07/2017
(87) International Publication No :WO 2018/026620
(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)DYCKMAN, Alaric J.
2)DODD, Dharmpal S.
3)MUSSARI, Christopher P.
4)HAQUE, Tasir S.
5)POSS, Michael A.
6)LOMBARDO, Louis J.
7)MACOR, John E.
8)PASUNOORI, Laxman
9)KUMAR, Sreekantha Ratna

(57) Abstract :
Disclosed are compounds of Formula (I) or a salt thereof, wherein R1, R3, R4, R5, m, and n are defined herein. Also disclosed are methods of using such compounds as inhibitors of signaling through Toll-like receptor 7, or 8, or 9, and pharmaceutical compositions comprising such compounds. These compounds are useful in treating inflammatory and autoimmune diseases.

No. of Pages : 264 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006865 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : TRAVELER TRAVEL CONDITION OUTPUT DEVICE AND METHOD

(51) International classification :B66B1/18B66B3/00
(31) Priority Document No :2016-190516
(32) Priority Date :29/09/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/028677
Filing Date :08/08/2017
(87) International Publication No :WO 2018/061488
(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)FUJIWARA Masayasu
2)YOSHIKAWA Toshifumi
3)HOSHINO Takamichi
4)TORIYABE Satoru
5)HATORI Takahiro

(57) Abstract :
It is difficult to evaluate how travelers travel times within a building change depending on the configuration of elevators. A traveler travel condition output device (100) according to the present invention comprises: travel time calculation units (101, 103) that acquire, for each user, a first travel time spent traveling to an elevator hall after the user enters a building, a wait time spent in the elevator hall from arrival at the elevator hall until boarding an elevator, and a second travel time spent traveling from boarding the elevator until arrival at a destination floor, collect the information of the first travel time, the wait time, and the second travel time, and calculate travel time statistical information for the user, from entering the building until arrival at the destination floor; and a display unit (105) that displays a total travel time. The travel time calculation units calculate travel time statistical information for a first elevator configuration and travel time statistical information for a second elevator configuration, and the display unit displays the travel time statistical information for the second elevator configuration together with the travel time statistical information for the first elevator configuration.

No. of Pages : 41 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006798 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : MAGNETIC POSITION SENSOR MOUNTING ARRANGEMENT

(51) International classification :G01D5/14G01P3/487G01D5/245
(31) Priority Document No :1612770.6
(32) Priority Date :22/07/2016
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2017/052036
Filing Date :12/07/2017
(87) International Publication No :WO 2018/015715
(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)MOTTRAM, Edward John
2)ROBERTS, Paul Christopher

(57) Abstract :
A position sensing arrangement for sensing the position of a revolute joint of an articulated structure. The position sensing arrangement comprises a disc and a magnetic sensor assembly. The disc comprises a first magnetic ring with m magnetic pole pairs, and a second magnetic ring with n magnetic pole pairs, where m and n are co-prime, and a mounting arrangement by which the disc is mountable to a magnetisation jig during manufacture and the articulated structure during operation, the mounting arrangement permitting the disc to be mounted to the magnetisation jig and articulated structure in a single orientation only. The magnetic sensor assembly comprises a first magnetic sensor array for detecting the magnetic pole pairs of the first magnetic ring, and a second magnetic sensor array for detecting the magnetic pole pairs of the second magnetic ring.

No. of Pages : 32 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006808 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : NOVEL COMPOUNDS

(51) International classification :C07K5/083A61Q19/02
(31) Priority Document No :16188886.2
(32) Priority Date :15/09/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/072952
Filing Date :13/09/2017
(87) International Publication No :WO 2018/050663
(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)HEIDL, Marc
2)JACKSON, Eileen

(57) Abstract :
The present invention relates to novel compounds which effectively inhibit the melanin synthesis in human melanocytes and are thus suitable for the treatment of senile lentigines, for smoothening skin color irregularities and/or for lightening natural skin color.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006809 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : VISCOMETER WITH ROTOR DETECTION

(51) International classification :G01N11/16G01N11/14G01N11/00
(31) Priority Document No :62/379552
(32) Priority Date :25/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/047558
Filing Date :18/08/2017
(87) International Publication No :WO 2018/039064
(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)BUZEK, Keith

(57) Abstract :
A viscometer arrangement includes a detection system for detecting the proper placement of a rotor. An optical detection system may be used to detect the presence of an obstruction between the upper and lower dies while the upper and lower dies are in an open position.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006812 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A HANDHELD HAIR CARE APPLIANCE

(51) International classification :A45D1/00A45D20/12A46B5/00
(31) Priority Document No :1614825.6
(32) Priority Date :01/09/2016
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2017/052427
Filing Date :17/08/2017
(87) International Publication No :WO 2018/042154
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)DYSON TECHNOLOGY LIMITED
Address of Applicant :Tetbury Hill Malmesbury Wiltshire SN16 0RP U.K.
(72)**Name of Inventor :**
1)THOMPSON, Daniel
2)FAIRHOLM, Lauren

(57) Abstract :
Disclosed is a handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a slot and an actuator, the attachment comprising a protrusion adapted to engage with the slot wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position as the protrusion engages with the slot. In the first position the actuator may at least partially obscures the slot. The actuator comprises a surface which may interact with the protrusion when the protrusion engages with the slot. The surface may be adapted to at least partially define the slot at or near the second position. When the protrusion is at a pre-determined position within the slot, the actuator may return towards the first position. The actuator may be biased into the first position.

No. of Pages : 17 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006815 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : THERMOSETTING COMPOSITION, PAINT FINISHING METHOD AND METHOD FOR PRODUCING A PAINTED ARTICLE

(51) International classification :C08G18/61C08G18/80C09D167/00
(31) Priority Document No :2016-173358
(32) Priority Date :06/09/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/IB2017/001384
Filing Date :04/09/2017
(87) International Publication No :WO 2018/047014
(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)MIZUTANI, Hiroki
2)TSUJITA, Takahiro
3)KOHASHI, Taichiro
4)NISHIDA, Nobuhiro
5)MIYABE, Koji

(57) Abstract :
The present invention relates to a thermosetting composition characterized in that it contains (A) a polyester resin of number average molecular weight 1,000-10,000 and hydroxyl value 5-200 mg KOH/g and, (B) 0.5-2.0 equivalents relative to the hydroxyl groups of the aforesaid component (A) of a compound (B) which is a blocked aliphatic poly-isocyanate compound having reactivity with the hydroxyl groups of component (A), wherein the blocking is with methyl ethyl ketoxime and/or ε-caprolactam, (C) 0.05-5 parts by weight of a bismuth compound, per 100 parts by weight of total resin solids of component (A) and component (B), and (D) 0.5-50 parts by weight of an organosilicate represented by the following general formula (I) and/or a condensation product thereof, relative to 100 parts by weight of total resin solids of component (A) and component (B), wherein R1, R2, R3 and R4 in the formula each mean hydrogen atom or 1-10 carbon organic group, and can be the same or different, n is 1. By using the thermosetting composition, not only does the stain resistance appear a short time after painting, but also excellent stain resistance is maintained for a long period, which fulfil the paint film performance requirements for painted steel sheet such as water resistance and bending workability and which have high environmental protection qualities and safety.

No. of Pages : 34 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006876 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : MONITORING AND CONTROL DEVICE FOR THE AUTOMATED OPTIMIZATION OF THE GRINDING LINE OF A ROLLER SYSTEM AND CORRESPONDING METHOD

(51) International classification :B02C25/00B02C4/38B02C4/06
(31) Priority Document No :1075/16
(32) Priority Date :22/08/2016
(33) Name of priority country :Switzerland
(86) International Application No :PCT/EP2017/071060
Filing Date :21/08/2017
(87) International Publication No :WO 2018/036978
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)BHLER AG
Address of Applicant :Gupfenstrasse 5 9240 Uzwil Switzerland
(72)**Name of Inventor :**
1)LEIMGRUBER, Fabian

(57) Abstract :
The invention relates to a self-optimizing, adaptive product-processing system (28) and to a corresponding method for grinding and/or crushing cereals. The grinding and/or crushing occurs in at least one roller mill (18/18) having a roller pair (33). In order to sense the temperature (1a1) of the surfaces of the rollers (1/1, 19), at least two temperature sensors (2a) are arranged on at least one roller (1/1). The sensed temperature measurement values are used for optimal adjustment and signal generation of the roller adjustment (1811).

No. of Pages : 52 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006877 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : BICYCLE

(51) International classification :B62M1/26B62M1/28B62M3/00
(31) Priority Document No :10-2016-0104575
(32) Priority Date :17/08/2016
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2017/008816
Filing Date :14/08/2017
(87) International Publication No :WO 2018/034466
(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)HONG, Seok Su

(57) Abstract :
The present invention relates to a bicycle. The purpose of the present invention is to allow a rear wheel and a front wheel of a bicycle to be rotated even by a weak force by using the principle of the lever, so as to enable not only an average man but also an elderly person, a woman, and a child who have relatively weaker physical strength to easily ride the bicycle. A bicycle according to the present invention comprises: a body having a saddle and a handlebar installed to a frame thereof; a front wheel and a rear wheel installed to a front side and a rear side of the body; a pair of first driven parts arranged at one side of the rear wheel and the other side thereof, respectively, and mounted on a rotation center shaft axis-fixed to the rear wheel; a pair of driving force generating parts arranged at one side of the rear wheel and the other side thereof, respectively, and rotatably mounted on the rotation center shaft to pivot upward or downward; and driving force transferring parts arranged at one side of the rear wheel and the other side thereof, respectively, each of the driving force transferring parts being connected to the first driven part and the driving force generating part, wherein when the driving force generating part pivots downward, the driving force transferring part is rotated to transfer driving torque to the first driven part.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006878 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PNEUMATIC CONTROL SYSTEM

(51) International classification :F15B20/00E05F15/50
(31) Priority Document No :10 2016 010 481.3
(32) Priority Date :31/08/2016
(33) Name of priority country :Germany
(86) International Application No :PCT/DE2017/000255
Filing Date :21/08/2017
(87) International Publication No :WO 2018/041284
(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)FORTMANN, Norbert
2)WARNING, Tim
3)ORGET, Florent

(57) Abstract :
The invention relates to a pneumatic control system for a working cylinder, which pneumatic control system enables resistance-free manual motion of the device driven by the working cylinder in the event of a failure or switch-off of the compressed air supply and is independent of electrical supply. The problem is solved by means of a pneumatic control system having a double-acting working cylinder (1), the two chambers (3, 4) of which can be connected oppositely to a compressed air source and a compressed air outlet (11, 11) by means of a controllable supply device having two operating positions, an independently resetting 3/2-way valve (13, 13) switchable by means of a control pressure being arranged before each chamber (3, 4) in a connecting line (5, 6) to the supply device, which 3/2-way valves connect the chambers (3, 4) to bleeding outlets (16, 16) in a first switching position and to the supply device in a second switching position, and a parallel circuit of a check valve (21, 21) and a throttle point (22, 22) being arranged before each chamber (3, 4), the check valves (21, 21) of which parallel circuits block in the backflow direction, wherein the two 3/2-way valves (13, 13) assume the first switching position in the idle position and can be switched by means of a common control line (18), which is connected to both connecting lines (5, 6) to the supply device downstream of the 3/2-way valves (13, 13) by means of a changeover valve (19), and the parallel circuits are arranged in the connecting lines (5, 6) downstream of the respective 3/2-way valves (13, 13).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006820 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AN IMPROVED MULTI-TUNNEL ELECTRIC MOTOR/GENERATOR

(51) International classification :H02K21/12H02K1/17
(31) Priority Document No :62/383590
(32) Priority Date :05/09/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/049981
Filing Date :01/09/2017
(87) International Publication No :WO 2018/045360
(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)HUNSTABLE, Fred E.

(57) Abstract :
Disclosed are various embodiments for a motor/generator where the stator is a coil assembly and the rotor is a magnetic toroidal cylindrical tunnel or where the rotor is a coil assembly and the stator is a magnetic toroidal cylindrical tunnel.

No. of Pages : 29 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006821 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : FIN ENHANCEMENTS FOR LOW REYNOLDS NUMBER AIRFLOW

(51) International classification :F28D1/047F28F1/32
(31) Priority Document No :62/381802
(32) Priority Date :31/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/049401
Filing Date :30/08/2017
(87) International Publication No :WO 2018/045044
(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)BAKER, Matt
2)REAGEN, Scot

(57) Abstract :
A heat exchanger including a plurality of parallel fins, and at least one tube passing through the parallel fins, wherein the tube carries a fluid that exchanges heat with air passing through the heat exchanger. The parallel fins each include a plurality of air deflecting members formed therein. Each air deflecting member is bent substantially orthogonally relative to a planar surface of each fin, and each air deflecting member is configured to direct the air passing through the heat exchanger to increase turbulence of the air, and to impinge the air against adjacent parallel fins, and to balance air flow across the heat exchanger and decrease maldistribution of the air flow through the heat exchanger.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006826 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SCORPION VENOM FUSION PROTEIN HAVING IMPROVED EFFECT IN PROLIFERATING SKIN CELLS, AND COSMETIC COMPOSITION CONTAINING SAME AS ACTIVE INGREDIENT FOR ALLEVIATING SKIN WRINKLES, IMPROVING SKIN ELASTICITY AND PREVENTING AGING

(51) International classification	:C07K14/47C07K14/435C12N15/62
(31) Priority Document No	:10-2016-0108338
(32) Priority Date	:25/08/2016
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2017/009301 :25/08/2017
(87) International Publication No	:WO 2018/038567
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)LEE, Sun Kyo
(72)**Name of Inventor :**
1)LEE, Sun Kyo

(57) Abstract :
The present invention relates to a scorpion venom fusion protein having an improved effect in proliferating skin cells, and a cosmetic composition containing the same as an active ingredient for alleviating skin wrinkles, improving skin elasticity, and preventing aging. The cosmetic composition of the present invention has an excellent effect in proliferating cells and has the effects of alleviating skin wrinkles and maintaining skin elasticity, and thus can be useful in the field of functional cosmetic products.

No. of Pages : 23 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006827 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : IMAGE ARRAYS FOR OPTICAL DEVICES AND METHODS OF MANUFACTURE THEREOF

(51) International classification	:B42D25/30B41M3/14B42D25/351
(31) Priority Document No	:1614319.0
(32) Priority Date	:22/08/2016
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2017/052362 :10/08/2017
(87) International Publication No	:WO 2018/037208
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)LISTER, Adam

(57) Abstract :
A method of manufacturing an image array for an optical device, comprising: (a) generating a plurality of different mask images by, for each of at least two different images, the at least two images collectively including parts in at least two different colours: (a1) providing a pixelated version of the image comprising a plurality of image pixels, each image pixel exhibiting a uniform colour; (a2) for each image pixel of the pixelated image, creating a corresponding mask pixel based on the colour of the respective image pixel, each mask pixel comprising an arrangement of one or more mask regions and/or one or more void regions, different arrangements of the one or more mask regions and/or one or more void regions in different ones of the mask pixels defining different respective colours; (a3) arranging the mask pixels in accordance with the positions of their corresponding image pixels in the pixelated image to form a mask image; (b) interlacing the plurality of different mask images, by dividing each mask image into elongate image slices extending along a first direction, selecting a subset of image slices from each mask image, and arranging the selected image slices from all of the mask images to form an interlaced mask image in which the image slices from each respective mask image alternate with one another periodically along a second direction which is substantially orthogonal to the first direction; then, in any order or simultaneously: (c) forming a mask layer comprising a masking material which is patterned in accordance with the interlaced mask image; and (d) forming a colour layer comprising elongate strips of at least two different colours which alternate with one another periodically in the first direction, the elongate strips extending along the second direction; wherein the mask layer and the colour layer are arranged to overlap one another, whereby the void regions of the mask pixels in the mask layer reveal portions of the colour layer such that, in combination, the mask layer and the colour layer form a multi-coloured image array exhibiting versions of the at least two images interlaced with one another.

No. of Pages : 46 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006879 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD FOR MANUFACTURING UNIVERSAL JOINT USING PIPE

(51) International classification :B21K1/76B21J5/02B21J5/10
(31) Priority Document No :10-2016-0131241
(32) Priority Date :11/10/2016
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2017/011131
Filing Date :11/10/2017
(87) International Publication No :WO 2018/070758
(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, Byeong Hwa

(57) Abstract :
The purpose of the present invention is to provide a method for manufacturing a universal joint using a pipe, wherein a shaft joint having a yoke formed integrally therewith and a pipe joint are manufactured by cutting a pipe into a material having a predetermined length, forming the material, pressing the material, and then processing the material, thereby providing advantageous effects of manufacturing cost reduction, productivity improvement, and product weight decrease while guaranteeing durability. Particularly, a pipe joint is manufactured by a material preparing step of cutting a pipe into a predetermined length, thereby preparing a material; a shaft forming step of forming the outer portion of a shaft forming portion of the material, excluding a head forming portion, by a forming machine such that, by reducing the outer diameter thereof, a shaft is formed; an incising step of forming a splitting groove on the head forming portion, which has not been reduced, in the axial direction such that the same is bifurcated; a yoke forming step of pressing the incised head forming portion such that a pair of yokes are formed on the head so as to face each other; a pin hole forming step of forming a pin hole in the yoke; a material preparing step of manufacturing a shaft joint through a spline shaft forming step of forming a spline shaft on the outer surface of the reduced hollow shaft and cutting the pipe into a predetermined length, thereby preparing a material; a tube forming step of forming the outer portion of a tube forming portion of the material, excluding a head forming portion, by the forming machine such that the outer diameter thereof is reduced; an incising step of forming a splitting groove on the head forming portion, which has not been reduced, in the axial direction such that the same is bifurcated; a yoke forming step of pressing the incised head forming portion such that a pair of yokes are formed on the head so as to face each other; a pin hole forming step of forming a pin hole in the yoke; and a spline boss forming step of forming a spline boss on the inner surface of the reduced hollow tube.

No. of Pages : 27 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006882 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : TRIMER STABILIZING HIV ENVELOPE PROTEIN MUTATIONS

(51) International classification :A61K39/12C07K14/005
(31) Priority Document No :16188866.4
(32) Priority Date :15/09/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/073141
Filing Date :14/09/2017
(87) International Publication No :WO 2018/050747
(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)TRUAN, Daphn
3)STROKAPPE, Nika, Mindy
4)LANGEDIJK, Johannes, Petrus, Maria

(57) Abstract :
Human immunodeficiency virus (HIV) envelope proteins having mutations that stabilize the trimeric form of the envelope protein are provided. The HIV envelope proteins have certain amino acid substitutions at specified positions in the envelope protein sequence. The HIV envelope proteins described herein have an improved percentage of trimer formation and/or an improved trimer yield as compared to an HIV envelope protein that does not have one or more of the indicated amino acid substitutions. Also provided are nucleic acid molecules and vectors encoding the HIV envelope proteins, as well as compositions containing the HIV envelope proteins, nucleic acid, and vectors.

No. of Pages : 87 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006886 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ONLINE CHARGING FOR APPLICATION DOWNLOAD

(51) International classification :H04L12/14H04M15/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/IB2016/054958
Filing Date :18/08/2016
(87) International Publication No :WO 2018/033777
(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)SHARMA, Nipun
2)FOTI, George
3)MADOUR, Lila

(57) Abstract :
This specification presents methods and apparatus in a user equipment, packet data gateway, online charging server and policy server for enabling a user equipment with a prepaid subscription to select an application to download and obtain its downloadable size and reserve charging credits and resources at the network prior to downloading the application in accordance with the downloadable size thus allowing the prepaid user to secure the successful entire download of the application without running the risk of depleting the prepaid account while downloading.

No. of Pages : 29 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006903 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEMS AND METHODS FOR DISCOVERING CONFIGURATIONS OF LEGACY CONTROL SYSTEMS

(51) International classification :G05B23/02G05B19/418
(31) Priority Document No :15/226856
(32) Priority Date :02/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/043119
Filing Date :20/07/2017
(87) International Publication No :WO 2018/026535
(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)MUNIHANUMAIAH, Shylaja
2)GANAPATHI, Ramakrishnan
3)NIKHRA, Abhishek

(57) Abstract :
A system includes at least one processor (202) configured to identify (402) multiple nodes (114-134) coupled to at least one network (102, 104) of an industrial plant, obtain (404) configuration data from each of the nodes, parse (412) the configuration data to extract specified information from the configuration data, and store (412) the extracted specified information in a specified format. To parse the configuration data for each node, the at least one processor may be configured to generate (406) a memory layout for the configuration data from the node, (410) open a checkpoint file containing the configuration data from the node, and identify (410) at least one point and header information for the at least one point in the checkpoint file using the memory layout. To identify the multiple nodes, the at least one processor can be configured to generate a network diagram of the nodes coupled to the at least one network and identify the nodes from the network diagram.

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006911 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PORTAL-AXLE OF LOW FLOOR RAIL VEHICLES AND RAIL-AND-TRAM VEHICLES

(51) International classification	:B61F3/04B61F3/16
(31) Priority Document No	:102016000088005
(32) Priority Date	:30/08/2016
(33) Name of priority country	:Italy
(86) International Application No Filing Date	:PCT/IB2017/055176 :29/08/2017
(87) International Publication No	:WO 2018/042326
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)FENAROLI, Marco
2)CERVELLO, Steven
3)GALLO, Riccardo
4)CANTINI, Stefano

(57) Abstract :
A portal-axle of bogies for light rail vehicles, such as for example trams or light rail metros with street running, is described, the light rail vehicles being characterized by a floor, i.e. a walking surface, lowered with respect to the rails. The portal-axle comprises two shoulders equipped with spindles for mounting wheels and with a central portion for structurally connecting the shoulders. Unlike conventional solutions, the central portion is not made by casting or forging, but advantageously is simply defined by at least two bars coupled thereto during the assembly. The bars are easily available on the market at low cost, have lower weight with respect to a traditional forged/cast component and allow modularity and versatility in dimensioning the portal-axle to be obtained.

No. of Pages : 11 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006915 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SHUTOFF SEAL FOR HIGH TEMPERATURE PRESSURE BALANCE VALVE AND RELATED METHODS

(51) International classification :F16K1/42F16K1/46F16J15/18
(31) Priority Document No :62/368033
(32) Priority Date :28/07/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/044231
Filing Date :27/07/2017
(87) International Publication No :WO 2018/022924
(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)WINKEL, Laren J.

(57) Abstract :
A valve assembly includes a valve body having a seat-retainer chamber with a floating seat ring disposed adjacent an inner sidewall of the seat-retainer chamber. The floating seat ring is configured to contact a first portion of a plug head at a single annular location prior to a second portion of the plug head contacting a valve primary seat during a closing stroke of the plug head. A static seal is located radially between the floating seat ring and the inner sidewall of the seat-retainer chamber.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006919 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ALDEHYDE TRAPPING COMPOUNDS AND USES THEREOF

(51) International classification :A61K31/423C07D215/38
(31) Priority Document No :62/378065
(32) Priority Date :22/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/047945
Filing Date :22/08/2017
(87) International Publication No :WO 2018/039192
(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)YOUNG, Scott

(57) Abstract :
The present invention provides compounds and methods for the treatment, prevention, and/or reduction of a risk of a disease, disorder, or condition in which aldehyde toxicity is implicated in the pathogenesis, including ocular disorders, skin disorders, conditions associated with injurious effects from blister agents, and autoimmune, inflammatory, neurological and cardiovascular diseases by the use of a primary amine to scavenge toxic aldehydes, such as MDA and HNE.

No. of Pages : 54 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006921 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM AND METHOD FOR OFF-SHORE & IN-SHORE AQUACULTURE USING FLOATING CLOSED CONTAINMENT FARMING AND AMALGAMATED FACILITY

(51) International classification :A01K61/60
(31) Priority Document No :10201608768V
(32) Priority Date :19/10/2016
(33) Name of priority country :Singapore
(86) International Application No :PCT/SG2017/050494
Filing Date :02/10/2017
(87) International Publication No :WO 2018/074976
(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)LEOW, Ban Tat

(57) Abstract :
An aquaculture production and/or transfer system is provided and comprises: at least one floating aquaculture production apparatus on a novel offshore advanced hull system of varying shapes for closed containment method and ecological friendly for sustainable floating farming system (which may be marketed under Eco-Ark,,); a station keeping apparatus coupled to the aquaculture production apparatus; a custodian transfer apparatus having a custodian chamber, a chute and a pump, wherein the custodian chamber is fluidly coupled to at least one of the tanks to receive live aquatic animals therefrom, wherein the chute is configured to transfer live aquatic animals to an amalgamated facility.

No. of Pages : 31 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006922 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CORONA IGNITION DEVICE WITH IMPROVED ELECTRICAL PERFORMANCE

(51) International classification :H01T13/36H01T13/44H01T13/50
(31) Priority Document No :15/240652
(32) Priority Date :18/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/046420
Filing Date :11/08/2017
(87) International Publication No :WO 2018/034952
(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)BURROWS, John, Antony
2)MILLER, John, E.
3)MIXELL, Kristapher, I.
4)LYKOWSKI, James, D.

(57) Abstract :
A corona igniter (20) comprises a central electrode (22) surrounded by an insulator (26), which is surrounded by a conductive component. The conductive component includes a shell (34) and an intermediate part (36) both formed of an electrically conductive material. The intermediate part is a layer of metal which brazes the insulator to the shell. An outer surface (50) of the insulator presents a lower ledge (52), and the layer of metal can be applied to the insulator above the lower ledge prior to or after inserting the insulator into the shell. The conductive inner diameter Dc is less than an insulator outer diameter Dio directly below the lower ledge such the insulator thickness ti increases toward the electrode firing end (40). The insulator outer diameter is also typically less than the shell inner diameter Dis also that the corona igniter can be reverse-assembled.

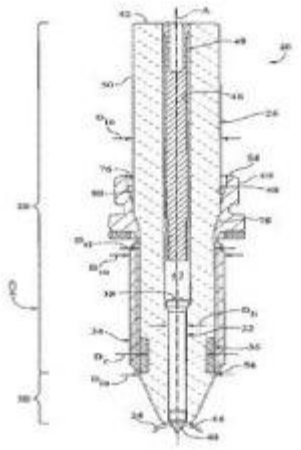

FIG. 1

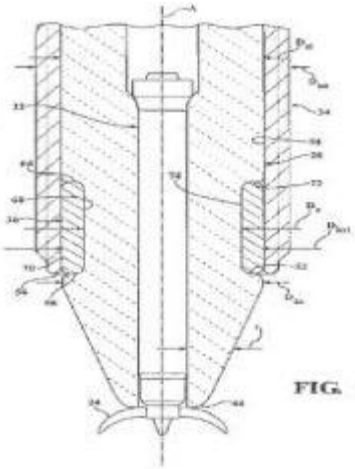

FIG. 1A

No. of Pages : 18 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006924 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : FISCHER-TROPSCH CATALYST PERFORMANCE ENHANCEMENT PROCESS

(51) International classification :B01J38/10B01J23/889B01J23/94
(31) Priority Document No :1614363.8
(32) Priority Date :23/08/2016
(33) Name of priority country :U.K.
(86) International Application No :PCT/EP2017/070917
Filing Date :18/08/2017
(87) International Publication No :WO 2018/036919
(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)OJEDA PINEDA, Manuel
3)PATERSON, Alexander, James

(57) Abstract :
The present invention relates to a process for treating a catalyst to improve performance, and more specifically to a process for treating a Fischer-Tropsch catalyst using a high hydrogen syngas to improve catalyst performance.

No. of Pages : 17 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006925 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : IMPACT RESISTANT, SHRINKABLE WOVEN TUBULAR SLEEVE AND METHOD OF CONSTRUCTION THEREOF

(51) International classification :D03D1/00D03D3/02D03D11/02
(31) Priority Document No :62/378968
(32) Priority Date :24/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/048301
Filing Date :24/08/2017
(87) International Publication No:WO 2018/039397
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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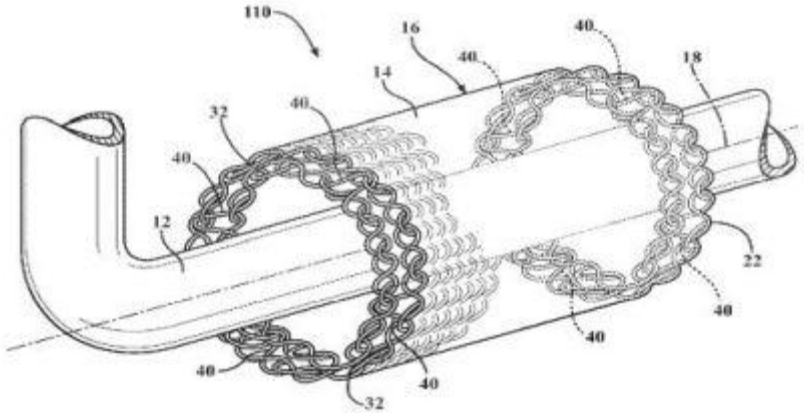
2)GAO, Tianqi
3)WINTERS, Danny
4)MEHBUBANI, Ritesh
5)ZHANG, Zhong, Huai

(57) Abstract :
A woven sleeve for routing and protecting an elongate member and method of construction thereof are provided, The sleeve has a woven wall with a circumferentially continuous outer periphery extending along a central axis between opposite ends. Warp yams extend generally parallel to the central axis and fill yams extend generally transversely to the warp yams. At least a portion of the wall has a plurality of layers in abutment with one another. At least one of the fill yarns is provided as a shrinkable yarn that provides the wall with an ability to remain in a first, diametrically enlarged assembly state to facilitate assembly of the sleeve about the elongate member, whereupon the wall can be radially constricted to a second, diametrically constricted assembled state to maintain the sleeve m the desired location, while also minimizing the outer circumference to facilitate use of the sleeve in tight spaces.

FIG. 4



No. of Pages : 17 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006926 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : INLET FOR BUILD MATERIAL CONTAINER

(51) International classification :B29C64/255
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/US2016/059164
Filing Date :27/10/2016
(87) International Publication No :WO 2018/080505
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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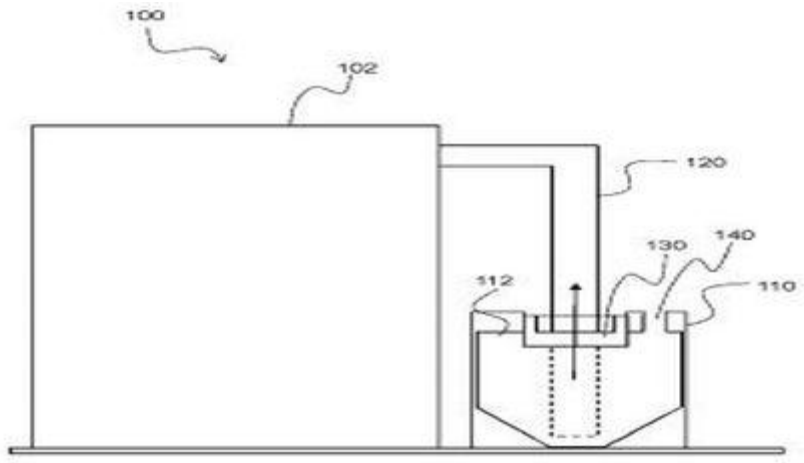
2)CABANES, Jaime
3)JONES POPPESCOU, Ernesto Alejandro

(57) Abstract :
Examples of an inlet to enable a forced air flow to enter a build material container in a 3D additive manufacturing system are described. In one case, the inlet has a structure having an inner face and an outer face forming at least one aperture through the structure through which forced air flows in use. The inlet has a longitudinal axis and the inner face and outer face are non-aligned along at least one axis which passes through each of inner face and the outer face and is substantially parallel to the longitudinal axis.



No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006940 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CHECK VALVE, HIGH-PRESSURE COMPONENT AND HIGH-PRESSURE FUEL PUMP

(51) International classification	:F02M59/46F16K15/02F02M59/44
(31) Priority Document No	:10 2016 217 923.3
(32) Priority Date	:19/09/2016
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2017/073412 :18/09/2017
(87) International Publication No	:WO 2018/050881
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
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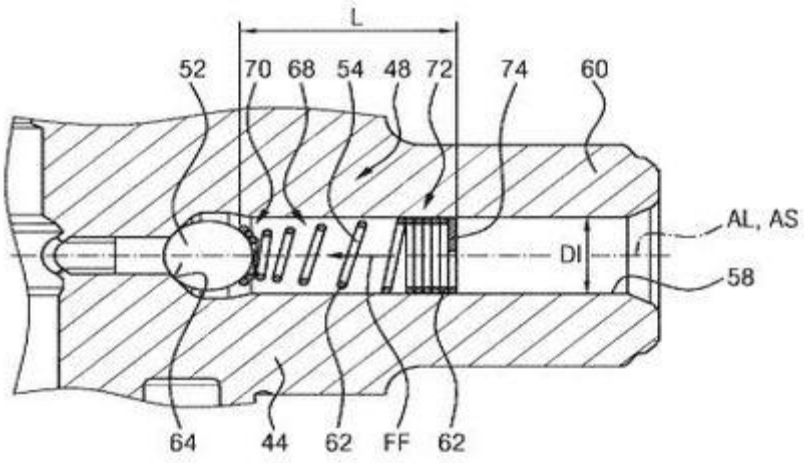
2)KAMM, Helmut
3)TREMMEL-BURIAN, Josef

(57) Abstract :
The invention relates to a check valve (48), wherein a sealing element (52) and a coil spring (54) that retains the sealing element (52) on a valve seat (64) are arranged in a valve hole (58) having an inner diameter (DI), wherein the coil spring (54) has a plurality of coil turns (62) having an outer diameter (DA), wherein, in an unassembled state, the outer diameter (DA) of at least one of the coil turns (62) is greater than the inner diameter (DI) of at least one sub-region of the valve hole (58). The invention also relates to a high-pressure component (44) and a high-pressure fuel pump (18) having a check valve (48) of this type.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006941 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SAND SPREADING SYSTEM AND RAIL VEHICLE WITH SUCH A SAND SPREADING SYSTEM

(51) International classification :B61C15/10
(31) Priority Document No :10 2016 216 018.4
(32) Priority Date :25/08/2016
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2017/065661
Filing Date :26/06/2017
(87) International Publication No :WO 2018/036690
(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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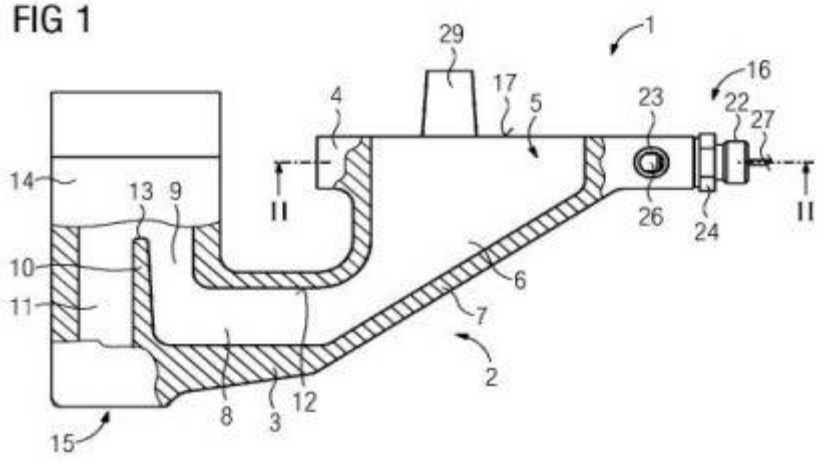
(72)**Name of Inventor :**
1)GRONAU, Hans-Joachim
2)STELZLE, Wilfried

(57) Abstract :
The invention relates to a sand spreading system (1) for a rail vehicle with driveable and/or brakeable rail wheels. The sand spreading system (1) comprises a sand box for storing spreading sand, a sand staircase (2) which is fastened to the sand box for the compressed-air-controlled metering of the output of spreading sand, and a sand outlet tube which is connected to the sand staircase (3) via a sand hose and opens in front of a rail wheel. By a heating device (16) for generating a hot air flow passing through the spreading sand being integrated in the sand staircase (2), the spreading sand can be kept dry and pourable even in the wet and frost, and therefore the function of the sand staircase (2) and hence effective operation of the rail vehicle are provided.

FIG 1



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917006950 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AMIDE COMPOUNDS, PHARMACEUTICAL COMPOSITIONS THEREOF, AND METHODS OF USING THE SAME

(51) International classification :C07C69/708C07C237/12
(31) Priority Document No :62/374657
(32) Priority Date :12/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/046807
Filing Date :14/08/2017
(87) International Publication No :WO 2018/032012
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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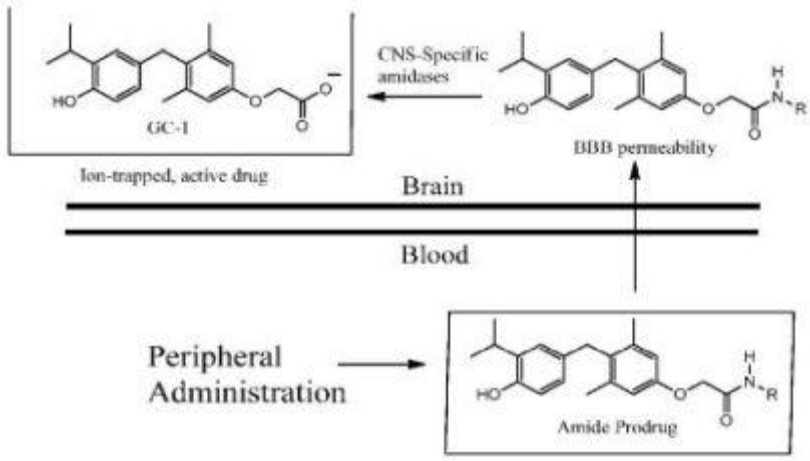
2)MEINIG, James Matthew
3)FERRARA, Skylar J.
4)BANERJI, Tapasree
5)BANERJI, Tania

(57) Abstract :
Amide compounds are disclosed. Also disclosed are pharmaceutical compositions comprising the compounds as well as methods of treating neurodegenerative diseases that involve administering the compounds or pharmaceutical compositions to a subject.



No. of Pages : 62 No. of Claims : 45

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917006956 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : RECORD MATCHING SYSTEM

(51) International classification :G06F17/30
(31) Priority Document No :62/365858
(32) Priority Date :22/07/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/040308
Filing Date :30/06/2017
(87) International Publication No :WO 2018/017306
(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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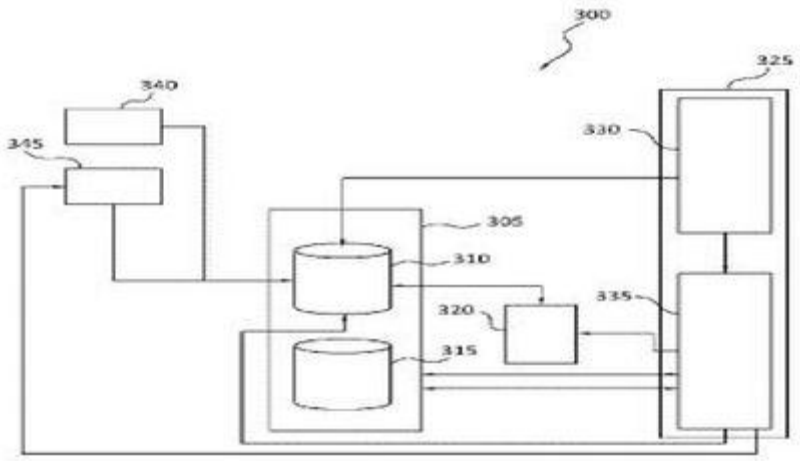
1)BATCHU, Ravi
2)GANOTRA, Manish
3)GILLUM, Diana
4)TAO, Joolee
5)TRUESDALE, Steven

(57) Abstract :
The present invention discloses methods and systems for an improved Enterprise Matching Service (EMS) that is designed to match incoming data records to a database of records, using less system resources and using those resources more efficiently. The EMS identifies potential matches by generating unique identifiers and match codes for incoming data records, and then matching the unique identifiers and match codes to pre-generated unique identifiers and match codes for database records. Various match sensitivities are embedded in the pre-generated match codes, so an extensive match is handled by a simplistic one to one match between match codes in order to identify a subset of potential matches. Once a subset of potential matches are identified, the methods and systems weigh the subset of potential matches to determine whether there is a match.



No. of Pages : 27 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917006957 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A HYBRID POLYESTER-FLUOROCARBON POWDER COATING COMPOSITION AND A METHOD FOR COATING A SUBSTRATE WITH SUCH COMPOSITION

(51) International classification	:C08G18/62C08G18/80C09D127/12
(31) Priority Document No	:CN2016/099199
(32) Priority Date	:18/09/2016
(33) Name of priority country	:China
(86) International Application No	:PCT/EP2017/073189
Filing Date	:14/09/2017
(87) International Publication No	:WO 2018/050774
(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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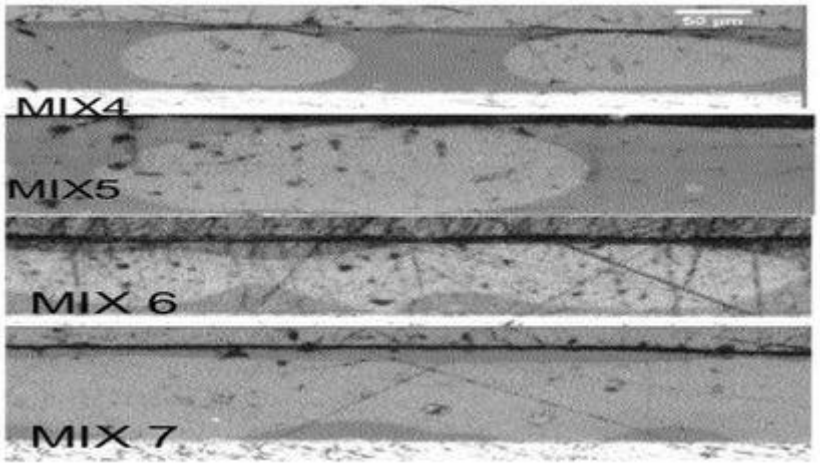
Address of Applicant :Velperweg 76 NL-6824 BM Arnhem Netherlands
(72)**Name of Inventor :**
1)TAO, Yanling
2)WANG, Xiaodong
3)JIANG, Wei

(57) Abstract :
The present invention provides a hybrid polyester-fluorocarbon powder coating composition which is a dry blend of a polyester powder coating composition A and a fluorocarbon powder coating composition B, wherein: -polyester powder coating composition A comprises a first polyester polymer and a curing agent for the first polyester polymer; and -fluorocarbon powder coating composition B comprises a fluorocarbon polymer, a curing agent for the fluorocarbon polymer, and a second polyester polymer and a curing agent for the second polyester polymer; wherein the weight ratio of polyester powder coating composition A and fluorocarbon powder coating composition B is in the range of from 25:75 to 75:25, wherein the first polyester polymer is a carboxyl functional polymer having an acid value in the range from 18 to 70 mg KOH/g polymer and wherein the second polyester polymer is a hydroxyl functional polyester polymer having a hydroxyl value in the range of from 70 to 350 mg KOH/g polymer. The invention further provides to a method for coating a substrate with such hybrid polyester-fluorocarbon powder coating composition.



No. of Pages : 21 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

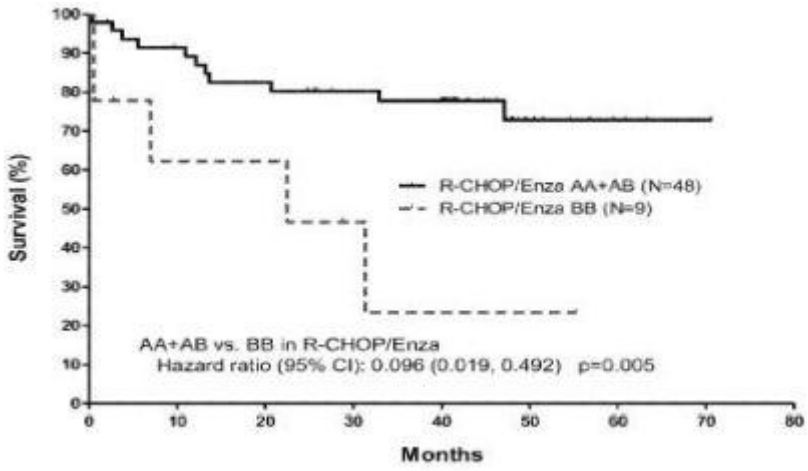
(21) Application No.201917006962 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHODS AND COMPOSITION FOR THE PREDICTION OF THE ACTIVITY OF ENZASTAURIN

(51) International classification :C12Q1/68
(31) Priority Document No :62/382734
(32) Priority Date :01/09/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/049747
Filing Date :31/08/2017
(87) International Publication No :WO 2018/045240
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)DENOVO BIOPHARMA LLC
Address of Applicant :6331 Nancy Ridge Drive San Diego, CA 92121 U.S.A.
(72)**Name of Inventor :**
1)LUO, Wen
2)SUN, Hong

(57) Abstract :
The present invention describes biomarkers that have been discovered to correlate with varied individual responses (e.g., efficacy, adverse effect, and other end points) to enzastaurin, in treating diseases such as, DLBCL, GBM, and other cancer types. The newly discovered biomarkers and others in linkage disequilibrium with them can be used in companion diagnostic tests which can help to predict drug responses and apply drugs only to those who will be benefited, or exclude those who might not be beneficial, by the treatment.



No. of Pages : 69 No. of Claims : 84

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917006963 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ARTICLE WITH ANGLED REFLECTIVE SEGMENTS

(51) International classification :G02B5/124
(31) Priority Document No :62/382187
(32) Priority Date :31/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/049735
Filing Date :31/08/2017
(87) International Publication No :WO 2018/045233
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)VIAVI SOLUTIONS INC.
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(72)**Name of Inventor :**
1)RAKSHA, Vladimir

(57) Abstract :
According to examples, an article may include a base layer that extends along a first dimension and a second dimension, in which the second dimension is orthogonal to the first dimension. The article may also include reflective ribbons provided on an upper surface of the base layer, in which the reflective ribbons positioned along a common plane extending in the second dimension have dihedral angles that change as a function of distance across the common plane.

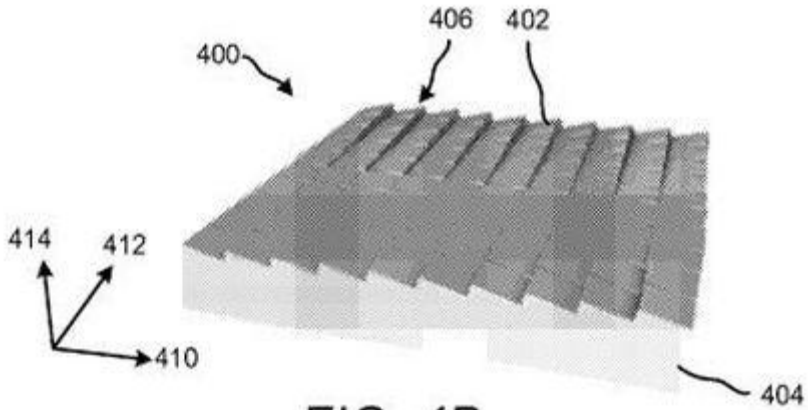

FIG. 4B

No. of Pages : 31 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917006971 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : WATER HEATER AND CONTROL METHOD THEREOF

(51) International classification :F24H1/20F24H9/20
(31) Priority Document No :201610700474.6
(32) Priority Date :19/08/2016
(33) Name of priority country :China
(86) International Application No :PCT/CN2017/098048
Filing Date :18/08/2017
(87) International Publication No :WO 2018/033144
(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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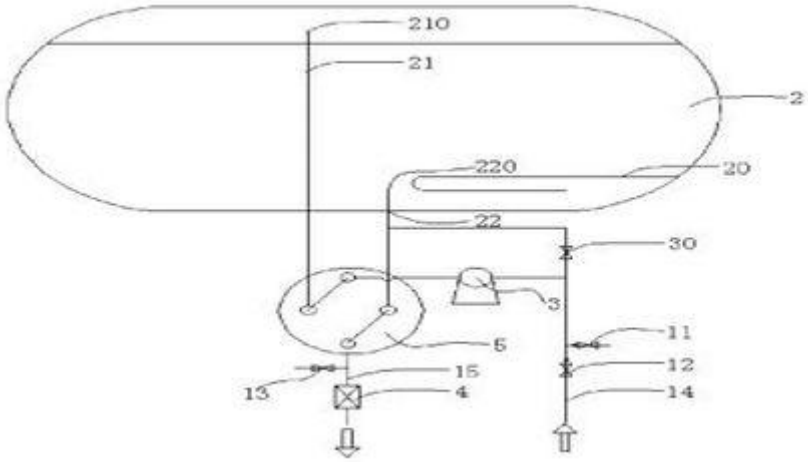
(72)**Name of Inventor :**
1)WAN, Huaxin
2)WANG, Hua
3)DU, Tao
4)YAO, Zhenhu
5)CHEN, Mingming

(57) Abstract :
A water heater comprising: a lining (2) capable of storing a fluid; a mixing apparatus used for gas-liquid mixture of a gas and a liquid, the mixing apparatus being provided with a mixing space (1) used for gas-liquid mixture, the mixing space (1) being arranged within the lining (2); and a driver apparatus (3) capable of being in communication with the lining (2) and the mixing apparatus, the driver apparatus (3) being capable of guiding the fluid in the lining (2) into the mixing space (1) for gas-liquid mixture and returning same into the lining (2). Also provided is a control method for the water heater. This allows the implementation of gas-liquid mixture so as to produce microbubble water available to a user, is not only energy-saving, water-saving, and environmentally friendly, provides water supply with strong cleaning performance, but also prepares in advance, before being used by the user, the microbubble water in the lining, thus better satisfying use demands of the user.



No. of Pages : 75 No. of Claims : 78

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917006983 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A METALLIC NANOPARTICLE DISPERSION

(51) International classification :C09D11/00C09D5/24C09D11/02
(31) Priority Document No :16185807.1
(32) Priority Date :26/08/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/071314
Filing Date :24/08/2017
(87) International Publication No :WO 2018/037072
(61) 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-GEVAERT N.V.
Address of Applicant :IP Department 3622 Septestraat 27 2640 Mortsel Belgium
(72)**Name of Inventor :**
1)BOLLEN, Dirk

(57) Abstract :
A metallic nanoparticle dispersion comprising metallic nanoparticles, a liquid carrier and an optional binder, characterized in that the dispersion further comprises a silane compound according to Formula (I) wherein R1, R2 and R3 are independently selected from the group consisting of a hydrogen, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aryl group, an alkoxy group and an aryloxy group with the proviso that at least one of R1 to R3 represents an alkoxy group or an aryloxy group, L1 represents a divalent linking group comprising one to 20 carbon atoms, A represents a thiol, a disulfide or a functional moiety comprising at least one thiol or disulfide, having no more than 10 carbon atoms, and n represents 0 or 1.

No. of Pages : 36 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917006984 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AUSTENITIC STAINLESS STEEL

(51) International classification :C22C38/00C22C38/58
(31) Priority Document No :2016-168596
(32) Priority Date :30/08/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/031157
Filing Date :30/08/2017
(87) International Publication No :WO 2018/043565
(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)OKADA, Hirokazu
2)KURIHARA, Shinnosuke
3)DAN, Etsuo
4)SETO, Masahiro
5)OSUKI, Takahiro

(57) Abstract :
Provided is an austenitic stainless steel which exhibits excellent polythionic acid SCC resistance and excellent creep ductility. An austenitic stainless steel according to the present embodiment has a chemical composition which contains, in terms of mass%, 0.030% or less of C, 0.10-1.00% of Si, 0.20-2.00% of Mn, 0.040% or less of P, 0.010% or less of S, 16.0-25.0% of Cr, 10.0-30.0% of Ni, 0.1-5.0% of Mo, 0.20-1.00% of Nb, 0.050-0.300% of N, 0.0005-0.100% of sol.Al and 0.0010-0.0080% of B, with the remainder comprising Fe and impurities, and which satisfies formula (1). $B+0.004-0.9C+0.017Mo2 \geq 0$ (1) Here, the atomic symbols in formula (1) are substituted by the content (mass%) of the corresponding element.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917006985 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : HAIR CARE APPLIANCE

(51) International classification :A45D1/00A45D2/00A45D6/00
(31) Priority Document No :1614663.1
(32) Priority Date :30/08/2016
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2017/052433
Filing Date :17/08/2017
(87) International Publication No :WO 2018/042158
(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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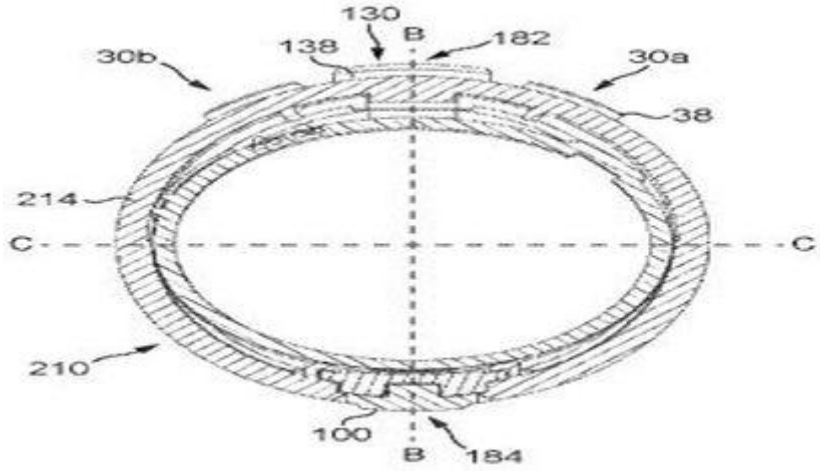
(72)**Name of Inventor :**
1)THOMPSON, Daniel
2)COULTON, Robert

(57) Abstract :
Disclosed is a hand held appliance comprising a handle and a user interface comprising at least one user operated button wherein the handle has an elliptical cross section having a major axis and a minor axis wherein the user interface is provided on a first vertex of the major axis and the handle additionally comprises a further user operated button and the further user operated button is provided on a second vertex of the major axis. The appliance may further comprise an attachment for connection to the handle wherein the further user operated button operates a mechanism for removing the attachment from the handle. The user interface may comprise three user operated buttons which may be arranged in a triangular configuration, each of the three user operated buttons may be disposed at a vertex of the triangle.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917006995 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ANTIBODIES TARGETING TUMOR ASSOCIATED MACROPHAGES AND USES THEREOF

(51) International classification :C07K16/28
(31) Priority Document No :16305992.6
(32) Priority Date :29/07/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/069174
Filing Date :28/07/2017
(87) International Publication No :WO 2018/020000
(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)CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)
4)CENTRE HOSPITALIER UNIVERSITAIRE DE TOULOUSE
5)INSTITUT CLAUDIUS REGAUD
(72)**Name of Inventor :**
1)POUPOT, Mary
2)YSEBAERT, Lo¯c
3)TOSOLINI, Marie
4)FOURNIE, Jean-Jacques
5)BROUSSET, Pierre
6)ROCHAIX, Philippe

(57) Abstract :
The present invention relates to antibodies targeting Tumor Associated Macrophages (TAMs) and uses thereof. The inventors investigated specific marker exposed on the surface of the macrophages associated to tumor in order to detect and target TAMs. They showed that sideroflexin 3, which is absent in normal macrophage, is expressed by tumor associated macrophages. The inventors further demonstrated that using antibody directed to sideroflexin 3, they depleted TAMs in PBMC sample obtained from LCC patient, and strongly reduced leukemic B cells number.

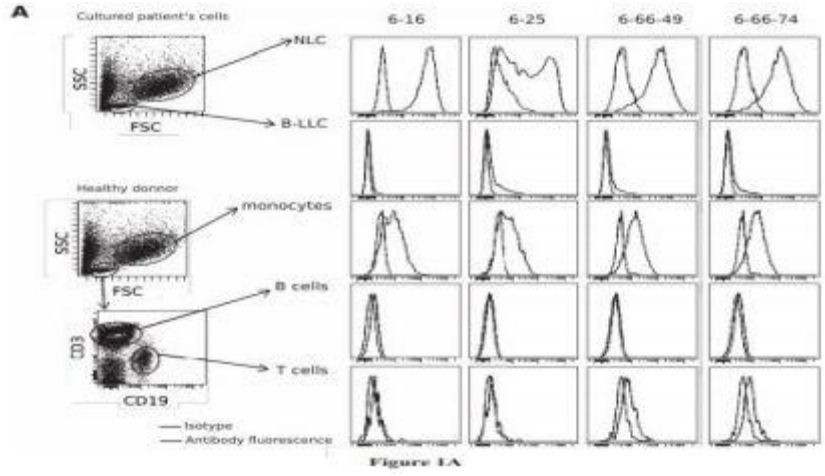

Figure 1A

No. of Pages : 65 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917006999 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A PAD FOR A RAILWAY RAIL FASTENING ASSEMBLY

(51) International classification :E01B9/68
(31) Priority Document No :1616608.4
(32) Priority Date :30/09/2016
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2017/051015
Filing Date :12/04/2017
(87) International Publication No :WO 2018/060668
(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 :63 Station Road Addlestone Surrey KT15 2AR U.K.
(72)**Name of Inventor :**
1)COX, Stephen John
2)HAMILTON, Robert John

(57) Abstract :
A pad for a railway rail fastening assembly, the pad being configured for placement between a rail and an underlying foundation, such as slab track or a sleeper, wherein a cross-section of the pad comprises: a second resilient layer configured to face a railway rail; an intermediate rigid layer; and a first resilient layer configured to face an underlying foundation. The rigid layer is provided between and is integrally formed with the first and second resilient layers. An edge of the pad comprises at least one ear that extends beyond a central region of the pad, the rigid layer extending into the ear with the ear being configured to resist rail roll.

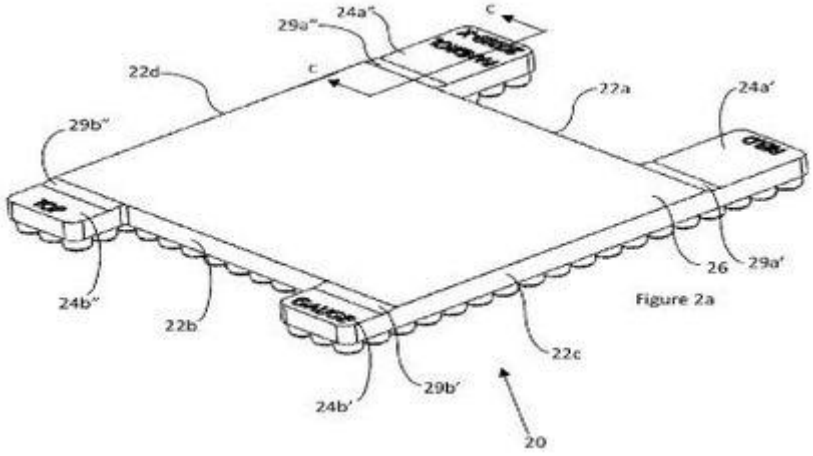

Figure 2a

No. of Pages : 26 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007008 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD, APPARATUS AND SYSTEM FOR NOTIFICATION

(51) International classification :H04L12/58
(31) Priority Document No :201610617868.5
(32) Priority Date :29/07/2016
(33) Name of priority country :China
(86) International Application No :PCT/CN2017/094795
Filing Date :28/07/2017
(87) International Publication No :WO 2018/019281
(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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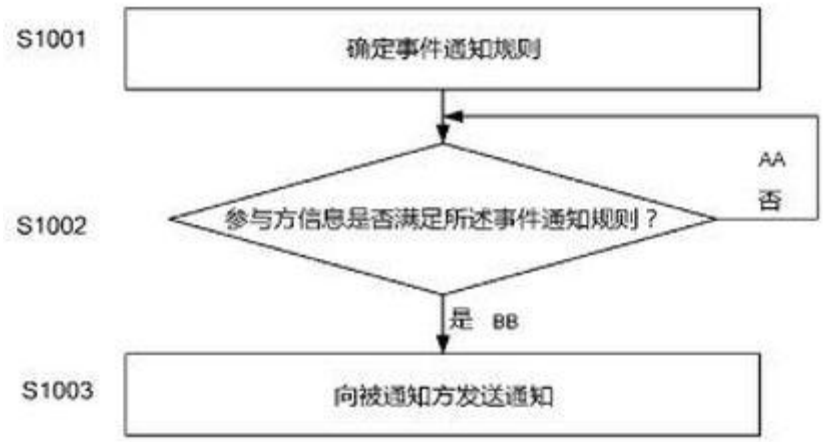
(72)**Name of Inventor :**
1)ZHAO, Junjie

(57) Abstract :
A method, apparatus and system for notification. The method comprises: determining an event notification rule (S1001); determining whether participant information satisfies the event notification rule (S1002); and if so, sending a notification to a notified party (S1003), wherein the participant information comprises at least one of a participant identifier, a participant identifier feature, a participant role and a participant role feature. When a subscription server detects a participant that satisfies the participant information, a notification message is sent to a notified party, thereby realizing the notification service based on the participant and satisfying the requirement of user differentiation.



No. of Pages : 34 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007009 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PERMANENTLY POLARIZED HYDROXYAPATITE, A PROCESS FOR ITS MANUFACTURE AND USES THEREOF

(51) International classification :C01B25/32A61L27/12
(31) Priority Document No :16382381.8
(32) Priority Date :02/08/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/069437
Filing Date :01/08/2017
(87) International Publication No :WO 2018/024727
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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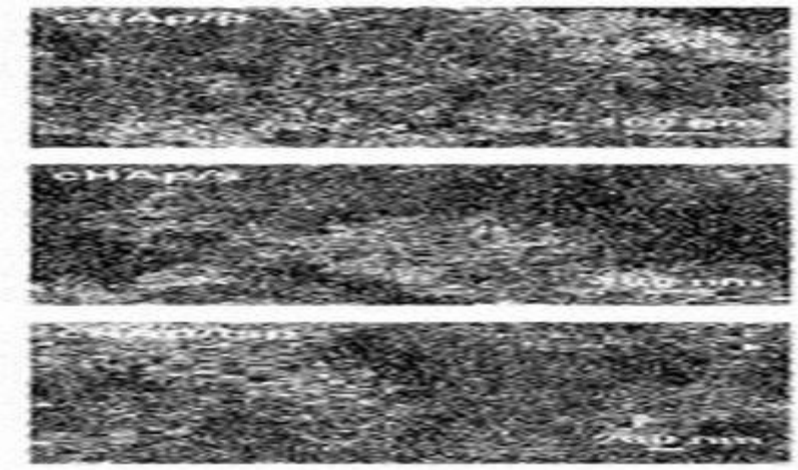
1)TURON DOLS, Pau
2)DEL VALLE MENDOZA, Luis Javier
3)PUIGGAL • BELLALTA, Jordi
4)ALEM • N LLANS, Carlos Enrique

(57) Abstract :
The present invention relates to a permanently polarized hydroxyapatite and a composition or material comprising thereof. The present invention further relates to a process for obtaining a permanently polarized hydroxyapatite and to different uses of the permanently polarized hydroxyapatite or the composition or material comprising thereof.



No. of Pages : 48 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007010 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ORAL CARE IMPLEMENT AND FILAMENT FOR THE SAME

(51) International classification :A46D1/00
(31) Priority Document No :15/250497
(32) Priority Date :29/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/048803
Filing Date :28/08/2017
(87) International Publication No :WO 2018/044751
(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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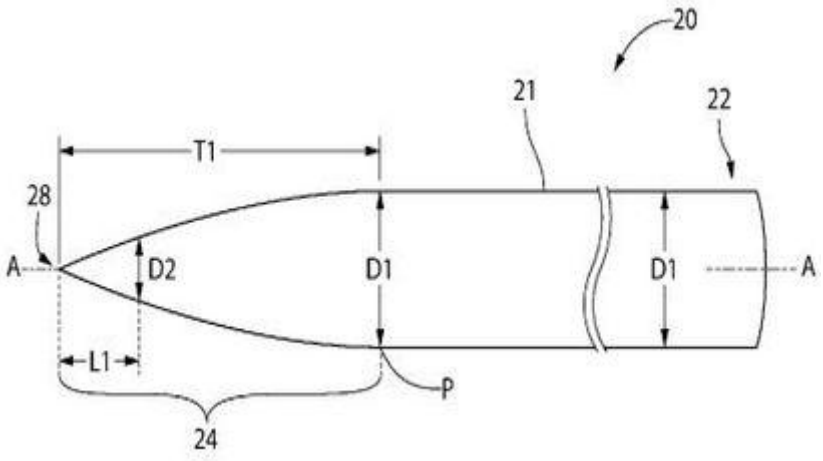
Address of Applicant :300 Park Avenue New York, New York 10022 U.S.A.
(72)**Name of Inventor :**
1)NELSON, Stephen
2)SORRENTINO, Alan

(57) Abstract :
A mechanically tapered bristle filament for an oral care implement. The filament is characterized by a long thin tapered end portion. The tapered end portion has a taper length and tip diameter comparable to chemically tapered filaments. The areal surface roughness of the tapered end portion however is greater than chemically tapered filaments thereby producing increased scrubbing action against the surfaces of the teeth. The foregoing taper and roughness characteristics of the present filament enhance inter-dental cleaning effectiveness.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007012 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD OF PREVENTING OR REDUCING THE INCIDENCE OF ACUTE URINARY RETENTION

(51) International classification :A61K38/10A61K31/517A61P13/02
(31) Priority Document No :15/222365
(32) Priority Date :28/07/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IB2017/054277
Filing Date :14/07/2017
(87) International Publication No :WO 2018/020355
(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)AVERBACK, Paul

(57) Abstract :
The embodiments include methods of preventing or reducing the incidence of acute urinary retention in mammals susceptible to developing acute urinary retention, and to methods of reducing the incidence of clinically detected prostate cancer, using compositions containing compounds based on small peptides and a pharmaceutically acceptable carrier. The method includes, but is not limited to, administering the compounds intramuscularly, orally, intravenously, intraprostatically, intrathecally, intratumorally, intranasally, topically, transdermally, etc., either alone or conjugated to a carrier to a mammal in need thereof.

No. of Pages : 81 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007015 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : MOBILE NETWORK AUTHENTICATION METHOD, TERMINAL DEVICE, SERVER AND NETWORK AUTHENTICATION ENTITY

(51) International classification	:H04L29/06
(31) Priority Document No	:201610814492.7
(32) Priority Date	:09/09/2016
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2017/092429 :11/07/2017
(87) International Publication No	:WO 2018/045817
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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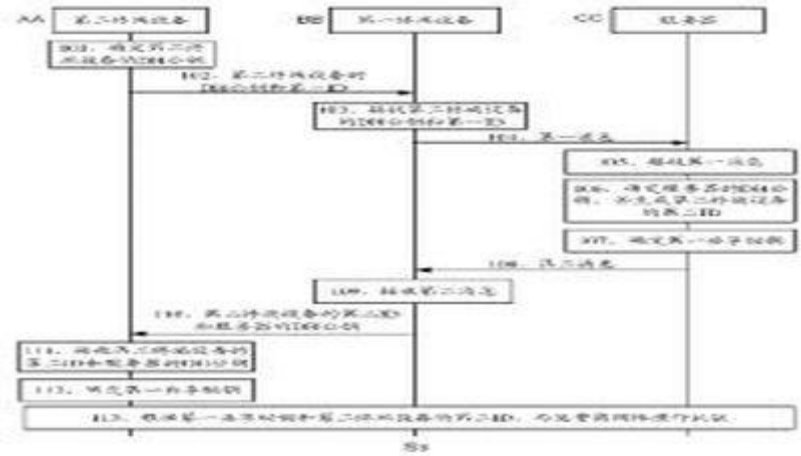
(72)**Name of Inventor :**
1)KANG, Xin
2)WANG, Haiguang
3)YANG, Yanjiang
4)LEI, Zhongding

(57) Abstract :
Disclosed by the present application are a mobile network authentication method, terminal device, server and network authentication entity. The method comprises: a first terminal device receiving a Diffie-Hellman (DH) public key and a first ID sent by at least one second terminal device; the first terminal device sending a first message to a server, the first message comprising a DH public key of each second terminal device in the at least one second terminal device and a first ID of the each second terminal device; the first terminal device receiving a second message sent by the server, the second message comprising a DH public key of the server and a second ID of the each second terminal device generated by the server; and the first terminal device sending the second ID of the each second terminal device and the DH public key of the server to the each second terminal device. In this way, the terminal device may obtain a credential of an operator network even when the terminal does not have a credential pre-issued by the operator network.



No. of Pages : 87 No. of Claims : 62

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007020 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : MANUAL INJECTION DEVICE

(51) International classification :A61M5/32A61M5/50A61M5/315
(31) Priority Document No :1659543
(32) Priority Date :04/10/2016
(33) Name of priority country :France
(86) International Application No :PCT/FR2017/052691
Filing Date :02/10/2017
(87) International Publication No :WO 2018/065708
(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)SAUSSAYE, Anthony
2)JAOUEN, Quentin

(57) Abstract :
Manual injection device comprising a lower body (1) receiving a reservoir (S) containing the fluid product to be injected, a piston (P) and a needle (A), an upper body (2) that is axially movable relative to the lower body (1) upon actuation, the upper body (2) having a piston rod (TP) cooperating with the piston (P) during injection to move the latter in the reservoir (S), an actuator sleeve (10) having a contact end (11) for contacting the users body and being movable, relative to the lower body (1), between projecting positions in which said actuator sleeve (10) at least partially projects from the lower body (1) and an actuation position in which the actuator sleeve (10) is moved axially towards the inside of the lower body (1), wherein the actuator sleeve (10) is in a first projecting position prior to actuation of the manual injection device, and in a second projecting position following actuation of the manual injection device, the actuator sleeve (10) defining, with the lower body (1) or with any element rigidly connected to said lower body, such as a reservoir holder, a pricking lock, and the piston rod (TP) defining, with the reservoir (S) or with any element rigidly connected to said reservoir (S), such as a reservoir holder or the lower body (1), an injection lock, the force required for axially moving the pricking lock being less than the force required to actuate the injection lock, such that the pricking lock is actuated before the injection lock.

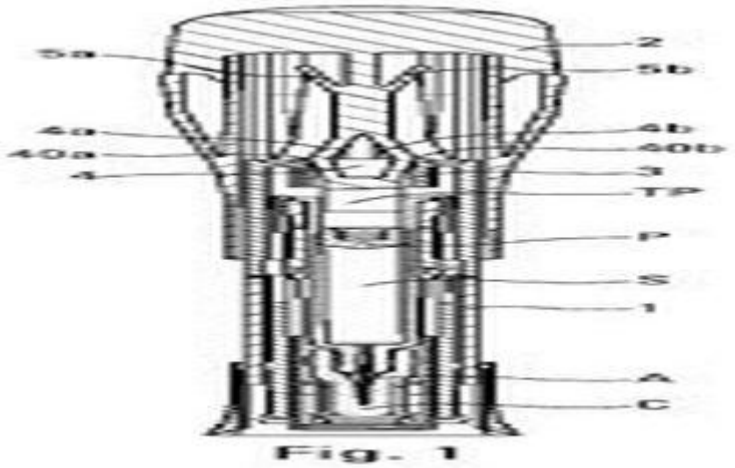

Fig. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007028 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AN AXLE DISCONNECT AND DIFFERENTIAL LOCK COMBINATION

(51) International classification :B60K23/08F16H48/24B60K17/36
(31) Priority Document No :15/253225
(32) Priority Date :31/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/045260
Filing Date :03/08/2017
(87) International Publication No :WO 2018/044493
(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)BRAMMER, Andrew, T.
2)SCHMIDT, Marcus, W.

(57) Abstract :
An axle disconnect and differential locking system for single or multiple axle vehicles which allows the vehicle to selectively engage and disengage an axle half shaft from the differential side gear. Additionally, the system allows the vehicle to selectively switch between locked and unlocked differential driving modes. The system has a first position, a second position and a third position. At the first position, the system is not meshingly engaged with the differential side gear or the differential case. At the second position, the system is meshingly engaged with the differential side gear but is not meshingly engaged with the differential case. At the third position, the system is engaged with the differential side gear and the differential case. In one embodiment the system is a sliding collar. According to another embodiment, the system includes an axle disconnect collar, a differential locking collar and a biasing member disposed therebetween.

No. of Pages : 46 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007031 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ELECTRIC DRIVE AXLE POWERPATH & THE DRIVE AXLE MADE THEREWITH

(51) International classification :B60K7/00B60K17/04B60K17/16
(31) Priority Document No :62/381218
(32) Priority Date :30/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/049369
Filing Date :30/08/2017
(87) International Publication No :WO 2018/045027
(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)DEVREESE, Thibault, G.
2)GALOPPIN, Wouter, W.a.

(57) Abstract :
An electric drive axle having first and second axle shafts operatively connected by a differential apparatus, and an electric motor having a driving shaft coupled with a rotor of the electric motor is provided. A driving shaft may be coupled for rotation with a rotor of the electric motor, and disposed parallel with the first axle shaft. A first driving gear may be disposed on the driving shaft. A driven shaft having a first driven gear and a second driven gear, wherein the first driven gear meshes with the first driving gear. A layshaft disposed parallel with the first axle shaft may comprise a first layshaft gear coupled therewith and meshed with the second driven gear. A second layshaft gear disposed on the layshaft may be in meshed engagement with a first drive gear coupled with the differential apparatus case.

No. of Pages : 51 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007034 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DIGITAL PROPERTY MANAGEMENT ON A DISTRIBUTED TRANSACTION CONSENSUS NETWORK

(51) International classification	:G06Q20/32G06Q20/38G06Q40/06
(31) Priority Document No	:62/366119
(32) Priority Date	:25/07/2016
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2017/012613 :06/01/2017
(87) International Publication No	:WO 2018/022131
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)WU, Ling

(57) Abstract :
Method and system to manage digital properties, in particular to instantly clear and settle transactions of digital properties between two virtual wallets, based on cryptographic technology in a distributed transaction consensus network, eliminating the risks, complication, and time consumption associated with traditional settlement proceedings. Each virtual wallet can only store digital properties issued by the digital property issuer with which the virtual wallet is associated. When a transaction is completed, no extra action is needed for clearing and settlement between a virtual wallet owner (a sender or a recipient) and its associated digital property issuer.

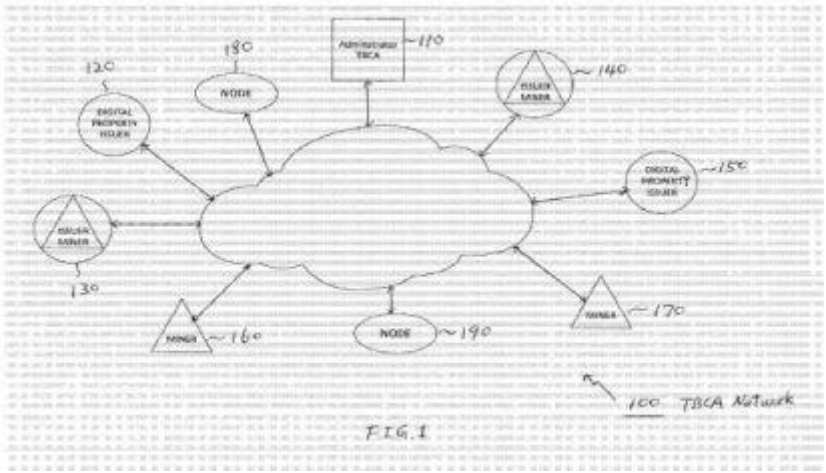

FIG. 1

No. of Pages : 21 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007041 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : POLYMER COMPOSITION WITH HIGH FLEXIBILITY AND FLAME RETARDANCY

(51) International classification :C08L23/08
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/EP2016/071356
Filing Date :09/09/2016
(87) International Publication No :WO 2018/046097
(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)EGLI, Martin
3)EGGERT, Melanie
4)KRUMP, Henrich
5)KWAPULINSKY, Vladimr

(57) Abstract :
The invention relates to polymer compositions used for preparing conjunction devices. The conjunction devices comprise one or more elements including a static/moving current medium or communication medium; and a halogen-free polymer composition surrounding the element(s). The polymer composition includes a linear very low density polyethylene (VLDPE) composition and one or more polyolefin-elastomers. In addition, the polymer composition includes a flame retardant filler.

No. of Pages : 27 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007042 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : STRAND-SHAPED ELEMENTS AND POLYMER COMPOSITION FOR PREPARING SAME

(51) International classification :C08L23/06C08K3/22
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/EP2016/071360
Filing Date :09/09/2016
(87) International Publication No :WO 2018/046099
(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)EGLI, Martin
3)EGGERT, Melanie
4)KRUMP, Henrich
5)KWAPULINSKY, Vladimr

(57) Abstract :
The invention relates to strand-shaped elements and polymer compositions used for preparing the strand-shaped elements. The strand-shaped elements comprise an inner structure and a halogen-free polymer composition surrounding the inner structure. The polymer composition includes a linear very low density polyethylene (VLDPE) composition and one or more polyolefin-elastomers. In addition, the polymer composition includes a flame retardant filler.

No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007266 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SPATIALLY COUPLED POLAR CODES

(51) International classification :H03M13/13H03M13/23H03M13/29
(31) Priority Document No :62/402840
(32) Priority Date :30/09/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IB2017/056033
Filing Date :29/09/2017
(87) International Publication No :WO 2018/060961
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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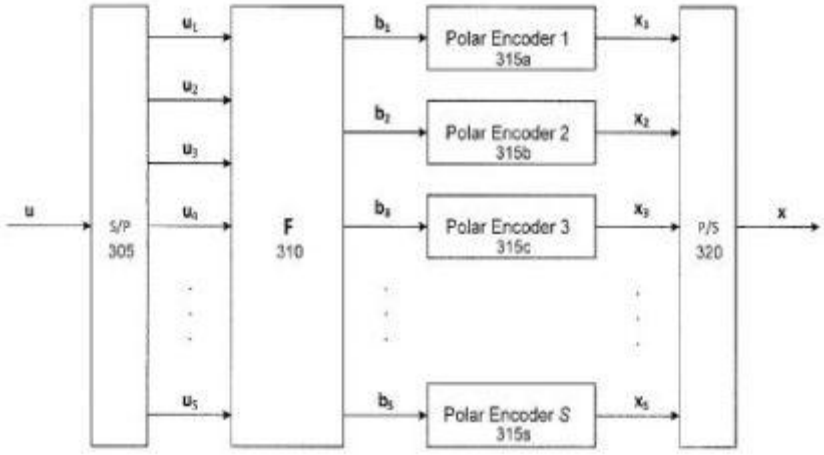
1)HUI, Dennis
2)BLANKENSHIP, Yufei
3)HONG, Songnam
4)MARIC, Ivana

(57) Abstract :
A method in a node (110, 115) comprises generating (604) a plurality of constituent polar codes, each of the plurality of constituent polar codes having an associated block length and an associated set of information bits. The method comprises coupling (608) at least a portion of the sets of information bits associated with each of the plurality of constituent polar codes to generate a spatially coupled polar code. The method comprises encoding (612) a wireless transmission using the spatially coupled polar code.



No. of Pages : 37 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007270 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CARBURIZED SHAFT COMPONENT

(51) International classification :C21D9/28C21D1/06C22C38/00
(31) Priority Document No :2016-183228
(32) Priority Date :20/09/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/033987
Filing Date :20/09/2017
(87) International Publication No :WO 2018/056333
(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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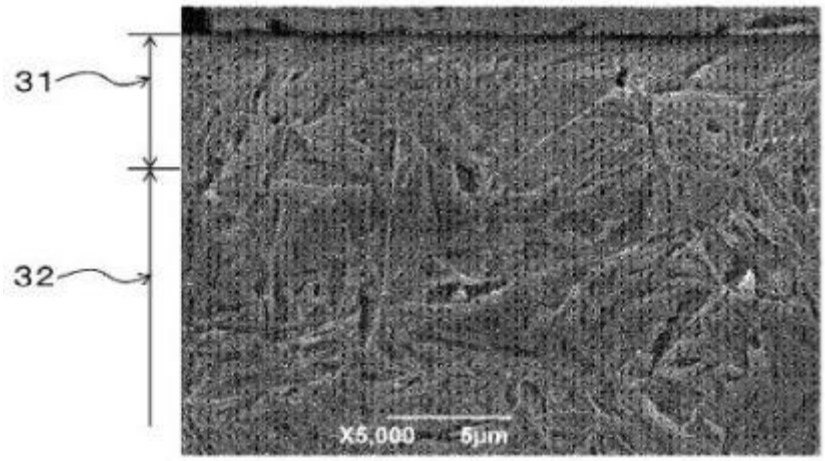
2)WATARI, Koji
3)SUENO, Hidekazu

(57) Abstract :
Provided is a carburized shaft component characterized by having a prescribed composition, having a C content of 0.60-1.00 mass% in the surface layer section thereof, having one or more holes in the outer-circumferential surface thereof, and in that: the total percentage by volume of martensite and retained austenite in the composition from the outer-circumferential surface to a depth of 1mm in the axial direction of the holes and from the surface of the holes to a depth of 20μm is 97%; the maximum percentage (R1) by volume of the retained austenite in the range from the outer-circumferential surface to a depth of 1mm in the axial direction of the holes and from the surface of the holes to a depth of 200μm is 10.0-30.0%; and the reduction rate of the retained austenite is 20% or higher according to formula (A): $\Delta\gamma=(R1-R2)/R1$—100, which uses R1 mentioned above and R2, which is the percentage (R2) by volume of the retained austenite from the outer-circumferential surface to a depth of 1mm in the axial direction of the holes and from the surface of the holes to a depth of 20μm.



No. of Pages : 39 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007271 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : HYDROPHILIC POLYMER COATINGS WITH DURABLE LUBRICITY

(51) International classification :A61F6/04B32B27/26B32B27/28
(31) Priority Document No :62/408625
(32) Priority Date :14/10/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/051783
Filing Date :15/09/2017
(87) International Publication No :WO 2018/071131
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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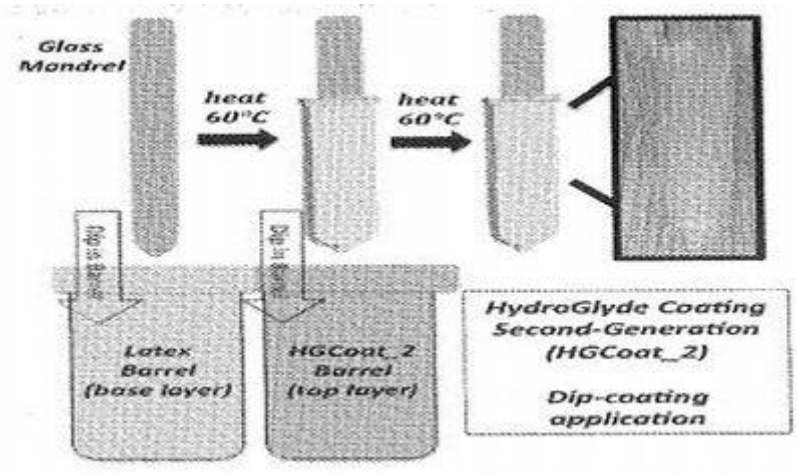
1)CHIN, Stacy, Lee
2)COOPER, Benjamin, Goldman
3)XIAO, Ruiqing
4)GRINSTAFF, Mark, W.

(57) Abstract :
The invention provides a novel hydrophilic polymer and latex polymer blend coating formulation and compositions thereof, and their use on various devices (e.g., prophylactic and medical devices) to form hydrophilic and flexible coatings with durable lubricity.



No. of Pages : 31 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007272 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : THIOHYDANTOIN ANDROGEN RECEPTOR ANTAGONISTS FOR THE TREATMENT OF CANCER

(51) International classification :A61K31/4439A61P35/00
(31) Priority Document No :62/377932
(32) Priority Date :22/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IB2017/055063
Filing Date :22/08/2017
(87) International Publication No :WO 2018/037342
(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)BIGNAN, Gilles C.

(57) Abstract :
Disclosed are compounds, compositions and methods for treating and/ or ameliorating diseases, syndromes, disorders, or conditions associated with AR mutant receptors linked to castration-resistant prostate cancer, in a subject, including a mammal and/or human, in need thereof, who has demonstrated resistance to a first or second generation AR antagonist, comprising, consisting of, and/or consisting essentially of, administering to a subject in need thereof, a therapeutically effective amount of a compound of Formula (I) Formula (I) wherein R1, G, R10, and R11 are defined herein.

No. of Pages : 86 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007274 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ELECTRONIC APPARATUS AND SERVER IN WIRELESS COMMUNICATION SYSTEM, AND WIRELESS COMMUNICATION METHOD

(51) International classification :H04B7/02
(31) Priority Document No :201610629121.1
(32) Priority Date :03/08/2016
(33) Name of priority country :China
(86) International Application No :PCT/CN2017/092348
Filing Date :10/07/2017
(87) International Publication No :WO 2018/024080
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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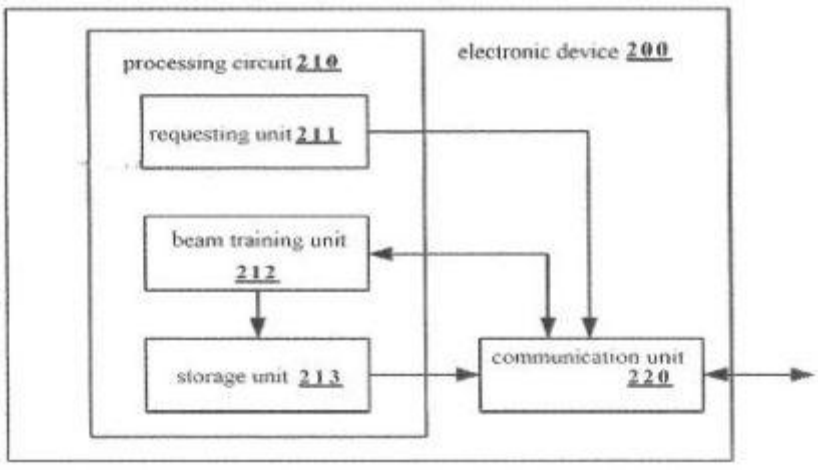
5)NA
(72)**Name of Inventor :**
1)XU, Pingping
2)XU, Yicheng
3)WANG, Weiwei
4)LU, Pen-Shun

(57) Abstract :
The present disclosure relates to an electronic apparatus and server in a wireless communication system, and wireless communication method. An electronic apparatus according to the present disclosure is configured to be a transmitting apparatus in D2D communication, and comprises: a transceiver; and one or more processing circuits configured to perform the following operations: enabling, on the basis of the electronic apparatus and position information of a receiving apparatus corresponding to the electronic apparatus, the transceiver to request a server in a wireless communication system for beamforming information; if the electronic apparatus does not receive beamforming information from the server, triggering a beam training process between the electronic apparatus and the receiving apparatus; and after the beam training process is completed, enabling the transceiver to report a result of the beam training process to the server. Employing the electronic apparatus, server, and wireless communication method according to the present disclosure enables combination of advantages of two beamforming techniques, i.e., adaptive beamforming and predefined codebook beam switching, thus achieving high transmission performance on the basis of a simple algorithm.



No. of Pages : 63 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007043 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ELONGATED ARTICLE WITH GOOD FLEXIBILITY AND HIGH FLAME RETARDANCY

(51) International classification :C08L23/06C08K3/22
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/EP2016/071359
Filing Date :09/09/2016
(87) International Publication No :WO 2018/046098
(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)EGLI, Martin
3)EGGERT, Melanie
4)KRUMP, Henrich
5)KWAPULINSKY, Vladimr

(57) Abstract :
The invention relates to elongated articles and polymer compositions used for preparing the elongated articles. The elongated articles comprise an inner structure/one or more elements including a static/moving current medium or communication medium; and a halogen-free polymer composition surrounding the element(s). The polymer composition includes a linear very low density polyethylene (VLDPE) composition and one or more polyolefin-elastomers. In addition, the polymer composition includes a flame retardant filler.

No. of Pages : 32 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007044 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CONJUNCTION DEVICE SUCH AS A CABLE AND POLYMER COMPOSITION FOR PREPARING SAME

(51) International classification :H01B3/28H01B3/44C08K3/22
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/EP2016/071355
Filing Date :09/09/2016
(87) International Publication No :WO 2018/046096
(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)KRUMP, Henrich
5)KWAPULINSKY, Vladimr

(57) Abstract :
The invention relates to conjunction devices and polymer compositions used for preparing the conjunction devices. The conjunction devices comprise one or more elements including a static/moving current medium or communication medium; and a halogen-free polymer composition surrounding the element(s). The polymer composition includes a linear very low density polyethylene (VLDPE) composition and one or more polyolefin-elastomers. In addition, the polymer composition includes a flame retardant filler.

No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007045 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DEVICE FOR IDENTIFYING A DIAMOND

(51) International classification :G01N21/87G01N21/64
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/RU2016/000576
Filing Date :26/08/2016
(87) International Publication No :WO 2018/038628
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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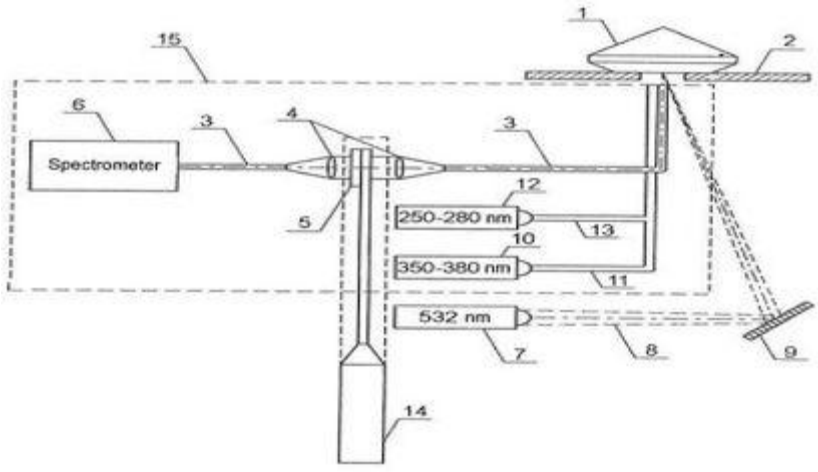
2)BUTENKO, Andrei Vladimirovich
3)DENISOV, Victor Nikolaevich
4)MAKARSKY, Igor Victorovich
5)NIKITIN, Gennady Markovich
6)NIKITIN, Dmitry Nikolaevich
7)TARASOVA, Larisa Gennadievna
8)TERENTIEV, Sergei Alexandrovich
9)TROSCHIEV, Sergei Yurievich
10)UDAROV, Sergei Vyacheslavovich
11)CHAADAEV, Alexander Sergeevich

(57) Abstract :
A device for identifying a diamond relates to the field of examining natural and synthetic diamonds. The claimed device for identifying a cut diamond comprises a measurement location with a measuring aperture, at which a cut diamond to be examined is securably positioned; a movable optical system, including a spectrometer and two sources of radiation with wavelengths of 250-280 nm and 350-380 nm respectively, said two sources of radiation and the spectrometer being connected to the measuring location by optical fibres for inputting radiation into a cut diamond and an optical fibre for outputting radiation from a cut diamond; and also a source of laser radiation with a wavelength of 532 nm and a microcontroller, wherein a cut diamond is positioned at the measuring location in such a way that the table of the diamond faces toward the measuring aperture of the measuring location, and the culet of the diamond is situated directly above the measuring aperture, to which the optical fibres for inputting radiation and the optical fibre for outputting radiation are connected, and the microcontroller is designed to be capable of controlling the alternate working of the sources of radiation in a set time sequence and the movement of the optical system to allow the input of radiation into the cut diamond, as well as the processing of the spectrometer data.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007055 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD OF MANUFACTURING PRESS-FORMED ARTICLE

(51) International classification :B21D22/26B21D22/20
(31) Priority Document No :2016-156816
(32) Priority Date :09/08/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/028106
Filing Date :02/08/2017
(87) International Publication No :WO 2018/030240
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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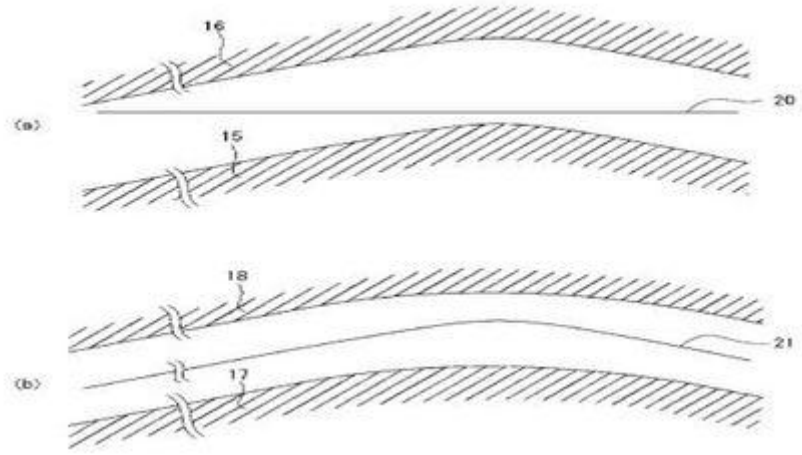
(72)**Name of Inventor :**
1)TOBITA Shunsuke
2)SHINMIYA Toyohisa
3)YAMASAKI Yuji

(57) Abstract :
Provided is a method of manufacturing a press-formed article capable of greatly reducing spring-back which occurs in a press-formed article having a longitudinal shape, such as an article in which adjacent straight-line portions are linked by a curved portion. A metal sheet is press-formed into a product shape which has a hat-shaped or U-shaped cross-sectional shape, and which has a longitudinal shape provided with a plurality of straight-line portions and a curved portion linking adjacent straight-line portions. The method includes: a first step of forming an intermediate component in which, if the curved portion has a convex curve on a top sheet portion side, the radius of curvature of the curved portion is made smaller than the radius of curvature in the product shape, such that the linear length of the curved portion in the longitudinal direction of the top sheet portion is greater than the linear length in the product shape, and if the curved portion has a concave curve on the top sheet portion side, the radius of curvature of the curved portion is made larger than the radius of curvature in the product shape, such that the linear length of the curved portion in the longitudinal direction of the top sheet portion is less than the linear length in the product shape; and a second step of press-forming the intermediate component into the product shape.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007275 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A CRYSTALLINE 19-NOR C3, 3-DISUBSTITUTED C21-N-PYRAZOLYL STEROID

(51) International classification	:C07D231/14A61K31/415A61P25/00
(31) Priority Document No	:62/378582
(32) Priority Date	:23/08/2016
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2017/048267 :23/08/2017
(87) International Publication No	:WO 2018/039378
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)WATSON, Paul, Steven
2)BERNER, Bret
3)REID, John, Gregory
4)WANG, Jian
5)DOHERTY, James
6)KANES, Stephen, Jay

(57) Abstract :
This invention relates to a 19-nor C3,3-disubstituted C21-pyrazolyl steroid of Formula (I) and crystalline solid forms and compositions thereof. Also disclosed herein are methods of making crystalline solid forms of the 19-nor C3,3-disubstituted C21-pyrazolyl steroid of Formula (I) and methods of using the 19-nor C3,3-disubstituted C21-pyrazolyl steroid of Formula (I) or crystalline solid forms, pharmaceutically acceptable salts, and pharmaceutically acceptable compositions thereof.

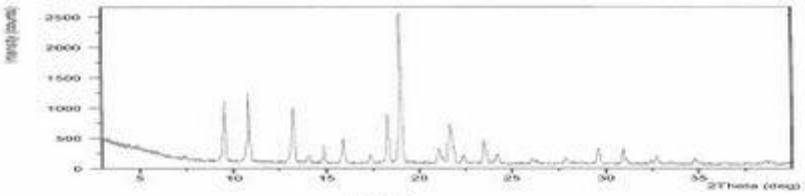

FIG. 1A.

FIG. 1B.

No. of Pages : 58 No. of Claims : 46

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007277 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AUTOMATIC INJECTION DEVICE WITH OPTIMIZED LAYOUT

(51) International classification :A61M5/24A61M5/315A61M5/20
(31) Priority Document No :1658093
(32) Priority Date :31/08/2016
(33) Name of priority country :France
(86) International Application No :PCT/FR2017/052047
Filing Date :25/07/2017
(87) International Publication No :WO 2018/042092
(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)DUGAND, Pascal
2)STAMP, Kevin

(57) Abstract :
This device (16) is intended to receive an injection syringe (18). The injection syringe (18) comprises: a syringe body, a piston mounted slidably in the syringe body, and an injection needle fixed to a distal end of the syringe body. The automatic injection device (16) comprises: - a piston control member (30) which is displaceable in translation with respect to the syringe body, parallel to an axis X, in order to control the displacement of the piston in the syringe body, - a piston rod (26) intended to push a proximal end of the piston of the injection syringe (18), - releasable coupling means (54) for coupling the piston control member (30) and the piston rod (26), - an injection spring (60) which bears on the piston control member (30) and elastically stresses the piston control member (30) towards a distal end of the injection needle. The releasable coupling means (54) are positioned axially between two axial ends of the injection spring (60).

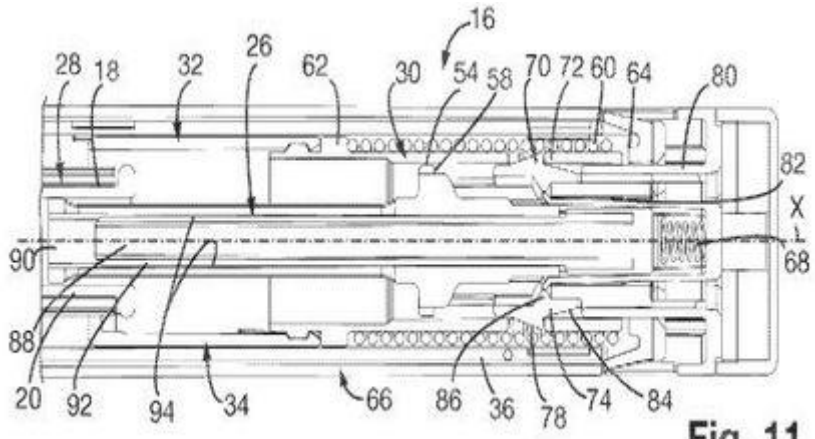

Fig. 11

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007280 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ELECTRICAL CONNECTOR

(51) International classification	:H01R13/625H01R13/639H01R13/64
(31) Priority Document No	:10 2016 117 538.2
(32) Priority Date	:16/09/2016
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/IB2017/001092 :06/09/2017
(87) International Publication No	:WO 2018/051177
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)MARCHESI, Mauro
2)CRIVELLI, Franco
3)IZZO, Stefano

(57) Abstract :
The invention relates to an electrical connector (1) comprising - a plug element (2) with a longitudinal axis (4), said plug element (2) having a plug housing (5) with a circular cross- section and a coupling ring arrangement (6; 6a, 6b) mounted rotatably about the longitudinal axis (4), wherein at least one guide lug (7) which projects radially inward is arranged on the inner circumferential face of the coupling ring arrangement (6; 6a), and - a socket element (3) with a longitudinal axis (10), said socket element (3) having a socket housing (11) with a circular cross- section for accommodating the plug housing (5), wherein, on the outer circumferential face of the socket housing (11), at least one spiral-shaped guide groove (12) is disposed for receiving the at least one guide lug (7) of the coupling ring arrangement (6; 6a), and wherein, at the end of the at, least one guide groove (12), an end position (14) for the at least one guide lug (7) of the coupling ring arrangement (6; 6a) is disposed. The coupling ring arrangement (6) has two coupling rings (6a, 6b), wherein one (6b) is mounted on the other (6b) such that it cannot be rotated, but can be moved in the direction of the longitudinal axis (4) between a release position and a latching position.

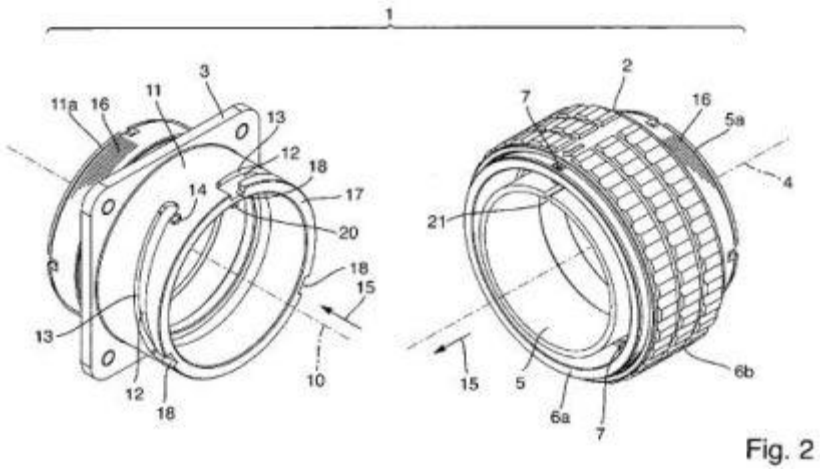

Fig. 2

No. of Pages : 29 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007285 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : WORKING MEDIUM FOR HEAT CYCLES

(51) International classification :C09K5/04F25B1/00
(31) Priority Document No :2016-150264
(32) Priority Date :29/07/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/026796
Filing Date :25/07/2017
(87) International Publication No :WO 2018/021275
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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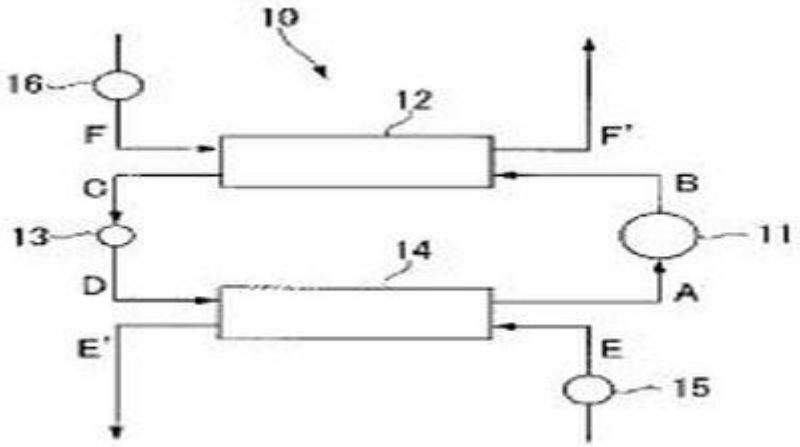
(72)**Name of Inventor :**
1)TASAKA MAI
2)TAKAGI Hirokazu
3)TANAKA TOSHIYUKI
4)TANAKA Toshiyuki

(57) Abstract :
This working medium that is for heat cycles and that uses (Z)-1-chloro-2,3,3,3-tetrafluoropropene (HCFO-1224yd(Z)) which has less impact on the ozone layer, has less impact on global warming, and has superior cycle performance, is provided so as to have sufficiently ensured stability and to have high productivity. The working medium for heat cycles which contains HCFO-1224yd(Z) and impurities, is characterized in that the impurities include specific trace components, and the total content of the trace components is less than 1.5 mass% with respect to the entire amount of the working medium.



No. of Pages : 36 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007056 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : FUSED BICYCLIC INHIBITORS OF MENIN-MLL INTERACTION

(51) International classification :C07D519/04A61P35/00A61P3/10
(31) Priority Document No :62/394291
(32) Priority Date :14/09/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/EP2017/073001
Filing Date :13/09/2017
(87) International Publication No :WO 2018/050684
(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)PANDE, Vineet
3)HERKERT, Barbara
4)KROSKY, Daniel, Jason
5)QUEROLLE, Olivier, Alexis, Georges
6)PATRICK, Aaron Nathaniel

(57) Abstract :
The present invention relates to pharmaceutical agents useful for therapy and/or prophylaxis in a mammal, and in particular to fused bicyclic compounds, pharmaceutical composition comprising such compounds, and their use as menin/MLL protein/protein interaction inhibitors, useful for treating diseases such as cancer, myelodysplastic syndrome (MDS) and diabetes.

No. of Pages : 145 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007058 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : GLASS MANUFACTURING APPARATUS AND METHODS

(51) International classification :C03B5/24
(31) Priority Document No :62/378950
(32) Priority Date :24/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/047232
Filing Date :16/08/2017
(87) International Publication No :WO 2018/039002
(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)LARONZE, Pierre

(57) Abstract :
A method of controlling a flowrate of molten material at a downstream location in a glass manufacturing process can include mixing the molten material at an upstream location positioned upstream from the downstream location relative to a flow direction of the molten material with a shaft including a plurality of protrusions. The method can also include measuring a torque of the shaft, measuring a level of the molten material at the upstream location, and calculating a viscosity of the molten material at the upstream location based on the measured torque and the measured level. In addition, the method can include estimating the flowrate based on the calculated viscosity, and controlling the flowrate at the downstream location based on the estimated flowrate.

No. of Pages : 27 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007059 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : INTERLOCKING BRAKE SUPPORT STRUCTURE FOR SADDLE-TYPE VEHICLE

(51) International classification :B62L3/08B60T11/06B62J11/00
(31) Priority Document No :2016-195275
(32) Priority Date :30/09/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/035321
Filing Date :28/09/2017
(87) International Publication No :WO 2018/062421
(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)MAEDA Kenichi

(57) Abstract :
Provided is an interlocking brake support structure for a saddle-type vehicle. The interlocking brake support structure suppresses costs and can protect and route an interlocking brake cable. According to the present invention, a bank angle sensor 141 is supported on a main frame 22 via a support stay 143. The support stay 143 that supports the bank angle sensor 141 comprises a cable support part 143c that covers an upper flange fitting part 22a of the main frame 22. An interlocking brake cable 112 is supported by the cable support part 143c and is routed from a vehicle body right side to a vehicle body left side.

No. of Pages : 41 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007060 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ISCHEMIA/REPERFUSION INJURY

(51) International classification :A61K31/69A61K45/06
(31) Priority Document No :62/373410
(32) Priority Date :11/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/046237
Filing Date :10/08/2017
(87) International Publication No :WO 2018/031738
(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)CHEUNG, Joseph, Y.
3)KHALILI, Kamel

(57) Abstract :
The present invention features methods and compositions for treatment of ischemia/reperfusion injury using a composition that increases the levels of BAG3 in ischemic tissue. Also featured are methods using the compositions to reduce the risk of ischemia/reperfusion injury.

No. of Pages : 39 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007061 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : APPARATUS AND METHOD FOR PRODUCING THERMAL IMAGE DATA

(51) International classification :G02B26/08G01J5/28G02B26/10
(31) Priority Document No :1615323.1
(32) Priority Date :09/09/2016
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2017/052630
Filing Date :08/09/2017
(87) International Publication No :WO 2018/046939
(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)WILLMOTT, Jonathan Raffe

(57) Abstract :
A thermal imaging device is provided, comprising: a detector for receiving radiation and outputting a detector signal corresponding thereto; a steerable mirror device arranged in relation to the detector; wherein the mirror device is steerable to scan an entrance pupil over a plurality of locations such that the detector outputs respective detector signals indicative of temperatures of respective portions of the object corresponding to the said locations of the entrance pupil, and wherein the thermal imaging device is configured to provide a substantially constant etendue for all of the entrance pupil locations of the said plurality of entrance pupil locations.

No. of Pages : 29 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007062 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD FOR DISCHARGING AN ELECTRIC ENERGY STORAGE UNIT

(51) International classification :H02M7/49H02M1/32
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/EP2016/070832
Filing Date :05/09/2016
(87) International Publication No :WO 2018/041370
(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)SCHMITT, Daniel
3)SCHREMMER, Frank
4)WAHLE, Marcus

(57) Abstract :
The invention relates to a method for discharging an electric energy storage unit (210) which is connected to an electronic circuit (612) by means of a first electric conductor (606) and a second electric conductor (608). A thyristor (616) is provided for discharging the energy storage unit (210). In the method, a discharge current (630) of the energy storage unit (210) begins to flow from the energy storage unit (210) to the electronic circuit (612) via the first electric conductor (606) and back to the energy storage unit (210) via the second electric conductor (608) as a result of a fault occurring in the electronic circuit (612). On the basis of the discharge current (630), a magnetic field (1010) which changes over time is generated about the first electric conductor (606) and the second electric conductor (608), said magnetic field penetrating the semiconductor material (1006) of the thyristor (616). By virtue of the magnetic field (1010) which changes over time, a current (1018) is induced in the semiconductor material (1006) of the thyristor (616), and the thyristor (616) is activated by means of the induced current (1018).

No. of Pages : 27 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007286 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : N-(PYRIDIN-2-YL)PYRIDINE-SULFONAMIDE DERIVATIVES AND THEIR USE IN THE TREATMENT OF DISEASE

(51) International classification :C07D401/12A61K31/444C07D401/14
(31) Priority Document No :62/380659
(32) Priority Date :29/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IB2017/055162
Filing Date :28/08/2017
(87) International Publication No :WO 2018/042316
(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)CHEN, Bei
4)EPPLE, Robert
5)NIKULIN, Victor Ivanovich
6)RODRIGUEZ, Rodrigo A.
7)PATEL, Sejal
8)HONDA, Ayako
9)NGUYEN, Truc Ngoc
10)LAM, Philip
11)WU, Baogen
12)MATHISON, Casey Jacob Nelson
13)MALIK, Hasnain Ahmed
14)ZHU, Xuefeng

(57) Abstract :
The invention relates to heterocyclic compounds of the formula (I) in which all of the variables are as defined in the specification; capable of modulating the activity of CFTR. The invention further provides a method for manufacturing compounds of the invention, and its therapeutic uses. The invention further provides methods to their preparation, to their medical use, in particular to their use in the treatment and management of diseases or disorders including Cystic fibrosis and related disorders.

No. of Pages : 258 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007287 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ELECTRODE ASSEMBLIES

(51) International classification :H01M10/0525
(31) Priority Document No :15/272521
(32) Priority Date :22/09/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/CN2017/101118
Filing Date :08/09/2017
(87) International Publication No :WO 2018/054235
(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)HO, Kam Piu
2)WANG, Ranshi
3)SHEN, Peihua

(57) Abstract :
Provided herein is electrode assembly for a nonaqueous electrolyte secondary battery, comprising at least one anode, at least one cathode and at least one separator interposed between the at least one anode and at least one cathode, wherein the at least one anode comprises an anode current collector and an anode electrode layer, and the at least one cathode comprises a cathode current collector and a cathode electrode layer, wherein each of the cathode and anode electrode layers independently has a void volume of less than 35%, and wherein each of the at least one cathode and anode independently has a peeling strength of 0.15 N/cm or more.

No. of Pages : 47 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007288 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD FOR SAMPLING URINE AND COLLECTOR THEREFORE

(51) International classification :A61B10/00
(31) Priority Document No :62/368260
(32) Priority Date :29/07/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/DK2017/050251
Filing Date :28/07/2017
(87) International Publication No :WO 2018/019351
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)GPMD APS
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(72)**Name of Inventor :**
1)HEDEGAARD, Henning

(57) Abstract :
A urine collector (1) and a method for mounting the urine collector to a toilet bowl. The collector is made of paper sheet and comprises a central collection area (20), a front flap (4), a rear part (23), two side wings (3 A, 3B) each extending from the central collection area (20) and further two rear wings (2 A, 2B) extending from the rear part (23). Each of the wings (2 A, 2B, 3 A, 3B) and the front flap (4) are provided with sticky material (6) for fastening them to the toilet bowl (5). The urine collector (1) is mounted onto a toilet bowl (5) by fastening the front flap (4) to the front part of the bowl opening (5C), and fastening the wings (2A, 2B, 3A, 3B) to the edge of the toilet bowl opening (5). After urine collection in the collection area (20), the front flap is detached from the front of the toilet bowl and lifted, while the side wings and rear wings are still attached. This causes the collected urine to flow over the rear part into a separate sampling container.

No. of Pages : 12 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007291 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PAPER WITH WATER REPELLENT AND PARTIALLY HEAT SEALING PROPERTIES

(51) International classification :D21H23/70B32B27/10B65D3/00
(31) Priority Document No :16181749.9
(32) Priority Date :28/07/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/068953
Filing Date :27/07/2017
(87) International Publication No :WO 2018/019919
(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)LUYTEN, Jan-Pieter
2)J–NSSON, Eric
3)STANSSENS, Dirk

(57) Abstract :
The present invention relates to a process for making a heat sealable substrate starting from a water repellent substrate. In particular, the present invention relates to a process for making water repellent paper cups. In particular, the present invention discloses a process for applying one or more heat sealable strips on a water repellent substrate, for example paper or paper board. Further, the present invention also relates to a heat sealable substrate obtained by said process for making paper cups.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007292 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : MEASURING VISUAL ACUITY OF A CLIENT

(51) International classification :A61B3/032A61B3/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/HU2016/000050
Filing Date :29/07/2016
(87) International Publication No :WO 2018/020281
(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)ERDEI, G¡bor
2)FLEP, Csilla

(57) Abstract :
In clinical visual acuity measurements a method a system and a device for measuring visual acuity of a client is provided. In accordance with the implementation, the system comprises a display device (41), an input device (42) and a computing device (43). The display device (41) is capable of displaying sets of symbols in different size to the client. The input device (42) is capable of receiving responses of the client indicative to the identity of the symbols, and the computing device (43) is capable of a) registering (S431) values to the responses belonging to pre-calculated values of similarity of the symbols, b) calculating (S432) a rate of recognition value for each symbol size, and c) determining (S433) the measured visual acuity from the rate of recognition values.

No. of Pages : 15 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019
(21) Application No.201917007295 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : TAG MANAGEMENT DEVICE, TAG MANAGEMENT METHOD, AND PROGRAM

(51) International classification :G06K7/10H04B1/59
(31) Priority Document No :2016-166645
(32) Priority Date :29/08/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/014254
Filing Date :05/04/2017
(87) International Publication No :WO 2018/042744
(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)UCHIMURA Jun

(57) Abstract :
Provided is a tag management device (1), comprising: a signal detection unit (101) which detects signals which are respectively emitted from an old RFID tag (21) and a new RFID tag (22); a comparison unit (102) which compares the signals which have been respectively emitted from the old RFID tag (21) and the new RFID tag (22); and a comparison result output unit (103) which outputs the result of the comparison.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007300 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AZEOTROPIC OR AZEOTROPE-LIKE COMPOSITIONS OF 1,3-DICHLORO-3,3-DIFLUOROPROP-1-ENE (HCFO-1232zd) AND HYDROGEN FLUORIDE (HF)

(51) International classification :C07C21/18C01B7/19
(31) Priority Document No :15/252544
(32) Priority Date :31/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/046946
Filing Date :15/08/2017
(87) International Publication No :WO 2018/044554
(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)MERKEL, Daniel C.
2)POKROVSKI, Konstantin A
3)TUNG, Hsueh Sung
4)WANG, Haiyou
5)HULSE, Ryan J.
6)PHAM, Hang T.

(57) Abstract :
Azeotropic or azeotrope-like mixtures of 1,3-dichloro-3,3-difluoroprop-1-ene (HCFO-1232zd) and hydrogen fluoride (HF). Such compositions are useful as a feed stock or intermediate in the production of 1,1,1,3,3-pentafluoropropane (HFC-245fa),1-chloro-3,3,3-trifluoropropene (HCFO-1233zd), and 1,3,3,3-tetrafluoropropene (HFO-1234ze).

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007305 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : MULTI-SHAFT LAMINATED SPIRAL SOLID-LIQUID SEPARATOR WITH PENDULUM MOTION

(51) International classification :B30B9/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2017/081348
Filing Date :21/04/2017
(87) International Publication No :WO 2018/191929
(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)WU, Yunping

(57) Abstract :
Disclosed is a multi-shaft laminated spiral solid-liquid separator with a pendulum motion, the separator comprising fixed rings (1), movable rings (2) and screw shafts (3), wherein each of the screw shafts (3) is provided with the fixed rings (1) and the movable rings (2) in a staggered arrangement in a radial direction to form a cavity; there are two or more screw shafts (3) arranged in the cavity side by side, and the fixed rings (1) and the movable rings (2) are in the form of an annular structure with two rings staggered and communicated or multiple rings staggered and communicated. The separator further comprises a primary drive rod (4), a secondary drive rod (5), and a positioning rod (10), wherein the primary drive rod (4) is connected to the screw shafts (3); the primary drive rod (4) is also provided with an eccentric device, and the eccentric device is connected to the secondary drive rod (5); the secondary drive rod (5) is sleeved in the lower ends of the movable rings (2) and connects all of the movable rings (2) together to form one piece; and the positioning rod (10) passes through the upper ends of the movable rings (2) and connects all of the movable rings (2) together to form one piece, and the secondary drive rod (5) drives the lower ends of the movable rings (2) to execute a pendulum motion while the positioning rod (10) drives the movable rings (2) to move up and down by means of one linear guide device, such that the mud is effectively rolled and the drainage surface at the bottom thereof is widened, thus better facilitating the drainage of moisture.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007307 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AZEOTROPIC OR AZEOTROPE-LIKE COMPOSITIONS OF 1,3,3-TRICHLORO-3-FLUORO-1-ENE (HCFO-1231zd) AND HYDROGEN FLUORIDE (HF)

(51) International classification :C07C21/04C01B7/19
(31) Priority Document No :15/252537
(32) Priority Date :31/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/046969
Filing Date :15/08/2017
(87) International Publication No :WO 2018/044560
(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)WANG, Haiyou
5)HULSE, Ryan J.
6)PHAM, Hang T.

(57) Abstract :
Azeotropic or azeotrope-like mixtures of 1,3,3-trichloro-3-fluoroprop-1-ene (HCFO-1231zd) and hydrogen fluoride (HF). Such compositions are useful as a feed stock or intermediate in the production of 1,1,1,3,3-pentafluoropropane (HFC-245fa),1-chloro-3,3,3-trifluoropropene (HCFO-1233zd), and 1,3,3,3-tetrafluoropropene (HFO-1234ze).

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007311 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PIM COMPENSATION AT A TRANSMITTER'S RADIO FREQUENCY PORT

(51) International classification :H04B1/04H04B1/10H04B1/12
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/IB2016/055641
Filing Date :21/09/2016
(87) International Publication No :WO 2018/055435
(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)LI, Renyuan
2)LAI, Xiaoming

(57) Abstract :
A wireless communication device is provided. The wireless communication device comprises a transceiver; an antenna connected to the transceiver through a transmission path; and a compensation circuit configured to or operative to compensate for a passive intermodulation (PIM) interference on the transmission path, the compensation circuit generating a PIM estimate signal based on a transmit signal and a PIM error signal.

No. of Pages : 14 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007063 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : INTERLOCKING BRAKE STRUCTURE FOR SADDLE-TYPE VEHICLE

(51) International classification :B62K19/38B60T11/06B62J15/00
(31) Priority Document No :2016-195270
(32) Priority Date :30/09/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/035320
Filing Date :28/09/2017
(87) International Publication No :WO 2018/062420
(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)IGUCHI Takamasa

(57) Abstract :
Provided is an interlocking brake structure for a saddle-type vehicle. The interlocking brake structure ensures the flexural freedom of a curved part of an interlocking brake cable and suppresses excessive displacement of the curved part. According to the present invention, a curved part 112a comprises: a forward-extending part 112e that extends forward from a curved part apex part 112c that is at a rear end of the curved part; and a rearward-extending part 112d that extends rearward from an equalizer 111. A front fender 78 is provided between the curved part 112a and a sub-frame 26. The front fender 78 is provided with: a lower rising part 78m that guides the rearward-extending part 112d; and an upper holding part 78q that guides the forward-extending part 112e.

No. of Pages : 42 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007064 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD OF PRODUCING POLY-GAMMA-GLUTAMIC ACID

(51) International classification :C12P13/00C12N1/20A23L33/10
(31) Priority Document No :2016-165099
(32) Priority Date :25/08/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/027488
Filing Date :28/07/2017
(87) International Publication No :WO 2018/037833
(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)SAWADA, Kazuhisa
2)TAMUKAI, Atsuko

(57) Abstract :
Provided is a method of producing poly-gamma-glutamic acid by culturing Bacillus subtilis identified by deposit number NITE BP-02276, deposit number NITE BP-02277, deposit number NITE BP-02278, deposit number NITE BP-02279, deposit number NITE BP-02280, or deposit number NITE BP-02281.

No. of Pages : 56 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007073 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : COMPOUNDS AND COMPOSITIONS AS INHIBITORS OF ENDOSOMAL TOLL-LIKE RECEPTORS

(51) International classification	:C07D471/04A61K31/437A61P37/00
(31) Priority Document No	:62/385726
(32) Priority Date	:09/09/2016
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2017/055375 :06/09/2017
(87) International Publication No	:WO 2018/047081
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)JIANG, Songchun
4)JIANG, Tao
5)KNOEPFEL, Thomas
6)MICHELLYS, Pierre-Yves
7)MUTNICK, Daniel
8)PEI, Wei
9)SYKA, Peter
10)ZHANG, Guobao
11)ZHANG, Yi

(57) Abstract :
The invention disclosed herein relates to 4,5,6,7-tetrahydro-1H-pyrazolo[4,3-c]pyridinyl compounds and 4,5,6,7-tetrahydro-2H-pyrazolo[4,3-c]pyridinyl compounds of Formula (A), pharmaceutical compositions comprising such compounds and the use of such compounds in the treatment of autoimmune diseases.

No. of Pages : 158 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007074 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD FOR GENERATING AN ALTERNATING CURRENT BY MEANS OF AN INVERTER OF A WIND TURBINE

(51) International classification :H02M7/5387H02M1/12
(31) Priority Document No :10 2016 117 964.7
(32) Priority Date :23/09/2016
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2017/074035
Filing Date :22/09/2017
(87) International Publication No :WO 2018/055089
(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)MACKENSEN, Ingo
2)GERTJEGERDES, Stefan

(57) Abstract :
The invention relates to a method for generating a multi-phase alternating electric current having a sinusoidal fundamental wave in each phase by means of a multi-phase inverter of a wind turbine. The multi-phase inverter is activated using a tolerance band method which has an upper band limit and a lower band limit for each of the phases of the inverter. For each phase, the inverter has at least one top switch for generating a positive half sine wave of the alternating current of the phase and at least one bottom switch for generating a negative half sine wave of the alternating current of the phase. The method comprises the following steps: generating the positive half sine wave by means of the top switch and generating the negative half sine wave by means of the bottom switch depending on the band limits for the alternating electric current of the phase; changing at least one of the band limits such that a signal component superimposed on the respective sinusoidal fundamental wave is reduced.

No. of Pages : 13 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007075 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : MICROBIOCIDAL OXADIAZOLE DERIVATIVES

(51) International classification	:A01N43/82C07D413/10C07D271/06
(31) Priority Document No	:16192518.5
(32) Priority Date	:06/10/2016
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2017/075080 :03/10/2017
(87) International Publication No	:WO 2018/065414
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)STIERLI, Daniel
3)BEAUDEGNIES, Renaud
4)POULIOT, Martin
5)PITTERNA, Thomas

(57) Abstract :
Compounds of Formula (I): wherein the substituents are as defined in claim 1, useful as pesticides, especially as fungicides.

No. of Pages : 68 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007076 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AUTO-INJECTOR

(51) International classification :A61M5/20A61M5/31
(31) Priority Document No :2940544
(32) Priority Date :29/08/2016
(33) Name of priority country :Canada
(86) International Application No :PCT/CA2017/000197
Filing Date :25/08/2017
(87) International Publication No :WO 2018/039769
(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)HAMEL, Simon
2)CLOUTIER, Sylvain
3)TREMBLAY, Yan
4)VIENS, Mathieu

(57) Abstract :
A auto-injector device having a housing (212, 214), a cartridge for containing a medicament, a first needle tip (230) arranged to penetrate said cartridge, a second needle tip (230) for injecting said medicament into a target, said first and second needle tips being in fluid communication, a plunger rod (242) to move said cartridge so as to be pierced by said first needle tip, said plunger rod (242) having a recess (270) in an end thereof, the improvement comprising a battery (258), a printed circuit board (250) electrically communicating with said battery, an electrically conductive element (274) having a first end in electric communication with said battery (258) and printed circuit board (250), a second end within said recess (270) in said plunger rod (242), said second end being electrically insulated, a coil spring (246) surrounding said electrically conductive element and being spaced therefrom, the arrangement being such that when said plunger rod (242) is activated, said second end of said electrically conductive element is released from said recess (270) in said plunger rod (242) and contacts said coil spring (246) to complete an electric circuit.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007077 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PAPER SHEET HANDLING DEVICE, AUTOMATIC TRANSACTION DEVICE, AND PAPER SHEET HANDLING METHOD

(51) International classification :G07D9/00
(31) Priority Document No :2016-177230
(32) Priority Date :12/09/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/017729
Filing Date :10/05/2017
(87) International Publication No :WO 2018/047408
(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)KITAUCHI, Daisuke
2)MIYASAKA, Tooru
3)FUJITA, Junji

(57) Abstract :
To make it possible to provide a banknote handling device with which it is possible to constantly demonstrate sufficient device processing performance, and to prevent collision between a transportation direction switching means and a banknote even when the operation speed of the transportation direction switching means changes. In order to solve this problem, this invention is a paper sheet handling device for handling a plurality of paper sheets and switching the transportation direction, wherein the paper sheet handling device has: a transportation path for transporting at least one paper sheet and a transportation direction switching means for switching the direction of transportation of the paper sheet; and a paper sheet handling control means for controlling, in accordance with the constantly-changing operation speed of the transportation direction switching means, at least one of the operation timing of the transportation direction switching means, the speed of transportation of a paper sheet, and the distance between a paper sheet and a preceding paper sheet.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007078 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : WIND TURBINE ROTOR BLADE

(51) International classification :F03D1/06
(31) Priority Document No :10 2016 117 012.7
(32) Priority Date :09/09/2016
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2017/072301
Filing Date :06/09/2017
(87) International Publication No :WO 2018/046519
(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)KAMRUZZAMAN, Mohammad
2)NAPIERALA, Christian Frank
3)SWEERS, Heiner

(57) Abstract :
The invention relates to a wind turbine rotor blade (200) having a suction side (201), a pressure side (202), a blunt trailing edge (200c), and a trailing-edge expansion unit (500), which is arranged on the blunt trailing edge (200c) and has at least two stages, wherein the trailing-edge expansion unit (500) has a first and a second section (530, 540), wherein a transition from the blunt trailing edge (200c) to the first section (530) is substantially non-perpendicular and a transition between the first and the second sections (530, 540) is also non-perpendicular.

No. of Pages : 6 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007079 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PLANT GROWTH REGULATOR COMPOUNDS

(51) International classification :C07D407/12C07D409/12C07D307/33
(31) Priority Document No :1615544.2
(32) Priority Date :13/09/2016
(33) Name of priority country :U.K.
(86) International Application No :PCT/EP2017/072155
Filing Date :05/09/2017
(87) International Publication No :WO 2018/050477
(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)LUMBROSO, Alexandre, Franco, Jean, Camille
2)DE MESMAEKER, Alain
3)SCREPANTI, Claudio
4)RENDINE, Stefano

(57) Abstract :
The present invention relates to relates to novel strigolactone derivatives of formula (I), to processes for preparing these derivatives including intermediate compounds, to seeds comprising these derivatives, to plant growth regulator or seed germination promoting compositions comprising these derivatives and to methods of using these derivatives in controlling the growth of plants and/or promoting the germination of seeds.

No. of Pages : 57 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007081 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ASSEMBLY FOR FEEDING AN ADDITIONAL MASS FLOW INTO A MAIN MASS FLOW

(51) International classification :F01D1/02F01D9/04F01D17/10
(31) Priority Document No :16189690.7
(32) Priority Date :20/09/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/073408
Filing Date :18/09/2017
(87) International Publication No :WO 2018/054811
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)SIEMENS AKTIENGESELLSCHAFT
Address of Applicant :Werner-von-Siemens-Strae 1 80333 M¼nchen Germany
(72)**Name of Inventor :**
1)DE ROO, Stephan
2)GOBRECHT, Edwin
3)HECKER, Simon

(57) Abstract :
The invention relates to an assembly (1) for feeding an additional mass flow into a main mass flow, wherein the main mass flow flows along an axis of rotation, the feed and the axis of rotation being inclined in relation to one another.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007082 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DEVICE FOR THE ENERGY-OPTIMISED PRODUCTION OF FLUID EDDIES IN A REACTION CHAMBER

(51) International classification :B01J19/00B01J19/24
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/EP2016/069983
Filing Date :24/08/2016
(87) International Publication No :WO 2018/036623
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)EMCO WATER PATENT GMBH
Address of Applicant :Breslauerstr. 34 - 38 49808 Lingen (Ems) Germany
(72)**Name of Inventor :**
1)LEHMANN, Jrg
2)LINDEN, Olaf

(57) Abstract :
The invention relates to a device consisting of a reactor facility for the flow dynamics treatment of fluid or gaseous media or mixtures of the two. In the context of this invention, flow dynamics treatment means the energy-optimised production of at least one rotating fluid eddy together with an eversion of the at least one fluid eddy and the bursting open of organic constituents dissolved in the fluid medium with inner cell pressure (Turgor). The guided fluid eddy is treated, cleaned and disinfected in the reactor facility according to the invention. The invention further relates to a method for the flow dynamics treatment of fluid media in the reactor facility according to the invention.

No. of Pages : 44 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007312 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CONTINUOUS MIXER AND METHOD OF MIXING REINFORCING FIBERS WITH CEMENTITIOUS MATERIALS

(51) International classification :B28C9/00B01F7/00B01F7/04
(31) Priority Document No :62/371578
(32) Priority Date :05/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/045420
Filing Date :04/08/2017
(87) International Publication No :WO 2018/027090
(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)DUBEY, Ashish
2)GROZA, Peter B.
3)NELSON, Christopher R.

(57) Abstract :
A method in which a stream (5) of dry cementitious powder passes through a first conduit and aqueous medium stream (7) passes through a second conduit to feed a slurry mixer (2) to make cementitious slurry (31). The cementitious slurry (31) passes through a third conduit and a reinforcement fiber stream (34) passes through a fourth conduit to feed a fiber-slurry mixer (32) which mixes the slurry (31) and discrete fibers to make a stream of fiber-slurry mixture (36). An apparatus for performing the method is also disclosed.

No. of Pages : 35 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007316 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PLANT'S CHARACTER REGULATION METHOD

(51) International classification :A01H5/00A01G1/06C12N15/09
(31) Priority Document No :2016-164729
(32) Priority Date :25/08/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/029502
Filing Date :17/08/2017
(87) International Publication No :WO 2018/037986
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)NATIONAL UNIVERSITY CORPORATION NAGOYA UNIVERSITY
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(72)**Name of Inventor :**
1)NOTAGUCHI, Michitaka
2)NIWA, Masaki
3)OTAGAKI, Shungo

(57) Abstract :
To provide more efficient conditions for a method, said method comprising using, as a medium,a plant, which belongs to a specific family such as Solanaceae and is graft-compatible with different families, and allowing a character regulator to function in a plant belonging to a different family. A plant virus for producing a character regulator is selected as a substance to be delivered and then the selected plant virus is delivered, through a plant which belongs to a specific family such as Solanaceae and is graft-compatible with different families, to a plant belonging to a different family.

No. of Pages : 46 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007319 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : OSTEOTOME

(51) International classification :A61B17/3213A61B17/32
(31) Priority Document No :62/381381
(32) Priority Date :30/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/049492
Filing Date :30/08/2017
(87) International Publication No :WO 2018/045105
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)SHUKLA MEDICAL
Address of Applicant :8300 Sheen Drive St. Petersburg, FL 33709 United States U.S.A.
(72)**Name of Inventor :**
1)SWEITZER, Zachary

(57) Abstract :
An osteotome is provided that is designed for implanting and extracting medical device implants. The osteotome includes a handle, a blade attachment assembly about a first end of the handle for receiving a blade, and a wing assembly about a second end of the handle opposite the first end. The wing assembly further includes a wing extending outwardly from the handle.

No. of Pages : 17 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007327 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : AUTOMATING NATURAL LANGUAGE TASK/DIALOG AUTHORING BY LEVERAGING EXISTING CONTENT

(51) International classification :G06F17/27G06Q10/00G06F17/30
(31) Priority Document No :15/253592
(32) Priority Date :31/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/049675
Filing Date :31/08/2017
(87) International Publication No :WO 2018/045202
(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)SARIKAYA, Ruhi
2)RADOSTEV, Vasiliy

(57) Abstract :
Systems and methods for augmenting existing CU system to be used with content, such as a website. The content may be parsed to determine on or more actions that may be performed by a user who uses the content. These actions may then be compared to tasks of CU systems to identify potential matches. When a match is found, the CU system may be updated to include information.

No. of Pages : 33 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019
(21) Application No.201917007328 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CLUSTERING APPROACH FOR DETECTING DDOS BOTNETS ON THE CLOUD FROM IPFIX DATA

(51) International classification :H04L29/06
(31) Priority Document No :15/253586
(32) Priority Date :31/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/048297
Filing Date :24/08/2017
(87) International Publication No :WO 2018/044659
(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)KARIN, Omer
2)RONEN, Royi
3)NEUVIRTH, Hani
4)VILNAI, Roey

(57) Abstract :
Use machine learning to train a classifier to classify entities to increase confidence with respect to an entity being part of a distributed denial of service attack. The method includes training a classifier to use a first classification method, to identify probabilities that entities from a set of entities are performing denial of service attacks. The method further includes identifying a subset of entities meeting a threshold probability of performing a denial of service attack. The method further includes using a second classification method, identifying similarity of entities in the subset of entities. The method further includes based on the similarity, classifying individual entities.

No. of Pages : 11 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007329 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PROVIDING INSIGHTS BASED ON HEALTH-RELATED INFORMATION

(51) International classification :G06F19/00
(31) Priority Document No :62/382195
(32) Priority Date :31/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/048097
Filing Date :23/08/2017
(87) International Publication No :WO 2018/044632
(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)WHITE, Ryen William
3)NATHAN, Girish Sthanu
4)NI, Tachen C.
5)LUNDIN, Jessica
6)HECKERMAN, David Earl
7)HOFMEESTER, Gerrit Hendrik
8)DIETZ, Carey
9)CARTWRIGHT, Heather Jordan
10)YEKUTIEL, Shahar
11)SCHWARTZMAN, Arie
12)SHACHAM, Gil
13)BILODEAU, Brian
14)HOLMDAHL, Todd
15)DESGARENNES, Gabriel A.

(57) Abstract :
Examples are disclosed herein that relate to integrating health data and calendar data of one or more users and providing insights for a selected user to help the user accomplish an outcome of interest. The insights may be identified based on a group of cohorts determined to be similar to the selected user and/or used to predict a likelihood that the selected user will achieve an outcome of interest. Additional insights may be provided by monitoring an effect that following a recommendation has on the selected user achieving the outcome of interest. Recommendations and/or updates to recommendations may be provided based on the insights.

No. of Pages : 30 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007083 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DAIRY PRODUCT AND PROCESS

(51) International classification	:A61K31/702A23C9/142A23C9/12
(31) Priority Document No	:722642
(32) Priority Date	:28/07/2016
(33) Name of priority country	:New Zealand
(86) International Application No Filing Date	:PCT/IB2017/054610 :28/07/2017
(87) International Publication No	:WO 2018/020473
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)WELMAN, Alan David
2)STEVENS, Geoffrey
3)MCJARROW, Christopher Paul
4)FONG, Bertram Yin
5)WANG, Bing

(57) Abstract :
A method of producing sialyloligosaccharides a sialyloligosaccharides-containing source that also contains carbohydrates and minerals. The process includes subjecting the source to a temperature of from about 67°C and (i) filtration with a heat-resistant filter at a temperature of about 35 to about 95°C to produce a first retentate and first permeate, or (ii) centrifugal separation to produce a light phase and a heavy phase and filtration of the light phase at a temperature of about 50 to about 70°C to produce a first retentate and first permeate, (b) nanofiltration of the first permeate, or nanofiltration and diafiltration of the first permeate, to produce a second retentate and second permeate, and (c) concentration of the second retentate, to produce a sialyloligosaccharide-containing extract. Additionally, the invention relates to a sialyloligosaccharide-enriched composition comprising at least 3-sialyllactose and 6-sialyllactoseand its use in, for example, nutritional and infant formulas, and for maintaining or improving cognitive function.

No. of Pages : 53 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007084 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : 7-SUBSTITUTED 1-ARYL-NAPHTHYRIDINE-3-CARBOXYLIC ACID AMIDES AND USE THEREOF

(51) International classification	:C07D471/04C07D491/107A61K31/4375
(31) Priority Document No	:16188728.6
(32) Priority Date	:14/09/2016
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2017/072339 :06/09/2017
(87) International Publication No	:WO 2018/050510
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)VAKALOPOULOS, Alexandros
3)BOULTADAKIS ARAPINIS, Melissa
4)STRAUB, Alexander
5)TINEL, Hanna
6)BRECHMANN, Markus
7)WITTWER, Matthias, Beat
8)KULLMANN, Maximilian, Andreas
9)FREUDENBERGER, Till
10)MONDRITZKI, Thomas
11)MARQUARDT, Tobias

(57) Abstract :
The invention relates to novel 7-substituted 1-aryl-naphthyridine-3-carboxylic acid amides, to methods for producing the same, to the use thereof either alone or in combination in the treatment and/or prevention of diseases and to their use for producing medicaments for the treatment and/or prevention of diseases, especially for the treatment and/or prevention of cardiovascular diseases and kidney diseases.

No. of Pages : 322 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007098 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : POWER INTERFACE, MOBILE TERMINAL AND POWER ADAPTER

(51) International classification :H01R13/02H01R13/40
(31) Priority Document No :201620806348.4
(32) Priority Date :27/07/2016
(33) Name of priority country :China
(86) International Application No :PCT/CN2017/081265
Filing Date :20/04/2017
(87) International Publication No :WO 2018/018952
(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. 18, Haibin Road, Wusha, Chang'an Dongguan, Guangdong 523860 China
(72)**Name of Inventor :**
1)LI, Feifei

(57) Abstract :
A power interface (100), a mobile terminal and a power adapter. The power interface (100) comprises a body portion (110) adapted to connect to a circuit board (160); a plurality of spaced data pins (120), the data pins (120) being connected to the body portion (110); and a plurality of spaced power pins (130), the power pins (130) being connected to the body portion (110) and the power pins (130) being spaced apart from the data pins (120), the power pin (130) comprising a first contact surface (131) adapted to electrically connect to a conductive member and a second contact surface (132), which is adapted to be wrapped by an insulating encapsulation portion (140), the second contact surface (132) having at least one protruding portion (133) so as to increase the current load amount of the power pins (130).

No. of Pages : 19 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007099 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : POWER INTERFACE, MOBILE TERMINAL AND POWER ADAPTER

(51) International classification :H01R13/02
(31) Priority Document No :201620803021.1
(32) Priority Date :27/07/2016
(33) Name of priority country :China
(86) International Application No :PCT/CN2017/080957
Filing Date :18/04/2017
(87) International Publication No :WO 2018/018946
(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, Feifei

(57) Abstract :
A power interface (100), a mobile terminal and a power adapter. The power interface (100) comprises a body portion (110), a data pin (120), a power pin (130) and an insulating spacer layer (139). The body portion (110) is adapted to connect a circuit board, a plurality of data pins (120) are spaced and connected to the body portion (110). A plurality of power pins (130) may be spaced and connected to the body portion (110). The power pins (130) and the data pins (120) are arranged at intervals, at least one of the plurality of power pins (130) comprises a widened section (132), the cross sectional area of the widened section (132) being greater than the cross sectional area of the data pins (120) so as to increase the current load amount of the power pins (130).

No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007330 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CUSTOMIZABLE CONTENT SHARING WITH INTELLIGENT TEXT SEGMENTATION

(51) International classification	:G06F3/0488G06F3/0484G06Q10/10
(31) Priority Document No	:201610784001.9
(32) Priority Date	:31/08/2016
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/US2017/048095 :23/08/2017
(87) International Publication No	:WO 2018/044630
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)SUN, Lei
2)LU, Yumao
3)LI, Ling
4)LIAO, Chen

(57) Abstract :
Aspects of the present disclosure relate to systems and methods for sharing content. More specifically, a user may select a subset of content from displayed content. The selection may be made using a visual indicator. Once the subset of content is selected, the subset of content is analyzed to determine how much content of the subset of content the user wants to share. Once the determination is complete, a content card containing the subset of content is generated and provided to the user. The user may then add additional content to the content card and electronically share the content card by posting the content card on a social media site.

No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007331 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CROSS-TENANT DATA LEAKAGE ISOLATION

(51) International classification :G06F21/62H04L29/06G06F17/30
(31) Priority Document No :15/249554
(32) Priority Date :29/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/047874
Filing Date :22/08/2017
(87) International Publication No :WO 2018/044611
(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)MOYSI, Liran
2)LIRAN, Noam

(57) Abstract :
A method and proxy device for cross-tenant data leakage isolation in a multi-tenant database are provided. The method includes monitoring, by a proxy device, traffic flows between a server executing at least one cloud-based application and the multi-tenant database, wherein the proxy device is communicatively connected between the server and the multi-tenant database; capturing, by the proxy device, at least a request to access the multi-tenant database, wherein the request is communicated using a database-specific protocol; analyzing the request to determine if the request is legitimate; upon determining that the request is not legitimate, modifying the request to point to a global-tenant table and to designate a unique tenant identifier, wherein the unique tenant identifier corresponds to a tenant-specific table name designated in the global-tenant table; and sending the modified request to the multi-tenant database using the database-specific protocol.

No. of Pages : 19 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007332 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : HYDRAULIC TANK AND METHOD FOR PRODUCING A HYDRAULIC TANK

(51) International classification :E02F9/08F15B1/26
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/EP2016/072611
Filing Date :22/09/2016
(87) International Publication No :WO 2018/054474
(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)WEISER, Thomas
2)TRUNNER, Daniel
3)SCHLEUTER, Tanja
4)STECH, Jrg

(57) Abstract :
The invention relates to a hydraulic tank (10) for storing a hydraulic fluid, comprising a single-part tank housing (12) which forms a hollow plastic body and is produced in a rotational molding method. The tank housing (12) has at least one connection opening (92, 94, 126) on which a connection element (100, 110, 132) is arranged that can be releasably connected to a hydraulic line. The aim of the invention is to allow the hydraulic tank to be producible in a less expensive manner. This is achieved in that the connection element (100, 110, 132) has a plastic body which is produced in an injection molding method and is welded to the tank housing (12). The invention further relates to a method for producing a hydraulic tank (10).

No. of Pages : 22 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007337 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : 3-PYRIDYLOXYPHENYLDIHYDROURACIL COMPOUND AND USE THEREOF

(51) International classification :C07D401/12A01N43/54A01P3/00
(31) Priority Document No :2016-165426
(32) Priority Date :26/08/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/030250
Filing Date :24/08/2017
(87) International Publication No :WO 2018/038192
(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)SATO, Yuki

(57) Abstract :
The present invention provides a compound represented by formula (1). This compound has an exceptional control effect on plant diseases and is useful as an active ingredient of a plant disease control agent.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007343 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : BLOOD BRAIN BARRIER MODEL

(51) International classification	:C12N5/0793C12N5/079C12N5/071
(31) Priority Document No	:1613187.2
(32) Priority Date	:29/07/2016
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2017/052230 :31/07/2017
(87) International Publication No	:WO 2018/020274
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)ALDER, Jane
2)SHAW, Lisa
3)LAWRENCE, Clare
4)KUMAR, Swati

(57) Abstract :
Provided is a structure composed of a cell population comprising endothelial cells, astrocytes and pericytes, and a 3D (three dimensional) cell growth material within which the cell population is located. The structure has a TEER value of at least 450 Ω/cm2. The cells of the structure may be derived from the brain. The cells may be human cells, and in particular may be primary derived non-immortalised cells. The structure is particularly suited for use in a model of the blood brain barrier, and the invention also provides such a model. The structure is located in a container, in which it separates a first chamber located on a first side of the structure and a second chamber located on a second side of the structure. The first and second chambers respectively contain first and second liquids in contact with first and second sides of the structure. The liquids mimic the brain extracellular fluid and the blood. The blood brain barrier model provided may be used in models of brain disease, and to investigate uptake of agents into the brain or diseased brain.

No. of Pages : 32 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007100 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : POWER INTERFACE, MOBILE TERMINAL, AND POWER ADAPTER

(51) International classification	:H01R12/55H01R12/52H01R12/58
(31) Priority Document No	:201610605837.8
(32) Priority Date	:27/07/2016
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2017/081020 :19/04/2017
(87) International Publication No	:WO 2018/018947
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)GU, Guodong
2)LI, Feifei

(57) Abstract :
A power interface (100), a mobile terminal, and a power adapter. The power interface (100) comprises a main body (110), data pins (120), and power pins (130). The main body (110) is adapted to be connected to a circuit board. The data pins (120) are plural in number, and are spaced apart from each other and connected to the main body (110). The power pins (130) may be plural in number, and are spaced apart from each other and connected to the main body (110). The power pins (120) and the data pins (130) are arranged at intervals. At least one of the plurality of power pins (120) comprises a widened section (132). The cross sectional area of the widened section (132) is greater than that of the data pins (120) to increase the current load capacity of the power pins (130).

No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007107 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : COFFEE CONTAINERS AND ASSOCIATED SYSTEM AND METHOD FOR PREPARING ROAST AND GROUND COFFEE

(51) International classification :A47J42/52
(31) Priority Document No :16194012.7
(32) Priority Date :14/10/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/075498
Filing Date :06/10/2017
(87) International Publication No :WO 2018/069182
(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)DUBIEF, Flavien
2)PERENTES, Alexandre
3)YOAKIM, Alfred
4)BOURNIVAL, Christianne

(57) Abstract :
The invention relates to a coffee bean container (10, 10) comprising green and/or partially roasted coffee beans, the container comprising: an inner volume (14) where beans are stored; roasting means allowing beans roasting in a certain required degree depending on the original roasting level of the stored beans; at least part or complete grinding means allowing grinding of the beans, once roasted, to a certain grinding size. The roasting means preferably comprise a roasting hollow tube (11) through which hot air at pressure circulates such that coffee beans circulate within the internal container volume and inside the tube (11), creating a fountain effect.

No. of Pages : 15 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007108 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : HEADBOX AND FORMING STATION FOR FIBER-REINFORCED CEMENTITIOUS PANEL PRODUCTION

(51) International classification :B28B1/52B05C3/18B05C11/02
(31) Priority Document No :62/371569
(32) Priority Date :05/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/045410
Filing Date :04/08/2017
(87) International Publication No :WO 2018/027088
(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)DUBEY, Ashish
2)GROZA, Peter, B.
3)NELSON, Christopher, R.

(57) Abstract :
A slurry feed apparatus for depositing a slurry (36) upon a moving forming web (26) having a direction of travel, including: a headbox (40) mounted transverse to the direction of travel of the moving web (26), having a back wall (354), sidewalls (360, 362), a concave transverse front wall (364), an open top, and an open bottom for directing slurry (36) onto the forming web (26); a moveable dam (353) releasably attached to the back wall (354), a seal (366) attached to a bottom wall of the dam (353); and a headbox support system extending from opposed the sidewalls (360,362). Also disclosed is a continuous process for depositing a uniform layer of a cementitious slurry (36) containing reinforcing fibers from the headbox (40) onto a traveling web (26).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007112 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PROCESS FOR INCREASING THE SERVICE LIFE OF A SOLAR RECEIVER

(51) International classification :F24J2/46
(31) Priority Document No :62/371271
(32) Priority Date :05/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/045230
Filing Date :03/08/2017
(87) International Publication No :WO 2018/026994
(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)LANG, Christoph
2)KIM, Eungkyu
3)DAVIDSON, Chet
4)HOLDEN, Bruce S.
5)HOOK, Bruce D.

(57) Abstract :
A process for increasing the service life of a solar receiver by reducing the concentration of dissolved hydrogen present in a hydrogen atom containing liquid (HACL) stream including (a) contacting a HACL stream containing a first concentration of dissolved hydrogen with an inert gas stream under predetermined process conditions such that at least a portion of hydrogen in the HACL stream is transferred to the inert gas stream and a second reduced concentration of dissolved hydrogen remains in the HACL stream; and (b) passing the HACL stream having the second reduced concentration of dissolved hydrogen through the solar receiver.

No. of Pages : 48 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007113 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : FINGERPRINT BUTTON, LIGHT-EMITTING PROMPT STRUCTURE, AND TERMINAL DEVICE

(51) International classification :G06K9/00F21V33/00F21Y115/10
(31) Priority Document No :201620877540.2
(32) Priority Date :12/08/2016
(33) Name of priority country :China
(86) International Application No :PCT/CN2017/091876
Filing Date :05/07/2017
(87) International Publication No :WO 2018/028356
(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)ZHU, Shiqiang
2)LIN, Chendong

(57) Abstract :
Provided is a light-emitting prompt structure (200), comprising an accommodating hole (20) arranged on a housing panel (1) of a terminal device (100), and a fingerprint button (2) accommodated in the accommodating hole (20). The fingerprint button (2) comprises a fingerprint recognition apparatus (31) and a light-emitting part (32); said fingerprint recognition apparatus (31) comprises a fingerprint cover panel (313), a fingerprint chip (311), and a circuit board (312). The fingerprint cover panel (313) is provided with a light-blocking region (314) and light-transmissive region (315). The fingerprint chip (311) is located beneath the fingerprint cover panel (313) at a position corresponding to the light-blocking region (314); the circuit board (312) is located beneath the fingerprint chip (311) at a position corresponding to the light-blocking region (314). The light-emitting part (32) is located beneath the circuit board (312) and extends to outside the circuit board (312); the region of the light-emitting part (32) extending to outside the circuit board (312) is located beneath the light-transmissive region (315) and covers the light-transmissive region (315) from the inner side of the housing panel (1). Also provided are a fingerprint button (2) and a terminal device (100). The invention integrates fingerprint-recognition and prompt functions into a fingerprint button region, conserving design space.

No. of Pages : 13 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007346 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CORONA IGNITION DEVICE AND ASSEMBLY METHOD

(51) International classification :H01T13/36H01T13/38H01T13/50
(31) Priority Document No :15/240502
(32) Priority Date :18/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/046344
Filing Date :10/08/2017
(87) International Publication No :WO 2018/034943
(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)BURROWS, John, Antony
2)MILLER, John, E.
3)MIXELL, Kristapher, I.
4)LYKOWSKI, James, D.

(57) Abstract :
A reversed-assembled corona igniter including an insulator, central electrode, and metal shell, wherein an outer diameter of the insulator increases adjacent a lower end of the metal shell to achieve an electrical advantage is provided. In addition, the insulator maintains strength because is not placed under tension during or after assembly, or once disposed in an engine. To achieve the increase in insulator outer diameter, the insulator includes a lower shoulder adjacent the shell firing end. An intermediate part, such as braze and/or a metal ring, is disposed between the insulator outer surface and the shell adjacent the shell firing end. To prevent tension in the insulator, the insulator can be supported at only one location between the insulator upper end and the insulator lower end, for example along the intermediate part.

No. of Pages : 16 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007347 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEMS AND METHODS OF SWIMMING ANALYSIS

(51) International classification :G09B19/00
(31) Priority Document No :62/381836
(32) Priority Date :31/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/049693
Filing Date :31/08/2017
(87) International Publication No :WO 2018/045211
(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)RAGHURAM, Karthik, Jayaraman
4)PHAM, Hung, A.
5)HOWELL, Adam S.
6)OCHS, James, P.
7)MAJJIGI, Vinay, R.
8)SINGH ALVARADO, Alexander
9)CHOW, Sunny, K.
10)SRINIVAS, Umamahesh
11)GUERS, Robin, T.
12)HUANG, Ronald, K.
13)ARNOLD, Edith, Merle
14)DERVISOGLU, Gunes
15)WATERS, Kenneth
16)DEMERS, Matthew

(57) Abstract :
Systems and methods of analyzing a users motion during a swimming session are described. One or more motions sensors can collect motion data of the user. A processor circuit can make motion analysis based on the motion data. The processor circuit can determine if the user s arm swing is a genuine swim stroke. The processor circuit can also determine whether the user is swimming or turning. The processor circuit can also classify the users swim stroke style. The processor circuit can also determine the users swim stroke phase. The processor circuit can also determine the users stroke orbit consistency.

No. of Pages : 51 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007349 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD AND CONTROL DEVICE FOR HEATING A DEVICE DRIVEN WITH A BRUSHLESS DIRECT CURRENT MOTOR

(51) International classification :H02P6/00
(31) Priority Document No :10 2016 216 041.9
(32) Priority Date :25/08/2016
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2017/065514
Filing Date :23/06/2017
(87) International Publication No :WO 2018/036687
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)ROBERT BOSCH GMBH
Address of Applicant :Postfach 30 02 20 70442 Stuttgart Germany
(72)**Name of Inventor :**
1)KLEINKNECHT, Horst

(57) Abstract :
The invention relates to a method for heating a device driven with a brushless direct current motor, in which method a voltage is applied to stator coils of the brushless direct current motor during a heating phase. The invention further relates to a device for carrying out said method. According to the invention, the stator coils are series-connected during the heating phase. The series connection of the stator coils increases the resistance by a factor of 4.5 compared to a parallel connection of a stator coil with a series connection of two stator coils, as occurs in a brushless direct current motor wired according to the prior art. The heating power is therefore also higher by a factor of 4.5 with the same operating current.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007352 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : MODULATING RETROREFLECTIVE PIEZOELECTRIC MULTILAYER FILM

(51) International classification :G02B26/02G01S17/74G06K7/10
(31) Priority Document No :62/380263
(32) Priority Date :26/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/048610
Filing Date :25/08/2017
(87) International Publication No :WO 2018/039558
(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)FILO, Andrew Simon

(57) Abstract :
Provided herein is a modulating retroreflective multilayer film comprising retroreflective elements, a piezoelectric layer, a photovoltaic layer, and an energy storage device. The stacked and transparent layered configuration of the film allows the retroreflective elements and the photovoltaic layer to be simultaneously illuminated by a narrow beam. The low power piezoelectric layer and the energy harvesting of the photovoltaic layer allow the retroreflector to be energetically self-sufficient and suitable for remote deployment. The flexible properties of the component layers allow the retroreflector to be adhered to nonplanar or irregular surfaces for the purpose of labeling and tagging.

No. of Pages : 30 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007358 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CHIMERIC ENGULFMENT RECEPTOR MOLECULES

(51) International classification :C07K16/30C07K19/00
(31) Priority Document No :62/400578
(32) Priority Date :27/09/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/053553
Filing Date :26/09/2017
(87) International Publication No :WO 2018/064076
(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)COREY, Daniel, Mark

(57) Abstract :
The present disclosure relates to chimeric engulfment receptor molecules, host cells modified to include the phagocytic engulfment molecules, and methods of making and using such receptor molecules and modified cells.

No. of Pages : 131 No. of Claims : 151

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007117 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A METHOD FOR PRODUCING FIBER REINFORCED CEMENTITIOUS SLURRY USING A MULTI-STAGE CONTINUOUS MIXER

(51) International classification :B28B1/52B01F7/00B01F7/04
(31) Priority Document No :62/371590
(32) Priority Date :05/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/045426
Filing Date :04/08/2017
(87) International Publication No :WO 2018/027095
(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)DUBEY, Ashish
2)GROZA, Peter B.
3)NELSON, Christopher R.

(57) Abstract :
A method in which a stream (5) of dry cementitious powder from a dry powder feeder (2) passes through a dry cementitious powder inlet conduit (5a) to feed a first feed section (20) of a fiber-slurry mixer (32). An aqueous medium stream (7) passes through at least one aqueous medium stream conduit (7a) to feed a first mixing section (22) of the fiber-slurry mixer (32). A stream (34) of reinforcing fibers passes from a fiber feeder (33) through a reinforcing fibers stream conduit (34a) to feed a second mixing section (24) of the fiber-slurry mixer (32). The stream (5) of dry cementitious powder, aqueous medium stream (7), and stream (34) of reinforcing fibers combine in the fiber-slurry mixer (32) to make a stream of fiber-cement mixture (36) which discharges through a discharge conduit (36a) at a downstream end of the mixer (32).

No. of Pages : 50 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007118 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ULTRASONIC TRANSDUCER TO WAVEGUIDE JOINING

(51) International classification :A61B17/32H01L41/09
(31) Priority Document No :62/379550
(32) Priority Date :25/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/048332
Filing Date :24/08/2017
(87) International Publication No :WO 2018/039410
(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)MESSERLY, Jeffrey D.
2)BLACK, Brian D.
3)ESTERA, Frederick
4)LESKO, Jason R.
5)BOYD, Benjamin M.
6)FIEBIG, Kevin M.
7)BOUDREAUX, Chad P.
8)WATERS, Grace E.
9)DENZINGER, Kristen G.
10)KRUMM, Amy M.
11)PIERCE, Amelia A.
12)ECKERT, Chad E.
13)DENNIS, Joseph D.
14)NICOLAESCU, Ion V.
15)ZECKEL, Monica L.
16)OLSON, William A.
17)SCOGGINS, Patrick J.
18)PUMMILL JR., Larry A.
19)FRAZIER, John S.
20)CRAWFORD, William A.
21)HEMMELGARN, Brian J.
22)STOUT, Eric
23)DICKERSON, Benjamin D.

(57) Abstract :
Various ultrasonic surgical instruments are disclosed. At least one disclosed surgical instrument includes a waveguide including a blade and a transducer base plate. The transducer base plate coupled to the waveguide to define a joint at an interface between the waveguide and the transducer base plate. The transducer base plate including first and second sides defining corresponding first and second flat faces configured to receive first and second piezoelectric elements. The first and second piezoelectric elements are configured to operate in a D31 mode.

No. of Pages : 53 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007120 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : TWIST LOCK SWIVEL / TWIST LOCK COUPLING

(51) International classification :F16B21/04E05B63/12E05C5/00
(31) Priority Document No :62/378034
(32) Priority Date :22/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/047915
Filing Date :22/08/2017
(87) International Publication No :WO 2018/039170
(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)LEONIDOVICH STENYAKIN, Alexander

(57) Abstract :
A twist lock comprises two components - a male component and a female component, where the two components interlock with each other. A plurality of alignment features is provided within the female component for facilitating the male component to engage with the female component. The twist lock helps latch two separate pieces together where precise tight/ closed position is required. The twist lock may also be employed in evacuated tube transportation (ETT) systems for automated docking.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007121 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : WEIGHING DEVICE FOR COMESTIBLE PROCESSORS

(51) International classification :A23L5/00A23L35/00A47J43/04
(31) Priority Document No :62/385703
(32) Priority Date :09/09/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/050824
Filing Date :08/09/2017
(87) International Publication No :WO 2018/049262
(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)FINNANCE, Robert
2)SANDS, Lenny

(57) Abstract :
A system for weighing ingredients of food and drink for a recipe application, which comprises a weighing device for use with blenders and food processors that can wirelessly communicate weight measurements and other data to the recipe application on a mobile device or computer. The weighing device can be removably attached to or integrated with the blender or food processor.

No. of Pages : 13 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007131 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM AND METHOD FOR DRILLING RIG STATE DETERMINATION

(51) International classification :E21B44/00E21B7/02
(31) Priority Document No :62/378398
(32) Priority Date :23/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/046864
Filing Date :15/08/2017
(87) International Publication No :WO 2018/038963
(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)COLEY, Christopher, J.

(57) Abstract :
A system and method for drilling a borehole in a subsurface formation. A method includes receiving measured values indicative of operations performed by drilling equipment. The measured values include hookload values. The hookload values are analyzed to identify hookload values acquired while connecting a drill pipe, and a block weight value is set based on such a hookload value. The block weight value is subtracted from the hookload values to produce rebased hookload values. A rig state model produces a value for a state of the drilling equipment based on the measured values and the rebased hookload values. Responsive to the state of the drilling equipment, an operation performed to drill the subsurface formation is changed.

No. of Pages : 36 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007132 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : TOOL DEVICE FOR A HAND-HELD POWER TOOL

(51) International classification :B27B5/32B23D61/02B24B45/00
(31) Priority Document No :10 2016 215 702.7
(32) Priority Date :22/08/2016
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2017/070310
Filing Date :10/08/2017
(87) International Publication No :WO 2018/036830
(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)ZURBRUEGG, Andreas
4)DI NICOLANTONIO, Aldo
5)SINZIG, Bruno
6)QUEBATTE, Laurent
7)SCHULLER, Marcus

(57) Abstract :
The invention relates to a tool device (11), in particular for machining a workpiece, for holding in a hand-held power tool (211), which can be operated in such a way that the tool device can be rotated about an output shaft of a tool-holding device (213), said tool device having at least one connecting device (13), which can be detachably connected to an output shaft of the hand-held power tool (211), wherein the connecting device (13) can be fastened to the tool-holding device (213) in such a way that a drive axis (A) of the output shaft and a tool axis of rotation (a) of the tool device (11) substantially coincide, wherein the connecting device (13) has a cut-out (17). According to the invention, the connecting device (13) has at least one clamping wing (19), which at least partly bounds the cut-out (17) in the radial direction of the tool axis of rotation (a) and which is bounded substantially in the direction radial to the tool axis of rotation (a) by a first bounding edge (21), which lies on a first, in particular minimal, bounding circle (23) around the tool axis of rotation (a), wherein the clamping wing (19) extends at least substantially along a plane orthogonal to the tool axis of rotation (a).

No. of Pages : 60 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007133 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ELECTROMAGNETICALLY ACTUATABLE SUCTION VALVE AND METHOD FOR PRODUCING AN ELECTROMAGNETICALLY ACTUATABLE SUCTION VALVE

(51) International classification	:F02M59/36F02M59/44F02M59/46
(31) Priority Document No	:10 2016 215 745.0
(32) Priority Date	:23/08/2016
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2017/069507 :02/08/2017
(87) International Publication No	:WO 2018/036765
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)HOLM, Steffen
4)CICHON, Gabriel

(57) Abstract :
The invention relates to an electromagnetically controllable suction valve (1) for a high-pressure fuel pump (2), comprising a magnet assembly (3) and a hydraulic module (4), the hydraulic module (4) engaging at least in sections in an annular magnet coil (5) of the magnet assembly (3). According to the invention, a heat-conducting material (6) and/or a heat-conducting body (7) is/are arranged between the magnet coil (5) and the hydraulic module (4). The invention further relates to a method for producing an electromagnetically actuatable suction valve (1).

No. of Pages : 10 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201917007134 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : STRUCTURE AND ROTARY CYLINDER

(51) International classification :B23B31/30
(31) Priority Document No :2016-149545
(32) Priority Date :29/07/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/027622
Filing Date :31/07/2017
(87) International Publication No :WO 2018/021578
(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)FUJIMURA, Toshiaki

(57) Abstract :
To provide a structure (e.g., rotation support body) with which it is possible, in a rotary cylinder as an example, to easily put the amount of screwing of a pipe thereof within an appropriate range, and prevent the occurrence of seizure of components or leakage of liquid. The present invention provides a structure equipped with: a fluid channel part on which a fitting recess is formed; a cylinder member having a through hole, which fits onto the fitting recess along the cylinder center line from the distal end opening side and which has a first threaded part formed on the inner circumferential surface; and a pipe having a second threaded part threaded onto the first threaded part from the base end opening side of the cylinder member.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2019

(21) Application No.201917007141 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PRESSURE-SENSITIVE ADHESIVE TAPE, METHOD FOR MANUFACTURING SAME, AND ELECTRONIC DEVICE COMPRISING SAME

(51) International classification :C09J7/04C09J9/02
(31) Priority Document No :10-2016-0109245
(32) Priority Date :26/08/2016
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2017/009068
Filing Date :21/08/2017
(87) International Publication No :WO 2018/038475
(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)JEONG, Ui Young

(57) Abstract :
The present invention relates to a pressure-sensitive adhesive tape, a method for manufacturing the same, and an electronic device comprising the same. The pressure-sensitive adhesive tape comprises: a fiber accumulation type substrate in which a plurality of fibers are accumulated to form a plurality of pores therebetween; a metal coating layer coated on the circumferential surfaces of the plurality of fibers of the fiber accumulation type substrate; and an electrically conductive adhesive layer formed on one side or both sides of the fiber accumulation type substrate on which the metal coating layer is formed, wherein the electrically conductive adhesive layer is formed of an electrically conductive adhesive material filled in the plurality of pores and is electrically connected by an applied pressure.

No. of Pages : 14 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007201 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : TISSUE LOADING OF A SURGICAL INSTRUMENT

(51) International classification :A61B17/32H01L41/09
(31) Priority Document No :62/379550
(32) Priority Date :25/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/048335
Filing Date :24/08/2017
(87) International Publication No :WO 2018/039412
(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)BRADY, John
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8)CLAUDA, Phillip H.
9)ZECKEL, Monica L.

(57) Abstract :
Various ultrasonic instruments are disclosed. The ultrasonic instruments include structures configured to indicate the cutting length of the instruments, detect when grasped tissue has extended beyond the cutting length of the instrument, and prevent tissue from extending beyond the cutting length. Several techniques for each types of structures are disclosed.

No. of Pages : 32 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007203 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : COMPOSITE PANE FOR A HEAD-UP DISPLAY

(51) International classification :B32B17/10C03C27/12
(31) Priority Document No :16186822.9
(32) Priority Date :01/09/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/068708
Filing Date :25/07/2017
(87) International Publication No :WO 2018/041472
(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)VAN DER MEULEN, Uwe
3)SCHULZ, Valentin

(57) Abstract :
The invention relates to a composite pane (1) for a head-up display, at least comprising a first pane (1.1) and a second pane (1.2), which are joined to each other via a composite layer (2, 3, 4), and a transparent, electrically conductive coating (10), wherein the composite layer (2, 3, 4) has a first thermoplastic film (2), a polyester film (3) and a second thermoplastic film (4), having a ratio of the thicknesses of the second thermoplastic film to the first thermoplastic film of 1.5:1 to 20:1

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007249 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DEVICE FOR CONVERTING A BED, IN PARTICULAR A CARE BED, SICK BED, HOSPITAL BED, OR INTENSIVE-CARE BED, FROM A HORIZONTAL POSITION INTO AN INCLINED POSITION WITH RESPECT TO THE LONGITUDINAL SIDES OF THE BED

(51) International classification :A61G7/08A61H1/00
(31) Priority Document No :10 2016 115 982.4
(32) Priority Date :26/08/2016
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2017/070327
Filing Date :10/08/2017
(87) International Publication No :WO 2018/036835
(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)SPIEGEL, Simon

(57) Abstract :
The invention relates to a device (1) for converting a bed, in particular a care bed, sick bed, or intensive-care bed, from a horizontal position into an inclined position with respect to the longitudinal sides (12) of the bed. The invention is characterized in that the device (1) has a receiving device (2) for receiving the bed (10) and a stand device (3) for ensuring a stable stand of the device (1) and in that the receiving device (2) and the stand device (3) are operatively connected together via at least one adjusting mechanism (70) which inclines the receiving device (2) relative to the stand device (3). In the process, the device advantageously decouples the verticalization process from the respective existing bed (10) and in this manner allows a large degree of flexibility for the care personnel during a routine therapy session using a care and/or medical device, thus allowing a safe and comfortable therapy for a patient (90) confined to a bed. The device (1) according to the invention is suitable for both a new installation as well as for retrofitting medical and/or care device equipment and advantageously saves on the otherwise necessary expenditures on beds with their own verticalization mechanism (70).

No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007252 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : BIOREACTOR AND METHODS OF USE THEREOF

(51) International classification :B01D61/14C12M3/02C12M3/06
(31) Priority Document No :62/377628
(32) Priority Date :21/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IL2017/050927
Filing Date :21/08/2017
(87) International Publication No :WO 2018/037402
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
An inverted conical bioreactor is provided for growing cells or microorganisms. The bioreactor has an internal space and a perforated barrier within the vessel, through which a liquid may flow, where cells or microorganisms cannot pass through the perforated barrier. The perforated barrier divides the internal space of the bioreactor into a first chamber and a second chamber. Cells are grown within the second chamber and can be perfused by re-circulating the liquid, for example a growth medium, through the bioreactor. Various inlet ports and outlet ports allow controlling the parameters of flow of the growth medium.

No. of Pages : 94 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007260 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ELEVATOR DOOR LEAF AND MANUFACTURING PROCEDURE

(51) International classification :B66B13/30E06B3/00
(31) Priority Document No :P201631023
(32) Priority Date :27/07/2016
(33) Name of priority country :Spain
(86) International Application No :PCT/ES2017/070515
Filing Date :14/07/2017
(87) International Publication No :WO 2018/020065
(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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(57) Abstract :
The elevator door leaf (1) is formed by a front panel (2) and a rear panel (3) separated from each other but fitted into each other at their longitudinal edges (23, 24; 33, 34) by hemming or seaming, determining a space between the front panel (2) and rear panel (3) that is occupied by an expandable and hardenable foam (6) that is injected under pressure into said space, such that it facilitates the attachment between at least two of the aforementioned paired longitudinal edges (23, 33; 24, 34) created by fitting the front (2) and rear (3) panels together.

No. of Pages : 15 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201918006845 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD FOR PRODUCING 5-HYDROXYPIPERIDINE-2-CARBOXYLIC ACID

(51) International classification :C07D211/04C07C233/00
(31) Priority Document No :2013-272766
(32) Priority Date :27/12/2013
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2014/084518
Filing Date :26/12/2014
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :201617025320
Filed on :25/07/2016

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4)MAEDA, Tomoko
5)HIDAKA, Tsugihiko

(57) Abstract :
A method for producing (2S,5S)/(2R,5R)-5-hydroxypiperidine-2-carboxylic acid indicated by formula (10), the method being characterized in including a step for removing protection from hydroxyl groups in a compound represented by formula (7) and synthesizing a compound represented by formula (8). (In the formula, P indicates a protecting group; R3 indicates an alkyl group having 1-4 carbon atoms; and A indicates an alkyl group having 1-10 carbon atoms, an aryl group having 6-12 carbon atoms, an alkyloxy group having 1-4 carbon atoms, or an aralkyloxy group having 7-20 carbon atoms.) (In the formula, R3 indicates an alkyl group having 1-4 carbon atoms; and A indicates an alkyl group having 1-10 carbon atoms, an aryl group having 6-12 carbon atoms, an alkyloxy group having 1-4 carbon atoms, or an aralkyloxy group having 7-20 carbon atoms.)

No. of Pages : 105 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201918006863 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SPUTTERING TARGET, METHOD FOR MANUFACTURING SPUTTERING TARGET, AND METHOD FOR FORMING THIN FILM

(51) International classification :C23C14/08C04B35/453
(31) Priority Document No :2011-128750
(32) Priority Date :08/06/2011
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2012/064341
Filing Date :28/05/2012
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :9831/DELNP/2013
Filed on :28/05/2012

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4)SATO, Hitomi
5)WATANABE, Masahiro
6)MASHIYAMA, Mitsuo
7)OKAZAKI, Kenichi
8)NAKASHIMA, Motoki
9)SHIMAZU, Takashi

(57) Abstract :
There have been cases where transistors formed using oxide semiconductors are inferior in reliability to transistors formed using amorphous silicon. Thus, in the present invention, a semiconductor device including a highly reliable transistor formed using an oxide semiconductor is manufactured. An oxide semiconductor film is deposited by a sputtering method, using a sputtering target including an oxide semiconductor having crystallinity, and in which the direction of the c-axis of a crystal is parallel to a normal vector of the top surface of the oxide semiconductor. The target is formed by mixing raw materials so that its composition ratio can obtain a crystal structure.

No. of Pages : 142 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201918007019 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A METHOD FOR DETECTING A POLYNUCLEOTIDE FROM A CELL

(51) International classification :C12Q
(31) Priority Document No :61/272,396
(32) Priority Date :21/09/2009
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2010/002569
Filing Date :20/09/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :3431/DELNP/2012
Filed on :20/04/2012

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2)HINDSON, Benjamin

(57) Abstract :
A method for lysing cells is disclosed. The method includes stirring cells with a magnetic stir element in the presence of a plurality of cell lysis beads at a speed sufficient to lyse the cells. Also disclosed is a device for lysing cells. The device includes a container having a magnetic stir element and a plurality of cell lysis beads disposed therein. The container is dimensioned to allow rotation of the magnetic stir element inside the container.

No. of Pages : 24 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2019

(21) Application No.201918007024 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ANTIGEN-BINDING MOLECULES THAT PROMOTE ANTIGEN CLEARANCE

(51) International classification :C07K16/468
(31) Priority Document No :2010-079667
(32) Priority Date :30/03/2010
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2011/001888
Filing Date :30/03/2011
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :8559/DELNP/2012
Filed on :30/03/2011

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(57) Abstract :
An objective of the present invention is to provide methods for facilitating antigen-binding molecule-mediated antigen uptake into cells, methods for facilitating the reduction of antigen concentration in plasma, methods for increasing the number of antigens to which a single antigen-binding molecule can bind, methods for improving pharmacokinetics of antigen-binding molecules, antigen-binding molecules improved for facilitated antigen uptake into cells, antigen-binding molecules capable of facilitating the reduction of antigen concentration in plasma, antigen-binding molecules capable of repeatedly binding to antigens, antigen-binding molecules with improved pharmacokinetics, pharmaceutical compositions comprising such an antigen-binding molecule, and methods for producing those described above. The present inventors discovered that antigen uptake into cells is facilitated by an antibody having human FcRn-binding activity at the plasma pH and a lower antigen-binding activity at the early endosomal pH than at the plasma pH; such antibodies can increase the number of antigens to which a single antibody molecule can bind; the reduction of antigen in plasma can be facilitated by administering such an antibody; and antibody pharmacokinetics can be improved by using such antibodies.

No. of Pages : 265 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2017

(21) Application No.201711012671 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : COMPOSITION OF HIGH COMPRESSIVE STRENGTH LOW CALCIUM FLY ASH BASED GEOPOLYMER CONCRETE INCORPORATING ALCCOFINE 1203

(51) International classification :C04B14/022
(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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(57) Abstract :
Disclosed is a low calcium fly ash based geopolymer concrete composition comprising low calcium fly ash, an alkaline activator containing NaOH and Na2SiO3 with NaOH of molarity 16M, and water, along with inert aggregates. The composition provides concrete having high compressive strength in the range of 70-75 MPa at the age of 28 days in heat curing regime. Alccofine 1203 has been added as an admixture to enhance mechanical properties. The composition is easy-to-make and reduces CO2 emissions by up to 75%.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/12/2017

(21) Application No.201714046480 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : FLOATING NUCLEAR POWER REACTOR WITH A SELF-COOLING CONTAINMENT STRUCTURE AND AN EMERGENCY HEAT EXCHANGE SYSTEM

(51) International classification :G21C13/02
(31) Priority Document No :15/807,049
(32) Priority Date :08/11/2017
(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

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(57) Abstract :
A floating nuclear power reactor is provided and includes a barge floating in a tank filled with water. The reactor includes a self-cooling containment structure and an emergency heat exchange system

No. of Pages : 48 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/02/2019

(21) Application No.201917006569 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : MULTILAYER STRUCTURES, MULTILAYER FILMS, AND PACKAGES FORMED THEREFROM

(51) International classification :B32B7/06B32B27/08B32B27/30
(31) Priority Document No :62/367863
(32) Priority Date :28/07/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/044097
Filing Date :27/07/2017
(87) International Publication No :WO 2018/022839
(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)DE FOGGI CARIOLI, Rafaela
4)CANTU, Marcelo Delmar
5)GOMES, Jorge Caminero

(57) Abstract :
Embodiments relate to multilayer structures, multilayer films, and packages formed therefrom. As an example, a multilayer structure can include a multilayer structure comprising a polyolefin sealant layer, a coupling layer on the polyolefin sealant layer, where the coupling layer includes a polyolefin and a maleic anhydride grafted (MAH) polymer, where the total amount of MAH polymer is from 15 weight percent to 50 weight percent of a total weight percent of the coupling layer, where the polyolefin is selected from the group consisting of a high pressure low density polyethylene, a high density polyethylene, an ethylene acrylic acid copolymer, an ethylene(meth)acrylic acid copolymer, propylene based plastomers, ionomers or a combination thereof, and a barrier layer directly on the coupling layer.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2017
(21) Application No.201711036097 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ISOLATION OF SHILAJIT COMPOUND FROM PHYTOEXTRACTS OF EQPHORBIA ROYLEANA PLANT

(51) International classification :A61K 8/00
(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

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(72)**Name of Inventor :**
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2)SURENDRA PRASAD

(57) Abstract :
Application of bio engineering processes for the manufacturing of shilajit from the phytoextracts of euphorbia royleana is an improvement over the natural process of geothermal process. The processes of polycondensation- The process starts with the Temperature of 120 C the and the condensation polymerization is completed with the temp of 180C .The resultant product is a matrix ,having viscous,sticky and dark brown co!our,without any essence. Hydrothermolysis Process for the Isolation of Shilajit from the matrix formed by polycondensation process of latex of Euphorbia royleana; This process starts with the dissolving of matrix in the boiling distilled water, derived from the latex of Euphorbia royleana by the polycondensation process. Biomass material (matrix) is hydrolyzed using temperatures of about 1Q0°C for the easily hydrolysable polysaccharides. This extraction process involves disruption of the internal cell structure and release of intracellular product to facilitate mass transfer, which is achieved by rapid and selective heating of the matrix in the water. Drying of the dissolved compound- a reddish brown compound is extracted by the processed mass of the matrix of the latex. This compound is dissolved shilajit in plenty of water. This water is evaporated slowly ,until thick dark brown shilajit is formed.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2018

(21) Application No.201814038884 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SCREW FOR EXTRUSION MOLDING MACHINE AND INJECTION MOLDING MACHINE

(51) International classification	:B22F5/00
(31) Priority Document No	:10-2017-0148127
(32) Priority Date	:08/11/2017
(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

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2)JOO, Hee Young
3)JOO, Hyoung Chan
(72)**Name of Inventor :**
1)JOO, Sang Kyu

(57) Abstract :
The present invention relates to a screw for an extrusion molding machine and an injection molding machine that is adapted to be inserted into a cylinder to convey a molding material injected from a hopper and heated to a molten state by means of a heater, and more particularly, to a screw that includes a wide width spiral portion (15) formed on the frontmost end periphery of a spiral portion (12) of a screw shaft in such a manner as to have a spiral blade having a wide width to prevent shaking and to reduce friction and abrasion against the inner peripheral wall of the cylinder to ensure a longer term operation than the conventional screw.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/10/2018

(21) Application No.201814040023 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM FOR MONITORING THE STATE OF A HOOK-KEEPER UNIT

(51) International classification :B64C25/16
(31) Priority Document No :EP17382736.1
(32) Priority Date :03/11/2017
(33) Name of priority country :EPO
(86) International Application No :NA
Filing Date :NA
(87) 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)Isabel ROMERO MOLINA
4)Jesºs DE GRACIA MAQUEDA

(57) Abstract :
The invention provides a system for monitoring the state of a hook-keeper unit of an aeronautical structure, the system comprising: the hook-keeper unit configured to be in a latched state and in a non-latched state, a mechanical warning element configured to be in an exposed state and in an unexposed state, and a connecting mechanism comprising a first end coupled to the hook-keeper unit, and a second end coupled to the mechanical warning element, the connecting mechanism being configured to automatically transmit the state of the hook-keeper unit to the mechanical warning element; wherein the hook-keeper unit and the mechanical warning element are coupled between them by the connecting mechanism in an automatic bijective relationship, so that: when the hook-keeper unit is in the latched state, the mechanical warning element automatically is in the unexposed state, and when the hook-keeper unit is in the non-latched state, the mechanical warning element automatically is in the exposed state.

No. of Pages : 31 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/10/2018

(21) Application No.201814040145 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ACH TRANSACTION AUTHENTICATION SYSTEMS AND METHODS

(51) International classification :G06Q20/00
(31) Priority Document No :15/806,113
(32) Priority Date :07/11/2017
(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

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1)PIEL , Brian

(57) Abstract :
An authentication computing device, including a processor in communication with a memory, for authenticating an ACH transaction processed over an ACH network is provided. The processor is programmed to register a payee with the authentication computing device, and to receive an authentication request for an electronic ACH transaction to transfer funds from a payor account to a payee account. The request is received from a first client computing device and includes an account identifier associated with the payor account. The processor is also programmed to transmit an authentication challenge to a second client computing device based on account data associated with the account identifier. The processor is further programmed to receive a response to the authentication challenge, determine whether the account data has been authenticated based on the received challenge response, and transmit an authentication response to the payee based on the determination.

No. of Pages : 43 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/09/2018

(21) Application No.201814036325 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : FIXING STRUCTURE FOR BATTERY FOR VEHICLE

(51) International classification	:E05B 81/82
(31) Priority Document No	:2017-216450
(32) Priority Date	:09/11/2017
(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

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2)Mitsuo HARINO

(57) Abstract :
[Problem to be Solved] To firmly fix a battery even when a clearance between an inner wall surface of a battery box accommodating a battery and the battery is large. [Solution] A battery box 10 accommodating a battery 1 includes a front wall 14 extending upward from a front part of a bottom surface portion 12, and a rear wall 15 extending upward from a rear part of the bottom surface portion 12, and a band 30 is arranged between the front wall 14 and the rear wall 15 so as to extend in a longitudinal direction. A stopper member 21 or 25 that bulges toward an intermediate portion of the battery box 10 in the longitudinal direction is provided on an inner wall surface of at least one of the front wall 14 and the rear wall 15, and the stopper members 21 and 25 include planar portions 22 and 26 opposed to longitudinal wall surfaces 1a and 1b of the battery 1.

No. of Pages : 23 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/09/2018

(21) Application No.201817036332 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CHARGE RELEASE CIRCUIT, DISPLAY SUBSTRATE, DISPLAY DEVICE, AND CHARGE RELEASE METHOD THEREOF

(51) International classification :G09G3/36
(31) Priority Document No :201720002380.1
(32) Priority Date :03/01/2017
(33) Name of priority country :China
(86) International Application No :PCT/CN2017/109965
Filing Date :08/11/2017
(87) International Publication No :WO 2018/126785
(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)CHENG, Hongfei

(57) Abstract :
A charge release circuit (0), a display substrate, a display panel, and a display device. The charge release circuit (0) comprises: a controller (01), a charge release sub-circuit (02), and a first conductor (03). The charge release sub-circuit (02) is separately connected to the controller (01), the first conductor (03), and a second conductor (A) in an effective display region of an array substrate (1). The charge release sub-circuit (02) is configured to conduct the first conductor (03) and the second conductor (A) under the control of the controller (01), so that the charge in the second conductor (A) moves toward the first conductor (03). The charge release circuit (0) can resolve the problem of displaying bright points by a display panel in a black screen state, thereby reducing the number of the bright points on the display panel in the black screen state.

No. of Pages : 17 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2019

(21) Application No.201917006835 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A DEVICE FOR OBTAINING A BLOOD SAMPLE

(51) International classification :A61B5/15
(31) Priority Document No :62/378971
(32) Priority Date :24/08/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/048143
Filing Date :23/08/2017
(87) International Publication No :WO 2018/039305
(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, Jayeon
3)BOKKA SRINIVASA RAO, Kishore, K.
4)BRUEHWILER, Michel

(57) Abstract :
A device for obtaining a biological sample, such as a capillary blood collection device, that has the ability to lance and squeeze the finger, collect the sample, stabilize the sample, and subsequently dispense the sample in a controlled manner is disclosed. The device also simplifies and streamlines the capillary blood collection by eliminating workflow variabilities which are typically associated with low sample quality including hemolysis and micro-clots.

No. of Pages : 23 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/09/2017

(21) Application No.201711031532 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD FOR SELECTIVE DETECTION NITRO-EXPLOSIVES AND DEVICE USED THEREIN

(51) International classification :G01N30/461
(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)CHAUDHARY, SHILPA
3)ARUNIMA SHARMA
4)VIJAYENDER BHALLA
5)PRAVEEN SONKUSRE

(57) Abstract :
The present disclosure provides a new immunoassay method and detection system for selective determination of nitro-explosive compounds in a sample. The immunoassay format comprises bioreceptprs (antibodies and/or aptamers) -functionalized polystyrene microtiter strips which bind specifically to targeted explosive. Heating/UV photolysis of nitro-explosive bound to specific bioreceptor cleaves'the nitrate groups present on nitroamine (RDX), nitrate ester (PETN), nitro aromatic (TNT) explosives, and generate primarily nitrite ions which are measured by adding a specific nitrite specific reagent. The intensity of generated chromophore is measured colorimetric with a system comprising: a chamber including sample and reference light transmissive cavities configured to house a sample and reference holders; a light source configured to illuminate both the sample and reference holders simultaneously; sample and reference detectors configured to measure optical intensity changes due to absorption of light by the sample and reference; a signal processing module configured to receive and process signals from the sample and reference detectors; a display module configured to display the measured concentration of the nitrate containing compound. The present disclosure provides a method of measiirement of concentrations of nitrate ions of a nitrate containing compound and thereby enabling highly reliable and accurate determination of concentration of the nitrate containing compound.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2018

(21) Application No.201817007052 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD AND SYSTEM FOR ANONYMOUS DIRECTED BLOCKCHAIN TRANSACTION

(51) International classification :G06F9/4893
(31) Priority Document No :15/387,906
(32) Priority Date :22/12/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/060272
Filing Date :07/11/2017
(87) International Publication No :WO/2018/118247
(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)HIGGINS, Stephen

(57) Abstract :
A method for posting of anonymous directed transaction includes: storing a plurality of entity profiles, each including an entity identifier and a secret value; receiving a transaction request from a first entity, the request including transaction data and a specific entity identifier associated with a second entity; identifying a specific entity profile that includes the specific entity identifier; generating a first hash value via application of one or more hashing algorithms to the transaction data; generating a second hash value via application of one of more hashing algorithms to a combination of the first hash value and the secret value included in the identified specific entity profile; and posting the first hash value and second hash value to a publicly accessible data source.

No. of Pages : 41 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/02/2019

(21) Application No.201917005220 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : WIRELESS DEVICE AND A NETWORK NODE FOR A WIRELESS COMMUNICATION SYSTEM AND METHODS THEREOF

(51) International classification :H04L5/00H04W56/00
(31) Priority Document No :62/417448
(32) Priority Date :04/11/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/SE2017/051099
Filing Date :03/11/2017
(87) International Publication No :WO 2018/084797
(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)KAZMI, Muhammad
3)CALLENDER, Christopher
4)EVERAERE, Dominique

(57) Abstract :
The disclosure relates to a method and wireless device configured for communication in a wireless communication network, the method comprising the steps of obtaining a first transmission time interval, TTI, used for transmission timing of a first signal,obtaining a second TTI, used for transmission timing of a second signal, obtaining a maximum received time difference, MRTD, parameter, and operating the first signal between a wireless device and a first cell using the MRTD parameter and a first carrier, and the second signal between the wireless device and a second cell using the MRTD parameter and a second carrier, the second carrier being different from the first carrier, wherein the MRTD parameter is obtained by determining the MRTD parameter based on the first and the second TTI. The disclosure further relates to a network node and a method thereof.

No. of Pages : 48 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/08/2018

(21) Application No.201817032452 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD AND APPARATUS FOR CONTINUOUSLY RECOVERING (METH)ACRYLIC ACID

(51) International classification :C07C51/44C07C51/48C07C51/50
(31) Priority Document No :10-2016-0158616
(32) Priority Date :25/11/2016
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2017/012620
Filing Date :08/11/2017
(87) International Publication No :WO 2018/097516
(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)SONG, Jong Hun
4)KIM, Jae Yul

(57) Abstract :
The present invention relates to a continuous recovery method of (meth)acrylic acid and an apparatus for use in the recovery method. A continuous recovery method of (meth)acrylic acid according to the present invention can ensure a high recovery rate of (meth)acrylic acid through an acetic acid separation process in addition to enabling the stable recovery of (meth)acrylic acid and the operation of continuous processes.

No. of Pages : 26 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/08/2018

(21) Application No.201817032457 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD AND APPARATUS FOR CONTINUOUS RECOVERY OF (METH)ACRYLIC ACID

(51) International classification :C07C51/44C07C51/50C07C51/48
(31) Priority Document No :10-2016-0158615
(32) Priority Date :25/11/2016
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2017/012619
Filing Date :08/11/2017
(87) International Publication No :WO 2018/097515
(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)KIM, Jae Yul

(57) Abstract :
The present invention relates to a continuous recovery method of (meth)acrylic acid and an apparatus for use in the recovery method. A continuous recovery method of (meth)acrylic acid according to the present invention can ensure a high recovery rate of (meth)acrylic acid through a solvent recovering process in addition to enabling the stable recovery of (meth)acrylic acid and the operation of continuous processes.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2018

(21) Application No.201817044758 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A REVOLVING VANE COMPRESSOR AND METHOD OF OPERATING AND MANUFACTURING THE SAME

(51) International classification	:F04C29/12F04C18/344F01C21/18
(31) Priority Document No	:10201609481X
(32) Priority Date	:11/11/2016
(33) Name of priority country	:Singapore
(86) International Application No Filing Date	:PCT/SG2017/050559 :08/11/2017
(87) International Publication No	:WO 2018/088960
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)ISWAN, Ismail
3)TAN, Kok Ming

(57) Abstract :
A revolving vane compressor and method of operating and manufacturing the same are disclosed. The compressor includes a rotor a sleeve a primary vane at least one secondary vane and a stationary flow regulator. The rotor has a first rotational axis. The sleeve is configured to surround the rotor along a direction parallel to the first rotational axis. The sleeve having a second rotational axis parallel to and offset from the first rotational axis such that a channel is formed between the sleeve and the rotor. The sleeve further has open first and second ends. The primary vane has one end in swivel engagement with the sleeve and the other end in sliding engagement with the rotor such that the rotor is operable to drive the sleeve and vice versa. The primary vane and the at least one secondary vane partition the channel into a plurality of chambers. The stationary flow regulator is configured to abut the open first end of the sleeve. The flow regulator is shaped such that in a first rotational position of the sleeve relative to the flow regulator one of the plurality of chambers is in fluid communication with a compressor inlet for drawing a compressible fluid into said chamber and in a second rotational position of the sleeve relative to the flow regulator the flow regulator seals said chamber for compressing the fluid within said chamber.

No. of Pages : 17 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2018

(21) Application No.201814041842 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : VEHICLE VARIABLE AIR-PURIFICATION DEVICE

(51) International classification :F01M9/10
(31) Priority Document No :201711087231.0
(32) Priority Date :07/11/2017
(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

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2)HU Yunfei
3)HUANG Wei

(57) Abstract :
A vehicle variable air-purification device includes a housing (1) that includes an inlet (11) that is configured to suction an inner air or an outer air of a vehicle and an outlet that is configured to blow a purified air toward a vehicle inner space, a purification mechanism (3) located in the housing to purify air flowing in the housing, an auxiliary purification mechanism (4) attached in the housing and configured to open and close, and a drive mechanism (5) configured to drive the auxiliary purification mechanism to open and close. When the auxiliary purification mechanism is deployed, the air suctioned by the inlet passes through the purification mechanism and the auxiliary purification mechanism to be purified by a double-layer purification, and when the auxiliary purification mechanism is contracted, the air suctioned by the inlet passes through only the purification mechanism to be purified by a single-layer purification. The present disclosure is to provide a vehicle variable air-purification device which timely changes an air purification efficiency in response to a user request, has a simple structure, and can flexibly deal with various air pollution situations.

No. of Pages : 31 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2018

(21) Application No.201814041893 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SPRAYING NOZZLE WITH PRE-ATOMIZATION NARROWING, AND SPRAYING HEAD AND SPRAYING DEVICE COMPRISING SUCH A NOZZLE

(51) International classification :F01M9/10
(31) Priority Document No :17 60419
(32) Priority Date :07/11/2017
(33) Name of priority country :France
(86) International Application No :NA
Filing Date :NA
(87) 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 :**
1)BENNANI, Tarik
2)COGNON, Thibault

(57) Abstract :
This spraying nozzle (34), intended for spraying a product, defines a passage (60) for the circulation of the product through the nozzle (34), wherein the passage (60) opens through a wide connection orifice (62) to the outside of the nozzle (34) at an upstream end (56) thereof, and through a narrow spraying orifice (64) at a downstream end (58) of the nozzle (34) in order to spray the product. This passage (60) has, between the connection orifice (62) and the spraying orifice (64), at least one pre-atomization narrowing (66) capable of atomizing the product, followed by a broadening (68) downstream of the pre-atomization narrowing (66). Figure 5

No. of Pages : 22 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2018

(21) Application No.201814041966 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : GAS TURBINE COMBUSTOR

(51) International classification :F01M9/10
(31) Priority Document No :2017-215444
(32) Priority Date :08/11/2017
(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

(71)**Name of Applicant :**
1)MITSUBISHI HITACHI POWER SYSTEMS, LTD.
Address of Applicant :3-1, Minatomirai 3-Chome, Nishi-ku, Yokohama-shi, Kanagawa 220-8401, Japan Japan
(72)**Name of Inventor :**
1)Hirofumi OKAZAKI
2)Tomomi KOGANEZAWA
3)Hirokazu TAKAHASHI

(57) Abstract :
In a gas turbine combustor, a sectional shape in a radial direction of either one of an inner peripheral surface of a second inner tube member and an outer peripheral surface of a first inner tube member, in a fitting portion of a crossfire tube assembly, has a plurality of small-curvature portions having a curvature smaller than a reference curvature, the reference curvature being a curvature of a portion at a maximum distance from the center of the sectional shape. This configuration ensures the crossfire tube assembly is cooled, and the possibility of thermal deformation or fire damage is lowered, without lowering the temperature of a combustion exhaust gas passing through the crossfire tube assembly of the gas turbine combustor.

No. of Pages : 57 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007263 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DETERMINING VARIANCE OF A BLOCK OF AN IMAGE BASED ON A MOTION VECTOR FOR THE BLOCK

(51) International classification :G06T7/00G06T7/20
(31) Priority Document No :15/292757
(32) Priority Date :13/10/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/CA2017/051103
Filing Date :19/09/2017
(87) International Publication No :WO 2018/068129
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)ATI TECHNOLOGIES ULC
Address of Applicant :One Commerce Valley Drive East Markham, Ontario L3T7X6 Canada
(72)**Name of Inventor :**
1)SAEEDI, Mehdi

(57) Abstract :
The present disclosure is directed to techniques for determining variance of a pixel block in a frame of video based on variance of pixel blocks in a reference frame of the video, instead of directly, for example, by calculating variance based on pixel values of the pixel block. The techniques include identifying a motion vector for a pixel block in a current frame, the motion vector pointing to a pixel block in a reference frame. The techniques also include determining the cost associated with the motion vector and comparing the cost to first and second thresholds. The techniques include determining the variance for the pixel block of the current frame based on the comparison of the cost to the first and second threshold and based on the variance of the pixel block of the reference frame.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2019

(21) Application No.201917007360 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : INTELLIGENT AUTOMATED ASSISTANT

(51) International classification :G10L15/00
(31) Priority Document No :62/399232
(32) Priority Date :23/09/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/049775
Filing Date :31/08/2017
(87) International Publication No :WO 2018/057269
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)APPLE INC.
Address of Applicant :One Apple Park Way Cupertino, California 95014 U.S.A.
(72)**Name of Inventor :**
1)SADDLER, Harry, J.
2)PIERCY, Aimee, T.
3)WEINBERG, Garrett, L.
4)BOOKER, Susan, L.

(57) Abstract :
Systems and processes for operating an automated assistant are disclosed. In one example process, an electronic device provides an audio output via a speaker of the electronic device. While providing the audio output, the electronic device receives, via a microphone of the electronic device, a natural language speech input. The electronic device derives a representation of user intent based on the natural language speech input and the audio output, identifies a task based on the derived user intent; and performs the identified task.

No. of Pages : 107 No. of Claims : 79

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/09/2018

(21) Application No.201814036339 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : FUEL CELL SYSTEM AND METHOD OF CONTROLLING THE SAME

(51) International classification	:H01M 8/04298
(31) Priority Document No	:2017-216002
(32) Priority Date	:09/11/2017
(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

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(72)**Name of Inventor :**
1)Ryoichi NAMBA
2)Tomotaka ISHIKAWA

(57) Abstract :
A fuel cell system includes a fuel cell stack (100), a compressor (34) that supplies cathode gas to the fuel cell stack (100), and a controller (20) that controls constituent components of the fuel cell system including the compressor (34). The controller (20) controls the compressor (34), such that a supply period in which the compressor (34) supplies the cathode gas and a stop period in which supply of the cathode gas is stopped appear alternately, when the fuel cell stack (100) is not required to generate electric power, and the supply period is longer than the stop period, and such that the flow rate of the cathode gas supplied by the compressor (34) in the supply period is smaller than the flow rate in the case where the fuel cell stack (100) is required to generate electric power.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/09/2018

(21) Application No.201814036383 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : VEHICLE LOCALIZATION DEVICE

(51) International classification	:G01S3/8083
(31) Priority Document No	:2017-213789
(32) Priority Date	:06/11/2017
(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

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(72)**Name of Inventor :**
1)TATEISHI, Kojiro

(57) Abstract :
A vehicle localization device includes: a target database (5); a target recognition unit (12) configured to recognize, based on a detection result of an in-vehicle sensor, a relative position of the first target relative to a vehicle and a relative position of the second target relative to the vehicle; a lateral position estimation unit (13) configured to estimate a lateral position of the vehicle and a direction of the vehicle based on the relative position of the first target relative to the vehicle and the position information on the first target on the map; and a longitudinal position estimation unit (14) configured to estimate a longitudinal position of the vehicle by reflecting the lateral position of the vehicle and the direction of the vehicle.

No. of Pages : 39 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/09/2018

(21) Application No.201814033074 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : INTERFACE CIRCUIT AND INTERFACE DEVICE •

(51) International classification	:G06F13/38
(31) Priority Document No	:10-2017-0146058
(32) Priority Date	:03/11/2017
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)Jong Min PARK

(57) Abstract :
An interface circuit is provided and includes a first switching device connected to a first power supply node supplying a first voltage, and controlled by a first input signal, a second switching device connected to a second power supply node supplying a second voltage lower than the first voltage, and controlled by a second input signal different from the first input signal, an output node through which the first switching device and the second switching device are connected to each other in series, outputting an output signal, a first resistor connected between the first power supply node and the first switching device, a second resistor connected between the second power supply node and the second switching device, a first capacitor connected to a node between the first resistor and the first switching device, and a second capacitor connected to a node between the second resistor and the second switching device.

No. of Pages : 51 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/09/2018

(21) Application No.201814033494 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : THIN-FILM TRANSISTOR HAVING HYDROGEN-BLOCKING LAYER AND DISPLAY APPARATUS INCLUDING THE SAME

(51) International classification	:H01L29/49
(31) Priority Document No	:10-2017-0148778
(32) Priority Date	:09/11/2017
(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

(71)**Name of Applicant :**
1)LG Display Co., Ltd.
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(72)**Name of Inventor :**
1)Im, Seoyeon
2)Lee, HeeSung
3)Kim, SeungJin
4)Kim, SungKi

(57) Abstract :
A thin-film transistor (100) is disclosed. The thin-film transistor (100) includes an oxide semiconductor layer (130) disposed on a substrate (110), a gate electrode (140) disposed so as to overlap at least a portion of the oxide semiconductor layer (130) in the state of being isolated from the oxide semiconductor layer (130), a source electrode connected to the oxide semiconductor layer (130), and a drain electrode connected to the oxide semiconductor layer (130) in the state of being spaced apart from the source electrode, wherein the oxide semiconductor layer (130) includes a first sub layer (131) disposed on the substrate (110), a second sub layer (132) disposed on the first sub layer (131), and a third sub layer (133) disposed on the second sub layer (132), the second sub layer (132) has larger resistance than the first sub layer (131) and the third sub layer (133) and lower carrier concentration than the first sub layer (131) and the third sub layer (133), the first sub layer (131) has higher hydrogen concentration than the second sub layer (132) and the third sub layer (133), and each of the first sub layer (131) and the second sub layer (132) has crystallinity.

No. of Pages : 72 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/09/2018

(21) Application No.201814033896 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SEMICONDUCTOR MEMORY DEVICE, MEMORY SYSTEM, AND REFRESH METHOD THEREOF •

(51) International classification :G11C8/04
(31) Priority Document No :10-2017-0146808
(32) Priority Date :06/11/2017
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)MIN-SOO JANG
2)EUNSUNG SEO
3)SEUNGJUN BAE

(57) Abstract :
A semiconductor memory device includes a cell array that includes a plurality of DRAM cells to store data, and refresh control logic that refreshes the plurality of DRAM cells depending on access scenario information provided from an outside. The refresh control logic determines a refresh time of the plurality of DRAM cells with reference to the access scenario information and a retention characteristic of the plurality of DRAM cells and refreshes the plurality of DRAM cells depending on the determined refresh time.

No. of Pages : 63 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/09/2018

(21) Application No.201814034322 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CAMERA ASSEMBLY, ELECTRONIC APPARATUS AND MOBILE TERMINAL

(51) International classification :G03B17/02
(31) Priority Document No :201721461098.6
(32) Priority Date :03/11/2017
(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)ZENG, ZANJIAN

(57) Abstract :
A camera assembly may include a fixed holder, sliding means connected to the fixed holder, configured to move relative to the fixed holder and including a magnet, a camera module arranged on the sliding means and configured to move between a first position at which the camera module extends out of the fixed holder and a second position at which the camera module retracts into the fixed holder with movement of the sliding means and an electromagnetic element, arranged on the fixed holder and configured to generate repulsive force and attractive force to the magnet to drive the sliding means to move, such that the camera module could move between the first position and the second position.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/09/2018

(21) Application No.201814034612 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD, APPARATUS, USER TERMINAL, ELECTRONIC EQUIPMENT, AND SERVER FOR VIDEO RECOGNITION

(51) International classification :G06F 3/048
(31) Priority Document No :201711079980.9
(32) Priority Date :06/11/2017
(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 :**
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(72)**Name of Inventor :**
1)DAI, Jiabao
2)LIU, Peng
3)YANG, Long

(57) Abstract :
The present invention discloses a method, a device, a client-side apparatus, an electronic device and a server for video content recognition. The method comprises: acquiring a target image arbitrarily selected by a user in a video; sending a request for video content recognition to a server, wherein the request for video content recognition includes the target image; and receiving a result of video content recognition from the server. The result of video content recognition comprises information related to the target image and found via searches on a search engine. According to the present disclosure, the information related to the target image in a video arbitrarily selected by the user can be flexibly provided to the user.

No. of Pages : 30 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/01/2019

(21) Application No.201917001195 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD FOR PRODUCING A ROLLING BEARING RING HAVING AN IMPROVED ROBUSTNESS AGAINST THE FORMATION OF WHITE ETCHING CRACKS (WEC)

(51) International classification :C21D9/40C21D1/10C22C38/02
(31) Priority Document No :10 2016 221 993.6
(32) Priority Date :09/11/2016
(33) Name of priority country :Germany
(86) International Application No :PCT/DE2017/100943
Filing Date :07/11/2017
(87) International Publication No :WO 2018/086658
(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)HOFMANN, Lothar
2)MANGOLD, Andreas
3)BLASS, Toni
4)KRUH–FFER, Wolfram
5)TROJAHN, Werner

(57) Abstract :
The invention relates to a method for producing a rolling bearing ring having an improved robustness against the formation of white etching cracks (WEC) wherein the rolling bearing component which is made of a sub-eutectoid heat-treated steel containing 0.4 - 0.55 % of C and 0.5 - 2.0 % of Cr is inductively heated for forming a hardened boundary layer then quenched and subsequently tempered.

No. of Pages : 11 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/02/2019

(21) Application No.201917004655 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : VEHICLE WINDOW WITH LIGHT GUIDE BODY FOR A SENSOR

(51) International classification :B60R1/00
(31) Priority Document No :16198566.8
(32) Priority Date :14/11/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/078750
Filing Date :09/11/2017
(87) International Publication No :WO 2018/087223
(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)MELCHER, Martin
2)YEH, Li-Ya
3)ARNDT, Martin
4)EFFERTZ, Christian

(57) Abstract :
The invention relates to a vehicle window for separating a vehicle interior from the outer surroundings comprising a glass pane (10) with a light guide body (4) made of glass on a region of the interior-side surface (I) of the glass pane (10). The light guide body (4) surface (e) facing the glass pane (10) and the surface (a) facing away from the glass pane (10) form a wedge angle () such that the thickness of the light guide body (4) decreases in the direction from the lower edge (U) to the upper edge (O) of the glass pane (10) and the light guide body (4) is secured to the interior-side surface (I) of the glass pane (10) by means of laser welding.

No. of Pages : 14 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/02/2019

(21) Application No.201917004711 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ELECTRODE ASSEMBLY COMPRISING ELECTRODE LEAD COUPLED TO LONG-SIDE AREA

(51) International classification :H01M10/0585H01M10/04H01M2/26
(31) Priority Document No :10-2016-0175294
(32) Priority Date :21/12/2016
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2017/012494
Filing Date :06/11/2017
(87) International Publication No :WO 2018/117407
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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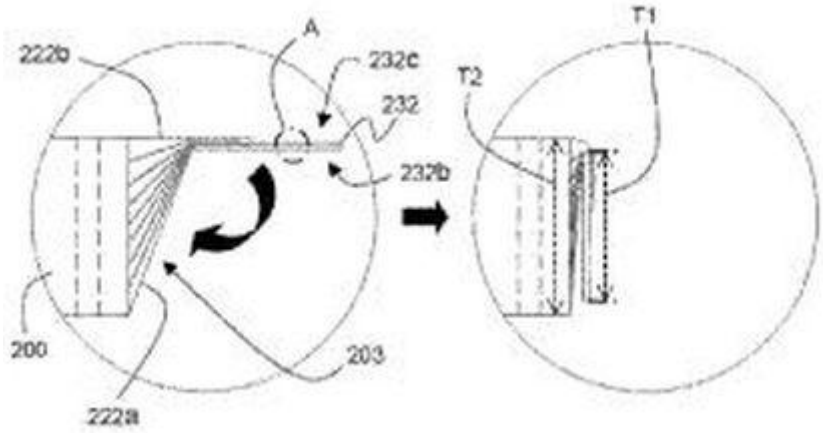
(72)**Name of Inventor :**
1)OH, Sei-Woon
2)KIM, Hyun-Min
3)LIM, Seong-Yoon
4)WOO, Sun-Hwak

(57) Abstract :
The present invention provides an electrode assembly characterized in that the electrode assembly is configured in a quadrangular structure so as to comprise two short sides and two long sides on a plane; the electrode assembly comprises positive electrode tabs protruding from at least two areas, which are spaced from each other, of the first long side, among the two long sides, and negative electrode tabs protruding from at least two areas, which are spaced from each other, of the second long side, respectively; and the positive electrode tabs and the negative electrode tabs are coupled to a single positive electrode lead and a single negative electrode lead positioned in a first long-side area and a second long-side area, respectively.



No. of Pages : 22 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/12/2016

(21) Application No.201621041781 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : GUM ROSIN CRUSHER MACHINE

(51) International classification	:B02C 19/00
(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

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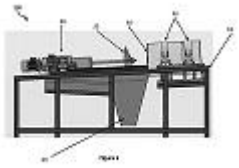
(72)**Name of Inventor :**
1)ANIL UDDHAVRAO INGALE

(57) Abstract :
ROSIN GUM CRUSHER MACHINE • Abstract Disclosed is a rosin gum crusher machine (100) for crushing the rosin gum to fine particle size in the container (30) itself, without any damage to the container (50). The rosin gum crusher machine (100) of the present invention allows crushing of the rosin gum with minimum or no dusting. The rosin gum is crushed without taking it out from the container (30). The cutter blade (25) drills through the rosin gum inside the tightly secured container (30) placed on a support frame (10). The support frame (10) is having slightly inclined surface, which helps the rosin gum powder to collect in the collecting pan. Figure 1



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

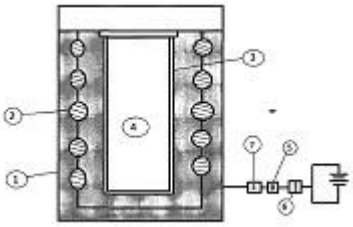
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2017

(21) Application No.201721039175 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PCM BASED HEATER FOR PROLONGED HEATING EFFECT USING SOAPSTONE.

(51) International classification	:F28D 20/00 B60H 1/00 F24H 7/00	(71)**Name of Applicant :** **1)R. M. PATIL** Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT-B, SECTOR 101, LAXMINAGAR, RAVET, PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	**2)R. G. GULHANE**
(32) Priority Date	:NA	**3)D. A. FARATE**
(33) Name of priority country	:NA	**4)P. V. HIWALE**
(86) International Application No	:NA	**5)G. B. JADHAV**
Filing Date	:NA	(72)**Name of Inventor :**
(87) International Publication No	: NA	**1)R. M. PATIL**
(61) Patent of Addition to Application Number	:NA	**2)R. G. GULHANE**
Filing Date	:NA	**3)D. A. FARATE**
(62) Divisional to Application Number	:NA	**4)P. V. HIWALE**
Filing Date	:NA	**5)G. B. JADHAV**

(57) Abstract :
A room heater for prolonged heating effect by consuming less amount of electricity using soapstone in outer casing and PCM as the inner casing to store the heat is incorporated to the present system of conventional heater, when heat is supplied to the heating coil ,it is radiated outside to the surrounding and some of the heat is absorbed by the PCM ,in its latent form and changes from solid to liquid i.e charging and when the temp of outer casing reduces it starts solidifying i.e discharging ,giving away its stored heat to the soapstone casing. The said heater thus provides prolonged heating by consuming less electricity because of relay circuit incorporated which automatically turns OFF and ON the supply when heating coil reaches its maximum and minimum designed temperature.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2017

(21) Application No.201721039231 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : NEW FORMULATION FOR THE MANAGEMENT OF GLYCOSIDASE AND OXIDATIVE STRESS.

(51) International classification	:A01K 67/027
(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. ADHAV RAHUL MOHANIRAJ
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4)DR. SINGH ELANGBAM ATHOIBA
5)DR. SHIRSATH MAHENDRA S.
6)DR. JAGTAP SURESH D.

(57) Abstract :
Diabetes mellitus (DM) has turned out to be one of the major and emerging public health problems of the world. There has been perpetuating increase in the number of diabetic patients almost in all countries, especially in India which disreputably got nicknamed asthe Diabetes Capital of the World (Mohan et al., 2007). Diabetes mellitus is a complex and a diverse group of disorders that disturbs the metabolism of carbohydrate, fat and protein. Antioxidants are the compounds that can delay or inhibit the oxidation of lipids or the molecules by inhibiting the initiation or propagation of oxidative chain reactions. (Choe and Min, 2009), redox active compounds which help to prevent radical formation or remove them before damage can occur or repair oxidative damage. They eliminate damaged molecules by directly scavenging or neutralizing free radicals or other reactive oxygen species (ROS) and reactive nitrogen species (RNS). Human use of plants as medicinal purpose predates recorded history. Medicinal plant use data in many forms has been heavily utilized in the development of pharmacopoeias and formularies, providing a major focus in global healthcare, as well as contributing substantially to the drug development process for alternate of synthetic drug. Since ancient times, plants have been an exemplary source of medicine and many of the currently available drugs have been derived directly or indirectly from them. Ayurveda and other Indian literature mention the use of plants in treatment of various human ailments. The ethnobotanical information reports about 800 plants that may possess anti- diabetic potential. In present innovation, deals with the development of new formulation having potential anti-diabetic and anti-oxidant potential. In overall study following plants were investigated. 1) Artiplex hortensisL. 2) Chenopodium album L. 3) Senna glauca Roxb. These investigations are supported by determination of total flavonoid content, determination of total phenol content, DPPH free radical scavenging activity, ABTS radical scavenging activity, determination of a-Amylase inhibitory activity, determination of a-glucosidase inhibitory activity, determination of IC50 values. As results, the quantitative estimation of total phenols and flavonoids suggests that the S. glauca leaves are found to be rich source of phenol ics and flavonoids and its chloroform and ethanol extracts showed excellent DPPH and ABTS reduction. Based on IC50 values, it was revealed that the chloroform and ethanol extracts of both C. album and A. hortesnsis showed maximum radical scavenging activity. Overall, C album and A. hortesnsis would be a good source of antioxidants providing health-promoting effects in human. The study indicated that, the ethanolic extract of A. hortesnsis showed the maximum alpha amylase and alpha glucosidase inhibitory activity. Furthermore, combination of ethanolic extract of leaves of selected three plants in the formof new combination formulation viz. CAAH11, showed enhanced alpha amylase and alpha glucosidase inhibitory activity.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2017
(21) Application No.201721039233 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : NEW SOURCE AND EXTRACTION METHOD FOR COLCHICINES IN SEED AND TUBERS OF ARISAEMA MURRAYI.

(51) International classification	:A01H 5/00
(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

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2)DR. PAWAR R. M.
3)DR. NAGARKAR BHAGYASHRI E.
4)DR. MUNGIKAR RAHUL R.
5)MR. SHILIMKAR VAIBHAV C.
6)DR. JAGTAP SURESH D.

(57) Abstract :
The present invention relates to a process is extraction process to increase the yield of Colchicine, particularly commercially useful biochemical with good demand by industry. Arisaema murrayi Hook, consists Colchicine and potassium oxalate crystals, Raphides and Sphaerophides in fruit and tuber. Therefore this species is recommended as substitute source of Colchicine. Present investigation includes the species viz. Arisaema murrayi Hook, of family Araceae. In the present investigation Colchicine and potassium oxalate crystals, Raphides and Sphaerophides are found to be present in the drugs. Colchicine was further detected quantitatively. Further these investigations were supported by thin layer chromatography (TLC), infrared spectroscopy (IR), Nuclear magnetic resonance (NMR), techniques and confirmed the presence as well as quantified the Colchicine. The introduction part of this invention explains the uses of plants with increased yield of ephedrine content for its commercial use.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2017

(21) Application No.201721039237 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : NOVEL PROCESS TO EXTRACT LUPEOL AND SAPONIN FROM SELECTED PLANTS.

(51) International classification	:A61K 31/00	(71)**Name of Applicant :** **1)PROF. DR. DEOKULE SUBHASH S.** Address of Applicant :DEPARTMENT OF BOTANY, SAVITRIBAI PHULE UNIVERSITY OF PUNE (SPPU), GANESHKHIND ROAD, PUNE-411 007, 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)PROF. DR. DEOKULE SUBHASH S.**
(61) Patent of Addition to Application Number	:NA	**2)DR. JOSEPH TESSY**
Filing Date	:NA	**3)DR. MOKAT DIGAMBAR N.**
(62) Divisional to Application Number	:NA	**4)MS. RAUT SHARAYU G.**
Filing Date	:NA	**5)DR. JAGTAP SURESH D.**

(57) Abstract :
The present study focuses on the potentiality of medicinal plants viz. Barringtonia acutangula (L.) Gaertn. and Naregamia alata W. & Arn. For the presence of secondary metabolites viz. lupeol and saponins. Both plants were collected and extacted in methanol. In phytochemistry, plants were analyzed by qualitative tests for the presence of saponin. The phytochemical investigations were further supported by HPTLC analysis using solvent system consisted of toluene: acetone : acetic acid (GAA) in ratio of 8.9 : 0.9 : 0.2. The active principle lupeol appeared as blue band on visual observation after derivatization in the HPTLC analysis at an Rf value of 0.42. Quantitative analysis was achieved using standard lupeol. The amount of lupeol present in Barrintonia acutangula is 0.05%, whereas it was found to be absent in Naregamia alata. In case of saponin the solvent system used was ethylacetate : ethanol (96%) : water : ammonia (25%) in ratio 6.5 : 2.5 : 9 : 1 respectively. The standard saponin was spotted 0.1 µg/µl. The derivatization was carried out by using anisaldehyde -sulfuric acid reagent and later heating it at 100°C for 10 minutes. Active principle saponin appeared in bluish band on visual observation after derivatization in the HPTLC analysis at an Rf value 0.06. Quantitative analysis was achieved using standard saponin.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2017

(21) Application No.201721039304 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SIGNAL ANALYSIS SYSTEMS AND METHODS FOR FEATURES EXTRACTION AND INTERPRETATION THEREOF

(51) International classification	:G06K 9/00 G06N 7/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)BANERJEE, Snehasis
2)CHATTOPADHYAY, Tanushyam
3)MUKHERJEE, Ayan

(57) Abstract :
Development of sensor data based descriptive and prescriptive system involves machine learning tasks like classification and regression. Any such system development requires the involvement of different stake-holders for obtaining features. Such features typically obtained are not interpretable for 1-D sensor signals. Embodiments of the present disclosure provide systems and methods that perform signal analysis for features extraction and interpretation thereof wherein input is raw signal data where origin of a feature is traced to signal data, and mapped to domain/application knowledge. Feature(s) are extracted using deep learning network(s) and machine learning (ML) model(s) are implemented for sensor data analysis to perform causality analysis for prognostics. Layer(s) (say last layer) of Deep Network(s) contains the automatically derived features that can be used for ML tasks. Parameter(s) tuning is performed based on the set of features that were recommended by the system to determined performance of systems (or applications) under consideration.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2017

(21) Application No.201721039516 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD AND SYSTEM FOR MANAGING EXCEPTIONS DURING RECONCILIATION OF TRANSACTIONS

(51) International classification	:G10L 13/04 G06Q 30/06
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)NAIR, Vinu S
2)JOSEPH, Leroy
3)THOMAS, Hema

(57) Abstract :
A method and system for managing of exceptions during reconciliation of transactions, wherein the exceptions are raised for possible mismatches existing between data sets being compared. The reconciliation includes performing a first matching of the two sets based on a predefined rule set and a preset reconciliation type, wherein the first matching raises the exceptions. Further, the exceptions, as a batch file, are processed by performing a second matching for the exception-data based on pattern matching mechanism that utilizes fuzzy logic. The pattern matching mechanism is provided with metafiles corresponding to each batch element of the batch files. Further, only possible close matches are retrieved based on a predefined confidence score threshold. The close matches along with corresponding confidence score may be provided to a user on a User Interface (UI) for further investigation of the exceptions.

No. of Pages : 38 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2017

(21) Application No.201721039519 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM AND METHOD FOR PHOTOPLETHYSMOGRAM (PPG) SIGNAL QUALITY ASSESSMENT

(51) International classification	:G10L 25/60 G07C 3/14
(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)ALAM, Shahnawaz
2)DATTA, Shreyasi
3)CHOUDHURY, Anirban Dutta
4)PAL, Arpan

(57) Abstract :
A system and method for PPG signal quality assessment is provided. The method includes obtaining a PPG signal captured using a testing device in real-time. The PPG signal is segmented into a first plurality of PPG signal samples such that length of each of the first plurality of PPG signal samples more than a threshold length. A signal sufficiency check (SSC) is performed for each first PPG signal sample of the first plurality of PPG signal samples to obtain at least a first set of PPG signal samples complying with the SSC. A set of features is extracted from the first set of PPG signal samples. Based on the set of features, each of the set of PPG signal samples is identified as one of a noisy signal sample and a clean signal sample using a plurality of Random Forest (RF) models created during the training phase.

No. of Pages : 43 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2017

(21) Application No.201721039668 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM AND METHOD FOR FACE POSITION TRACKING AND ALERTING USER

(51) International classification	:G06F 3/033 G01S 19/24 G01S 13/66
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)DAS, Apurba
2)CHAUHAN, Nithish
3)SANGHANI, Hardik Jayesh

(57) Abstract :
Current technologies detect the alertness of a user using frontal face. However, there are no techniques to track the position of face from a side angle. A method and system for face position tracking of a user and alerting the user is disclosed. The method includes capturing images using a monocular camera and identifying a user™s face from the images and storing the user™s face as reference face. The user™s face is divided into two regions and one or more corner points are identified. A centroid is created in the two regions and the corner points are joined using virtual lines to create a dual flexible spider model. One or more new corner points are created on fulfillment of pre-defined conditions. Angle and magnitude of flow vectors is determined using one or more new corner points and alerts are given to the user based on the angle and magnitude.

No. of Pages : 23 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2017

(21) Application No.201721039681 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD AND SYSTEM FOR EXTRACTING INFORMATION FROM HAND-MARKED INDUSTRIAL INSPECTION SHEETS

(51) International classification	:G06F 17/00
(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)GUPTA, Gaurav
2)Swati
3)SHARMA, Monika
4)VIG, Lovekesh

(57) Abstract :
Usually in industries, manual inspection of machines is performed, and to note down comments, inspection sheets are used. Though this is easy and convenient, when the data is to be inspected or checked at a later stage, multiple inspection sheets may have to be referred, and this turns out to be a cumbersome and time consuming process. Digitization of the inspection sheet can solve this issue. However, as the inspection sheets contain unstructured data, document digitization becomes a difficult process. System and method for digitization of inspection sheet are disclosed. In an embodiment, the system performs localization of text as well as arrows in the inspection sheet, and identifies text that matches each arrow. Further, by identifying machine zone each arrow is pointing to, the system assigns corresponding text to the appropriate machine zone; thus facilitating digitization of the inspection sheets.

No. of Pages : 40 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2017

(21) Application No.201721039378 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DUAL FIRED AUTOMATIC HIGH VELOCITY BURNER

(51) International classification	:F23D 14/00
(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

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(72)**Name of Inventor :**
1)DHANANJAY NAVANGUL

(57) Abstract :
DUAL FIRED AUTOMATIC HIGH VELOCITY BURNER [0036] The present invention discloses a dual fired automatic high velocity burner comprised of a burner assembly, electrode assembly and a proxy control system, the disclosed embodiments enable the burner to withstand upto1600 degree Celsius temperature, maintaining the high velocity simultaneously. The High Velocity is created by use of tapered combustion chamber so that at a fixed fuel air ratio, speed of flame automatically increases. The burner disclosed herein has a nozzle assembly allowing the use of different type of fuel sources simultaneously without hampering the efficiency. The proxy control present in the disclosed burner results in enhancement of 10-15% of the efficiency.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2017

(21) Application No.201721039379 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A DNA CASSETTE FOR PRODUCING ANGIOGENIC CARRIER CELLS FOR WOUND HEALING

(51) International classification	:A61K 38/00 A61K 35/00	(71)**Name of Applicant :** **1)Ansicht Scidel Diagnostics and Therapeutics** Address of Applicant :18 Mahalaxmi Housing Society Shahupuri Satara Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Dr. Arati Inamdar**
(33) Name of priority country	:NA	**2)dr. ajinkya inamdar**
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 DNA cassette for the expression of therapeutic genes namely platelet derived growth factor (PDGF) and vascular endothelial growth factor (VEGF) in carrier cells for the treatment of for treatment of chronic wounds, ischemic diseases and local and systemic degenerative disorders. The said therapeutic genes can be expressed one at a time or in multiples at a time when the said genes flank the two sides of viral 2A peptide or IRES. The carrier cells utilized for expressing the said DNA cassette includes the mesenchymal stem cells (MSCs) derived from umbilical cord tissue, or Wharton™s jelly, or bone marrow, or cord blood and somatic cells such as T lymphocytes. The transfected neuro protective carrier cells expressing the therapeutic genes has a potential to act as a therapeutic agent alone or in combination with other medications to improve the health of the patients with disorders of immune, inflammatory of various organ system including nervous system.

No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2017

(21) Application No.201721039380 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DNA CASSETTE WITH REGENERATIVE AND HEALING FACTORS FOR TREATMENT OF WOUND AND SKIN LESIONS

(51) International classification	:A61K 38/00 A61K 35/00	(71)**Name of Applicant :** **1)Ansicht Scidel Diagnostics and Therapeutics** Address of Applicant :18 Mahalaxmi Housing Society Shahupuri Satara Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Dr. Arati Inamdar**
(33) Name of priority country	:NA	**2)Dr. Ajinkya Inamdar**
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 DNA cassette for the expression of therapeutic genes namely fibroblast growth factor ˜FGF-1™, hepatocyte growth factor ˜HGF™, epidermal growth factor ˜EGF™, fibroblast growth factor ˜FGF-7™, insulin like growth factor ˜IGF-1™, homing gene ˜CXCR4™, ˜luciferase™, interleukin ˜IL-10™, interleukin ˜IL-4™ and platelet derived growth factor (PDGF) and vascular endothelial growth factor (VEGF) in carrier cells for the treatment of for treatment of chronic wounds, skin ulcers and local and systemic degenerative disorders. The said therapeutic genes can be expressed one at a time or in multiples at a time when the said genes flank the two sides of viral 2A peptide or IRES. The carrier cells utilized for expressing the said DNA cassette includes the mesenchymal stem cells (MSCs) derived from umbilical cord tissue, or Wharton™s jelly, or bone marrow, or cord blood and somatic cells such as T lymphocytes. The transfected neuro protective carrier cells expressing the therapeutic genes has a potential to act as a therapeutic agent alone or in combination with other medications to improve the health of the patients with disorders of immune, inflammatory of various organ system including nervous system.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/11/2017

(21) Application No.201721015948 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PROCESS FOR PREPARING CARBON FIBERS

(51) International classification	:C10C 3/00	(71)**Name of Applicant :** **1)RELIANCE INDUSTRIES LTD**
(31) Priority Document No	:NA	Address of Applicant :3RD FLOOR, MAKER CHAMBER-IV
(32) Priority Date	:NA	222 NARIMAN POINT MUMBAI MAHARASHTRA INDIA
(33) Name of priority country	:NA	400021 Maharashtra India
(86) International Application No	:NA	(72)**Name of Inventor :**
Filing Date	:NA	**1)PATIL, Swanand Dilip**
(87) International Publication No	: NA	**2)KHARE, Rupesh Arun**
(61) Patent of Addition to Application Number	:NA	**3)NANDIGAM, Padmavathi**
Filing Date	:NA	**4)VEEDU, Sreekumar Thaliyil**
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
ABSTRACT PROCESS FOR PREPARING CARBON FIBERS The present disclosure relates to a process for preparing carbon fibers. The process involves blending a carbon nanomaterial with a carbon material to obtain a homogenous blend, heating the homogenous blend to obtain mesophase pitch having particles with reduced mesophase sphere size followed by spinning the mesophase pitch to obtain the pitch fibers. The pitch fibers are then carbonized to obtain the carbon fibers. The carbon fibers prepared by the process of the present disclosure have improved tensile properties as compared to the conventional pitch based carbon fibers.

No. of Pages : 29 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/09/2018

(21) Application No.201827034378 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SUPPORT STRUCTURE FOR A WIND TURBINE

(51) International classification :E04H12/08F03D13/20
(31) Priority Document No :10 2016 205 447.3
(32) Priority Date :01/04/2016
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2017/057755
Filing Date :31/03/2017
(87) International Publication No :WO 2017/167990
(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)BARTMINN, Daniel
2)CZARNECKI, Artur
3)MATLOCK, Benjamin

(57) Abstract :
The invention relates to a support structure in particular for a wind turbine having at least two segments (12 14 16) which are joined to one another such that their longitudinal axes (L) extend substantially collinearly to one another. At least one of the segments (12 14 16) is a pipe section which has at least two mutually facing abutment surfaces (18) that are joined to one another at least in parts. A support structure (10) is provided that is producible in less time and is more cost-effective because the join between the abutment surfaces (18) involves at least one welded join (20) the thickness of the welding join (20) being less than the wall thickness of the pipe section (12 14 16) and/or the join between the abutment surfaces (18) involves at least one retaining clip (24).

No. of Pages : 20 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/09/2018

(21) Application No.201827035345 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SYSTEM AND METHOD

(51) International classification :E01C23/06E01C23/14
(31) Priority Document No :1603249.2
(32) Priority Date :25/02/2016
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2017/050495
Filing Date :24/02/2017
(87) International Publication No :WO 2017/144906
(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)HOGG, David
2)HOGG, Susan

(57) Abstract :
The invention relates to an asphalt heater system comprising a source of a flow of inert gas a heater for heating the flow of inert gas and means for directing the flow of heated inert gas to the asphalt surface wherein the means for directing the flow of heated inert gas to the asphalt surface is a lance. Such systems are suitable for use in methods for repairing defects in an asphalt surface.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/09/2018

(21) Application No.201827035891 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : VR PLAYING METHOD VR PLAYING APPARATUS AND VR PLAYING SYSTEM

(51) International classification :G06T17/00G06T17/30
(31) Priority Document No :201710028145.6
(32) Priority Date :16/01/2017
(33) Name of priority country :China
(86) International Application No :PCT/CN2017/074807
Filing Date :24/02/2017
(87) International Publication No :WO 2018/129792
(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)LIU, Ying
3)HE, Yongqiang
4)LI, Bojun

(57) Abstract :
Disclosed are a VR playing method apparatus and system. When playing with a media playing device a 3D spherical object is firstly created in a development environment and a new map texture is then set up and a tinter option is created for the map material; after selecting a tint for the map texture a multimedia panoramic material is acquired from the media playing device or an external storage device; the map texture and the multimedia panoramic material are loaded onto the surface of the 3D spherical object; and finally a virtual camera component is arranged at the centre of the 3D spherical object so as to pick up the content of the multimedia panoramic material and play same on the media playing device by controlling the angle of the virtual camera. The VR playing method of the present invention avoids a curved surface and incomplete displaying occurring during direct viewing. Furthermore the cost of the VR experience is reduced by adjusting a pick-up angle to increase the visible area. A user does not need to wear anything and no dizziness or fatigue will be caused by same.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2018

(21) Application No.201827037364 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : RECYCLING OF POLYMER MATRIX COMPOSITE

(51) International classification :C08J11/24C08J11/16C08J11/10
(31) Priority Document No :62/318555
(32) Priority Date :05/04/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IB2017/051838
Filing Date :31/03/2017
(87) International Publication No :WO 2017/175100
(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)GOSAU, Jan-Michael
2)ALLRED, Ronald E.

(57) Abstract :
The present invention relates in general to recycling of polymer matrix composite. In particular the invention relates to a process for separating reinforcement material from polymer matrix composite comprising the reinforcement material within a thermoset polymer matrix.

No. of Pages : 23 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2018

(21) Application No.201827037379 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : QUICK-MOUNTING STRUCTURE WITH ADDITIONAL EXTERNAL PROTECTION

(51) International classification :E04H15/20E04H15/22E04H3/22
(31) Priority Document No :a 2016 06184
(32) Priority Date :07/06/2016
(33) Name of priority country :Ukraine
(86) International Application No :PCT/UA2016/000087
Filing Date :08/07/2016
(87) International Publication No :WO 2017/213616
(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)AISTOV, Georgii Viktorovich
(72)**Name of Inventor :**
1)KUTLAHMETOV, Kostyantyn Vitaliyovich
2)AISTOV, Georgii Viktorovich

(57) Abstract :
The invention relates to the field of construction and may be used to design quick-mounting structures that are temporary (mobile) and intended for various purposes. A quick-mounting structure comprising at least two preferably flexible hemispherical shells of a larger area and a smaller area positioned one inside the other respectively and interconnected at the bottom around the circumference of the hemisphere to form a cavity wherein the frame is positioned and gas rarefaction is created in said cavity by rarefaction means. In addition the structure comprises a flexible outer shell positioned on the top of said shell of larger area and connected to it at the bottom around of the circumference hemisphere to form an additional cavity and gas overpressure above atmospheric pressure is created inside the additional cavity by said rarefaction means. The difference between overpressure value and gas rarefaction value in these cavities is not more than 20%.

No. of Pages : 15 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2018

(21) Application No.201827037380 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PRODUCTION METHOD FOR MOLTEN-ALUMINUM-PLATED COPPER WIRE

(51) International classification :C23C2/38C23C2/00C23C2/12
(31) Priority Document No :2016-047841
(32) Priority Date :11/03/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/009037
Filing Date :07/03/2017
(87) International Publication No :WO 2017/154916
(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)MIONO Tadaaki
2)KAMOSHIDA Shinichi
3)HATTORI Yasunori

(57) Abstract :
A production method for molten-aluminum-plated copper wire the production method being characterized by use of a heating device (6) that is for heating a copper wire (2) before the copper wire (2) is immersed in a molten aluminum plating bath (1) and of a bath surface control device (7) that comprises a tube-shaped body (9) which has a through hole (9a) for passing the copper wire (2) through the inside thereof and includes an immersion region (9b) that is for immersion in the molten aluminum plating bath (1) from an end part of one end of the tube-shaped body (9) along the long direction of the tube-shaped body (9). The production method is also characterized in that the copper wire (2) is passed in order through the heating device (6) and the bath surface control device (7) and immersed in the molten aluminum plating bath (1) while the immersion region (9b) of the bath surface control device (7) is immersed in the molten aluminum plating bath (1).

No. of Pages : 33 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/10/2018

(21) Application No.201827037423 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : CORE/SHELL HYDROCARBON TRAP CATALYST AND METHOD OF MANUFACTURE

(51) International classification :B01J35/00B01J23/40F01N3/20
(31) Priority Document No :62/305659
(32) Priority Date :09/03/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IB2017/051298
Filing Date :06/03/2017
(87) International Publication No :WO 2017/153893
(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)DEEBA, Michel

(57) Abstract :
The invention provides an automotive catalyst composite that includes a catalytic material on a carrier the catalytic material including a plurality of core-shell support particles including a core and a shell surrounding the core wherein the core includes a plurality of particles having a primary particle size distribution d90 of up to about 5 μm wherein the core particles include particles of one or more molecular sieves and optionally particles of one or more refractory metal oxides; and wherein the shell comprises nanoparticles of one or more refractory metal oxides wherein the nanoparticles have a primary particle size distribution d90 in the range of about 5 nm to about 1000 nm (1 μm); and optionally one or more platinum group metals (PGMs) on the core-shell support. The invention also provides an exhaust gas treatment system and related method of treating exhaust gas utilizing the catalyst composite.

No. of Pages : 28 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/10/2018
(21) Application No.201827037430 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : COEXISTENCE OF NARROW-BAND INTERNET-OF-THINGS/ENHANCED MACHINE TYPE COMMUNICATION AND 5G

(51) International classification :H04L5/00H04W4/00
(31) Priority Document No :62/335039
(32) Priority Date :11/05/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/032145
Filing Date :11/05/2017
(87) International Publication No :WO 2017/197102
(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)XU, Hao
2)JIANG, Jing
3)JI, Tingfang

(57) Abstract :
Certain aspects of the present disclosure relate to methods and apparatus for wireless communication and more particularly to coexistence of different radio access technologies (RATs). In certain aspects the method generally includes receiving a deployment configuration for an in-band mode of operation within system bandwidth of a type of radio access technology (RAT) and operating as if configured to operate within a guard-band of the system bandwidth or in a standalone mode while communicating in the in-band mode.

No. of Pages : 34 No. of Claims : 52

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/10/2018

(21) Application No.201827037432 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : DOUBLE-SIDED CIRCUIT

(51) International classification :H03H7/01H03H7/09H01P1/203
(31) Priority Document No :15/161138
(32) Priority Date :20/05/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/028851
Filing Date :21/04/2017
(87) International Publication No :WO 2017/200701
(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)KIM, Daeik Daniel
5)KIM, Jonghae
6)VELEZ, Mario Francisco
7)MUDAKATTE, Niranjan Sunil
8)MIKULKA, Robert Paul

(57) Abstract :
The present disclosure provides circuits and methods for fabricating circuits. A circuit may include an insulator having a first surface a second surface a periphery a first subset of circuit elements disposed on the first surface a second subset of circuit elements disposed on the second surface and at least one conductive sidewall disposed on the periphery wherein the conductive sidewall electrically couples the first subset of circuit elements to the second subset of circuit elements.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/10/2018

(21) Application No.201827037435 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : BEAM AND SYMBOL SELECTION TO TRANSMIT RACH

(51) International classification :H04W52/50
(31) Priority Document No :62/337168
(32) Priority Date :16/05/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/030367
Filing Date :01/05/2017
(87) International Publication No :WO 2017/200736
(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)ISLAM, Muhammad Nazmul
2)LUO, Tao
3)SADIQ, Bilal
4)CEZANNE, Juergen
5)LI, Junyi

(57) Abstract :
Methods systems and devices for wireless communication are described. A user equipment (UE) may identify a number of beam directions that satisfy a transmission power condition. The UE may select a beam direction for a random access signal by choosing one of the beam directions that satisfies additional criteria such as transmitting a random access message at the next opportunity. The transmission power may be selected based on a target receive power and a path loss for the selected beam. In some cases if the sum of the path loss for a beam direction and the target receive power exceeds a maximum transmission power by more than a predetermined amount the random access signal will not be transmitted using that beam. In some cases if a response to the random access is not received a different beam direction may be selected the transmission power may be increased or both.

No. of Pages : 48 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/10/2018

(21) Application No.201827037479 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : APPARATUS AND METHOD FOR EXAMINING BULK MATERIAL

(51) International classification :B07C5/342
(31) Priority Document No :10 2016 109 752.7
(32) Priority Date :26/05/2016
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2017/062615
Filing Date :24/05/2017
(87) International Publication No :WO 2017/202954
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)SIKORA AG
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(72)**Name of Inventor :**
1)BREMER, Klaus

(57) Abstract :
The invention relates to an apparatus for examining bulk material in particular pellets for contamination comprising a bulk-material inlet through which bulk material is fed to the apparatus in a substantially planar bulk-material stream wherein the apparatus comprises two tunnel portions which are located opposite one another in the form of tubes and are arranged such that the bulk-material stream falls through between the tunnel portions wherein at least one of the tunnel portions has lamps for indirectly illuminating the bulk-material stream wherein the indirect illumination is such that no optical radiation passes directly from the lamps to the bulk material and that no optical radiation passes directly from the lamps to the optical detector wherein there is at least one optical detector provided which is directed onto the bulk-material stream through at least one of the tunnel portions and wherein there is an evaluation device provided which uses the measurement data from the at least one optical detector to establish contamination of the bulk material examined. The invention also relates to a method for operating such an apparatus.

No. of Pages : 21 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/10/2018

(21) Application No.201827037484 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : TUNABLE MATCHING NETWORK

(51) International classification :H04B1/04
(31) Priority Document No :15/151351
(32) Priority Date :10/05/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/020993
Filing Date :06/03/2017
(87) International Publication No :WO 2017/196438
(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)YUN, Changhan Hobie
6)LAN, Je-Hsiung Jeffrey
7)VELEZ, Mario Francisco
8)MUDAKATTE, Niranjan Sunil
9)MIKULKA, Robert Paul
10)KIM, Jonghae

(57) Abstract :
A tunable matching network is disclosed. In a particular example the matching network includes at least one first inductor in a signal path of the matching network. The matching network includes at least one second inductor outside of the signal path. The matching network includes one or more switches coupled to the at least one second inductor. The one or more switches are configured to selectively enable mutual coupling of the at least one first inductor and the at least one second inductor.

No. of Pages : 25 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/10/2018

(21) Application No.201827037499 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A MACHINE AND A PROCESS FOR THE ATMOSPHERIC PLASMA TREATMENT OF DIFFERENT MATERIALS USING GASEOUS MIXTURES COMPRISING CHEMICALS AND/OR MONOMERS

(51) International classification :H05H1/24H01J37/32
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/IT2016/000091
Filing Date :11/04/2016
(87) International Publication No :WO 2017/179076
(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)COSTABELLO, Katiuscia
3)PAVAN, Chiara

(57) Abstract :
The invention relates to a machine for the plasma treatment of various materials comprising a first cathode (1) and a second cathode (2) positioned opposite one to the other each cathode comprising a plurality of first (3) and second (5) conductor electrodes embedded in portions of dielectrically insulating material (9) and a plurality of channels (7) placed between two adjacent portions of dielectrically insulating material (9) and passing through the second conductor electrodes (5); electrical means apt to generate a first transverse electric field (T) and a second longitudinal electric field (L) between the first cathode (1) and the second cathode (2); supply means (6) apt to supply a gaseous mixture (4) in a region of space traversed by the lines of force of the transverse (T) and longitudinal (L) electric fields the gaseous mixture (4) being supplied in a uniform manner in said region and the electric fields being such as to trigger the breakdown of the gaseous mixture (4) and generate in this way a plasma in said region. The invention also relates to the relative processes for the plasma treatment of various materials and a gaseous mixture (4) which can be used for the plasma treatment of various materials comprising chemicals and/ or monomers.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/10/2018

(21) Application No.201827037500 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : APPARATUS FOR LOADING AND UNLOADING A FREEZE-DRYER

(51) International classification :F26B5/06F16G13/20F26B25/00
(31) Priority Document No :102016000028811
(32) Priority Date :18/03/2016
(33) Name of priority country :Italy
(86) International Application No :PCT/IB2017/051558
Filing Date :17/03/2017
(87) International Publication No :WO 2017/158563
(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)OPRINS, Geert Jan
2)TREBBI, Claudio

(57) Abstract :
A movement apparatus for loading/unloading containers (100) into/from a freeze-dryer (50) provided with a freeze drying chamber (51) having at least one shelf (52) for receiving and supporting containers (100) comprising a push bar (2) to push the containers (100) and movement means (3) for moving the push bar (2) through the freeze drying chamber (51) along a direction of movement (A); the movement means (3) comprises at least one rigid interlocking chain linear actuator (4) having a first movement rigid interlocking chain (43) mobile along the direction of movement (A) and provided with a first operating end (14) connected to the push bar (2).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/10/2018

(21) Application No.201827037501 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : TECHNIQUE FOR READING ENERGY-SAVING METERS AT THE SMART METER LEVEL

(51) International classification :H04W4/00H04W52/02
(31) Priority Document No :1653504
(32) Priority Date :20/04/2016
(33) Name of priority country :France
(86) International Application No :PCT/FR2017/050913
Filing Date :18/04/2017
(87) International Publication No :WO 2017/182749
(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)DELIBIE, Yannick
2)GAUDIN, Yannick

(57) Abstract :
The invention relates to a method for establishing a communication between a gateway and a communication module comprising: periodically broadcasting a synchronisation signal from a gateway the duty cycle DC=Dx/Tx between the duration of the transmission window (28) Dx of the synchronisation signal and the duration of the broadcasting period Tx being less than 50% periodically activating a receiver of a communication module activated during a waking window (29) the duration of the waking window being less than the duration Tr of the activation period the duration Tr of the activation period being equal to Tr=Tx/(1+DC) receiving of the synchronisation radio signal by the receiving communication module during a recovery (30) between a so-called waking window (29) and a so-called transmitting window (28) broadcasting a data message (20) from a transmitter of the communication module and receiving the data message by a receiver of the gateway.

No. of Pages : 17 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2018

(21) Application No.201827041832 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ESTIMATION OF YAW MISALIGNMENT FOR A WIND TURBINE

(51) International classification :F03D7/02F03D17/00
(31) Priority Document No :16169367.6
(32) Priority Date :12/05/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/DK2017/050150
Filing Date :11/05/2017
(87) International Publication No :WO 2017/194067
(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)HANSEN, Lars Henrik
3)HANSEN, Sidse Damgaard
4)BRINK, Frederik Ettrup
5)HEDEVANG, Arne
6)LAURITSEN, Anders Nordberg

(57) Abstract :
Disclosed is a method for estimating systematic yaw misalignment of a wind turbine. The method comprising the steps of: receiving yaw data from the wind turbine indicative of the degrees of rotation of the nacelle for a plurality of yaw operations; receiving performance data from the wind turbine indicative of the alignment of the nacelle of the wind turbine with the wind direction before and after each of the plurality of yaw operations. The yaw data and the performance data being recorded during normal operation of the wind turbine and the yaw data and the performance data is processed together to estimate the systemic yaw misalignment of the wind turbine.

No. of Pages : 23 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2018

(21) Application No.201827041839 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : HETEROCYCLIC IONIC LIQUIDS

(51) International classification :H01M10/0525H01M10/0569H01M10/0567
(31) Priority Document No :62/326283
(32) Priority Date :22/04/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2017/028907
Filing Date :21/04/2017
(87) International Publication No :WO 2017/185013
(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)MOGANTY, Surya
2)ABBATE, Luigi
3)TORRES, Gabriel
4)BROWN, Kevin
5)SINICROPI, John

(57) Abstract :
An ionic liquid compound includes an azepanium-functionalized cation. An electrochemical cell electrolyte for an electrical energy storage device includes the ionic liquid compound aprotic organic solvent alkali metal salt and an additive.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2018

(21) Application No.201827041848 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SUPPORT HOUSING FOR SAMPLING CONES FOR A PIPETTING SYSTEM

(51) International classification :B01L9/00
(31) Priority Document No :1654249
(32) Priority Date :12/05/2016
(33) Name of priority country :France
(86) International Application No :PCT/EP2017/061121
Filing Date :10/05/2017
(87) International Publication No :WO 2017/194575
(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)GOMES CAVACO, Philippe

(57) Abstract :
The invention concerns a support housing (1) for sampling cones for a pipetting system the housing being intended to be stacked with other identical housings in a stacking direction (2) and comprising: a support (10) provided with openings (12) for housing the sampling cones; first and second opposing side walls (14a 14b) traversed by a virtual median plane (P). According to the invention each of the first and second opposing side walls (14a 14b) is equipped with a female coupling member (18) and a male coupling member (20) arranged substantially symmetrically to either side of the plane (P) the two female coupling members (18) of the first and second opposing side walls (14a 14b) being arranged to a same side of the plane (P) and the two male coupling members (20) of the first and second opposing side walls being arranged to the other side of said plane (P).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2018

(21) Application No.201827042076 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : BINOCULAR WIDE FIELD OF VIEW (WFOV) WEARABLE OPTICAL DISPLAY SYSTEM

(51) International classification	:G02B27/01G02B27/14G02B27/28
(31) Priority Document No	:62/320543
(32) Priority Date	:10/04/2016
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IL2017/050441 :10/04/2017
(87) International Publication No	:WO 2017/179054
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)ABRAHAM, Sasson
3)ZLOCHIN, Alla
4)ASHKENAZI, Asaf

(57) Abstract :
A wearable optical display system comprising: a user attachment section; a partially transmissive partially reflective optical part coupled with said user attachment section and configured to be facing an eye of said user; and an electro-optical unit coupled with at least one of said user attachment section and said partially transmissive partially reflective optical part said electro-optical unit comprising: a plurality of lenses; a plurality of reflectors having a nose-positioned reflector being positioned at a side of a nose of said user such to allow an unobstructed field of regard to said eye; and a light projection unit for projecting light beams onto said partially transmissive partially reflective optical part via said at least one nose-positioned reflector being interposed along an optical path between said light projection unit and partially transmissive partially reflective optical part for viewing at least part of a projection of said light beams by said eye.

No. of Pages : 49 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2018

(21) Application No.201827042791 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ORGANIC LIGHT EMITTING DIODE DISPLAY SUBSTRATE ORGANIC LIGHT EMITTING DIODE DISPLAY APPARATUS AND METHOD OF FABRICATING ORGANIC LIGHT EMITTING DIODE DISPLAY SUBSTRATE

(51) International classification :H01L27/32
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2017/103387
Filing Date :26/09/2017
(87) International Publication No :WO 2019/061015
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)BOE TECHNOLOGY GROUP CO., LTD.
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1)LIU, Fengjuan
2)SONG, Zhen

(57) Abstract :
The present application discloses an organic light emitting diode display substrate having a subpixel region and an inter-subpixel region. The organic light emitting diode display substrate includes a base substrate and an auxiliary cathode on the base substrate. The auxiliary cathode includes a transparent conductive sub-layer and a metallic conductive sub-layer on a side of the transparent conductive sub-layer distal to the base substrate. The metallic conductive sub-layer is substantially in the inter-subpixel region.

No. of Pages : 14 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2018

(21) Application No.201827042807 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PREFABRICATED WALL FOR INTERIOR AND CONSTRUCTION METHOD THEREFOR

(51) International classification :E04B2/74
(31) Priority Document No :10-2016-0064635
(32) Priority Date :26/05/2016
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2017/003220
Filing Date :24/03/2017
(87) International Publication No :WO 2017/204453
(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)LEE, Chung Jong

(57) Abstract :
The present invention relates to a prefabricated wall for interior which partitions the indoor space of a building the prefabricated wall comprising: a runner installed to face a ceiling and a floor; a plurality of studs vertically installed and fixed on both width-wise sides of the runner; and a finishing panel coupled to the plurality of studs wherein each of the plurality of studs includes a pair of coupling grooves extending in parallel to each other in the lengthwise direction the finishing panel includes a pair of elastic coupling members which are fixedly coupled to both ends of left and right sides of the inner side surface thereof so as to extend in a vertical direction and the finishing panel is installed on front surface portions of the plurality of studs by inserting and coupling the elastic coupling members into the coupling grooves. Therefore the present invention minimizes the use of screws to facilitate the installation/disassembly and reassembly of a wall allows a small number of personnel to simultaneously perform the installation or disassembly work reduces labor costs and can shorten the construction period.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2018

(21) Application No.201827042827 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : PREMIX FOR PRODUCING AN ABSORPTION AGENT FOR REMOVING ACID GASES FROM A FLUID FLOW

(51) International classification :B01D53/14C10L3/10
(31) Priority Document No :16165810.9
(32) Priority Date :18/04/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/058285
Filing Date :06/04/2017
(87) International Publication No :WO 2017/182289
(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 :Carl-Bosch-Strae 38 67056 Ludwigshafen am Rhein Germany
(72)**Name of Inventor :**
1)INGRAM, Thomas
2)VORBERG, Gerald
3)SIEDER, Georg

(57) Abstract :
The invention relates to a premix for producing an absorption agent for removing acid gases from a fluid flow comprising a) at least one tertiary amine and/or a sterically inhibited secondary amine; b) a dicarboxylic acid in a quantity calculated as a neutralization equivalent based on the protonatable nitrogen atoms in a) of at least 30% wherein the dicarboxylic acid is soluble in water at a temperature of 20 °C to a maximum of 15 g dicarboxylic acid per 100 g of water; and c) 20 to 80 wt% water. The invention further relates to a method for producing an absorption agent from the premix. According to the invention the premix represents a transportable and easily workable solution of a dicarboxylic acid of low solubility in water for the production of an absorption agent for removing acid gases from a fluid flow.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2018

(21) Application No.201827042839 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : TIDAL CURRENT GENERATOR

(51) International classification :F03B13/26F03B17/06H02K7/18
(31) Priority Document No :10-2016-0063456
(32) Priority Date :24/05/2016
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2017/000544
Filing Date :17/01/2017
(87) International Publication No :WO 2017/204437
(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)YOO, Sarang
3)YOO, Hyunjung
(72)**Name of Inventor :**
1)YOO, Wonki
2)YOO, Sarang
3)YOO, Hyunjung

(57) Abstract :
The present invention relates to a tidal current generator and more particularly to a tidal current generator capable of effectively generating electricity by being divided into a generation means on the water and an underwater power acquiring means. The tidal current generator can not only be easily managed on the water by being easily towable on the water even when a facility disposed underwater fails but can maximally utilize a flow of tidal current through a connection line and a groove structure defined in a rotating propeller. By controlling the number of power connections between a rotation means and the generator on the water according to the flow of tidal current the tidal current generator can maximize efficiency without waste and deficiency in power transmission.

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2018

(21) Application No.201827042461 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ABSORBENT ARTICLE

(51) International classification :A61F13/494A61F13/475A61F13/496
(31) Priority Document No :2016-112923
(32) Priority Date :06/06/2016
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2017/020864
Filing Date :05/06/2017
(87) International Publication No :WO 2017/213096
(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)MUKAI, Hirotomo
2)NAGAI, Takahito

(57) Abstract :
An absorbent article (1) which has an absorbent body (10) equipped with an absorbent core (40) and also has a pair of leakage prevention walls (20) capable of standing upright on the skin side and provided in both lateral sections of the absorbent body (10) in the widthwise direction wherein: the absorbent core (40) has a low area density section (43) in which the absorbent core (40) area density is lower than that of the surrounding sections; the leakage prevention walls (20) each have a skin-side section (23) and a non-skin-side section (24) and are provided with a joined section (27) where at least part of the facing surfaces of the skin-side section (23) and the non-skin-side section (24) are joined to one another; the joined section (27) is provided to the inside relative to the tips of the leakage prevention walls (20) in the widthwise direction; at least parts of the joined section (27) and the low area density section (43) overlap with one another in the lengthwise direction; and the joined section (27) is positioned to the outside of the low area density section (43) in the widthwise direction.

No. of Pages : 48 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2018

(21) Application No.201827042462 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : ABSORBENT ARTICLE

(51) International classification	:A61F13/494A61F13/49A61F13/532
(31) Priority Document No	:2016-112924
(32) Priority Date	:06/06/2016
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2017/020855 :05/06/2017
(87) International Publication No	:WO 2017/213094
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)NAGAI, Takahito

(57) Abstract :
An absorbent article (1) which has an absorbent body (10) equipped with an absorbent core (40) and also has a pair of leakage prevention walls (20) capable of standing upright on the skin side in the thickness direction and provided in both lateral sections of the absorbent body (10) in the widthwise direction wherein: the leakage prevention walls (20) have a skin-side section (23) and a non-skin-side section (24) and are provided with a joined section (27) where at least part of the facing surfaces of the skin-side section (23) and the non-skin-side section (24) are joined to one another; the joined section (27) is provided to the inside relative to the tips of the leakage prevention walls (20) in the widthwise direction; the absorbent body (10) has a stretchy crotch section (15) which expands and contracts in the lengthwise and/or widthwise direction and is located in the center section in both the lengthwise and widthwise directions; at least parts of the joined section (27) and stretchy crotch section (15) overlap with one another in the lengthwise direction; and the joined section (27) is positioned to the outside of the stretchy crotch section (15) in the widthwise direction.

No. of Pages : 42 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/11/2018

(21) Application No.201827042669 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : TWO-DIMENSIONAL IMAGE DEPTH-OF-FIELD GENERATING METHOD AND DEVICE

(51) International classification :G06T7/00
(31) Priority Document No :201610244073.4
(32) Priority Date :19/04/2016
(33) Name of priority country :China
(86) International Application No :PCT/CN2016/098066
Filing Date :05/09/2016
(87) International Publication No :WO 2017/181575
(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)XU, Yaoling

(57) Abstract :
A two-dimensional image depth-of-field generating method and device. The method comprises: obtaining a target image performing image class classification processing on the target image to obtain a plurality of corresponding image classes and calculating a corresponding maximum definition value for each image class (S1); separately obtaining objects of each image class estimating definition values of the objects of each image class and classifying the objects of each image class according to the maximum definition value thereof (S2); estimating a depth value of the objects of each image class according to the definition values of the classified objects of each image class by means of a depth value estimation algorithm (S3); estimating a depth-of-field value of the objects of each image class according to the depth value of the objects of each image class by means of a depth-of-field value estimation algorithm (S4); and storing the depth-of-field value after correction and forming an image depth-of-field. The present invention resolves the problem in the prior art of image distortion occurring in obtaining a single-viewpoint depth-of-field. A depth-of-field is generated from a two-dimensional image to reduce image distortion improve image stability and satisfy user requirements.

No. of Pages : 54 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2017

(21) Application No.201721039399 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A HYDRAULIC DAMPER FOR A SUSPENSION SYSTEM

(51) International classification	:B60G 13/08 B60W 10/22 B60G 13/00	(71)**Name of Applicant :** **1)Endurance Technologies Limited** Address of Applicant :E 93, M.I.D.C Industrial Area, Waluj, Aurangabad- 431136, Maharashtra Maharashtra India (72)**Name of Inventor :** **1)Rahul Tribhuwan**
(31) Priority Document No	:NA	**2)Muragendra Magadum**
(32) Priority Date	:NA	**3)Onkar Nachare**
(33) Name of priority country	:NA	**4)Akshay Devikar**
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
A hydraulic damper for a suspension system 500 comprising an outer tube 210, an inner tube 200, a piston rod 50, a banded piston 170, a rod guide 90, a rebound stopper 100, two valves 120 and 160, two valve springs 110 and 150, a rod bush 130, a sleeve 140 and a rebound spring 180, wherein said rod bush 130 creates a hydraulic lock with said sleeve 140 at the end of rebound stroke of said suspension system 500. The rod bush 130 has two uniform internal diameter insertion area (CC1DE and E1F) for said piston rod 50, adjoined together by a chamfered area (EE1) and two orifices (BB1) each having uniform diameter from where hydraulic fluid enters a chamber (QP1PNMLQ) adjoined by sleeve 140 and said sleeve 140 has a uniform internal diameter area BC and two chamfered portions (AB and CD). Reference Figure 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2017

(21) Application No.201721039416 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : SELF SWITCHED ELECTRIC PLUG AND PIN.

(51) International classification	:H01H 67/00 H01T 13/04 H01H 63/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)SURESH PUNDALIK VAIDYA

(57) Abstract :
Conventional electrical Pin and Plug occupy the more space on wallboard and it need extra switch to ON or OFF the device. To avoid this ie the Space , Material and the Cost, this Pin and Plug have no need of extra switch and the position of the Terminal Pin will itself perform the function of the switch. Hence, it is more convenient to operate.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/12/2016

(21) Application No.201621043887 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A HYBRID OFFSET COMPENSATED LATCH-TYPE SENSE AMPLIFIER (HOCLSA) FOR TRI-GATED FINFET TECHNOLOGY

(51) International classification	:H01L 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	:NA
Filing Date	:NA

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(72)**Name of Inventor :**
1)MITESH LIMACHIA
2)DR. RAJESH A. THAKKER
3)DR. NIKHIL KOTHARI

(57) Abstract :
Invention reports a novel hybrid offset compensated latch-type sense amplifier (HOCLSA) for tri-gated FinFET technology. The HOCLSA follows three phase sensing procedure without causing any extra timing overhead in read operation of SRAM. With sensing voltage difference as well as current difference between the bit lines and bit-bar line, HOCLSA can latch the appropriate output within a smaller sensing delay. The offset compensation circuitry of HOCLSA comprises capacitors and current injection circuitry. The capacitors are used to compensate the VT mismatch between sensing transistors. Vj mismatch between input transistors is compensated using switching transistors kept between sensing and input transistors. Use of current injection circuitry of an offset compensation circuitry compensates the VT mismatch between switching transistors. Additionally, current injection circuitry is helpful to enhance the critical charge. The HOCLSA is implemented at 20nm technology and compared against recently reported capacitor-based voltage-latch type sense amplifier offset compensation technique (OCSA) and conventional current-latched type sense amplifier (CLSA). Simulation results show that HOCLSA achieves higher yield and improved offset tolerance as compared OCSA and CLSA. The sensing delay of the HOCLSA is comparable to CLSA and significantly smaller as compared to OCSA. The power consumption of the HOCLSA is higher than CLSA and smaller as compared to OCSA. HOCLSA requires smaller differential bit-line voltage (AVjn) to achieve targeted yield as compared to OCSA and CLSA. Simulation result demonstrates that the critical charge of HOCLSA is higher compared to OCSA and CLSA, making it more robust against radiation induced single event upset (SEU).

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201721035360 A
(19) INDIA
(22) Date of filing of Application :05/10/2017
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHOD AND DENTAL IMPLANT FOR GRAFTING PLATELET RICH FIBRIN (I-PRF) AROUND THE DENTAL IMPLANT

(51) International classification	:A61K 9/00 A61L 27/00	(71)**Name of Applicant :** **1)VIKHE, Deepak Macchindra** Address of Applicant :Department Of Prosthodontics, Rural Dental College & Hospital, PIMS(DU), Pravara Medical Trust, At/Post- Loni (bk) , Tal-Rahata, Dist-Ahmednagar - 413 736, Maharashtra, India. Maharashtra 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)VIKHE, Deepak Macchindra**
Filing Date	:NA	**2)YADKIKAR, Pushkar Shriniwas**
(87) International Publication No	: NA	**3)VIKHE, Geetanjali Deepak**
(61) Patent of Addition to Application Number	:NA	**4)BHANDARI, Aruna Jawarlal**
Filing Date	:NA	**5)SARAF, Veena Raghottam**
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
There are various technique of using platelet rich fibrin (PRF) around implant which s needs technical skill and practice for implementation. This present invention aims to explain a new implant design that disperses i-PRF solution from the inside out. The screw section of the new dental implant is made of a reservoir running vertically down the inside. That reservoir is filled with (Injectable) PRF, and then a cover screw is placed. The solution will begin to slowly diffuse out, through the vents in implant, keeping biofilms from forming or avoiding at the screw/bone interface and accelerate healing process. The dental implant (100) provides a compact fitment of the dental implant with gingival tissue can include the top portion having a polished collar region (108) to avoid plaque accumulation, a dotted collar region (110) for gingival tissue attachment, and a micro-threaded collar region (112) avoids crestal bone loss.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2017

(21) Application No.201721039710 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : MULTILAYERED CUBIC PUZZLE

(51) International classification	:A63F 9/00 F16H 61/00
(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

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2)Sameer Dubey
(72)**Name of Inventor :**
1)Dr.Alok Tiwari
2)Sameer Dubey

(57) Abstract :
Multilayered cubic puzzle is a novel puzzle to improve complexity of conventional cubic puzzles. Conventional puzzles have fixed pattern/illustration on faces which reduces complexity in puzzle. In multilayered cubic puzzle outer faces have been given floating patterns/illustrations. Pieces 10, 20, 30 have been developed which allow sliding motion to pieces above them while they could themselves shift their position along axis of puzzle. An Arrangement of multiple layers of sliding elements over shifting elements (as shown in Figure11) increases puzzle complexity.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2017

(21) Application No.201721039799 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : A FILLING AND DECANTING ASSEMBLY FOR FUELS

(51) International classification	:B65B 1/00 B65D 25/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)ANIL JAIN

(57) Abstract :
ABSTRACT A modular, tamper proof, filling and decanting assembly for a fuel container comprises of a cup insert assembly 150 having an operating valve 160 and a fly wheel 161 adapted to be made a fixture in an opening of the container 100. Further an operating rod 175 to be inserted in a cavity 162 in the center of the operating valve 160 that assists in rotation of the operating valve 160 due to the grooves locking the cavity in the center of the operating valve. A disc 164 is fitted above the flywheel which locks the contents of the container from either flowing in or flowing out and a closing means to be fitted to seal the container. A filling assembly 300 further comprising a filling spout 201, a decanting assembly 400 has a decanting spout 301 and both comprising air passage enabling a passage of air inside and outside the container 100 to provide a vacuum relief within the container 100, as liquid if filled and decanted.

No. of Pages : 34 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2017

(21) Application No.201723039619 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : METHODS AND SYSTEMS FOR SCALABLE ESTIMATION OF DEMAND RESPONSE

(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 :201721020446
Filed on :12/06/2017
(62) Divisional to Application Number :NA
Filing Date :NA

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2)VASAN, Arunchandar
3)NAGARATHINAM, Srinarayana
4)SARANGAN, Venkatesh
5)SIVASUBRAMANIAM, Anand

(57) Abstract :
Electrical utilities offer incentives to customers to reduce consumption during periods of demand-supply mismatch. Customers prefer a large incentive whereas a utility would want to minimize the revenue outflow to achieve a target reduction. Systems and methods of the present disclosure identify optimal incentive from the utilitys perspective reflecting this trade-off. In a huge population, collecting fine grained data about each building is too time consuming and impractical. A scalable model is generated using heating, ventilation, and air conditioning (HVAC) and lighting loads to estimate the demand response potential (DRP) of a building for a given incentive offered by the utility. Again, allotting non-uniform incentives to different buildings is more cost effective for the utility. However, for a large population, calculation of non-uniform incentives is computationally intractable. The present disclosure provides a heuristic method for computing the non-uniform incentives.

No. of Pages : 46 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/09/2018

(21) Application No.201827035892 A
(43) Publication Date : 10/05/2019

(54) Title of the invention : INTELLIGENT DEVICE-BASED FILE UPLOADING AND DOWNLOADING METHOD

(51) International classification :H04L29/08
(31) Priority Document No :201610835527.5
(32) Priority Date :20/09/2016
(33) Name of priority country :China
(86) International Application No :PCT/CN2017/070480
Filing Date :06/01/2017
(87) International Publication No :WO 2018/053975
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Disclosed is an intelligent device-based file uploading and downloading method. By obtaining a unique ID of an intelligent device and inputting the unique ID to a mobile device a communication connection is established between the mobile device and the intelligent device via a Proxy service such that the mobile device can download a corresponding file in the intelligent device via a Web service and the Proxy service and the intelligent device can also obtain via the Proxy service and the Web service a file uploaded by the mobile device. The intelligent device-based file uploading and downloading method of the present invention is not restricted by a network environment or an IP address does not need any specific connection command and thus solves the technical problems that the existing adb mode is restricted by the network environment and the IP address and that a USB flash disk is restricted by the connection command. The method is simple in operation convenient in use and wide in application scope.

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(54) Title of the invention : PROCESS FOR MANUFACTURING PULLULAN HARD CAPSULES HAVING IMPROVED FILM PROPERTIES

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(57) Abstract :
Process for manufacturing pullulan hard capsules having improved film properties The present invention relates to a process for manufacturing pullulan hard capsules having improved film properties. More particularly, the present invention relates to a process for manufacturing pullulan hard capsules having improved film properties by solving the problems, such as, sticky among pullulan hard capsules, storage stability and/or brittleness.

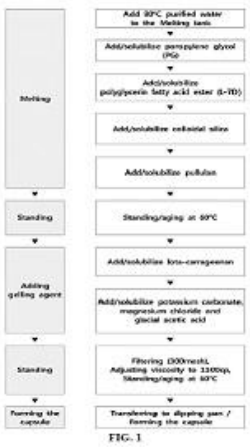

FIG. 1

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

CONTINUED TO PART- 2