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

25th AUGUST, 2017
<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>PAGE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>JURISDICTION</td>
<td>27580 – 27581</td>
</tr>
<tr>
<td>SPECIAL NOTICE</td>
<td>27582 – 27583</td>
</tr>
<tr>
<td>CORRIGENDUM (DELHI)</td>
<td>27584</td>
</tr>
<tr>
<td>CORRIGENDUM (MUMBAI)</td>
<td>27585</td>
</tr>
<tr>
<td>EARLY PUBLICATION (DELHI)</td>
<td>27586 – 27598</td>
</tr>
<tr>
<td>EARLY PUBLICATION (MUMBAI)</td>
<td>27599 – 27600</td>
</tr>
<tr>
<td>EARLY PUBLICATION (CHENNAI)</td>
<td>27601 – 27640</td>
</tr>
<tr>
<td>EARLY PUBLICATION (KOLKATA)</td>
<td>27641 – 27647</td>
</tr>
<tr>
<td>PUBLICATION AFTER 18 MONTHS (DELHI)</td>
<td>27648 – 27795</td>
</tr>
<tr>
<td>PUBLICATION AFTER 18 MONTHS (MUMBAI)</td>
<td>27796 – 27817</td>
</tr>
<tr>
<td>PUBLICATION AFTER 18 MONTHS (CHENNAI)</td>
<td>27818 – 28098</td>
</tr>
<tr>
<td>PUBLICATION AFTER 18 MONTHS (KOLKATA)</td>
<td>28099 – 28799</td>
</tr>
<tr>
<td>PUBLICATION U/R 84(3) IN RESPECT OF APPLICATION FOR RESTORATION OF PATENT (CHENNAI)</td>
<td>28800</td>
</tr>
<tr>
<td>PUBLICATION U/R 84(3) IN RESPECT OF APPLICATION FOR RESTORATION OF PATENTS (KOLKATA)</td>
<td>28801</td>
</tr>
<tr>
<td>PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (DELHI)</td>
<td>28802 – 28810</td>
</tr>
<tr>
<td>PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (MUMBAI)</td>
<td>28811 – 28813</td>
</tr>
<tr>
<td>PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (CHENNAI)</td>
<td>28814 – 28819</td>
</tr>
<tr>
<td>PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (KOLKATA)</td>
<td>28820 – 28824</td>
</tr>
<tr>
<td>INTRODUCTION TO DESIGN PUBLICATION</td>
<td>28825</td>
</tr>
<tr>
<td>CANCELLATION PROCEEDINGS UNDER SECTION 19 OF THE DESIGNS ACT, 2000 &amp; UNDER RULE 29(1) OF DESIGNS (AMENDMENT) RULES, 2008</td>
<td>28826</td>
</tr>
<tr>
<td>COPYRIGHT PUBLICATION</td>
<td>28827</td>
</tr>
<tr>
<td>REGISTRATION OF DESIGNS</td>
<td>28828 - 28894</td>
</tr>
</tbody>
</table>

The Patent Office Journal No. 34/2017 Dated 25/08/2017
# THE PATENT OFFICE
## KOLKATA, 25/08/2017

### 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:-

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<td>Phone: (91)(22) 24123311, Fax: (91)(22) 24123322 E-mail: <a href="mailto:cgpdmt@nic.in">cgpdmt@nic.in</a></td>
<td>4</td>
<td>Phone: (91)(44) 2250 2081-84 Fax: (91)(44) 2250 2066 E-mail: <a href="mailto:chennai-patent@nic.in">chennai-patent@nic.in</a></td>
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<td>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: <a href="mailto:kolkata-patent@nic.in">kolkata-patent@nic.in</a></td>
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**Website:** [www.ipindia.nic.in](http://www.ipindia.nic.in)  
[www.patentoffice.nic.in](http://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.
| कार्यालय | महानियतक, एकस्त, अधिकृत तथा व्यापार चिह्न, एंटोप हिल डाकघ से समीप, ए.स.एम. रोड, एंटोप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फैक्स: (91) (22) 24123322 ई. मेल: cgipdtm@nic.in | पेटेंट कार्यालय, भारत सरकार कालका, (प्रथम कार्यालय) वौद्धिक संपदा रचना, एंटोप हिल डाकघ से समीप, ए.स.एम. रोड, एंटोप हिल, मुम्बई- 400 037, फोन: (91) (22) 24137701 फैक्स: (91) (22) 24130387 ई. मेल: Mumbai-patent@nic.in आनवथ प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुतुच्चर राज्य क्षेत्र एवं संग्रह शासित क्षेत्र, लक्षदीप | पेटेंट कार्यालय, भारत सरकार प्रदेश से के नियुक्त यात्रा राइट्स विलिंग, इंडस्ट्रियल इंस्टेट एसाइजीसीओ आरएमडी गोडाउन एरिया एडजेंसनट इंग्लिश फलास्क, जी.एस.टी. रोड, गायनडी चेन्नई - 600 032. फोन: (91)(44) 2250 2081-84 फैक्स: (91)(44) 2250-2066 ई. मेल: chennai-patent@nic.in आनवथ प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुतुच्चर राज्य क्षेत्र एवं संग्रह शासित क्षेत्र, लक्षदीप | पेटेंट कार्यालय, भारत सरकार कालका, (प्रथम कार्यालय) वौद्धिक संपदा रचना, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत. फोन: (91)(33) 2367 1943/44/45/46/87 फैक्स/Fax: (91)(33) 2367 1988 ई. मेल: kolkata-patent@nic.in आनवथ प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुतुच्चर राज्य क्षेत्र एवं संग्रह शासित क्षेत्र, लक्षदीप | पेटेंट कार्यालय, भारत सरकार हरयाणा, दहभाचर प्रदेश, जम्भूताला, उत्तराखंड, उत्तर राज्य क्षेत्रों, एवं संग्रह शासित क्षेत्र चंडीगढ़ | वर्षासाइट: http://www.ipindia.nic.in www.patentoffice.nic.in पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वाचित सभी आवेदन, सूचनाएं, विवरण या अन्य दस्तावेज़ या कोई शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होगे। शुल्क: शुल्क या तो नगद रूप में या Controller of Patents के नाम में देने का क्रिया या चेक के द्वारा भेजता जा सकता है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित है।

![](http://www.ipindia.nic.in)
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 thereunder, Publication of the matter relating to Patents in the Official Gazette of India Part III, Section 2 has been discontinued and instead The Official Journal of the Patent Office is being published containing all the activities of The Patent Office such as publication of all the patent applications after 18th months, grant of patents & all other information in respect of the proceedings as required under the provisions of the Patents (Amendment) Act, 2005 and Rules thereunder on weekly basis on every Friday.

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

SPECIAL NOTICE

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

1) The Patent Application No. 201717002185 was published in the Official Journal No. 32/2017, dated on 11/08/2017. The correct Inventors for the Indian Patent Application 201717002185 are as:

1) HAUB, Christine  
2) HAUB, Dietmar  
3) STIENEMANN, Nico

2) The Patent Application No. 3651/DELNP/2012 was published in the Official Journal No. 22/2014, dated on 30/05/2014. The address of applicant should read as:

Hansaallee 243, 40549 Düesseldorf, Germany
CORRIGENDUM (MUMBAI)

The Patent Application No. 201621035097 was published in the Official Journal No.30/2017
Dated 28/07/2017

The names of the inventors should be read as 1. Chiman Premjiyani 2. Dharmendra Parmar.
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.201711027576 A
(19) INDIA
(22) Date of filing of Application :03/08/2017
(43) Publication Date : 25/08/2017

(54) Title of the invention : HIGH TEMPERATURE FIGURE OF MERIT MEASUREMENT SET-UP

(51) International classification :B22F9/04
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(31) International Application No :NA
(32) International Filing Date :NA
(86) International Application No :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
(62) Divisional to Application Number :NA
(62) Divisional Filing Date :NA

(57) Abstract :
The present Invention relates to the Figure of Merit Measurement Setup, which can perform the measurement at high temperature starts from room temperature. The low-cost and ability to measure all three parameters (Seebeck coefficient (a), thermal conductivity (K), and electrical resistivity (p)) simultaneously are the main feature of this setup. Use of minimal components and simple design make it compact and very user-friendly. This setup is used to find out the figure of merit (ZT) value of thermoelectric (TE) materials by measuring Seebeck coefficient (a), thermal conductivity (K), and electrical resistivity (p), simultaneously by using equation zf = a^2T/Kp, Where T is the mean temperature across the sample. The measurement is performed at various temperatures to find out temperature dependence behaviour of ZT. This measurement is required to characterize a newly developed thermoelectric material to find its utility and particular application areas. For examples, Bismuth telluride based TE material shows good ZT value near 400-450K, which indicate that these materials can be used in thermoelectric generator (TEG), which can perform well at this temperature. TEG consists of p-type and n-type thermoelectric beads connected electrically in series and thermally in parallel. The performance of these materials changes with temperature due to the temperature dependence behaviour of a, K, and p and perform well only at particular temperature range. The performance parameters of these materials indicate the heat conversion efficiency and proportional to the figure of merit (ZF) value.

No. of Pages : 25 No. of Claims : 9
Our Innovative Equipment is a prototype Equipment which is customized made for Used Leather Waste and following Waste. It will easily Recycle and reuse the Product. Innovated Prototype machine is able to Recycle the Following Waste i. Fresh Leather Scrap ii. Processed Leather Waste (Full Size Sheet or Leather scrap - Small Size) iii. Soft / Hard Leather (All type & Nature of Leather) iv. Used Leather Waster v. Used Shoe / Leather / PVC / Rubber/Polypropylene vi. Wet / Dry Leather Waste vii. Leather products viii. Leather & Mix Material product There is no requirement of Environment clearness or environment cerdficate. Novel prototype equipment has no stack for Smoke emission. There is no provision for Waste / Ash Discharge. There is no hole or any other output pipe. It is 100% sealed and covered. Only there is oudet which is locked and open after machine operation. There are many output product will be generated after Novel Prototype Equipment Recycle like: 1. Fossil Fuel (For Automobile / Generator Fuel) 2. Different Nature of Oil (Flammable / Non Flammable) 3. Leather Powder (Mesh Form) 4. Leather Sheet 5. Leather Cloth 6. Leather Cord for Leather Shaggy Carpet, Leather Accessories, Bag designing and Other Use 7. Leather Waste Flask, Vase, Designing items & Toys 8. Other Many products.
Title of the invention: PROCEDURE OF INACTIVATION OF ORGANISMS USING A HIGH PRESSURE TREATMENT

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Name of Applicant: GREEN LAB ANALYSIS & RESEARCH CENTRE PVT LTD
Address of Applicant: A-74, NARAINA INDUSTRIAL AREA, PHASE-1, NEW DELHI-110028, INDIA Delhi India

Name of Inventor: GREEN LAB ANALYSIS & RESEARCH CENTRE PVT LTD

Abstract:
The quality and safety of food products are among the most important factors influencing consumer choice in modern times and considerations most important for manufacturers and distributors of food products. Therefore, it is important that the food industry continue to look for more effective methods to reduce undesirable changes in foods associated with food processing, such as loss of color, flavor, texture, odor, and, most importantly, nutritional value. The high pressure process (HPP), also known as high hydrostatic pressure (HHP), is a relatively new non-thermal food process to subject foods (liquids or solids) to pressures between 50 and 1000 MPa. It seems that the final effect of the fat content in microorganisms. It is the sum of a baroprotector behavior HHP against a pressure damping effect and to avoid the exchange of substances between Extracellular space; And a barodestructivo behavior Against HHP: increased concentration Liposoluble substances with antimicrobial effect, the exchange of Triglycerides milk lipoprotein cells. Membrane microorganisms (altering the permeability thereof), and form fat crystals (mainly at low temperature During HHP treatments). The final effect of Fat content seems to be influenced by the conditions HHP treatments (mainly temperature and pressure), Microbial strain, percentage of body fat and animal species Milk fat. Inactivation of vegetative microorganisms in HHP. It is strongly influenced by the composition of the media Or food. Thus, the differences between the inactivation of HHP in buffer micro-organism systems and real food systems You must study. We believe that by following. The search for Pressurization combined with Other synergistic treatments or processes, pressure. It can be a good alternative to pasteurization. Studies To determine the effect of HHP in other microorganisms In sheeps milk on microbial inactivation For our group, and also the effect of Milk components.

No. of Pages: 6 No. of Claims: 3
The urban fronts are the centers of many cities. These water fronts began as centers of commercial transportation, manufacturing facilities and commercial areas. However, as the bulk transported transport for container transport and manufacturing moved out of the cities (for various reasons), old industrial boundaries have become large tracts of unused properties. Aboard the water is a region along a river; Often, in large cities bordering a river, the river will be aligned with marinas, docks, parks, trees or minor attractions. Today, most streams are a staple of modernism and embellishment of the city. Recreational activities promoted on the flanks usually include shopping centers, boat trips, theme parks, restaurants, walking facilities and parking on the pavement and invaded the river bed. Each project river speaks about the economic beautification of the river, but none focuses on improving their status and ecology.

No. of Pages : 13 No. of Claims : 8
Whether prepared in a restaurant or sold in grocery stores, consumers want to know that their food is safe. This is the laboratory analysis of food laboratories, food tests in general, as well for pathogens, such as bacteria and chemicals and small molecules, such as antibiotics and pesticides. In general, clients decide which test compounds are based on risk, or most likely for a particular type of food. Often, this coincides with compounds that are regulated for a particular food. For example, global marketing of food and environmental markets, with fruits and vegetables, people try pesticides but not antibiotics. In addition, the meat is swept for antibiotics or bacteria. Targeted assays can be performed using precision mass spectra and relatively low low mass. Detection equipment requires a higher resolution not selective (and usually more expensive), it is essential to detect low levels of contamination. The analytical research in laboratory medicine, pharmacology, environmental biology of molecular biology and qualitatively or quantitatively measure the presence, quantity or functional. The analyte can be a drug, a biochemical, or a cell in an organism or a biological sample. The entity is generally referred to as the analyte, measurand blank or assay. The assay is generally intended to measure an intensive property of the analyte and expressed in the appropriate units (such as molarity, density of functional activity in international units of enzymes, some degree of effect with respect to one Pattern, etc.). If the test involves the addition of exogenous reagents (reagents), the amounts remain fixed (or excess) so that the quantity (and quality) of the target is the only limiting factor for the reaction / test process and difference In the test result is used to calculate the unknown quantity or quality of the target in question. Some assays (eg, biochemical assays) may be similar or overlap with chemical analysis and titration. But in general, tests involving biological material or phenomena that tend to be intrinsically more complex, either in composition or behavior or both. Thus, reading a test can be quite strong and may involve greater difficulty in interpreting a precise chemical titration. In addition, qualitative tests from the previous generation, in particular biological tests, can be much more coarse and less quantitative (eg, by counting death or dysfunction of an organism or cells from a population or Descriptive changes somewhere in a group of animals).

No. of Pages : 20 No. of Claims : 3
A fingerprint module, a method for fabricating the same, and a mobile terminal having the same are provided. The fingerprint module has a cover plate and a fingerprint chip. The cover plate has an inner surface. The fingerprint chip is heat-pressed on the inner surface by adhesive, such that the adhesive fully contacts the cover plate and the fingerprint chip. The method includes after heating the adhesive which is coated on the inner surface of the cover plate, laminating the fingerprint chip on the adhesive, such that the adhesive fully contacts the cover plate and the fingerprint chip.

No. of Pages : 26 No. of Claims : 10
(51) International classification : G01N21/17
(31) Priority Document No : NA
(32) Priority Date : NA
(33) Name of priority country : NA
(86) International Application No : NA
   Filing Date : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
   Filing Date : NA
(62) Divisional to Application Number : NA
   Filing Date : NA

(57) Abstract :
In the center of any object, when energy flows through the surface then due to dense in the way a force is applied on its molecule which is proportional to temperature of the object and inversaly proportional to pressure of the object and accelerated towards the direction of the force in energy and molecule. Formulae: TEMPERATURE= CONSTANT FORCE/PRESSURE

No. of Pages : 4 No. of Claims : 7
Title of the invention: AGITATOR DESIGN FOR GENTLE CLEANING ACTION FOR TOP LOAD WASHING MACHINE

Abstract:
A gentle action agitator for a top load washing machine is characterized by an agitator comprising a vertical post having circumferentially, a plurality of blades in radial direction or inclined to radial direction and nozzles in between. The agitator is rotatably integrated at its bottom with a low profile pulsator. The agitator assembly is connected to power transmission system, located immediately below the wash tub. The barrel of the agitator at its bottom, below the power transmission coupling, is connected to a high-pressure delivery system, comprising of high-pressure water pump, pressure delivery pipes and control valves, to deliver high pressure water or cleaning fluid inside wash chamber through nozzles present on the agitator post. The impact of high pressure water jet or cleaning fluid from nozzles on rotating clothes enhances wetting action and improves tumbling of clothes besides preventing clothes from the damage due to agitator blades.

No. of Pages: 18 No. of Claims: 7
Title of the invention: AN OPTICAL DEVICE TO CALCULATE NITROGEN CONCENTRATION IN LEAVES

Abstract:
The current invention involves a novel imaging device that can calculate the concentration of nitrogen in the leaves, by correlating the nitrogen in leaves and the value of average NDVI calculated by the device itself. The device comprises of light sources of its own and therefore accounts for consistency in its working, providing reliable results. The circuitry of the device accounts for the sensitivity variations of the image sensor for different wavelengths. The NDVI parameter has thus been modified to include such compensations.

No. of Pages: 6 No. of Claims: 8
**Title of the invention:** FUEL TANK CAP ASSEMBLY

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**Abstract:**
A fuel tank cap for covering opening of the fuel tanks in vehicles, power generators etc. is disclosed. The fuel tank cap assembly of the present invention provides an effective sealing apparatus which complies with the evaporative emission control system norms (EVAP) by preventing leakage of the fuel even at high pressure and is comprises of a holder plate, a stator, a gasket and a plurality of fasteners. The fasteners are used to grip the stator, the holder plate, stator and the gasket with each other.

No. of Pages: 14 No. of Claims: 5
Title of the invention: SEALED STRUCTURE FOR AN EXTERNAL SOLAR RECEIVER IN A TOWER OF A CONCENTRATED SOLAR POWER PLANT

Abstract:
An external solar receiver for the tower of a thermodynamic concentrated solar power plant of the type having a tower and a field of heliostats, said tower comprising a windproof internal modular structure, also referred to as a casing and a plurality of receiver panels (25) with heat exchanger tubes (20) attached to said internal structure, each panel (25) comprising a plurality of metal casings (1) supporting the heat exchanger tubes (20) and assembled together by an assembly means allowing dismantling, each casing (1) being covered with a thermal insulation (4) via an anchoring means (5), characterized in that the tubes (20) are rigidly attached to the casings (1) by a floating connection means that can be dismantled.

No. of Pages: 13 No. of Claims: 10
(54) Title of the invention : SLIDERS FOR ZIPPERS

(51) International classification : B31B19/90
(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 :
Described herein is a non metallic slider assembly for slide fasteners. The non metallic slider assembly comprises a puller 102 comprising a first puller pin 104 and a second puller pin 106, thickness of the first puller pin 104 and the second puller pin 106 in transverse direction (t) is less than the thickness in longitudinal direction (l), length x of first puller pin 104 is lesser than the length y of the second puller pin 106, the lengths x & y being interchangeable on the puller pins 104 & 106 and a slider body 100 comprising a slot W for receiving the puller 102 therein. The slider body 100 and the puller 102 are configured to be assembled together without using any machine and permanent deformation of the either parts.

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

Our motor controller system for dc power source motors is an advanced 60 V 30A module which is stellar in comparison to other EV controller modules of 48V available across India in terms of sensor device and series of MOSFET devices that operates to measure and generate a voltage signal from the motor current and the rate of change of said current which in, and a programmable input/output processor which receives voltage signals as input from the motor current, dc power source and/or motor and compares on or more of these voltage signals to one or more control parameters. Based upon these comparisons, the processor generates a pulse width modulation control signal, which triggers a switching mechanism and related interrupt service routing to make adjustments to the operational parameters of the motor by periodic interruption of the motor current. Previously designed controller had no feedback mechanism on how to manage battery parameters and motor torque which in turn is designed by OKINAWA SCOOTERS that measures the impact of loads on a motor and its battery at specific instances and, through application of an algorithm and related control parameters, calculates the necessary adjustments to motor speed and torque and corresponding battery use to maximize motor efficiency and extend battery life. Another edge over other EV motor controller is the availability Regenerative braking system (RBS) in the motor controller that performs regenerative energy recovery upon applying brakes thereby providing improved performance, efficiency and reliability at minimal additional cost. An arithmetic variable velocity prelabeled value is presented, in order to solve regulating rotate speed in large range accurately.

No. of Pages : 4  No. of Claims : 1
Title of the invention: RATCHET LOCKING SEAL WITH ENCAPSULATED INDICES

Abstract:
A ratchet locking seal with encapsulated indices comprises of an Anchor socket with bidirectional locking and complete locking system where by a flimsy rib with the anchor breaks when complete locking is achieved and a Capsule which ensures uniform locking with simple hand pressure and additional collar to ensure tamper proof feature. This has a three stage of locking system namely first, second and complete stage, where in the, complete locking is further achieved by breaking of flimsy rib which ensures bi-directional locking.

No. of Pages: 19 No. of Claims: 5
The present invention relates to a solar energy concentrator which is economic, simple to fabricate, affording facile field installation and maintenance. The said solar concentrator system is provided with shape frames (1) prepared from single sheet of metal and cut to form parabolic slit to hold the plurality flat reflective strips (8) in troughs, thereby avoided the use of single sheets of curved glass and hence major cost is reduced. Moreover, this mounting system is also easily installed, dismantled for transport. Fig. 3. Dated this 12th day of December 2016

Poonam Dhake Kolhe Of In10gible Innovations LLP Applicant™s Agent

No. of Pages : 21 No. of Claims : 12
Title of the invention: NOVEL PROCESS FOR PREPARATION OF IDELALISIB

Abstract:
The present invention provides the process, for preparation of idelalisib or a pharmaceutical acceptable salt thereof using novel intermediates.

No. of Pages: 23 No. of Claims: 10
(54) Title of the invention : EXTRACTIN OF ASTAXANTHIN FROM SOLENOCERA MELANTHO

(51) International classification :C08B37/003
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
(87) International Publication No :NA
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Filing Date :NA

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3) CHALLA, Murali Mohan

(57) Abstract :
Extraction of Astaxanthin from Solenocera melantho• ABSTRACT: The present invention discloses economically viable process for extraction and isolation of Astaxanthin having antioxidant activity from waste of marine source Solenocera melantho shrimp using environmentally sustainable green solvent.

No. of Pages : 18 No. of Claims : 8
**Title of the invention:** PREPARATION OF ENRICHED QUERCETIN TETRA METHYL ETHER EXTRACT FROM SAUSSUREA OBVALLATA AND COMPOSITIONS THEREOF

| (51) International classification | :A61K31/353; A61K31/593; A61K33/06 |
| (31) Priority Document No | :NA |
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| (33) Name of priority country | :NA |
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**Abstract:** Preparation of enriched Quercetin Tetra Methyl Ether extract From Saussurea Obvallata and Compositions Thereof. The present invention discloses a process for preparing enriched extract of Quercetin teramethyl ether having antioxidant and anti-cancer activity from Saussurea Obvallata and to the compositions thereof.

No. of Pages : 19 No. of Claims : 5
Title of the invention: NON ASBESTOS SANDWICH PREFABRICATED PANELS WITH IMPROVED WET STRENGTH AND SOUND INSULATION AND MANUFACTURING PROCESS THEREOF

Non-asbestos based sandwich prefabricated panels a pair of having high wet strength facings with a light weight concrete core sandwiched between the facing sheets wherein the light weight concrete core is made up of water 30 to 60% of total weight of the mix(w/w), 0.05-0.5% of an aerating agent such as aluminum powder, 0 to 20% of low density aggregate exfoliated vermiculite and/or perlite, 0 to 70% of pozzolonic material such as pulverized fly ash, 0-4% modified/unmodified wollastonite, 0-4% cellulose fibers (jeans/cotton), 0-2% high modulus reinforcing fibers such as PET, PP, PVA, carbon fibers etc and remaining is Portland cement.
The present invention discloses a wireless headset or earphone designed economically utilizing a poly propylene material with maximum flexibility and having a surface shaped to conform to the users neck region dorsal to the axis vertebra for the sleek fitment to the ear lobes and the neck region. The said headset is designed with the Bluetooth transceiver for integrating with the wireless communication devices and for enabling the seamless transfer of the audio files from the said wireless communication device and the real time execution of the playlists stored in the said communication device through the said paired headset. The device is further designed to incorporate a re-writable memory source of pre-determined capacity for storing the audio files received from the wireless communication device and the compatible devices, a digital signal processing unit for processing the signals from the memory for the execution of the audio files, a re-chargeable power source which could be energized through the ports, a data cum energy transfer port in communication with the stored memory and the in-built power source, a plurality of user controls for adjusting the volume of the decompressed audio, for pre-setting the sound effects, for switching between the audio player and the FM player and for controlling the playlist selection and a micro controller unit including the integrated chip 2825 for controlling and processing the signals from the audio codec, Bluetooth transceiver, memory devices, data transfer ports, power source and the FM receiver. FIG.1

No. of Pages : 23  No. of Claims : 10
Title of the invention: ECO TRANSPORT SYSTEM FOR SMART CITY

Abstract: Transportation system is a rudimentary part of logistics and strategy where vehicles are used to pass items or people from one place to another. Transportation system is planning tends to have several objectives, which customarily include: Traffic congestion reductions, improved safety for human lives, Energy conservation and Protect the Environment. Now in existing system, the delay of respective lights (GREEN and RED lights) is hard coded into controller and not dependent on traffic density so it causes to increase Traffic congestion (problem-1), existing traffic system is Unable to make a free path for emergency vehicles like ambulance (problem-2) and lighting technology on highway or streets leads to wastage of energy due to unnecessary glowing of street lights while absence of vehicle on roads (problem-3). I would like to propose Eco Transport System for Smart City to solve above mentioned existing problems. This work focuses on the algorithm for switching the traffic lights according to vehicle density (specially designed density sensors) on road, thereby aiming at reducing the traffic congestion on roads which will help lower the number of accidents. In turn it will provide safe transit to people and reduce fuel consumption and waiting time and this work focuses to provide communication between emergency vehicles and traffic signals to create a green corridor intelligently. Power wastage in street lights can be eliminated by employing smart street lights which senses the need of illumination and provide good visibility, safety and comfort to the vehicles/pedestrians at late hours. This is achieved by autonomous operation using Electronic Controller and HMI (Human Machine Interface), which is energy efficient and highly reliable. The entire traffic data will be made available on internet using a web application. Hence any driver who has access to these data can make decision on which lane to choose, helping him to choose a less busy road and reach the destination on time. Here this application is not communicated with the any Google Maps. Mainly this work is aimed at designing and implementation of an automatic system where in the traffic congestion is reduced and wastage of time is greatly reduced by accessing it through android app. Lives at risk can be saved by giving more importance to emergency vehicles that which shows efficient traffic management system and reduces risks and this work significantly reduces power consumption caused by street lights. Keywords: Eco, Intelligent, density sensor, Traffic congestion, internet.

No. of Pages: 10 No. of Claims: 14
A new training system and method for industrial requirement through collaboration of professional practitioners, institutes and other experts is disclosed to impart training to students, working engineers, experienced engineers and the like in different domains, software tools and area of disciplines and develop new training programs based on industrial requirement. The system provides registration to the participants according to their respective domains. The system comprises different offline and online programs such as multi domain program; specific domain program, advanced design & analysis program, customized domain program and the like to train candidates on the tools, domains and the like which are current requirements of a company. The system offers courses to students, engineers, freelancers, liaisoning between companies with membership. The HRs of the system to conduct exams, interviews for the participants and certification tests to award a certification. The system provides database for the registered members to upload and store the documents, files, materials, project works and thereof which can be accessed by companies during requirement. The companies or industries can recruit the graduates with certification by analyzing their overall performance, skills as per the job requirement.

No. of Pages : 38 No. of Claims : 8
The present disclosure provides a system and a method for real-time creation of stock area and efficiently associating the stock area with other stock areas. Aspects of the present disclosure relate to a method and system for automation and/or artificial intelligence to create a stock area in real-time and associate the stock area with one or more material products associated with one or more other stock areas to place an order or a demand of the material products. Further, the present disclosure relates to a method and system to allocate a unique identification (UID) for the stock area created, and automatically update the user on parameters selected from any or combination of availability of the other stock areas, non-availability of the other stock areas, availability/non-availability of the one or more material products in the other stock areas, and location of the other stock areas.
Title of the invention: SMART STEERING WHEEL

International classification: B60R 21/02, B62D 1/00

Priority Document No: NA
Priority Date: NA
Name of priority country: NA

International Application No: NA
Filing Date: NA

International Publication No: NA

Divisional to Application Number: NA
Filing Date: NA

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Name of Inventor: 1) Dr. N. Manoharan

Abstract:
ABSTRACT SMART STEERING WHEEL A system for avoiding of accidents due to the dozing off of the driver of an automobile is disclosed. Thin strips containing multiple layers of conducting foil are installed in the rim of the steering wheel, such that any pressure on the wheel is sensed by means of an electrical short generated at the point of pressing the wheel. An onboard microprocessor, senses these shorts and establish a typical normal driving pattern. Whenever a deviation from this normal pattern is detected, the microprocessor generates an alarm to alert the driver.

No. of Pages: 7 No. of Claims: 3
The present invention encompasses a Vehicle Unit (VU) fastened to the rear view mirror of the vehicle to transmit the programmed information as Radio Frequency (RF) signals to the Road Unit (RU) at Toll Plaza till a positive acknowledgement is received. More than one RUs are available in every Toll Plaza to allocate a channel for communication for every vehicle crossing the Toll Plaza in such a way that the information from VU is captured even if the vehicle passes at a high speed. RUs in Toll Plaza are wired with a Toll side Web Server (TWS) which maintains the history of vehicles crossing the Toll Plaza. Information pertaining to the vehicles like owners information and bank account number are maintained in a centralized database. Based on the type of vehicle TWS facilitates automatic deduction of Toll amount from the vehicle owners registered bank account and sends an acknowledgement back to the vehicle owner.

No. of Pages : 48 No. of Claims : 16
The device named as Half-hemisphere shaped concave reflector reflecting sunlight on absorber along its middle vertical diametric plane is a solar thermal energy collection device. It relates to Physical Sciences. The device comprises of a half-hemisphere shaped sunlight reflector capable of specularly reflecting most of incident sunlight towards its vertical diametric plane which contains the instantaneous position of Sun and center point of curvature of the reflector, and provided with means for its orientation towards Sun, a detachable means for solar thermal energy absorption fitted to said reflector at its mid-width along its vertical diametric plane, to serve the purpose of intercepting and absorbing thermal energy of sunlight incident on it, and two detachable mirrors in the shape of segments of circles suitable for opening and closing of bottom end apertures of said reflector, for re-reflecting sunlight moving outwards along the region adjacent to absorber towards the absorber.
TITLE: DESIGN OF SEA BALL FOR MARITIME SECURITY

ABSTRACT: Design of SEA BALL for Maritime Security. Maritime coastal security is of utmost importance as it affects a nation’s safety. Threats such as illegal fishing, drug trafficking and infiltration can be avoided by deploying a floating spherical surveillance robot called as SEA BALL. The SEA BALL collects real time data from the ocean using its surveillance camera, environmental sensors and transmits the collected information to a remote monitoring station. Thin-film solar cells and linear generators are used to power the SEA BALL. ARM cortex main processing unit controls the functions of entire SEA BALL and also helps to communicate to remote region using GSM/GPRS network. The outer surface of SEA BALL is covered by neoprene polymer sheets with ferrite grains which give stealth mode to the SEA BALL from radar.

No. of Pages: 12  No. of Claims: 3
ABSTRACT REMOTE OPERATED UNDERWATER VEHICLE FOR MARINE SURVEILLANCE

Underwater robot is an advanced method for executing the works of humans in sea. It will be an appealing alternative for the present human surveillance system. Maritime industry’s most important concern is safety. At present the ships exterior damage is assessed manually by humans. The proposed system provides an underwater robot technology and its application is the capability of moving the robot in any direction. To achieve this six motors have been provided to move the robot in any directions.
Title of the invention : SELF DISSOLVING SENSOR

Abstract:
ABSTRACT SELF DISSOLVING SENSOR A human implantable sensor that is capable of dissolving of its own after the end of a time period is disclosed. This self dissolving sensor is able to record required data and transmit the same to a remote electronic device.

No. of Pages : 5 No. of Claims : 1
Title of the invention: SOLAR WALL PAPER

Abstract:
ABSTRACT SOLAR WALL PAPER A flexible and thin solar strip made from copper and graphene based solar material is disclosed. This solar strip in the form of a tape is very thin and is capable of being pasted on the walls of a building. These strips generate power when light falls on these solar strips, which can be stored in a rechargeable battery and used later.

No. of Pages: 5 No. of Claims: 2
Title of the invention: TIME MANAGEMENT SYSTEM FOR PROVIDING BENEFITS AND METHOD EMPLOYED THEREOF

Abstract:
Exemplary embodiments of the present disclosure are directed towards a time management system and method for contributing benefits. The time management system comprising a service platform configured to contribute a plurality of benefits to a plurality of consumers for spending time with a plurality of merchants based on specified time intervals, the plurality of consumers are permitted to provide a plurality of credentials to the service platform. The time management system further comprising a plurality of computing devices configured to allow a plurality of actions with the plurality of merchants on the service platform by the plurality of consumers. The service platform is configured to generate a plurality of notifications to the plurality of computing devices for spending time with the plurality of merchants based on the specified time intervals. The plurality computing devices comprising the plurality merchant computing devices and the plurality of consumer computing devices.

No. of Pages: 20 No. of Claims: 10
The present invention is ergonomically designed to reduce the drudgery which reduces the pressure and physical force on the shoulders and elbow joints and to increase the weeding efficiency. Weeding is a strenuous activity in which the women have to remain in the bending and squatting postures for whole day (7-8 hours) putting all pressure on knees and back where heart and pulse rate raises to an extent of 110 to 115 beats/minute. The embodiment is an improved manually operated spiked rotary weeder as claimed in any of the preceding claims suitable for weeding operations and consists of rotary reel discs (1) consisting of triangular spikes (3) positioned on horizontal bars (2) angularly adjustable V- blade (9) for cultivating, tilling, aerating and mulching operations in soils.
Title of the invention: METHOD FOR STORING DATA IN A NOVEL DATA STRUCTURE IN COMPUTER PROGRAMMING LANGUAGE

Abstract:
Present invention relates to a method for storing data in a novel data structure in computer programming language for reducing space and time complexities for operations such as searching, sorting and traversal etc. The novel data structure provides a new way of representing data in data structures with two nodes such as left and right node from an initial node. Plurality of nodes consists of binary values (0 and 1) instead of data values in existing trees. All operations such as searching, sorting and traversal etc can be performed in lesser time compared to existing trees.

No. of Pages: 13 No. of Claims: 3
Title of the invention: A FOLDABLE HEAT CONTROLLING HEAD GEAR

Abstract:
Present invention relates to a head gear which is capable of controlling temperature of the inner surface touching the head of wearer, thereby controlling infections related to skin and hairs. In another aspect of the invention, the head gear is foldable thereby making it easier to carry along. The head gear comprises a system for spraying of mist through its inner layer, thereby improving hair growth. The spraying mist is controlled by a sensor which detects the temperature of the inner surface of the head gear thereby sending information to a controller for initiating the spraying mechanism. The head gear comprises folding sections, thereby reducing the volume by up to 50%. This makes the head gear being more easy to carry by the wearer.

No. of Pages: 13 No. of Claims: 8
Title of the invention: PLANAR MICROWAVE SENSOR FOR FRACTURE DETECTION IN HUMAN BONES

Abstract:
A novel portable system for the non-invasive detection of fractures in human bones has been presented. A planar microwave ring resonator has been used as the sensor. The proposed planar microwave sensor was designed using Finite Integration (FIT) based CST Microwave Studio and tested on a human bone covered by porcine tissues. Fracture induced on the bone was detected by monitoring the transmission characteristics of the sensor when it externally scans the affected region. The resonant frequency of the ring resonator has been observed for every scan distance and the values are plotted using image resampling algorithms. The extent of fracture was then derived from the image. The accuracy of the proposed method was found to be 98.86% using Lanczos imaging technique. The microwave power absorbed by the body during testing is kept well below the acceptable level hence making the testing process safe for the patient. The work presented shows that microwave planar sensors have the capability of detecting fractures of the tibial bone at a very early stage. Portable, non-invasive monitoring of fractures of the tibial bone will help in immobilizing the affected part at an earlier stage, thereby reducing the recovery time for patients.

No. of Pages: 11 No. of Claims: 9
Title of the invention : AN ADVANCED FIRE PREVENTION SYSTEM AND METHOD THEREOF

Abstract:
The present invention provides an advanced fire prevention system (100) which provides a wholesome fire prevention solution to enclosed spaces while keeping the atmosphere inside the said enclosure of breathable standards for human safety. The present invention provides a holistic protection by preventing fire to ignite from within as well as protection from fire from the outside. The advanced fire prevention system (100) is fail safe and encompasses additional safety measures to ensure fail proof operation and can also be applied to a multi-room set-up. (Figure to be published along with the abstract: Figure 1)

No. of Pages : 17 No. of Claims : 15
The general hydraulic cylinders principal generally based upon Pascal law that which can be used in different applications which is carried out by high power engines but the hydraulic cylinder and motor pump which I designed is based upon two laws they are Newtons 1st and 2n law in terms of designed hydraulic cylinder and motor extension pump and second law is Pascal law. This is designed by the inspiration mechanism of Archimedes screw type model. From based upon these two laws the new design of hydraulic cylinder and motor pump is carried out. According to the Archimedes screw the internal design of the hydraulic cylinder and motor pump model is designed. From the Pascal law the path movement of the piston and the nominal transmission of fluid pressure in hydraulic cylinder and motor pump is calculated and Designed with extension formulae of law of motion of inclined plane as per Newtons laws. From the Newtons first law in terms of my design and application mass and rotational inertia is calculated to improve the performance and to adjust the uniform mass of the hydraulic cylinder and motor pump. From the Newtons second law: In terms of my design and application the torque in footpounds or newton-meters, the movement of inertia, angular momentum of the motor, linear momentum of piston in hydraulic cylinder (Here the principle involved is inclined plane of motion).And force exerted by the piston in hydraulic cylinder by the psi we applied etc...calculations accordingly design is exhibited. The motor which considered here is torque, speed, direction of spinning and break headed autonomously controllable by design circuit controlled motor that which programmed, the motor that exhibits various of torques as per the programmed controlled signal and this motor has the extension of pump that which this designed usually amplifies the psi it get this whole pump actually worked upon the principle of injection that which creates vacuum to sucks the hydraulic oil from the hydraulic tank and from the other end of the hydraulic cylinder we collect the hydraulic oil into that tank. The hydraulic cylinder that which has the different oil inlet system that which has the four screwed dc motors that which is used for blocking of a hole and also to unblock a hole to send the oil or blocking of oil to send hydraulic oil to another hole of a system .Here the hydraulic cylinder that which has the minor piston and the major piston accordingly the minor piston that which was in the hydraulic cylinder and the major piston which acts as a extender to the hydraulic cylinder that which if extends occurs it will appear as like normal hydraulic cylinder. In design of hydraulic cylinder and motor functionality of hydraulic cylinder and motor is in a unique way that other hydraulic cylinder and motor existing is working. The functionality, formula and performance is totally depends on design of a system. According with the Pascal law in terms of my extended pump turbulence gears are moved uniformly with the same psi of hydraulic oil pumped that pumped by the dc metallic gear motor, so by this the nominal hydraulic oil psi will be incremented that depends upon the design angle of the grooves square cutting edges and there dimensions respectively. By these designs we can get the following advantages they are Low hydraulic oil usage, Low battery power usage ,No diesel and engine oil usage Low processing time, Low resistivity and friction ,Low massive weight of the motor and exhibits high psi of hydraulic oil into hydraulic cylinder with only the battery power usage. By these are all the advantages we can lead to manufacture new model jcb's, cranes also in all commercial home and industrial appliances. By this modification of hydraulic cylinder and motor pump the small jcbs, Crains are built for some extreme purposes.

No. of Pages : 24 No. of Claims : 8
ABSTRACT: Background: The present invention relates to the development of a cost effective digital pain assessment instrument applicable for a wide range of population viz. normal, visually, hearing and speech impaired individuals. The ability to measure pain objectively forms an important part of health care, both in chronic health monitoring and in acute settings, to determine changes in patient clinical presentation and the effectiveness of interventions aimed at alleviating pain. Objectives: The objective of the present study was to find validity and reliability of the pain assessment instrument (PAIN-NVHS) for normal, visually, hearing and speech impaired individuals. Methods: Participants (n=40) with pain were randomly allocated to any of the four groups (normal, visually, hearing, or speech impaired) and the intensity of their pain level was examined with visual analogue scale (VAS) and PAiN-NVHS scores which were recorded by 2 therapists. Results: Karl Pearson analysis and Cohen's Kappa statistics showed excellent correlation and agreement between VAS and PAiN-NVHS scores as recorded by 2 raters in all the four groups implying excellent validity and inter rater reliability of PAiN-NVHS when compared to VAS. Conclusion: The PAiN-NVHS is a valid and reliable tool to assess the pain level in normal (all sensations intact), visually, hearing and speech impaired individuals. Hence this cost effective digital instrument can be utilized in clinical settings to record the pain in patients with a variety of impairments.
The present disclosure relates to a dielectric fluid composition having improved negative gassing tendency. The composition comprises a type A base oil composition, a type B base oil composition and one or more additives selected from an additive package present by weight in a percentage range of about 0% to 4% of the total weight of the dielectric fluid. Also, the dielectric fluid has an improved negative gassing tendency in a range of about -150 mm³/minute to -160 mm³/minute. Also, the detail composition of the dielectric fluid is disclosed.
Title of the invention: SMART HOME AUTOMATION INTEGRATED WITH AUTOMATIC CAR LOCK SYSTEM

Abstract:
An intelligent or smart car locking system enables the working women or common people with less tension when they leave their home while for office. Most of the time, during the peak hours, working women close their home door with lot of tension. They are not able to check and verify the following things leisurely: Closing the gas cylinder, bathroom lights status, switching off the lights and fans of the room etc. These jobs can be wirelessly monitored and given indication to the working women once they get into the car or in the office bus through the smart phone. In addition to this, things like the car insurance, RC book and license of the vehicle has to properly updated and kept inside the car. This car locking system will also monitor those things mentioned above and it will indicate the user through warning signal or indicating light signal. For instance, if the car insurance is not done, it will inform the drivers at regular intervals during the travel by verifying the expiry date of insurance. This can provide hassle free travel and an easy way to obey the traffic police with proper response without wasting their time.
The Patent Office Journal No. 34/2017 Dated 25/08/2017

(54) Title of the invention : A COLLAPSIBLE ELECTRONIC STORAGE HOUSING FOR TWO WHEELER

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(57) Abstract :
This invention relates to collapsible electronic storage housing for two wheelers for saving space on the two wheelers. The collapsible electronic storage housing 100 for two wheeler comprising: a front side 101; wherein said front side comprises a plurality of permanent magnets 109; a back side 102; wherein said back side comprises a plurality of electromagnets 107 and a processor 103; and a three-way switch for either locking-in compression, expanding, or locking-in expansion stage to said collapsible electronic storage housing by said processor 103. The collapsible electronic storage housing 100 further comprises a handle 106, springs 104, and hinges 108. The springs 104 and hinges 108 are connected between the front side 101 and the back side 102 of the collapsible electronic storage housing 100.

No. of Pages : 16 No. of Claims : 9
A novel compound reconfigurable array for worldwide interoperability for microwave access (WIMAX) and wireless local area network (WLAN) applications is presented. Firstly, a compound reconfigurable unit cell-element loaded with PIN diodes has been analyzed. By controlling the states of the pin diodes loaded on the radiator parasitic elements and feed lines, the unit cell can capable of switching between slot and patch antenna, thus the corresponding fundamental properties of antenna like frequency, pattern and polarization of the single cell can be electronically tuned. In one case slot antenna alone exited with the feed tines of 0° and 90° phase difference to achieve pattern reconfiguration between bidirectional to unidirectional and also switching polarization between linear to circular for WIMAX applications. In other case the patch is excited with single feed to achieve pattern tilting at 0° and ±30° with the help of parasitic elements and also circular polarization is achieved for WLAN applications. The gain of 4dBi for slot state and for 5dbi for patch state. Furthermore the unit cells are implemented in phased array and their gain and directivity performance improved twice. The reconfiguration is achieved by changing the bias states of 5 PIN diodes. Also exhibits cross polarization discrimination (XPD) greater than 15 dB in all the operating modes.
Title of the invention: PROCESS FOR THE PREPARATION OF CARBAMOYLPYRIDONE HIV INTEGRASE INHIBITORS

Abstract:
The present invention relates to a process for the preparation of carbamoylpyridone HIV integrase inhibitors and pharmaceutically acceptable salts thereof. The present invention specifically relates to a process for the preparation of carbamoylpyridone HIV integrase inhibitors such as dolutegravir, cabotegravir and the like using novel compound.

No. of Pages: 30 No. of Claims: 10
This invention can provide an intelligent transportation for monitoring the road-traffic and alerts the passengers to give way for the ambulance vehicle. In the conventional system even though the siren takes place as a good indicator and near to the traffic signal it is difficult to move their vehicle for giving pathway. Digital image processing based object recognition system is used for identifying the ambulance vehicle compared against the other two wheeler, four wheeler or heavy load vehicles. Recently, all the details of a person including his mobile number are linked through Aadhar number. Hence, the IOT based data base verification for the vehicles can be easily obtained. Once the data based gets verified the system sends a query to the driver of ambulance regarding the hospital to which they are going. Driver with the help of a assistant can send the hospital of his choice, the system will provide the guidance about the direction that should be taken, the arrival of ambulance vehicle is also informed to the -regular passengers through SMS (Short Message Service) alert through vibrating mode 3 minutes before the arrival of emergency ambulance. Based on the received information the corresponding lane can be vacated accordingly. This will enable a easy pathway for the transport of Ambulance system to have a safer human lives. In addition there will be a display on the traffic signal indicating the nearby hospitals locations..

No. of Pages : 11 No. of Claims : 5
(54) Title of the invention: PARATHZZAA

(51) International classification: A21D 13/02, A21D 13/41

(31) Priority Document No: NA
(32) Priority Date: NA
(33) Name of priority country: NA

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

(87) International Publication No: NA

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

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

(57) Abstract:
The PARATHZZAA of the present invention is prepared through a specific process, which involves a unique set of ingredients and a systematic flow of events. The unique set of ingredients comprising Salt, Water, Wheat flour, Edible Oil, Base sauce, Vegetables, Mushrooms, Chopped Onion, Oregano, Mozzarella cheese. The first step is the preparation of PARATHZZAA Base. After preparation of the base, this base is now rolled out evenly, followed by the application of 30 grams of Base sauce, upon which 60 grams of either vegetables or mushrooms or any other prepared filling is spread. Further, 10 grams of chopped onion and 10 grams of oregano is spread after adding 50 grams of mozzarella cheese. The oven is pre-heated at 180 - 250 degree Celsius temperature, to which the prepared base with the toppings is now transferred to and removed after 3-5 minutes.

No. of Pages: 8 No. of Claims: 3
**Title of the invention:** AN AUTOMATIC SYSTEM AND METHOD FOR THE DETECTING AND ARRESTING OF THE LPG SPILLAGE FROM THE GAS STOV

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**Abstract:**
The present invention provides a system and a method for the automatic repositioning of the stove knob back to the off condition upon the detection of the LPG leakage from the stove burner and on position of the stove knob. The LPG leakage is detected by utilizing the MQ2 series gas sensor which senses and sends the corresponding analog signals to the connected micro controller for further correction actions. The microcontroller upon receiving the corresponding signal from the sensor activates the stepper motor. The gear train includes two gears meshed for enabling the rotational movement to the knob of the gas stove and another at the shaft of the stepper motor which is hinged near the knob gear. The operation of the stepper starts induces the rotation of the gear fixed at the shaft for providing an anticlockwise rotational movement and a corresponding clockwise rotational movement at the gear attached to the knob for positioning the knob back to off position and subsequently arrest the gas leakage.

No. of Pages: 28 No. of Claims: 10
Title of the invention: A SYSTEM FOR MEASURING PARAMETERS OF A ROTATING BODY

Abstract:
A system for measuring parameters of a rotating body comprises an enclosure having a first open and second closed side with a cap having an opening formed thereon. A rotary encoder is received inside the enclosure for measuring speed of a rotating body disposed outside enclosure and coupled to rotary encoder via a shaft. A rotary-seal and O™ rings are received between the shaft and the opening for sealing gap. A dirt sensor is configured to sense dirt accumulation on the rotary-seal. An ingress sensor is configured to sense ingress of a fluid into the enclosure. A flush pump is disposed outside the enclosure, adapted for flushing the rotary-seal with a fluid to flush off accumulated debris. A controller is coupled to the rotating body, the rotary encoder, the dirt sensor, the ingress sensor and the flush pump.

No. of Pages: 29 No. of Claims: 9
A handheld multi-purpose kitchen grater/slicer for coconut, cheese, small vegetables and the like has a housing, rotatable shaft and interchangeable blades. The blades can be a grater, a scraper, a slicer and the like removably interfaced to the shaft and driven by a driving means activated by a switching means which may a switch with speed regulation as well. Sensing units such as light dependent resistor (LDR) sensor is provided to arrest the operation of driving means when the grater/slicer is not held in user™s hand. The kitchen grater/ slicer can run on rechargeable battery, solar power, electricity and the like. The grater/slicer is sized to easily store in a kitchen drawer or has a holder attached to the housing to hang the grater/slicer when not in use.
**Title of the invention**: MICRO HEAT PIPE FOR TRANSFERRING HEAT USING NATURAL AND FORCED CONVECTION TECHNIQUES

| (51) International classification | :H05B  
| (31) Priority Document No | :NA  
| (32) Priority Date | :NA  
| (33) Name of priority country | :NA  
| (36) International Application No | :NA  
| Filing Date | :NA  
| (86) Name of Applicant | 1) MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT  
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| (61) Patent of Addition to Application Number | :NA  
| Filing Date | :NA  
| (62) Divisional to Application Number | :NA  
| Filing Date | :NA  

The present invention relates to a heat pipe for transferring heat using natural and forced convention techniques. Two micro heat pipes are fabricated using a copper tube for working with dry run (without any fluid) and wet run (with fluid). Plurality of working fluids is used to measure the performance of heat pipe. The temperature distribution across the heat pipe is measured and recorded using plurality of thermocouples. Heat transfer coefficients are measured experimentally by varying the heat input at different stages by increasing the volts. Plurality of measuring instruments are used to measure the current, potential difference etc.

No. of Pages : 17
No. of Claims : 17
A content adaptive quantizer processor receives an input image with an input bit depth. A noise mask generation process is applied to the input image to generate a noise mask image which characterizes each pixel in the input image in terms of its perceptual relevance in masking quantization noise. A noise mask histogram is generated based on the input image and the noise mask image. A masking noise level to bit depth function is applied to the noise mask histogram to generate minimal bit depth values for each bin in the noise mask histogram. A codeword mapping function is generated based on the input bit depth a target bit depth and the minimal bit depth values. The codeword mapping function is applied to the input image to generate an output image in the target bit depth.
The present disclosure relates to the field of mechanical engineering. In particular, the present disclosure relates to a twin rotor multiple input multiple output system (TRMS). The TRMS of the present disclosure can be used to simulate the flight conditions of different helicopter models and facilitates cost friendly flight simulations for different helicopter models. The primary use of the TRMS, as envisaged in the present disclosure, is for performing simulations of flight conditions of different helicopter models.

No. of Pages: 16
No. of Claims: 7
ABSTRACT AN ARRANGEMENT FOR AUTOMATICALLY SWITCHING TRANSMISSION IN A HYBRID VEHICLE

The present disclosure envisages an arrangement for automatically switching transmission in a hybrid vehicle. The arrangement comprises a driven member mounted on a main shaft. A first electromagnet coupled to a first driving member, rotates and induces eddy current in a first metallic plate on receiving a first excitation current, thereby applying driving torque on the driven member. A second electromagnet coupled to a second driving member, rotates and induces eddy current in a second metallic plate upon receiving a second excitation current, thereby applying driving torque on the driven member. A control unit selectively generates the first excitation current or the second excitation current for facilitating switching of transmission of power.
A motorized kart which consists of brush less DC motor as locomotive unit having frame with front and rear wheel base defined by a pair of front steerable wheels and a pair of rear wheels with disc braking system. Riders control unit is placed between the front and rear wheels, a motor drive or locomotive is positioned at the rear end of the frame behind the seat and adjacent to the rear wheels. Throttle and the brake pedals are positioned side by side at the front of the kart behind the front wheels and on the opposite sides of the steering column which extends from the frame upwardly with inclination towards the driver. A rotating throttle pedal is positioned to control the speed of kart by means of changing the resistance which alters switching frequency of locomotive. A brake pushrod actuates the master piston of the disc brake. A linkage extending from the brake pushrod to the throttle returns the throttle to an idle position when the brake pedal and accelerator are simultaneously depressed as the driver panics. An alternate embodiment provides a contact switch that is activated by the brake and brake pushrod. This electric kart is also equipped with Data acquisition system which will record and monitor the kart speed, motor rpm, steering wheel geometry and lap timings which will be very useful for the driver to improve their racing skills. Also, this electric kart is eco-friendly because it doesn’t emit any toxic gases. As they are equipped with rechargeable batteries, the consumption of non-renewable energy resources is avoided. On comparison to conventional engine powered karts this electric kart produces less or no noise.
Title of the invention: METHOD AND SYSTEM OF SOCIAL NETWORK FOR BILLING AND ACCOUNTING USING WEB COMPUTER, MOBILE PORTAL APPLICATION OR ANY OTHER ELECTRONIC DEVICE APPLICATIONS

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Name of Inventor: 1) Bharamagouda B Dalawai

Abstract: The present invention relates to a method of exchange of network accounting and billing communication. Here whenever accounting and billing communications done by a user the Client Users receive related document to easy and faster upload to his accounting and billing system or accounting ledger. It reduces the cost of accounting, paper, time, and manpower required for accounting and billing. Here all Users are registered separately in the portal, Mobile application or web application with their login credentials. Users will access the accounts separately only the Communications are exchanges in easy faster uploading format so the client business or a person can add to his ledger in few clicks. Social accounting billing transaction communications network could happen between Business to Business Business-person and Person to person.

No. of Pages: 19
No. of Claims: 10
ABSTRACT A TWIN ROTOR MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM

The present disclosure envisages a twin rotor multiple input multiple output system (100). The system (100) facilitates study of the pitching, rolling, and yawing of the helicopter. A guide rail (110) is disposed within a frame (105), and is rotatably coupled with the frame (105). A connecting rod (115) is slidably connected to the guide rail (110). A TRMS beam (120) is connected to the connecting rod (115). The TRMS beam (120) comprises at least one rotor assembly (150) and a plurality of modular weights (152). The at least one rotor assembly (150) is mounted on an operative end of the TRMS beam (120) for simulating the rotors of a helicopter. The plurality of modular weights (152) is supported on the TRMS beam (120) for simulating mass of a helicopter. figure 1

No. of Pages : 19 No. of Claims : 10
A security gateway is nowadays widely used in vital places such as in various international airports and international hotels etc. to ensure safety and security of people. Nowadays, criminal activities and attacks are at its highest peak so to ensure the safety and security of people many safety equipments and apparatus are in high use. Thus, this invention is for ensuring the safety of humans and property specially in the important crowded places. Here, in this invention in any important hotels and halls a security gateway will be placed where all people have to pass through that security gateway which will have an X-ray scanning machine for scanning every people passing through that gateway. The scanner rays will penetrate through the clothes that people will be wearing to detect any metal weapons or any bomb jackets. The security people who will access the scanning machine will be located at a distant place from the security gateway and if they detect any undesirable weapons or things which a particular person is carrying they will push a buzzer from the distant place which will ring an alarm in the exit of the security gateway.

No. of Pages : 7  No. of Claims : 2
A terrorist, camouflaging his bomb by wearing a jacket or hidden weapon covered by his/her clothing comes for security check and when got detected, push the button for blast which in turn will kill the security personnel and people around security check post. In a crowded market/cinema hall the suicide bomber enters through hall gate and if detected by security person, detonate the body bomb and kills many people. Our simple two suggestions which is described below, if implemented, can save many lives. (A) The idea is to use a wide entry gate and engage a similar X-ray machine that is used in airport for online baggage screening. If any doubtful scan result gets detected on screen, the X-ray scanning gate will close. The security person sitting at a distant location if detects any doubtful scan will ask the doubtful person to open up his clothing for thorough check. This little machine scanner can save disaster happening due to suicide bomb. (B) Here, we will also use dual frequency ultrasonic beam to an approaching person from a distance (say 50 ft). The high frequency will penetrate the body covered with clothes, low frequency will reflect from any hidden metal or bomb which is fastened on the surface of the body skin. If we use Colour Doppler ultrasonic beam, the remotely stationed security personnel can observe the details of arms or bomb that a suicide bomber/terrorist might be carrying.

No. of Pages : 6 No. of Claims : 2
**Title of the invention:** AN INTEGRATED SYSTEM FOR DETECTION OF TARGET OBJECT.

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3) MRS. MADHUSMITA MISHRA

**Abstract:**
This invention relates to a system for detection of location of target object and in particular, this invention relates to a system for detection of target object based on Lizard algorithm. This invention also relates to a system for detection of target object which can prevent the collision of or for regulating the movement based on the principal used of lizard algorithm. Furthermore, this invention also relates to a system which has the beneficial effects of having safety and reliability with good application prospect in real life domain.

No. of Pages: 19  No. of Claims: 10
Abstract:
This invention relates to a cloud network monitoring system and in particular, this invention relates to a cloud network monitoring system which has been applied in two layers. Furthermore, this invention also relates to a cloud network monitoring system which has the beneficial effects of having safety and reliability. In addition, the system is simple in structure and easy to produce and has good application prospect and the burden on the network environment can be reduced to the most extent; and the system can be easily maintained and extended.

No. of Pages: 24 No. of Claims: 9
**Title of the invention:** LESS ENERGY CONSUMABLE AUTO RECHARGEABLE TABLE FAN.

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**Abstract:**
This invention relates to an auto rechargeable table fan and in particular, this invention relates to an auto rechargeable table fan in which the utilization of electrical energy is reduced by recycling the electricity used by a table fan. More particularly, this present invention relates to a auto rechargeable table fan in which there are total three banks and each bank contains 24 capacitors in it. Furthermore, this invention also relates to an auto rechargeable table fan which has the beneficial effects of having compact structure, weighs very light and easy to handle and operate, and having safety and reliability.

No. of Pages: 24 No. of Claims: 10
This invention relates to a weather prediction system and in particular, this invention relates to a weather prediction system in which natural musical performance processes that occur when a musician searches for a better state of harmony, such as during jazz improvisation. Furthermore, this invention also relates to a natural musical performance processes that occur when a musician searches for a better state of harmony, such as during jazz improvisation which has the beneficial effects of having safety and reliability. In addition, the system is simple in structure and easy to produce and has good application prospect and has the advantages of high accuracy, high reliability, high speed, high definition, and the like.

No. of Pages : 18 No. of Claims : 7
### Title of the invention

SILERT: AUTOMATED INVOLUNTARY SILENT ALERT SELF-DEFENSE SYSTEM

### Abstract

Self-defense is a countermeasure that involves defending the health and well-being of oneself from harm by others including humans, animals etc. Physical self-defense is the use of physical force to counter an immediate threat of violence. Such force can be either armed or unarmed. In either case, the chances of success depend on a large number of parameters, related to the severity of the threat on one hand, but also on the mental and physical preparedness of the defender. Self-defense may be by way of using martial arts, licensed weapons, hand held personal alarms that generate high pitch sounds to attract passerby etc. The defender may either be strong or may be weak being elderly, disabled, child, sick etc. If the defender is strong enough to react swiftly while in danger then the above mentioned mechanisms work well. However if the defender is weak or the situation happens so abruptly that the defender may not get enough time to use the defense mechanism, then protection becomes a complete failure. With the rising crimes in every country where children, females, elderly persons become victims of human threat of violence, this invention aims at creation of a novel automated involuntary alert system that operates involuntarily by taking into consideration the biological signals of a human being without the knowledge of the victim. This device is named SiLERT (Automated Involuntary Silent Alert Self- Defense System). It is a small device that may be worn by the victim whenever he or she goes out to potentially dangerous areas. The device monitors the human heart beat rate as well as electrical activities of the brain to detect whether the person is in a fearful condition or in danger. As soon as fearful condition is detected the system automatically dials and sends emergency alert information including the location of the user via GPS to some predefined mobile numbers silently without the knowledge of the victim and attacker. On receiving the emergency information, proper safeguard of the victim is guaranteed. This device promises freedom of movement of common men, local population and above all assures the nation a safe surrounding.

No. of Pages : 10 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.201611006024 A
(19) INDIA  
(22) Date of filing of Application :22/02/2016  
(43) Publication Date : 25/08/2017

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<td>(62) Divisional to Application Number :NA</td>
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</tbody>
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  Address of Applicant :7035 RIDGE ROAD, HANOVER, MARYLAND 21076, UNITED STATES OF AMERICA U.S.A. |
| (72) Name of Inventor :
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  2) RANDY HILDERMAN |

<table>
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<td>A computer-implemented method for a recursive spinlock includes storing a recursion level for the recursive spinlock in memory; responsive to a request to acquire the recursive spinlock by a process, performing time of (i) acquiring the recursive spinlock if not presently held by the process and incrementing the recursion level and (ii) incrementing the recursion level if the recursive spinlock is presently held by the process; and responsive to a request to release the recursive spinlock by the process, decrementing the recursion level and releasing the recursive spinlock if the recursion level is zero. The recursive spin lock can be implemented in a software wrapper used with existing software which supports recursive locks and the recursive spinlock is used in place of the recursive locks in the existing software. The computer-implemented method can be performed on a Symmetric Multiprocessor (SMP) hardware system.</td>
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No. of Pages : 24  No. of Claims : 20
Abstract:
Maintaining attendance records for large institutions can be a time and effort-consuming besides being tedious in nature. Existing solutions like bio-metric attendance and RFID cards are inconvenient, ineffective and expensive in academic settings, especially with a large number of students marking attendance for each class, multiple times a day. We propose the use of mobile devices and low-cost wi-fi access points both of which are pervasive in campuses of today to enable seamless automated attendance. The proposed invention works by retrieving a list of visible/available MAC addresses at a particular wi-fi access point at a given time (corresponding to a class) to determine student presence. Facial recognition and/or generating personal context-specific questions randomly by a custom mobile application installed on the user’s mobile device prevents proxy or unauthorized attendance. The custom mobile application correctly configures the mobile device to enable attendance management and also implements the institute-specified mobile device usage policy while in class. Generation of consolidated attendance analytics and automated follow-up action is implemented at the server side.
(54) Title of the invention : A BONE LENGTHENING DEVICE HAVING THREE DIMENSIONAL VECTOR CONTROL MECHANISM

(51) International classification : A61B 17/00

(31) Priority Document No : NA
(32) Priority Date : NA
(33) Name of priority country : NA
(36) Priority Document No : NA
(37) Priority Date : NA
(38) Name of priority country : NA

(81) International Application No : NA
(82) Filing Date : NA
(83) International Publication No : NA
(84) Filing Date : NA
(85) International Application No : NA
(86) Filing Date : NA

(71) Name of Applicant :
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(72) Name of Inventor :
1) DIVYA MEHROTRA
2) SUMIT KUMAR
3) ANUPAM SAXENA
4) SANTOSH PRAMANIK

(57) Abstract :
The principal relates a distraction device having three dimensional vector control which moves the transport disc in linear and well as curvilinear path, thus correcting the very complex curvatures of lower jaw (mandible) of human subjects. The present device is very effective in correction of large bone defects, in all the regions of the mandible where a linear movement of transport disc is required and to the areas where an angulated or curvilinear movement is required.

No. of Pages : 11 No. of Claims : 10
**Title of the invention:** AUTOMOBILES POLLUTION CONTROL KIT

**Abstract:**

Through this invention, the smoke will transfer into the kit through square pipe & hollow pipe passing to phoney pipe and get enter into the chamber 1st will dissolve the harmful particales of the smoke into it, and after that smoke will reach the top of the vaccum place of the chamber 1st. After that through chamber 2nd square pipe smoke will again pass from the hollow pipe to phoney pipe will enter into the chamber 2nd and will dissolve into the water. After that dusty smoke will convert into clean smoke and will reach the top vaccum place of the kit (chamber 2nd) and will go out from the kit by hollow pipe and will get 80%-90% clean the smoke.

**No. of Pages:** 19  **No. of Claims:** 6
Title of the invention: TRIAZOLE-AMINO ACID BASED HYBRIDS AS POTENTIAL ANTIFUNGAL DRUG FOR CANDIDA INFECTION

Abstract:
The increasing incidence of human candidiasis and its tendency to become resistant to existing chemotherapies is a well-recognized health problem. The present study demonstrates the successful synthesis of novel compound 10f with potent in vitro and in vivo inhibitory activity against Candida species. The compound 10f showed potent in vitro anti-Candida activity against fluconazole (FLC) resistant as well as sensitive clinical isolates of Candida albicans with no cytotoxicity up to the concentration of 25 µg/mL on VERO cell line. Time kill curve analysis for compound 10f showed its fungistatic nature. Secretion of hydrolytic enzymes, mainly proteinases and phospholipases, decreased considerably in the presence of 10f indicating its interference in fungal virulence. TEM analysis of Candida cells exposed to the lead compound 10f clearly showed morphological changes and intracellular damage as its possible mode of action. A preliminary mechanistic study carried out on 10f revealed inhibition of ergosterol biosynthesis thereby causing the cells to lose their integrity and viability. An in silico analysis of 10f binding to a modeled C. albicans CYP51 showed critical H-bond interactions with the important active site residues indicating the basis of their anti-Candidal role. Studies on the larvae of Galleria mellonella showed that the compound 10f was non-toxic, did not provoke an immune response and significantly reduced Candida proliferation in vivo.

No. of Pages: 20 No. of Claims: 4
A method of automatically and selectively opening the doors of a railway train (1) for passenger transport based on passenger travel data (11), said railway train (1) comprising a set of coupled carriages, wherein each carriage has: - a plurality of automatic doors for boarding and alighting the carriage; - a unique carriage number allowing to identify the same; and - a set of passenger seats, each passenger seat within the same carriage having a unique passenger seat number allowing to identify the same, wherein the method comprises the following steps: a.scheduling (S101) a particular train trip for said railway train (1) that requires prior reservation for all passengers, said train trip including a starting station, at least one intermediate station and a destination station; b.obtaining (S102), preferably when the railway train is about to depart for said particular train trip, passenger travel data for said train trip and storing the same in a database (10) onboard the railway train, wherein said passenger travel data includes, for each passenger, his boarding and alighting station as well as the number of his reserved passenger seat and/or the number of the corresponding carriage; and c.at each intermediate station during said train trip, selectively and automatically opening (S103) particular doors while keeping the remaining doors locked as a function of said passenger travel data, wherein step c is executed by a controlling device (14) onboard the railway train that is connected to said database.
Title of the invention: AN IMPROVED SCREW JACK.

Abstract:
The present invention provides an improved screw jack which comprises screw, nuts, at least three legs, lever and rope. Screw is provided with two start square threads and screw head. Screw head has internal threads on its periphery for screwing the lever. The nut has internal threads matching with threads of screw. It has at multiple threaded holes equally spaced on its circumference to attach at least three legs. The variable length of effort lever provides variable velocity ratio.
The present invention provides a process to recover nickel and cadmium in the form of a high value product as Ni-Cd ferrite from spent Ni-Cd spent batteries. The spent battery is dissolved completely in nitric acid assisted sulphuric acid solution. The nickel and cadmium value present in the leach solution is directly converted to a high value Ni-Cd ferrite product through hydrothermal precipitation without any additional purification/treatment step. Very uniform nano size Ni-Cd ferrite with high magnetization value of 60.9 emu/g and remnant magnetization value of 5.7 emu/g is produced and reported in this patent. Ni-Cd ferrites are a group of technologically important materials that are used in the fabrication of magnetic, electronic and microwave devices.
An enhanced jitter tolerant clock and data recovery circuit (CDR) comprises of the blind-oversampling CDR placed in a first order delay locked loop with the data. In the blind oversampling CDR the output clock's position is a function of the two abounding edges of the current data-bit and previous • n• data edges. The information on data crossovers is computed by the blind-oversampling circuit and the input data is delayed to coarsely match the computation of the crossovers over 1 UI in the blind-oversampling circuit. The position of the clock phase approximately in the middle of the two abounding data crossovers for a given bit is computed in the blind-oversampling circuit. The delayed data is resampled by the clock phase determined by the blind-oversampling circuit to position it in the middle of the two data crossovers abounding the data-bit on average with a first order delay locked loop formed with the input data. The CDR tolerates a finite frequency offset without employing a separate loop. The clock and data recovery method enhances the jitter tolerance of the CDR and also acquires lock for a burst mode of the data transfer with limited resolution. [Figure to be published along with abstract: Figure 1]
The present invention discloses a peristaltic micro-pumping system comprising a micro-pump with at least one fluid chamber or channel of optimized geometry consisting of one fluidic layer and other control layer containing blister pockets in direct connection with inlet and outlet means; an actuation means; a means for power input; a means for wave form generation coupled to the amplifier operating at a lower output voltage; wherein the geometry of the fluid chamber is optimized using numerical simulations and then fabricated to a fluid chamber of surface roughness of about 460nm on PMMA substrate by laser micromachining and wet chemical etching.
The present invention relates to an eco-friendly process for the isolation of vanillin by a modified, simple and convenient process. The process involves extraction with organic solvent of pretreated cellulose from Ipomea carnea, a renewable agricultural plant material. The invention relates to the extraction of vanillin using organic solvents in a very cheap and convenient way wherein the solvents during the process can be reused.

No. of Pages : 16 No. of Claims : 9
The present disclosure provides an apparel detachably connected to a fluid reservoir to provide evaporating cooling. The apparel includes an outer shell having an interior space filled with a fluid absorbing material. Further, the apparel includes at least one tube with perforations embedded within the interior space, wherein perforations allow a fluid flowing in the at least one tube to flow into the interior space. Further, at least one end of the tube reaches out of the apparel, wherein the at least one end is connected to the fluid reservoir.
The present invention relates to the development of siRNAs against Influenza A Virus by identifying the conserved regions of matrix gene, which is universally present in prevalent strains of IAV. In the present invention, the most conserved regions of M gene are identified by aligning multiple sequences of human pathogenic IAV submitted in NCBI database (Influenza virus resource) from all over the world. The invention aims to develop a pan IAV-siRNA which may work against more or less all IAV strains.

No. of Pages : 34 No. of Claims : 11
According to a first aspect of the present disclosure, a power switching circuit is provided, comprising: a bandgap reference circuit configured to receive an input voltage and to generate a reference voltage in response to receiving said input voltage; a supply selection circuit configured to receive at least two supply voltages, to select the highest voltage of said supply voltages and to provide said highest voltage to the bandgap reference circuit. According to a second aspect of the present disclosure, a corresponding method of operating a power switching circuit is conceived.
A catheter introducer comprising: a tube-like introducer sheath (10); an introducer hub (14) having a distal section (24) and a proximal section (26), wherein the distal section (24) is joined to the introducer sheath (10) and the proximal section (26) defines a chamber (42); a needle (16) extending through the introducer hub (14) and the introducer sheath (10) and having opposite proximal and distal ends, wherein the distal end forms a needle tip (18); a needle hub (20) attached to the proximal end of the needle (16); and a needle safety device (44) slidably arranged on the needle (16), wherein the needle safety device (44) is retained in the chamber (42) of the introducer hub (14) when the needle (16) extends through the introducer hub (14) and the introducer sheath (10), and removable from the introducer hub (14) once the needle tip (18) is received in the needle safety device (44) upon withdrawal of the needle (16) from the introducer sheath (10), and wherein the needle safety device (44) comprises a base portion (52) and first and second jaws (55, 62) extending from the base portion (52) in a generally axial direction; and an elastic element surrounds the first and second jaws (55, 62) in order to positively collapse the jaws (55, 62) when the needle tip (18) is received between the jaws (55, 62). (FIG. 1)
The present invention concerns a frame (1, 12, 19) receiving one or more modules (2,22) for cable entries or pipe penetrations. A compression unit (8,23) is an integrated part of the frame (1, 12, 19), which compression unit (8,23) is to compress the modules (2,22) inside the frame (1, 12, 19). The compression unit (8,23) comprises three compression wedges (9,11,25,26). An upper and a lower compression wedge (9,10,25) have the same orientation, while a middle compression wedge (11, 26) has an opposite orientation. The middle compression wedge (11,26) is oriented with a broad side (31) facing an opening (3, 13) of the frame (1, 12, 19) receiving the modules (2,22). At least one compression screw (7,24) goes through openings (32) of the upper and lower compression wedges (9,10,25) and through a slot (34) in the middle compression wedge (11,26).
The present invention relates to a portable device for efficiently transforming cells and tissues of microbial, animal as well as plant origin comprising electromagnets placed radially with a gap in the center for the Eppendorf tube to be placed. By manipulating the time interval between the switching on and off of the electromagnets, nanoparticle coated with polymer-gene complex gain momentum and penetrates the cells and transforms them successfully with a high efficiency and rapidity. The residual DNA which fails transposition gets a second chance, by the magnetic pull offered by another electromagnet, placed adjacent, opposite or at the bottom of the holder tube.

No. of Pages: 15 No. of Claims: 7
Title of the invention: TIRE PROFILE AND MOLDING FORM

Abstract:
Tire profile for a pneumatic tire (10) of an automobile comprising a tread portion comprising at least one sipe (20), the sipe (20) comprising an extension in a width direction (22) and a depth in radial direction (24), wherein the sipe (20) comprises a first portion (36), a second portion (38) arranged radially inward to the first portion (36) and at least one further portion (40), wherein the further portion (40) is connected to a portion arranged above the further portion (40) in radial direction by a further connecting line, wherein the sipe (20) comprises a first part (30), a second part (32) arranged directly besides the first part (30) in width direction (22) and at least one third part (34) directly besides the second part (32) in width direction (22), wherein the first portion (36) is inclined to the radial direction (24) by an acute angle $\alpha_1$, the second portion (38) is inclined to the radial direction (24) by an acute angle $\alpha_2$ different to $\alpha_1$ and the further portion (40) is inclined to the radial direction (24) by an acute angle $\alpha_3$ different to $\alpha_1$ and different to $\alpha_2$, wherein the mathematical values of $\alpha_1$ and $\alpha_2$ are both positive or negative at least partially along width direction (22) and/or the mathematical values of $\alpha_2$ and $\alpha_3$ are both positive or negative at least partially along radial direction (24), and/or the first part (30) is inclined to the width direction (22) by an acute angle $\beta_1$, the second part (32) is inclined to the width direction (22) by an acute angle $\beta_2$ different to $\beta_1$ and the third part (34) is inclined to the width direction (22) by an acute angle $\beta_3$ different to $\beta_1$ and different to $\beta_2$, wherein the mathematical values of $\beta_1$ and $\beta_2$ are both positive or negative at least partially along width direction (22) and/or the mathematical values of $\beta_2$ and $\beta_3$ are both positive or negative at least partially along radial direction (24), the sipe (20) comprises a first part (30), a second part (32) arranged directly besides the first part (30) in width direction (22) and at least one third part (34) directly besides the second part (32) in width direction (22), wherein the first portion (36) is inclined to the radial direction (24) by an acute angle $\alpha_1$, the second portion (38) is inclined to the radial direction (24) by an acute angle $\alpha_2$ different to $\alpha_1$ and the further portion (40) is inclined to the radial direction (24) by an acute angle $\alpha_3$ different to $\alpha_1$ and different to $\alpha_2$, wherein the mathematical values of $\alpha_1$ and $\alpha_2$ are both positive or negative at least partially along width direction (22) and/or the mathematical values of $\alpha_2$ and $\alpha_3$ are both positive or negative at least partially along radial direction (24), and/or the first part (30) is inclined to the width direction (22) by an acute angle $\beta_1$, the second part (32) is inclined to the width direction (22) by an acute angle $\beta_2$ different to $\beta_1$ and the third part (34) is inclined to the width direction (22) by an acute angle $\beta_3$ different to $\beta_1$ and different to $\beta_2$, wherein the mathematical values of $\beta_1$ and $\beta_2$ are both positive or negative at least partially along width direction (22) and/or the mathematical values of $\beta_2$ and $\beta_3$ are both positive or negative at least partially along radial direction (24), and due to the same mathematical value of subsequent portions (36, 38, 40) or parts (30, 32, 34) of the sipe (20) in radial direction (24) and/or width direction (22) bigger and smaller protrusion (42) / depression (44) of adjacent blocks (26, 28) spaced to each other by the sipe (20) are provided leading to a high stiffness, particularly at high load, and a low wear.

No. of Pages : 29 No. of Claims : 18
A compact transportable batch process supertorrefaction system includes at least one supertorrefying unit, a liquid tank containing molten salt, and a wash tank including a plurality of basins containing water having different temperatures and salinity. The liquid tank and the wash tank sequentially supply the molten salt and the water to a receiving space of the at least one supertorrefying unit to supertorrefy the biomass into charcoal and to rinse and cool the charcoal respectively. The plurality of basins of the wash unit sequentially supply water having different temperatures and salinity to the same receiving space to gradually rinse and cool the charcoal. The biomass is not moved in the at least one supertorrefying unit during biomass supertorrefaction. The charcoal is not moved during charcoal cooling.
A passenger conveyor according to an embodiment of the present invention includes a plurality of steps connected endlessly, a balustrade provided to both sides of the steps along a travelling direction of the steps, and an endless moving handrail provided to the periphery of the balustrade, the moving handrail moving in synchronization with the steps. The moving handrail includes a forward moving part that travels in the same direction as that of the steps, a backward moving part that travels in the opposite direction to that of the steps, and reverse parts interposed between the forward moving part and the backward moving part. The reverse parts of the balustrade are attached with lighting systems to indicate an operation direction of the passenger conveyor along the moving handrail.
Title of the invention: DOOR AND WINDOW CONTACT SYSTEMS AND METHODS THAT INCLUDE MEMS ACCELEROMETERS AND MEMS MAGNETOMETER

Abstract:
Systems and methods that address the gap, security, and robustness limitations of known door and window contact systems and methods without increasing the overall cost thereof are provided. Some systems can include an accelerometer and a magnetometer for mounting in or on a first portion of a window or door unit, and a microcontroller unit in communication with each of the accelerometer and the magnetometer. The accelerometer can measure acceleration or vibration relative to a second portion of the window or door unit and transmit the measured acceleration or vibration to the microcontroller unit, the magnetometer can measure magnetic field relative to a sensor magnet mounted on or embedded in the second portion of the window or door unit and transmit the measured magnetic field to the microcontroller unit, and the microcontroller unit can use the measured acceleration or vibration and the measured magnetic field to make a security determination.

No. of Pages: 19 No. of Claims: 15
The present invention relates to a process for providing a fraction enriched in polyphenols from a starting material, the process comprises the steps of: (i) solubilizing the starting material in an aqueous solvent; (ii) adjusting pH to below pH 3 (preferably about pH 1); (iii) contacting the starting material with a chromatographic resin; (iv) desorbing the polyphenols from the chromatographic resin to provide an eluate comprising the polyphenols; (v) adjusting pH of the eluate to above pH 3.5 (preferably pH 4); and (vi) separating the eluate from the eluted polyphenols to obtain the fraction enriched in polyphenols. The invention furthermore related to products comprising such polyphenols enriched fractions.
Abstract:
Disclosed is a local Internet protocol access (LIPA) session recognition method comprising: receiving by a serving gateway (SGW) a session establishment request or a session establishment response; and when it is parsed that the session establishment request or the session establishment response carries LIPA information determining this session to be an LIPA session and conducting charging policy and/or service policy control with respect to the LIPA session. Also disclosed at the same time are the additional four i.e. an LIPA session recognition method device and system and a computer storage medium.
The invention relates to a method for the purification of L hercynine. Said method for the purification of L hercynine from a reaction mixture resulting from the reaction of L histidine in controlled pH conditions with a methylating agent Me X in a polar solvent or a mixture of polar solvents at room temperature is characterised in that it comprises at least one step of separating the organic products from the inorganic salts formed during the reaction by electrodialysis. This method allows the L hercynine losses to be limited during the purification.
The present invention relates to the use of nanocarbon (carbon nanotubes and/or carbon nanofibers) in the preparation of reinforced (filled) styrene-butadiene rubber (SBR). Furthermore, the present invention relates to a method of preparing reinforced SBR master batches having nanocarbon as reinforcing agent wherein the nanocarbon is uniformly predispersed within the SBR, as well reinforced rubber compositions containing said reinforced SBR which have nanocarbon and carbon black as reinforcing agents, and to uses thereof.
The invention relates to a method for producing hydrocarbons in which, in a catalysis unit (1) and using one or more catalysis input streams (a) containing oxygenates and/or olefins, a catalysis product stream (b) is produced that is rich in n-butane, isobutane, 1-butene, 2-butene, isobutene and hydrocarbons having more than four and/or less than four carbon atoms, and in which, in a steam cracking unit (2) and using one or more steam cracking input streams (g, r, s), a steam cracking product stream (h) is also produced. According to the invention, a skeletal isomerisation input stream (f, q) which is low in 1-butene, 2-butene and isobutene but contains at least isobutane is produced using said catalysis product stream (b), at least the majority of the isobutane being reacted by means of skeletal isomerisation in said skeletal isomerisation input stream so as to obtain n-butane, and this skeletal isomerisation input stream subsequently being used, at least in part, as the or one of the steam cracking input streams (g, r). The invention also relates to an installation (100, 200).
(54) Title of the invention: CRYSTALLINE SOLID FORMS OF 6 CARBOXY 2 (3,5 DICHLOROPHENYL) BENZOXAZOLE

(51) International classification: C07D263/57, A61K31/423, A61P25/00

(31) Priority Document No: 62/047614
(32) Priority Date: 08/09/2014
(33) Name of priority country: U.S.A.

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Filing Date: 31/08/2015

(87) International Publication No: WO 2016/038500

(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 solid forms of 6 carboxy 2 (3,5 dichlorophenyl) benzoxazole and to methods for their preparation. The invention is also directed to pharmaceutical compositions containing at least one solid form and to the therapeutic or prophylactic use of such solid forms and compositions.

No. of Pages: 30 No. of Claims: 18

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The Patent Office Journal No. 34/2017 Dated 25/08/2017 27674
Methods, compositions, and kits for adjunctive therapy using 25-hydroxyvitamin D are disclosed. The 25-hydroxyvitamin D may be administered with an agent that increases the risk of hypocalcemia and/or an anticancer agent. The adjunctive therapy is effective to treat and prevent iatrogenic hypocalcemia and/or secondary hyperparathyroidism, as well as delay cancer progression and the time to a post-treatment skeletal related event.

No. of Pages: 45 No. of Claims: 66
Title of the invention: PROCESS FOR THE PREPARATION OF 3 (3 CHLORO 1H PYRAZOL 1-YL)PYRIDINE

Abstract:
3-(3-Chloro-1H-pyrazol-1-yI)pyridine is prepared by cyclizing S-hydrazinopyridine-dihydrochloride with commercially available 3-ethoxyacrylonitrile to provide 3-(3-amino-1H-pyrazol-1-yI)pyridine, and by converting the amino group to a chloro group by a Sandmeyer reaction.

No. of Pages: 6  No. of Claims: 2
Title of the invention : SURGICAL PLANNING AND METHOD

Abstract:
Methods and apparatus for planning and/or carrying out a total knee replacement surgical procedure on a knee of a leg of a patient are described. Anatomical data for the leg of the patient is obtained, which allows the femoral mechanical axis, the tibial mechanical axis and the joint line of the knee to be determined. A planned proximal tibial cut angle and a planned distal femoral cut angle are determined. The planned proximal tibial cut angle and the planned distal femoral cut angle ensures that a long leg angle between the tibial mechanical axis and the femoral mechanical axis resulting from the planned proximal tibial cut angle and the planned distal femoral cut angle is within a first pre-selected range of values and the planned proximal tibial cut angle is within a second pre-selected range of values. A total knee replacement procedure is carried out on the knee of the patient, wherein a distal femoral cut is made using the planned distal femoral cut angle and a proximal tibial cut is made using the planned proximal tibial cut angle.
Title of the invention: ELECTRIC POWER STEERING DEVICE

Abstract:

[Problem] To provide an electric power steering device of which reliability is increased by a redundant system in which independent detection signals are compared and diagnosed while the detection signals are individually diagnosed and which can continue functioning without adversely affecting reliability. [Solution] An electric power steering device for assist controlling a steering system is provided with at least two respectively independent torque sensors and angle sensors and has a function of computing and utilizing steering angles from the torque sensors and the angle sensors wherein the independent signals are compared and diagnosed while the individual signals are individually diagnosed. If abnormality is determined by the comparative diagnosis the angle sensor signals are not used while if it is determined that at least one of the individual diagnoses is abnormal the angle sensor signals are handled as a downgrade. If two or more of the individual diagnoses are determined to be abnormal the angle sensor signals are not used.
To provide a method that reduces clogging of a filter during a filtering step prior to addition of milk into a previously formulated lactase solution, and to provide a lactase solution which is not prone to clogging filters. [Solution] This lactase solution is characterized by being subjected to stirring treatment at 1 OOrpm at 1 ooc for 16 hours in a concentration resulting in an activity of 5,000 NLU/g or 10,000 ALU/g, and thereafter, by a 5 kg/minxm2 or higher permeation rate during permeation of 366 kg/m2 through a membrane filter with a pore diameter of 0.22 Jlm and in a concentration resulting in an activity of 1,000 NLU/g or 2,000 ALU/g.
Control of self excited third octave vibration in a metal rolling mill can be achieved by adjusting the tension of the metal strip as it enters a stand 102. Self excited third octave vibration can be detected and/or measured by one or more sensors. A high speed tension adjust or 144 can rapidly adjust the entry tension of the metal strip (e.g. as the metal strip enters a mill stand) to compensate for the detected self excited third octave vibration. High speed tension adjusters can include any combination of hydraulic or piezoelectric actuators coupled to the center roll of a bridle roll to rapidly raise or lower the roll and thus induce rapid tension adjustments in the strip. Other high speed tension adjusters can be used.
(54) Title of the invention : IMIDAZO[4,5-C]PYRIDINE DERIVED SSAO INHIBITORS

(51) International classification :C07D403/04,C07D403/14,A61K31/4353
(31) Priority Document No :1416446.1
(32) Priority Date :17/09/2014
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2015/052690
                                  :17/09/2015
(87) International Publication No :WO 2016/042331
(61) Patent of Addition to Application Number :NA
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                                  :NA
(61) Patent of Addition to Application Number :NA
                                  :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
A compound as set out in claim 1 and the use of the same in therapy.

No. of Pages : 52 No. of Claims : 7
IMIDAZO[4,5 C]PYRIDINE DERIVED SSAO INHIBITORS

A compound of formula (I) or a pharmaceutically acceptable salt, or N-oxide thereof and the use of the same in therapy: wherein Z, Y, R1, W, V, and R3 are as defined in claim 1.
The method comprises: the total amount of energy provided by an energy supply device for various loads in a system is read (S30); energy data of each load is collected the energy data comprising: the power supply voltage the power supply current the active power the reactive power and the power consumption (S32); the total power consumption of all the loads in the system is calculated (S34); an energy allocation policy is determined by comparing the total power consumption and the total amount of energy the energy allocation policy comprising: allocating energy according to a priority level of each load and performing energy mode switching according to the power factor of each load (S36). The method device and system provide the loads with dynamic power distribution modes and increase the working efficiency reliability and stability of the whole power supply system.
The invention relates to a metal piece (P) of a generally elongated shape according to a longitudinal direction (A) for making a motor vehicle comprising at least one edge (11 13 21 23) extending according to the longitudinal direction at the intersection of two walls (10 20 22 50) of the piece and at least one area (100) having a mechanical strength lower than the rest of the body of the piece wherein the at least one area (100) is formed through local thermal control of the piece. The piece being characterized in that the lower mechanical strength area undulates along the edge (11 13 21 23) extending at least predominantly alternately on each of the walls (10 20 22 50) forming said edge. The invention further relates to a method for making it.
(12) PATENT APPLICATION PUBLICATION

(21) Application No.201717009582 A

(19) INDIA

(22) Date of filing of Application: 20/03/2017

(43) Publication Date: 25/08/2017

(54) Title of the invention: MEASUREMENT PROBE

(51) International classification: G01B17/02, G01B21/04, G01B5/012

(31) Priority Document No: 1417164.9

(32) Priority Date: 29/09/2014

(33) Name of priority country: U.K.

(36) Application No: 201717009582 A

(43) Publication Date: 25/08/2017

(57) Abstract:
An ultrasound probe (40; 56; 200; 330; 464; 546; 600; 620; 700; 802) is described that comprises a transducer (92; 210; 248; 260) for transmitting and receiving ultrasound. The probe also includes a coupling element (42; 104; 208; 270; 462; 548; 622; 702) such as a spherical ball of self lubricating or hydrogel material (208; 270; 462; 548) for contacting and acoustically coupling to an object (62; 218; 272; 450) to be inspected. The ultrasound probe (40; 56; 200; 330; 464; 546; 600; 620; 700; 802) also includes an analyser that is arranged to analyse the ultrasound signal received by the transducer (92; 210; 248; 260) and thereby determine if there is contact between the coupling element (42; 104; 208; 270; 462; 548; 622; 702) and the surface of an object (62; 218; 272; 450). The probe can thus be used for internal (ultrasound) inspection of objects as well as measuring the position of points on the surface of the object. The probe may be mountable to a coordinate measuring machine (50) or other moveable platforms (800 810).

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No. of Pages: 72 No. of Claims: 16
**Title of the invention:** STEVIA EXTRACTS

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**Abstract:**

Stevia rebaudiana A Stevia extract made from leaves of the plant is described. The extract has desired levels of steviol glycosides and is useful in food beverage and other consumable products.

No. of Pages: 69 No. of Claims: 6
The present disclosure provides discussion of screen vibration to reduce speckle in display applications and/or projection screens. Electrical transducers or reactors may be used with a screen to reduce or remove speckle in projection screens and/or display applications. Electrical transducers may not be directly mounted to a screen thus eliminating many mechanical failure modes associated with a vibrating transducer as well as resulting in a much quieter operation. By design the reactors or transducers may actually contact the screen and can take up less than one square inch of screen surface each than previous designs which may be outside of the active viewing area and within 12 inches of the screen border preferably less than approximately 1 inch from screen edge. The reactors are magnets though any ferrous material can be made to work with certain operating conditions.
Title of the invention: A METHOD TO IMPROVE HALOGENATION REACTIONS

Abstract:
In the halogenation reaction of olefin/halo olefin (i.e. organic) an excess amount of halogen gas (fluorine chloride vaporized bromine and iodine or their combination) is normally used in order to achieve as complete as possible conversion of the organic. In a conventional process the excess halogen gas in the off gas stream is scrubbed by caustic solution which increases the consumption of halogen and generates waste for disposal. The present invention provides a novel process to recover and reuse the excess halogen gas and thus reduce the operating cost of the process.

No. of Pages: 8 No. of Claims: 10
This cooling apparatus for a steel material is a cooling apparatus for forming a long steel material (10) into a predetermined shape including a bend by causing one end in a longitudinal direction of the steel material to move in two dimensions or three dimensions, while heating a portion in the longitudinal direction of the steel material while feeding the steel material in the longitudinal direction in a state in which the one end of the steel material is gripped, and then cooling the heated section including the bend, wherein the cooling apparatus is provided with a first cooling device (22) for spraying a first cooling medium on the heated section, and a second cooling device (23) for spraying a second cooling medium on the heated section, the second cooling device (23) being provided downstream relative to the first cooling device as viewed along the feed direction of the steel material. A plurality of second cooling devices are arranged along the feed direction, and the flow rate of the second cooling medium can be controlled independently for each of the second cooling devices. Uneven tempering in bending of the steel material can thereby be reduced.
Methods for manufacturing hot stamped components are described. The method comprises providing a hot stamped component by hot forming dye quenching. Selecting a first and a second portion of the hot stamped component wherein the first portion has a different width than the second portion. A laser system wherein the laser system comprises one or more optical elements and a laser source for generating a laser beam is provided. The laser system is moved along a length of the component. Finally the laser beam is applied in a single pass onto the selected first and second portions using the laser system wherein a laser beam spot size is adjusted during the application of the laser beam and is adapted to the widths of the first and second portions and wherein a power of the laser beam is regulated based on the temperature measured in the hot stamped component. The disclosure further relates to components obtained using such methods.
Tertiary amine catalysts having isocyanate reactive groups capable of forming thermally stable covalent bonds able to withstand temperatures from 120°C and higher and up to 250°C are disclosed. These catalysts can be used to produce polyurethane foam having the following desirable characteristics: a) very low chemical emissions over a wide range of environmental conditions and isocyanate indexes (e.g., indexes as low as 65 but higher than 60); b) sufficient hydrolytic stability to maintain the catalyst covalently bound to foam without leaching of tertiary amine catalyst when foam is exposed to water or aqueous solutions even at temperatures higher than ambient (temperature range 25°C to 90°C); and c) stable contact interface between the polyurethane polymer and other polymers (for example polycarbonate) with minimal migration of tertiary amine catalyst from polyurethane polymer to other polymers yielding no noticeable polymer deterioration at the point of contact even under conditions of heat and humidity.
In some aspects, a method of operating a magnetic resonance imaging system comprising a B magnet and at least one thermal management component configured to transfer heat away from the B magnet during operation is provided. The method comprises providing operating power to the B magnet, monitoring a temperature of the B magnet to determine a current temperature of the B magnet, and operating the at least one thermal management component at less than operational capacity in response to an occurrence of at least one event.
Title of the invention: MULTIPLE SENSOR TRACKING SYSTEM AND METHOD

Abstract:
A system and method for tracking the flight of golf balls at driving range. The system includes a plurality of hitting stations a plurality of sensors a computer and a range surface. Each hitting station in the plurality of hitting stations includes a golf ball a golf club a monitor and a sensor. At least one other sensor in the plurality of sensors is placed outside a hitting station. The flight path of the golf balls being calculated by the computer using parameters by the plurality of sensors. The method includes steps for determining whether a first sensor detected a first parameter and a second parameter whether a second sensor detected a first and a second parameter whether a third sensor detected a third parameter and depicting the flight path of the golf balls using the first parameter the second parameter and the third parameter.
(54) Title of the invention : IN FIELD DNA EXTRACTION DETECTION AND AUTHENTICATION METHODS AND SYSTEMS THEREFOR

(51) International classification : C12Q1/68
(31) Priority Document No : 62/043078
(32) Priority Date : 28/08/2014
(33) Name of priority country : U.S.A.
(86) International Application No : PCT/US2015/013184
   Filing Date : 28/01/2015
(87) International Publication No : WO 2016/032562
(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) LIANG Benjamin

(57) Abstract :
The invention provides a method for in field detection of a distinctive marker. The method includes providing a sample from an article of interest and analyzing the sample to detect the presence of the distinctive marker. The analysis is performed using an in field detection instrument. The in field detection instrument includes a microsystem configured to perform sample in answer out analysis and detect the presence of the distinctive marker in the sample.

No. of Pages : 55 No. of Claims : 15
The invention relates to a continuous process for the production of ultra high molecular weight polyethylene with an Elongational Stress of at least 0.43 N/mm. The polymerisation of ethylene takes place in the presence of a catalyst and hydrogen. It is an advantage of the process according to the invention that the use of small amounts of hydrogen during the production of UHMWPE reduces reactor fouling. Furthermore the process according to the invention results in longer run times in polymerization reactors less cleaning cycles to remove reactor fouling and in less need for other anti fouling agents or anti static agents.
Title of the invention: HAIR CARE COMPOSITION COMPRISING DISCRETE PARTICLE OF OILY COMPONENT

Abstract:
Disclosed is a hair care composition comprising: a discrete particle comprising an oily component, wherein the oily component comprises one or more materials selected from the group consisting of: (A) metathesized unsaturated polyol esters; (B) sucrose polyesters; (C) fatty esters with a molecular weight greater than or equal to 1500; and mixtures thereof, wherein the oily component has a Zero Shear Viscosity at 25°C of from about 102 Pas to about 109 Pas, and has a melting point of from about 35°C to about 60°C; and wherein the discrete particle has an average particle size in the hair care composition of from about 0.5 microns to about 20 microns. The hair care composition provides improved conditioning benefits, clean feel, and/or hair styling benefit.

No. of Pages: 27 No. of Claims: 12
The present invention relates to a composition comprising a) recombinant exosporium producing cells that express a fusion protein comprising: (i) at least one plant growth stimulating protein or peptide and (ii) a targeting sequence that localizes the fusion protein to the exosporium of the cells; and b) at least one further biological control agent selected from particular microorganisms disclosed herein and/or a mutant of a specific strain of a microorganism disclosed herein having all identifying characteristics of the respective strain and/or at least one metabolite produced by the respective strain and/or at least one metabolite produced by the respective strain that exhibits activity against insects, mites, nematodes and/or phytopathogens in a synergistically effective amount. Furthermore, the present invention relates to the use of this composition as well as a method for enhancing plant growth promoting plant health and/or reducing overall damage of plants and plant parts.
Compounds having cytotoxic and/or anti mitotic activity are disclosed. Methods associated with preparation and use of such compounds as well as pharmaceutical compositions comprising such compounds are also disclosed. Also disclosed are compositions having the structure: (T) (L) (D) wherein (T) is a targeting moiety (L) is an optional linker and (D) is a compound having cytotoxic and/or anti mitotic activity.
The invention relates to an insulation system for electrical machines, in particular in the high voltage range. The insulation system has a thermally activatable component or an encapsulated component or a component embedded in the pores of the solid to be impregnated as a hardener component.
(54) Title of the invention: NEUROACTIVE STEROIDS COMPOSITIONS AND USES THEREOF

(31) Priority Document No: 62/047599
(32) Priority Date: 08/09/2014
(33) Name of priority country: U.S.A.
(86) International Application No: PCT/US2015/048937
   Filing Date: 08/09/2015
(87) International Publication No: WO 2016/040322

(57) Abstract:
Described herein are methods of treating tremor, e.g., essential tremor; depression, e.g., postpartum depression; and anxiety disorder, the method comprising administering to a human subject suffering from tremor, e.g., essential tremor; depression, e.g., postpartum depression, an anxiety disorder with a neuroactive steroid or a composition comprising a neuroactive steroid (e.g., pregnanolone, allopregnanolone, alphadalone, ganaxolone, or alphaxolone).

No. of Pages: 155  No. of Claims: 3
Title of the invention: METHOD FOR EXTRACTING CAPSANTHIN AND CAPSAICIN FROM FRESH CHILES

Abstract:
Disclosed is a method for extracting capsanthin and capsaicin from fresh chiles which relates to the field of natural plant extracts. The method comprises the following steps: (1) crushing of fresh chiles: crushing the fresh chiles separating the seed and husk obtaining the crushed fresh chiles and then collecting same for use; (2) fermentation: spraying a microbial strain on the crushed fresh chiles homogeneously fermenting same under an anaerobic condition and obtaining the fermented crushed chilies wherein the fermented crushed chilies are processed to form chili granules for use in the extraction of capsanthin and capsaicin. The beneficial effects of the method are as follows: 1. it can meet the requirements of the mechanized picking of chilies and greatly improve efficiency; 2. since the fermentation of fresh chilies is anaerobic fermentation under a dark condition there is substantially no loss of pigments and moreover the fermented crushed chilies can be stored for up to twelve months under a sealed dark condition thus the processing period is extended and the enterprise can arrange a production plan rationally according to circumstances; and 3. it improves the quality of the finished products of capsanthin and capsaicin by fermentation.

No. of Pages: 19 No. of Claims: 10
The present invention relates to a biaxially stretched ethylene polymer film obtained from an ethylene-based polymer composition (A) of which a density, a melting heat quantity (6HT) obtained by a differential scanning calorimeter (DSC), a melting heat quantity (6HL) in a range of a melting start temperature to 110°C, a melting heat quantity (6HH) in a range of 110°C to a melting end temperature, and (6HH)/(6HL) are respectively in certain ranges, in which in heat shrinkage properties (a heat shrinkage rate) of the biaxially stretched ethylene polymer film, a sum \([MD + TO]\) of a heat shrinkage rate (%) in a vertical direction (an MD direction) and a heat shrinkage rate (%) in a horizontal direction (a TD direction) in a heat shrinkage rate at 120°C is in a range of 15% < \([MD + TO]\) < 85%.
A mixing apparatus for mixing particles in a liquid and its use are disclosed. The mixing apparatus comprises a tank (1) having a bottom (2) and a substantially vertical side wall (3) an agitation means (4) comprising a rotation shaft (5) located vertically and centrally in the tank (1) and an impeller (6) arranged at a height above the bottom (2) at the end of the rotation shaft (5) and the impeller (6) being a downward pumping axial or mixed flow impeller. The bottom (2) is equipped with a corrugated formation (7) comprising alternate consecutive ridges (8) and valleys (9) the ridges (8) and valleys (9) extending radially in relation to a center of the bottom (2) whereby the valleys (9) concentrate and channel the mixing power near to the bottom (2) to direct the flow of the liquid and to increase the velocity of the flow near to the bottom (2).
A system for designing automation applications based on input from a user includes a library interface, a three-dimensional workspace, a simulation engine, and a controller code generation unit. The library interface is configured to receive a user selection of a plurality of components from a library of components. The three-dimensional workspace is configured to display the components and create a system design in the three-dimensional workspace using the components based on one or more instructions provided by the user. The simulation engine is configured to generate simulation code based on the system design in the three-dimensional workspace and execute the simulation code in response to a command from the user. One or more of the components in the three-dimensional workspace may be animated during execution of the simulation code. The controller code generation unit is configured to identify one or more physical controllers corresponding to the components in the three-dimensional workspace and generate controller executable code for those physical controllers based on the system design.
**Title of the invention:** BAYESIAN CAUSAL RELATIONSHIP NETWORK MODELS FOR HEALTHCARE DIAGNOSIS AND TREATMENT BASED ON PATIENT DATA

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**Abstract:**

Systems methods and computer readable medium are provided for healthcare analysis. Data corresponding to a plurality of patients is received. The data is parsed to generate normalized data for a plurality of variables with normalized data generated for more than one variable for each patient. A causal relationship network model is generated relating the plurality of variables based on the generated normalized data using a Bayesian network algorithm. The causal relationship network model includes variables related to a plurality of medical conditions or medical drugs. In another aspect a selection of a medical condition or drug is received. A sub network is determined from a causal relationship network model. The sub network includes one or more variables associated with the selected medical condition or drug. One or more predictors for the selected medical condition or drug are identified.

No. of Pages: 47  No. of Claims: 64
An information providing method of an electronic device is provided. The information providing method includes determining a selected area based on a user input determining an extraction method based on types of one or more objects included in the selected area extracting information from the selected area according to the determined extraction method and performing a specific function based on the information.
Abstract:
The present disclosure relates to a pre-5th-Generation (5G) or 5G communication system to be provided for supporting higher data rates Beyond 4th-Generation (4G) communication system such as Long Term Evolution (LTE). A method for adding an operating channel for a user equipment (UE) that uses an unlicensed band channel by an evolved Node B (eNB) in a mobile communication system is provided.

No. of Pages : 50 No. of Claims : 15
Title of the invention: ADSORBENT FOR ORAL ADMINISTRATION THERAPEUTIC AGENT FOR RENAL DISEASES AND THERAPEUTIC AGENT FOR HEPATIC DISEASES

Abstract:

An object of the present invention is to provide an adsorbent for oral administration capable of adsorbing large quantities of indole in the presence of bile acid. The above problem can be solved by an adsorbent for oral administration comprising a spherical activated carbon, the activated carbon having a specific surface area determined by the BET method of 800 m²/g or more, a bulk density of from 0.3 g/mL to 0.8 g/mL, a volume of pores having a diameter less than 3 nm of 0.3 mL/g or more, and a micropore/mesopore ratio (Vm) determined by Formula (1): Vm = Vmic/Vmet where Vmic is a volume of pores having a diameter less than 3 nm, and Vmet is a volume of pores having a diameter from 3 nm to 50 nm; of 3.0 or more.

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No. of Pages: 28 No. of Claims: 5
Abstract:
Methods and devices for interconnection of Printed Circuit Boards (PCB) and to one another or to other components using ultra low profile electrical connectors. Examples include male and female inserts for placement in the plane of a PCB and PCB assemblies comprising one or the other of male or female inserts for such placement. Further examples include surface mounted male and female connectors and PCB assemblies in which the connectors comprise base members and connector elements configured to couple to corresponding assemblies on other PCB assemblies by movement in a horizontal plane relative to the PCB.

No. of Pages: 15 No. of Claims: 21
(54) Title of the invention: METHODS FOR DETECTING OVARIAN CANCER

(51) International classification: G01N33/483, G01N33/50, G01N33/574
(31) Priority Document No: 20145855
(32) Priority Date: 02/10/2014
(33) Name of priority country: Finland
(86) International Application No: PCT/FI2015/050654
Filing Date: 02/10/2015
(87) International Publication No: WO 2016/051020
(61) Patent of Addition to Application No: NA
Filing Date: NA
(62) Divisional to Application No: NA
Filing Date: NA

(57) Abstract:
The present description is related to the field of ovarian cancer diagnostics. It introduces novel biomarkers that can be used to detect presence of ovarian cancer and to provide a prognosis of the disease.

No. of Pages: 30 No. of Claims: 21
The present invention provides compounds, compositions thereof, and methods of using the same.

No. of Pages : 274 No. of Claims : 36
(54) Title of the invention : FRIED INSTANT NOODLES

(51) International classification : A23L7/113
(31) Priority Document No : 2015179457
(32) Priority Date : 11/09/2015
(33) Name of priority country : Japan
(86) International Application No : PCT/JP2016/071293
   Filing Date : 20/07/2016
(87) International Publication No : WO 2017/043187
(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 :
[Problem] To provide fried instant noodles having a reduced fat and oil content compared with conventional fried instant noodles.
[Solution] Fried instant noodles in which the formation of a layered network structure of gluten in noodle lines is suppressed and therefore which has a porous structure with a small number of pores and a low porosity. Thus the fat and oil content of the fried noodles can be reduced.
Title of the invention: NON TEMPERED SOFT NITRIDED COMPONENT

Abstract:
A non tempered soft nitrided component that comprises a base steel material having a chemical composition which comprises in terms of mass% 0.35 0.50% C 0.10 0.35% Si 2.3 2.8% Mn up to 0.10% S 0.0030 0.0250% N 0 1.0% Cu 0 0.3% Mo 0 0.5% Ni 0 0.020% Ti and Fe and impurities as the remainder and which satisfies 3.10=(0.316C+0.122)—(0.7Si+1)—(5.1Mn 1.12)—(0.364Ni+1)—(2.16Cr+1)—(3Mo+1)=6.00 the impurities including P Al and Cr in amounts of up to 0.08% up to 0.05% and less than 0.20% respectively. In the non tempered soft nitrided component a stress concentration part has a hardness HV as measured at a depth of 0.05 mm from the surface of 410 480 and a hardness HV as measured at a depth of 1.0 mm from the surface of 200 or greater and has a compound layer depth of 5 µm or less. The metallographic structure of the base steel material is a bainite structure. The non tempered soft nitrided component has excellent straightenability and high fatigue strength.
Title of the invention: METHOD FOR PRODUCING PRESS MOLDED ARTICLE PRODUCTION APPARATUS AND PRODUCTION LINE

Abstract:
This press molded article is provided with a top panel part a vertical wall part and a ridgeline part between the vertical wall part and the top panel part and has a shape variation part produced in a portion of the ridgeline part. The method for producing press molded article includes: a preparatory step for preparing a material of a metal sheet; and a press working step for carrying out press working of the material using a punch a pad arranged facing the distal end surface of the punch and a die capable of accommodating the pad. The press working step includes: a step for holding the pad at a location separated by a prescribed distance from the punch for a period beginning from when pushing of the material into the die by the punch has commenced or immediately thereafter until pressing of the punch with respect to the die reaches a point a prescribed distance short of bottom dead center; a step for accommodating the pad in the die when pressing of the punch with respect to the die has reached the point a prescribed distance short of bottom dead center; and a step for continuing to press the punch as far as bottom dead center with respect to the die and the pad and forming the top panel part the vertical wall part and the ridgeline part.
An anti flickering processing method is disclosed in the present invention. The method includes: determining the luminance values in more than one edge direction of a pixel to be processed; determining according to the determined luminance values in more than one edge direction the adjusting edge direction of the pixel to be processed; and adjusting according to the luminance values of the pixels at the two ends in the determined adjusting edge direction the luminance value of the pixel to be processed and by adopting the adjusted luminance value performing display processing on the pixel to be processed. Meanwhile an anti flickering device and a computer storage medium are also disclosed in the present invention.
Abstract:
Disclosed are an encrypted communications method and communications terminal. The method comprises: reading from a first NFC security label the encryption algorithm and the index of the encryption algorithm; using the encryption algorithm to encrypt a data packet to be transmitted so as to generate an encrypted data packet; transmitting the encrypted data packet; transmitting the index; the index is configured so that the target communications terminal can obtain the encryption algorithm and decrypt the encrypted data packet. Also disclosed is a computer storage medium.
(54) Title of the invention : MODULAR BUMPER BEAM

(51) International classification : B60R19/18
(31) Priority Document No : 62/084005
(32) Priority Date : 25/11/2014
(33) Name of priority country : U.S.A.
(86) International Application No : PCT/IB2015/059130
    Filing Date : 25/11/2015
(87) International Publication No : WO 2016/084020
(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 :
An energy absorber for a vehicle, comprising: a continuous beam to extend across a width of vehicle, the beam defining a plurality of inward facing cavities in a center section, with adjacent inward facing cavities separated from one another by an inward facing rib, and at each end portion a plurality of outward facing cavities, with adjacent outward facing cavities separated from one another by an outward facing rib, wherein the center section includes a panel that is continuous on its outward side, and that forms a relative bottom of each of the plurality of inward facing cavities with its inward face.
The present invention is directed to a novel compound of Formula 1 wherein the radiolabeled compound of Formula 1 is capable of being used as a radiotracer in PET imaging of a targeted localized tissue and targeted radionuclide therapy of one or more conditions that may be regulated or normalized via inhibition of transporter such as Pgp, BCRP or MRP I. The novel compounds of Formula 1 can also be used as substrates for binding with one or more ABC transporters. In particular, the present invention aids in diagnosis and therapeutic treatment of MDR disorders in all forms of cancers and neurological disorders of the central nervous system. The present invention further provides methods of preparation of compounds of Formula 1 and novel intermediates used in the preparation of compounds of Formula 1.

### Abstract:
The present invention is directed to a novel compound of Formula 1 wherein the radiolabeled compound of Formula 1 is capable of being used as a radiotracer in PET imaging of a targeted localized tissue and targeted radionuclide therapy of one or more conditions that may be regulated or normalized via inhibition of transporter such as Pgp, BCRP or MRP I. The novel compounds of Formula 1 can also be used as substrates for binding with one or more ABC transporters. In particular, the present invention aids in diagnosis and therapeutic treatment of MDR disorders in all forms of cancers and neurological disorders of the central nervous system. The present invention further provides methods of preparation of compounds of Formula 1 and novel intermediates used in the preparation of compounds of Formula 1.

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### Abstract:

The present invention is directed to a novel compound of Formula 1 wherein the radiolabeled compound of Formula 1 is capable of being used as a radiotracer in PET imaging of a targeted localized tissue and targeted radionuclide therapy of one or more conditions that may be regulated or normalized via inhibition of transporter such as Pgp, BCRP or MRP I. The novel compounds of Formula 1 can also be used as substrates for binding with one or more ABC transporters. In particular, the present invention aids in diagnosis and therapeutic treatment of MDR disorders in all forms of cancers and neurological disorders of the central nervous system. The present invention further provides methods of preparation of compounds of Formula 1 and novel intermediates used in the preparation of compounds of Formula 1.
A flexible battery is provided. A flexible battery according to one embodiment of the present invention comprises: an electrode assembly; and an exterior material for sealing the electrode assembly along with an electrolyte. Both the electrode assembly and the exterior material are formed such that patterns for contraction and relaxation with respect to the longitudinal direction have the same directionality in the event of being bent. As such the patterns for contraction and relaxation with respect to the longitudinal direction are formed on both the exterior material and the electrode assembly thereby preventing or minimizing deterioration of the required physical property even if bending occurs.
A multi functional curved board to be used when working in standing position and for working when sitting down as a support for feet and generally for maintaining muscle strength the multi functional curved board having at least one curved body (1). The body (1) comprises at least one counter curve means (3). One surface (1 b) of the body is curved outwards and the counter curve means are fastened to a surface (1 a) opposite this surface (1 a) adjacent the end sides (1 d) of the body (1) and the counter curve means are curved outwards from the opposite surface of the body (1).
(54) Title of the invention: GRILLE SHUTTER MODULE

(51) International classification: B60K11/04, B60R19/52, B60R21/00

(31) Priority Document No: 2014264232
(32) Priority Date: 26/12/2014
(33) Name of priority country: Japan
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(86) International Application No: PCT/JP2015/080916
Filing Date: 02/11/2015
(87) International Publication No: WO 2016/103919

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

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

(57) Abstract:
This grille shutter module is provided with: a radar unit which emits radio waves forward; movable flaps which are arranged on either side of the radar unit; an actuator which is disposed behind the radar unit; and power transmission parts which are configured to connect the actuator with the flaps so as to transmit power from the actuator to the flaps.

No. of Pages: 14
No. of Claims: 4
This invention relates to compounds. More specifically the invention relates to compounds useful as inhibitors of the Wnt signalling pathway. Specifically inhibitors of Porcupine (Porcn) are contemplated by the invention. In addition the invention contemplates processes to prepare the compounds and uses of the compounds. The compounds of the invention may therefore be used in treating conditions mediated by the Wnt signalling pathway for example treating cancer sarcoma melanoma skin cancer haematological tumors lymphoma carcinoma and leukemia; or enhancing the effectiveness of an anti cancer treatment.
An aqueous adhesive which is obtained by blending a metal compound and a silane coupling agent into a vinyl acetate resin emulsion that is obtained: by emulsion polymerizing a vinyl acetate monomer with use of polyvinyl alcohols containing an acetoacetylated polyvinyl alcohol and an ethylene modified polyvinyl alcohol as a protective colloid; or by emulsion copolymerizing a vinyl acetate monomer and a monomer having an acetoacetyl group in the presence of a chain transfer agent.

No. of Pages : 20  No. of Claims : 15
In one implementation a processor: (1) receives an image of a candidate mark from an image acquisition device (2) uses the image to measure one or more characteristics at a plurality of locations on the candidate mark resulting in a first set of metrics (3) removes from the first set of metrics a metric having a dominant amplitude resulting in a trimmed first set of metrics (4) retrieves from a computer readable memory a second set of metrics that represents one or more characteristics measured at a plurality of locations on an original mark (5) removes from the second set of metrics a metric corresponding to the metric removed from the first set of metrics resulting in a trimmed second set of metrics (6) compares the trimmed first set of metrics with the trimmed second set of metrics and (7) determines whether the candidate mark is genuine based on the comparison.
Abstract:
A ballast circuit suitable for driving an LED or similar load comprises a primary switch mode converter means for measuring a modulation such as a phase cut as used for dimming light levels on an input AC supply a current regulator positioned in series with the load and a feedback controller for controlling operation of the switch mode controller based upon measured modulation levels. The feedback controller is adapted to interrupt normal switching of the switch mode converter if modulation levels detected lead to the ballast working at a lower than desired efficiency (deep dimming) or if voltage levels across the current regulator are higher than desired. The feedback controller may have a further feedback means for controlling switch mode parameters during lower levels of modulation (shallow dimming). The circuit allows large dimming levels to be achieved without generating appreciable light flicker in the load.
Provided are compositions and methods that are useful for clarifying water reducing turbidity of water and removing salts from water. The compositions comprise (a) an anionic flocculant comprising at least one of an alkali swellable emulsion (ASE) or hydrophobically modified alkali swellable emulsion (HASE) and (b) a cationic flocculant comprising (i) an aluminum containing compound and (ii) a copolymer of acrylamide and a cationic monomer comprising at least one of a diallyldialkylammonium quaternary compound acrylamidoalkyltrialkylammonium quaternary compound methacrylamidoalkyltrialkylammonium quaternary compound and mixtures thereof.

No. of Pages : 17 No. of Claims : 10
Foamable polymeric compositions comprising a peroxide modified linear low density polyethylene which comprises the reaction product of a peroxide and a linear low density polyethylene and a blowing agent. The peroxide modified linear low density polyethylene is thermoplastic. Also disclosed are foamed polymeric compositions prepared from such foambale polymeric compositions and methods for making such foamed polymeric compositions. The foamed polymeric compositions described herein are suitable for use in a variety of articles of manufacture particularly in the wire and cable industry.
Title of the invention: METHOD COMMUNICATION DEVICE AND COMPUTER PROGRAM FOR ENABLING DEVICE TO DEVICE D2D COMMUNICATION FOR AN OUT OF NETWORK COVERAGE COMMUNICATION DEVICE

Abstract:
A method is disclosed for enabling device to device D2D communication when a wireless communication device is out of public land mobile network PLMN coverage for a first radio access technology RAT. The method comprises in the wireless communication device scanning a carrier associated with a carrier predetermined for D2D communication for any signals and if the scanning determines that D2D communication is present on the carrier initiating out of coverage D2D communication or if the scanning cannot determine that D2D communication is present on the carrier determining a signal strength of other signals on the carrier and if the signal strength is below a threshold initiating out of coverage D2D communication. Alternatively the method comprises in the wireless communication device scanning a carrier for at least a second RAT and if a second RAT is detected determining a PLMN of the detected RAT and accessing data on the determined PLMN about out of coverage D2D communication permissions and if out of coverage D2D communication is permitted in the determined PLMN initiating out of coverage D2D communication. A communication device and computer program accordingly are also disclosed.

No. of Pages: 13
No. of Claims: 19
(54) Title of the invention : RESISTIVITY LOGGING TOOLS WITH TILTED FERRITE ELEMENTS FOR AZIMUTHAL SENSITIVITY

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<td>(37) Name of inventor</td>
<td>:WU Hsu hsiang</td>
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(57) Abstract :  
An example logging tool includes a tool body characterized by a longitudinal axis and an antenna coupled to the tool body. The logging tool further includes a ferrite element coupled to the tool body proximate at least a portion of the antenna and in a non parallel orientation with respect to a normal of a plane defined by the antenna.
(57) Abstract:
The present invention describes new pyridopyrimidine derivatives compounds with structure represented by General Formula (I): General Formula (I) or pharmaceutically acceptable salts thereof or their mixtures (in any ratio) a pharmaceutical composition containing them a method for using the new pyridopyrimidine derivatives compounds as inhibitor of the cyclic nucleotide synthesis or as inhibitor of the cAMP and cGMP synthesis and their uses in the prophylactic and/or curative treatment of diarrhea colitis and irritable bowel syndrome.
Abstract:

[Problem] To provide: a medical container for accommodating a protein solution preparation therein in which the denaturation of a protein contained in the protein solution preparation including the oxidation of an amino acid residue in the protein does not occur; a packed protein solution preparation which comprises a protein solution preparation accommodated in the medical container; and a packaged product of a packed protein solution preparation in which the deterioration in quality of the protein solution preparation or the deactivation of the protein solution preparation which is caused by the oxidation, polymerization, anionization or the like of the protein can be prevented more effectively. [Solution] A medical container made from a cyclic olefin polymer which is sterilized with high pressure steam has a property of preventing the oxidation of an amino acid residue in a protein and can accommodate a protein solution preparation therein; a medical container made from a cyclic olefin polymer which is sterilized with high pressure steam has a radical content of $2.2 - 10^2$ /g or less as determined using an electron spin resonance spectrometer and can accommodate a protein solution preparation therein; a packed protein solution preparation which comprises a protein solution preparation accommodated in the medical container; a deoxygenated packaged product which comprises the packed protein solution preparation and a deoxygenating agent both packaged with a poorly oxygen permeable packaging material; and a deoxygenated packaged product as mentioned above which is packaged with a packaging material having light blocking properties.

No. of Pages : 73 No. of Claims : 13
(12) PATENT APPLICATION PUBLICATION

(19) INDIA

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(43) Publication Date: 25/08/2017

(54) Title of the invention: STEVIA EXTRACTS ENRICHED IN REBAUDIOSIDE D E N AND/OR O AND PROCESS FOR THE PREPARATION THEREOF

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(57) Abstract: A Stevia extract made from leaves of the Stevia rebaudiana plant is described. The extract has desired levels of steviol glycosides wherein any one or more of Rebaudioside D E N 0 is present a higher concentration and is useful in food, beverage and other consumable products.

No. of Pages: 72 No. of Claims: 6

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The Patent Office Journal No. 34/2017 Dated 25/08/2017 27732
An ultrasound inspection apparatus (56; 330) for use with coordinate positioning apparatus (50) is described. The apparatus (56; 330) includes a base module (58; 321) that is attachable to the moveable member of the coordinate positioning apparatus (50). The base module (58; 321) comprises an ultrasound transducer (92) and a first connector portion (98; 322). A plurality of coupling modules (60 66; 180 191; 332) are also provided that each include a second connector portion (100) that is releasably attachable to the first connector portion (98; 322) of the base module (58; 321). The coupling modules (60 66; 180 191; 332) also include a coupling element (104) which may be a sphere of self lubricating material such as a hydro gel for contacting and acoustically coupling to an object to be inspected. This allows different coupling modules (60 66; 180 191; 332) to be attached to the base module (58; 321) to perform different ultrasound inspection tasks.
Title of the invention: COMB POLYURETHANE DISPERSANTS

Abstract:
Embodiments described herein provide a dispersant for ink and pigmented coatings. The dispersant is a polyurethane having oxamide diol groups. The dispersant may be used to prepare a wide variety of inks and coatings having high pigment loading and existing within a conventionally useful viscosity range.

No. of Pages: 16 No. of Claims: 20
An electrical assembly (10) includes a connector body (30) extending along a body axis (40) between a mating end (32) and a cable end (34). The connector body has a body groove (52) at the mating end having a deep groove section (82) and a shallow groove section (84). A retaining ring (50) is received in the body groove that is compressible between a relaxed state and a compressed state. The retaining ring is able to be compressed to the compressed state when aligned with the deep groove section and is blocked from being compressed to the compressed state when aligned with the shallow groove section. A coupling nut (36) is rotatable about the mating end of the connector body and is configured to be coupled to a receiving connector (14). The coupling nut has a coupling nut groove (70) receiving the retaining ring when the retaining ring is in the relaxed state.
The multi section deployable and articulating endoscope is designed with tubing and flat cables that are small enough that the endoscope becomes a thin stick that is minimally invasive and usable with other devices in a common port. The endoscope includes very thin flat cables that are used for electrical connectivity and threaded above and below an articulation and deployment hinge for opening the endoscope passively using an adjustable tension spring or by pulling on a first cable and closing the endoscope by pulling on a second cable. When in a tubular configuration the endoscope may be inserted into the port and an insufflation membrane inside the port forms an air seal with the endoscope which aids in insufflation and desufflation. The endoscope includes one or more tubes for creating an air jet stream above the camera to act as a shield for keeping the camera clean.
A terminal comprising a battery (11) and a charging interface (12); the terminal forms a charging loop with a power adapter via the charging interface so as to charge the battery; the terminal further comprises a temperature detection circuit (13) a control circuit (14) and a heating device (15). When the power adapter is connected to the terminal the control circuit detects the temperature of the battery via the temperature detection circuit and if the detected temperature of the battery is less than a first threshold then the control circuit maintains the charging loop to disconnect and controls the heating device to heat the battery; and if the detected temperature of the battery is greater than the first threshold then the control circuit controls the charging loop to connect so as to charge the battery thus ensuring that the battery is charged at a proper temperature and solving the problem of low temperature charging.
The present invention concerns improved methods and compositions for neoadjuvant use of antibody-drug conjugate (ADCs) in cancer therapy, preferably ADCs comprising an anthracycline or camptothecin, more preferably SN-38 or pro-2-pyrrolinodoxorubicin (P2PDox). The ADC is administered as a neoadjuvant, prior to treatment with a standard anti-cancer therapy such as surgery, radiation therapy, chemotherapy, or immunotherapy. Neoadjuvant use of the ADC substantially improves the efficacy of standard anti-cancer therapy and may debulk a primary tumor or eliminate micrometastases. In most preferred embodiments, neoadjuvant ADC in combination with a standard anti-cancer therapy is successful in treating cancers that are resistant to standard treatments, such as triple-negative breast cancer (TNBC).
(54) Title of the invention : ARIMOCLOMOL FORMULATION


(31) Priority Document No : PA 2014 70566
(32) Priority Date : 15/09/2014
(33) Name of priority country : Denmark

(86) International Application No : PCT/DK2015/050275
Filing Date : 15/09/2015

(87) International Publication No : WO 2016/041561

(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 pharmaceutical formulation which provides for extended release of an active pharmaceutical ingredient selected from N-[2 hydroxy 3 (1 piperidinyl) propoxy] pyridine 1 oxide 3 carboximidoyl chloride its stereoisomers and the acid addition salts thereof.

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4) CAMOZZI Carlos Roberto

No. of Pages : 77  No. of Claims : 49
The present invention is directed towards a medicament comprising a capsaicinoid possessing antiviral activity and useful in the treatment of viral infections and in the treatment of HIV/AIDS. The medicament also possesses neuroplasticity enhancing activity and is useful in the treatment of stress and other psychological conditions. Further the medicament possesses anti inflammatory activity and is useful in the treatment of arthritis. The medicament has also been shown to possess antibacterial activity.
A track switch for a magnetic levitation transport system includes a trunk segment of track and an upper branch segment of track and a lower branch segment of track and a divergent zone. The divergent zone has coextensive spaced rails extending from the trunk segment and splitting into upper rails extending to the upper branch segment and lower rails extending to the lower branch segment so that a vehicle engaging the rails and entering the switch at the trunk segment is guided and magnetically levitated to a selected one of either the upper branch segment or the lower branch segment.
Title of the invention: CHANNEL STATE INFORMATION REPORTING WITH BASIS EXPANSION FOR ADVANCED WIRELESS COMMUNICATIONS SYSTEMS

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Abstract:
Scalable channel state information feedback for FD-MIMO involves quantizing the downlink channel according to a finite set of basis vectors to reduce the number of coefficients quantized and reported from a user equipment to a base station. The procedure includes measurement at the base station of angle of arrival spread for uplink signal reception from the user equipment and signaling that spread to the user equipment. The user equipment then quantizes the MIMO channel according to a sub-scheme configured based upon the signaled spread and reports (feeds back) the quantized channel to the base station.
A remote controller apparatus including: a communicator configured to communicate with an external device displaying a pointing object thereon; a sensor configured to sense a movement of the remote controller apparatus; and a controller configured to control movement of the pointing object based on the movement of the remote controller apparatus determine position information corresponding to the movement of the remote controller apparatus with a first method when the remote controller apparatus operates in a first operating mode determine the position information corresponding to the movement of the remote controller apparatus with a second method when the remote controller apparatus operates in a second operating mode control the movement of the pointing object based on the position information and change the operating mode of the remote controller apparatus in response to a preset event occurring.
The invention relates to a mechanism (10) for restraining a passenger (20) restrained in a restraint system (40) of an amusement ride (10) comprising at least one sensor device (30) which includes means (34) for verifying whether there is a form fit between the passenger (20) and the mechanism (10).
Abstract:
An absorbent article comprises a topsheet on the wearer facing side and a backsheet on the garment facing side and an absorbent core positioned between the topsheet and the backsheet. The absorbent core comprises an absorbent material comprising a superabsorbent polymer a core wrap enclosing the absorbent material and a first channel disposed on one side of the longitudinal axis and a second channel disposed on the other side of the longitudinal axis.
Embodyments of the invention provide systems and methods for heat transfer at temperatures in the range of -40 °C to 1,300 °C over long distances with minimal heat losses. The systems consist of advanced heat pipes configured such that they fit in side drilling holes or in horizontal distance over industrial plants, and effectively transfer heat requiring minimal water, CO2, or steam injection, and that operate without user intervention for many years.
Abstract:
Provided herein are myeloid cell leukemia 1 protein (Mcl 1) inhibitors methods of their preparation related pharmaceutical compositions and methods of using the same. For example provided herein are compounds of Formula I (I) and pharmaceutically acceptable salts thereof and pharmaceutical compositions containing the compounds. The compounds and compositions provided herein may be used for example in the treatment of diseases or conditions such as cancer.

[Chemical Structure Image]
(54) Title of the invention: GENE ANALYSIS AND GENERATION OF STEM CELL METHODS AND APPARATUS

(51) International classification: A61B10/02, A61B10/04, A61M1/00

(31) Priority Document No: 62/046290
(32) Priority Date: 05/09/2014
(33) Name of priority country: U.S.A.

(86) International Application No: PCT/US2015/048687
     Filing Date: 04/09/2015

(87) International Publication No: WO 2016/037132

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

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

(57) Abstract:
A surgical treatment apparatus comprises a waterjet configured to fragment tissue and provide intact cells such as stem cells with the fragmented tissue. The intact cells can be used in one or more of many ways such as for genetic or other testing and the intact cells can be identified as stem cells. In many embodiments the intact cells comprise stem cells. In many embodiments a waterjet is configured to fragment tissue. The fragmented tissue can be collected with a filter having pores sized smaller than the tissue fragments. In many embodiments cavitation with a waterjet is used to fragment the tissue comprising the intact stem cells. The waterjet may comprise a waterjet immersed in a liquid comprising water so as to form a plurality of shedding pulses. The plurality of shedding pulses can be generated with a frequency sufficient to fragment the tissue. The shedding pulses can generate cavitations that fragment the tissue.
Methods that rapidly sensitively and specifically detect mutations in IDH1/2 and the TERT promoter employ amplification of particular portions of the genes that experience frequent and exquisitely localized mutations. The ability to distinguish between sequences that differ only by one nucleotide and which may be present in very low ratios is essential for such an assay.
The vehicle front body structure (2) comprises an upper longitudinal beam (10, 12) and a reinforcing element (14, 16) for reinforcing the wheel casing of the vehicle, said reinforcing element (14, 16) extending in a longitudinal direction substantially parallel to the upper longitudinal beam (10, 12), said upper longitudinal beam (10, 12) comprising an attachment portion (40), comprising an attachment area for attaching a connecting element (8) joining the upper longitudinal beam (10, 12) to a lower beam (22, 24) of the vehicle. The vehicle front body structure (2) further comprises a linking element (18, 20) joining the reinforcing element (14, 16) and the upper longitudinal beam (10, 12). The linking element (18, 20) is attached to the attachment portion (40) of the upper longitudinal beam (10, 12).
METHOD FOR PRODUCING A DOOR ELEMENT OF AN AUTOMOTIVE VEHICLE AND DOOR ELEMENT OF AN AUTOMOTIVE VEHICLE

A method for producing a door element comprising a planar panel (30) and protruding edges (32a 32b 32c) each edge (32a 32b 32c) being joined to at least one adjacent edge (32a 32b 32c) by a joining edge comprising: providing a rectangular planar blank cutting out said blank to retrieve a corner part being adapted to form a joining edge (34) stamping the cut out blank to obtain a door element part (52) comprising the panel (30) and the edges (32a 32b 32c) said edges (32a 32b 32c) being separated one from the others joining the adjacent edges (32a 32b 32c) by attaching a joining part (54) to the door element part said joining part (54) being made of a material different from the material of the door element part (52) and forming a joining edge.
Provided herein are immunogenic compositions comprising a recombinant modified vaccinia virus Ankara (MVA) comprising a nucleic acid sequence encoding a flagellin, and a nucleic acid sequence encoding a heterologous disease-associated antigen, wherein the immunogenic composition induces increased T-cell and antibody mediated immune responses specific for the heterologous disease-associated antigen when administered to a subject, e.g. a human subject, and related methods and uses.
Title of the invention: METHODS FOR PRODUCING A THREE DIMENSIONAL VEHICLE DOOR FRAME INNER REINFORCEMENT ELEMENT FOR PRODUCING A VEHICLE DOOR FRAME AND FOR PRODUCING A VEHICLE REINFORCEMENT STRUCTURE

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

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2) DROUADAINE Yves

(57) Abstract:
Methods for producing a three dimensional vehicle door frame inner reinforcement element for producing a vehicle door frame and for producing a vehicle reinforcement structure A method for producing a three dimensional vehicle door frame inner reinforcement element (52) comprising an inner center pillar part (66) an inner front pillar part (68) and an inner side rail part (64) joining the inner center pillar part (66) and the inner front pillar part (68). The method comprises: providing an inner center pillar blank an inner front pillar blank and an inner side rail blank said inner blanks being substantially planar assembling the inner center pillar blank and the inner front pillar blank to the inner side rail blank in order to form a substantially planar door frame inner reinforcement blank hot stamping the door frame inner reinforcement blank to shape the three dimensional door frame inner reinforcement element (52).

No. of Pages: 20 No. of Claims: 15
A method of encoding and decoding a human inaudible acoustic signal 240 embedded within audio content suitable for use within the processor of an encoding and broadcasting system or a decoding and receiving system 200, 202. A binary message is encoded into a sequence 1000, 2000 of symbols selected from a group of four or eight symbols each symbol encoding two or three binary bits with an associated frequency. The human inaudible acoustic signal may have a variable length with the length of the signal encoded in a header 1002, 1008, 2002, 2009. The encoding uses both forward error correction and cyclic redundancy coding to increase the robustness of the transmission. Furthermore the binary bits encoded by the symbols are selected such that a Hamming distance of a single bit transformation exists between symbols associated with adjacent frequencies so that a frequency error creates only a single bit error.
The present disclosure relates to communication sessions between a first node and a plurality of other nodes. Two cryptographic keys are generated. A first cryptographic key is generated (113A) in a first node (10) e.g. Node A. A second cryptographic key is generated (113B) by a second node (22) which is a virtual and temporary node which is executed on a server (20). The second cryptographic key is transmitted to several other nodes (30). The first and second cryptographic keys which are the same may then be applied in communication sessions between the first node (10) and the several other nodes (30). Hereby it is made possible to allow for node to multinode communication sessions that offer the same or substantially the same security as conventional node to node communication sessions.
The present invention relates to an electric arc control device (1 50) comprising: a contact area (2) in which at least one stationary contact (3) and at least one contact (4) which is movable relative to the stationary contact (3) are located; the contacts (3, 4) being contactable and separable with and from each other; and an arcing horn (10) opposite the stationary contact (3). The height $h_c$ of the arcing horn (10) is no shorter than the height $h_t$ of the stationary contact (3) and the arcing horn (10) has an arc switching portion (12) that is folded on itself and extends in a direction opposite the stationary contact (3).
A threaded tubular connection comprises a male threaded element disposed at the end of a first tubular component and a female threaded element disposed at the end of a second tubular component. The male threaded element comprises two male threadings: an outer and an inner. A first outer peripheral surface is disposed between the male threadings. A first male sealing surface is provided on said outer peripheral surface. A male axial abutment surface is disposed at the end of the male threaded element. A second male sealing surface is provided between the inner threading and the male axial abutment surface.

The female threaded element comprises two female threadings: an outer and an inner. An inner peripheral surface is disposed between the female threadings. At least one first female sealing surface is provided on said inner peripheral surface. A female axial abutment surface is disposed at the end of the female threaded element. A second female sealing surface is provided between the female axial abutment surface and the inner female threading.

In the coupled state, the threads of said male and female threadings are engaged. The male axial abutment surface and the female axial abutment surface are abutted and engaged in the coupled state. The male and female inner threadings are engaged in the coupled state. The male sealing surface and the female sealing surface are in sealing contact in the coupled state.

No. of Pages: 19  No. of Claims: 17
A lubricant composition comprises as a lubricant base, an oil soluble polyalkylene glycol suitable for use as a lubricant in an industrial oil, grease or metal working fluid; and an additive comprising (1) alkylated phenyl-a-naphthylamine; and (2) 2,2,4-trialkyl-1,2-dihydroquinoline.
**Title of the invention:** METHODS FOR INCREASING RED BLOOD CELL LEVELS AND TREATING SICKLE-CELL DISEASE

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**Abstract:**
In certain aspects, the present disclosure provides compositions and methods for increasing red blood cell and/or hemoglobin levels in vertebrates, including rodents and primates, and particularly in humans. In some embodiments, the compositions of the disclosure may be used to treat or prevent sickle-cell disease or one or more complications associated with sickle-cell disease.

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According to some aspects, a laminate panel is provided. The laminate panel comprises at least one laminate layer including at least one non-conductive layer and at least one conductive layer patterned to form at least a portion of a B0 coil configured to contribute to a B0 field suitable for use in low-field magnetic resonance imaging (MRI).
Title of the invention: NOISE SUPPRESSION METHODS AND APPARATUS

Abstract:
According to some aspects a method of suppressing noise in an environment of a magnetic resonance imaging system is provided. The method comprising estimating a transfer function based on multiple calibration measurements obtained from the environment by at least one primary coil and at least one auxiliary sensor respectively estimating noise present in a magnetic resonance signal received by the at least one primary coil based at least in part on the transfer function and suppressing noise in the magnetic resonance signal using the noise estimate.

No. of Pages : 34 No. of Claims : 49
The invention relates to a valve device (10) for a fuel injection system (22), comprising a high-pressure feed bore (20) and a sealing element (14), which interacts with a valve seat (18), for opening and closing the high-pressure feed bore (20), wherein the high-pressure feed bore has a first diameter (DH1) adjacent to the valve seat (18) and a second diameter (DH2) at a distance from the valve seat (18), which second diameter is smaller than the first diameter (DH1) in order to form an orifice (48). The invention further relates to a fuel injection system (22) that comprises the valve device (10).
The present invention relates to a primer comprising a sequence of any one of SEQ ID NO: 1 to SEQ ID NO: 4. The invention further relates to an in-vitro method for distinguishing a normal CD18 protein allele from a defective CD18 protein allele in a bovine animal comprising assaying the nucleic acid of said animal for a point mutation at base 383 in the gene encoding said protein.

No. of Pages : 6 No. of Claims : 0
The present invention provides an elevator brake and a cushion replacement method of the elevator brake, and relates to the field of elevator braking technologies. The elevator brake of the present invention includes a first block and a second block that collide with each other during braking, and a cushion located between the first block and the second block, and further includes a cushion support detachably mounted on the first block or the second block, where the cushion is disposed on the cushion support. A cushion of the elevator brake in the present invention can be replaced without disassembling the whole elevator brake.
The invention relates to a finishing apparatus (10), comprising a workpiece-receiving device (14), a rotary drive (16) for driving a workpiece (20) in rotation about a workpiece axis (22), an oscillatory drive (26) for producing a relative movement between the workpiece (20) and a finishing tool in a direction that is parallel to the workpiece axis (22), comprising a workpiece-conveying device (28), which has a workpiece holder (34) that can be moved by means of a drive device between a working position for machining the workpiece (20) and a loading/unloading position for providing a machined workpiece (20) and for removing a machined workpiece (20), the workpiece holder (34) comprising a support device (48) for supporting a workpiece (20), the drive device being formed as a swivel drive such that the workpiece holder (34) can be swiveled between the working position and the loading/unloading position along an arcuate swivel path. (Fig. 1)
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| (31) Priority Document No | :62/298137 |
| (32) Priority Date | :22/02/2016 |
| (33) Name of priority country | :U.S.A. |
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| 5)Jared NELSON |
| (57) Abstract | Described herein are water-soluble UV-absorbing vinylic monomers and their uses in preparing UV-absorbing contact lenses capable of blocking ultra-violet (UV) radiation and optionally (but preferably) violet radiation with wavelengths from 380 nm to 440 nm, thereby protecting eyes to some extent from damages caused by UV radiation and potentially from violet radiation. This invention also provides a UV-absorbing contact lens. |
The invention is related to a method for producing silicone medical devices, in particular, silicone contact lenses, having consistent mechanical properties in a cost-effective manner. The invention is also related to a silicone medical device, especially a soft silicone contact lens.
Title of the invention: PROPORTIONAL PRESSURE CONTROLLER WITH ISOLATION VALVE ASSEMBLY

Abstract:
A proportional pressure controller includes a body having inlet, outlet, and exhaust ports. A fill valve communicates with pressurized fluid in the inlet port. A dump valve communicates with pressurized fluid from the fill valve. An inlet poppet valve opens by pressurized fluid through the fill valve. An exhaust poppet valve when closed isolates pressurized fluid from the exhaust port. An outlet flow passage communicates with pressurized fluid when the inlet poppet valve is open, and communicates with the outlet port and an exhaust/outlet common passage. An isolation valve assembly selectively isolates fluid flow to and from the inlet port or the exhaust port to achieve a zero pressure condition.
Title of the invention: REINFORCED WIND TOWER

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Abstract:
Reinforced wind turbine tower (1) formed by a hollow body (2), which comprises in its interior at least one reinforcement structure (3) formed by a series of longitudinal reinforcements (4), where each of said reinforcements (4) has its two opposite ends attached by attachment means to the hollow body inner surface (2) of the tower at points placed on different vertical lines, and where each reinforcement (4) has at least one of its ends attached by attachment means to the end of the other consecutive reinforcement (4) with the same. Fig. 01
A rail-changing system for air transport systems that comprises a bearing assembly and an arrangement of beams for changing direction, in which the bearing assembly is of the type that is linked to a carriage of an air transport system on beams, and comprises a frame linked to a pair of extensions defining a configuration similar to a yoke, each extension comprising a pair of main wheels with a common rotational axis arranged horizontally, and the main wheels being able to circulate on a beam; the bearing assembly also comprises at least one cam arranged on a rotating basis between the extensions, such that the rotational axis of the cam is arranged vertically, the arrangement of the beams for changing direction of a carriage with a bearing assembly and the beams being rails of the passive type.
The present application provides an improved process for the preparation of sugammadex which comprises the halogenation of y-cyclodextrin in a suitable organic solvent to give 6-per-deoxy-6-per-halo-y-cyclodextrin, wherein halo is bromo or chloro, reacting the halogenated y-cyclodextrin with 3-mercaptopropionic acid in the presence of alkoxide base to obtain sugammadex of formula I. This application also provides isolation of 6-per-deoxy-6-per-chloro-y-cyclodextrin as a crystalline compound and its use for the preparation of sugammadex of formula I.

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Abstract:
The present application provides an improved process for the preparation of sugammadex which comprises the halogenation of y-cyclodextrin in a suitable organic solvent to give 6-per-deoxy-6-per-halo-y-cyclodextrin, wherein halo is bromo or chloro, reacting the halogenated y-cyclodextrin with 3-mercaptopropionic acid in the presence of alkoxide base to obtain sugammadex of formula I. This application also provides isolation of 6-per-deoxy-6-per-chloro-y-cyclodextrin as a crystalline compound and its use for the preparation of sugammadex of formula I.
Title of the invention: METHOD FOR MANUFACTURING OUTER JOINT MEMBER FOR CONSTANT VELOCITY UNIVERSAL JOINT AND OUTER JOINT MEMBER

Provided is a method for manufacturing an outer joint member for a constant velocity universal joint the outer joint member comprising as separate members the following: a cup section having formed on the inner periphery thereof a track groove into which a torque transmission element fits; and a shaft section formed on the base section of this cup section. The outer joint member is formed by welding together a cup member that forms the cup section and a shaft member that forms the shaft section. The method is characterized in that: the cup member and the shaft member are formed from medium carbon steel; after a cylindrical section and the base section are formed as a single unit a cup member is prepared on the outer surface of the base section of which a joining end surface has been formed in a mechanical machining step; a shaft member is prepared on which a joining end surface to be joined to the base section of the cup member is formed in the mechanical machining step; welding is performed by abutting the joining end surface of the cup member and the joining end surface of the shaft member and with a hollow cavity section having been formed in the interior of this abutting section by radiating a beam from the outside of the abutting section in the radial direction; and a ring shaped groove section shielded from the hollow cavity section is provided on the inner diameter side of either the joining end surface of the cup member or the joining end surface of the shaft member.
Title of the invention: MANUFACTURING METHOD FOR CONSTANT VELOCITY UNIVERSAL JOINT OUTER JOINT MEMBER AND OUTER JOINT MEMBER

Abstract:
Provided is a manufacturing method for a constant velocity universal joint outer joint member that comprises a cup part and shaft part made from separate members with the cup member forming the cup part and the shaft member forming the shaft part being welded together said cup part having an inner circumference in which a track groove for engaging with a torque transmitting element is formed and said shaft part being formed on the bottom part of the cup part. This manufacturing method uses a medium carbon steel to form the cup member and the shaft member and comprises the manufacturing steps of: preparing the cup member by integrally forming a cylindrical part and bottom part of the cup member then forming a fitting hole in the thickness of the bottom part in a machining step; preparing the shaft member which is to be joined to the bottom part of the cup member so that a fitting outer face is formed on an end part of the shaft member in a machining step; and fitting the fitting hole of the cup member with the fitting outer face of the shaft member and welding by focusing a beam on the fitted parts from the inside of the cup member. The fitting hole of the cup member and the fitting outer face of the shaft member are constituted by a joining part having a space and a press fitting part having interference the axial direction dimension of the joining part is longer than the axial direction dimension of the press fitting part and the joining part acts as a press fitting guide.

No. of Pages: 40 No. of Claims: 12
An auxiliary machine mounting structure for an internal combustion engine is provided with a camshaft 41 supported by a cylinder head 23, and an auxiliary machine 8 provided on one end side of the camshaft 41, the auxiliary machine 8 having a driven shaft 81 coaxially connected to the camshaft 41 for rotation. The auxiliary machine mounting structure is further provided with a valve drive member 74 press-driven by a cam lobe at one end of the camshaft 41. The camshaft 41 has diametrical linear grooves 41a formed on an axial end of one end portion of the camshaft 41, perpendicular to the axis S of the camshaft 41. The driven shaft 81 is provided with diametrical linear ribs 81a to be fitted in the linear grooves 41a, and the driven shaft 81 has an escape portion 81b formed between the linear ribs 81a and in a central region including a driven shaft axis P in order to allow passage of the valve drive member 74 when the valve drive member 74 is detached. Whereby, even when the cylinder head 23 is mounted with the auxiliary machine 8 having the driven shaft 81 connected coaxially to the camshaft 41, the camshaft 41 can be detached without detaching the auxiliary machine 8, for detachment of the valve drive member 74. 41
The present invention relates to a high pressure resistant integrated leakage free rotating compensator comprising an inner pipe an outer sleeve a connecting pipe and a filler flange. The outer sleeve is arranged on the inner pipe in a sleeved mode. One end of the inner pipe is inserted into the connecting pipe through the outer sleeve. The filler flange is arranged on the inner pipe in a sleeved mode. One end of the filler flange extends into the outer sleeve. An annular inner boss is arranged on the inner surface of the outer sleeve. The portion between the annular inner boss and the end extending into the outer sleeve of the filler flange is arranged on gland packing. The outer sleeve and the connecting pipe are of an integrally formed integrated structure. An anti impact plate is arranged between the gland packing and the annular inner boss. An abrasion resistant carbon fiber layer is arranged between the gland packing and the outer surface of the inner pipe. An abrasion resistant carbon fiber layer is arranged between the gland packing and the inner surface of the outer sleeve. The present invention thoroughly solves the problems that the weld joint flaw inspection is difficult to be performed and even can not be detected due to an existing welding method. Meanwhile the loss of the sealing material can be effectively reduced by arranging the abrasion resistant carbon fiber layers and the anti impact plate so that the sealing performance of the whole rotating compensator is improved.
A method for coating pigment particles is provided the method comprising heating a polymer resin in a carrier fluid to dissolve the polymer resin suspending in the carrier fluid the pigment particles to be coated; and effecting precipitation of the polymer resin from the carrier fluid such that a coating of the resin is formed on the pigment particles.
(54) Title of the invention : END NODE PERSONAL DEFINITION AND MANAGEMENT

(51) International classification : G05B19/418,H04L12/00
(31) Priority Document No : 61/988985
(32) Priority Date : 06/05/2014
(33) Name of priority country : U.S.A.
(86) International Application No : PCT/US2015/029250
    Filing Date : 05/05/2015
(87) International Publication No : WO 2015/171616
(61) Patent of Addition to Application Number : NA
    Filing Date : NA
(62) Divisional to Application Number : NA
    Filing Date : NA

(57) Abstract :
Systems (100) and methods (200) for dynamically managing Functional Configurations (FCs) of network nodes (104, 134-138). The methods involve performing operations by a First End Node (FEN) in accordance with a first FC. FEN (104) has a first Software Module (SM) stored thereon specifying the first FC. The first SM (122) comprises a total set of codes/functions which determine how a network node is to behave. The first EN detects a trigger event for triggering a transition from the first FC to a second FC. In response to the trigger event the FEN automatically and dynamically obtains from a remote network node (134, 136, 138 or 144) a second SM (124 or 126) that is different than the first SM. The first SM (stored on FEN) is then replaced with the second SM. The FEN executes the second SM such that it operates in accordance with the second FC.

No. of Pages : 12 No. of Claims : 20
### Title of the invention: CONTROL APPARATUS FOR VEHICLE

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<th>F16H61/00, F16H37/02</th>
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### Abstract:

A vehicle includes a continuously variable transmission a gear mechanism and a controller. The continuously variable transmission and the gear mechanism are provided in parallel with each other between an input shaft and an output shaft. The controller is configured to i) when the vehicle travels in a state where both a first clutch and a third clutch provided on the gear mechanism side are released gradually increase a hydraulic pressure of the first clutch such that the first clutch is engaged ii) calculate a command hydraulic pressure for setting the first clutch to a pressure regulating state on the basis of a command hydraulic pressure of the first clutch at a timing at which the amount of change in an output side rotation speed of the first clutch becomes larger than a predetermined value and iii) control the first clutch by using the calculated command hydraulic pressure.

No. of Pages: 35  No. of Claims: 5
METHOD FOR DISCRIMINATION OF METAPLASIAS FROM NEOPLASTIC OR PRENEOPLASTIC LESIONS

The present invention relates to a method for discrimination of p16INK4a overexpressing metaplasias from neoplastic or preneoplastic p16INK4a overexpressing lesions by determination of the level of high risk HPV encoded gene-products such as e.g. HPV E2 and/or HPV E7 molecules in biological samples in the course of cytological testing procedures. The method thus enables for reduction of false positive results in the p16INK4a based detection of anogenital lesions in cytological testing procedures.

No. of Pages : 24 No. of Claims : 26
The present invention pertains to an information processing device and an information processing method configured to enable an improvement in the acquisition efficiency of prescribed types of audio data among a plurality of types of audio data. Audio data for prescribed tracks among files arranged by separating a plurality of types of audio data into a plurality of tracks according to type is obtained in the present invention. The present invention can be applied to, for example, a file generation device for generating files, a web server for recording a file generated by the file generation device, or an information processing system composed of a video playback terminal for playing back a file.
**Title of the invention:** SUCCINATE DEHYDROGENASE INHIBITORS (SDHI S)

**Abstract:**
The invention relates to a succinate dehydrogenase inhibitor or a prodrug and/or a pharmaceutically acceptable salt thereof for use in the treatment or prevention of reperfusion injury such as ischemia reperfusion injury by inhibiting the accumulation of succinate wherein the inhibitor or prodrug and/or pharmaceutically acceptable salt thereof is a cell permeable reversible inhibitor of succinate dehydrogenase.

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**No. of Pages : 53**  **No. of Claims : 14**
This disclosure provides, inter alia, an optimized strain of Nitrosomonas eutropha (N. eutropha) designated D23, D23-100, or AOB D23-100. N. eutropha bacteria disclosed in this application have desirable properties, e.g., optimized properties, such as the ability to suppress growth of pathogenic bacteria, and an enhanced ability to produce nitric oxide and nitric oxide precursors. The N. eutropha herein may be used, for instance, to treat diseases associated with low nitrite levels, skin diseases, and diseases caused by pathogenic bacteria.
Title of the invention: DEPENDENT RANDOM ACCESS POINT PICTURES

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Abstract:
The present embodiments introduce a new type of random access point in video bitstreams that can be used for random access operations but can be represented in encoded form at a lower bitcost as compared to IRAP pictures. The random access point is a dependent random access point (DRAP) picture that is encoded and decoded using an IRAP picture and/or a previous, according to a decoding order, DRAP picture as sole reference picture(s) for the DRAP picture. The DRAP picture is encoded as a trailing picture that may be used for reference and constitutes a random access point in a video bitstream.
The invention relates to a sinter cooler (1, 1b-1e) for counter-current operation, with a circular shaft (2, 2a) for receiving sinter (100), the shaft (2,2a) having at least one upper charge opening (5) and at least one lower discharge opening (6). In order to provide a sinter cooler in which a highly homogeneous airflow is achieved while excessive abrasion is avoided, the invention provides that: in a lower part (2.1), the shaft (2, 2a) is divided into a plurality of compartments (7, 7a) which are tangentially spaced apart; and each compartment (7, 7a) has at least one side wall (8) with radial inlet vanes (9), which extend radially, for intake of cooling air into the shaft (2, 2a); the sinter cooler (1, 1b-1e) being so configured that during operation, sinter (100) is charged through the charge opening (5) and moves downwards through the compartments (7, 7a) to the discharge opening (6), while cooling air is sucked in through the radial inlet vanes (9) and upwards through the shaft (2, 2a). The invention also relates to a method for cooling sinter in such a sinter cooler.
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/09/2016
(21) Application No.201617030224 A
(43) Publication Date : 25/08/2017

(54) Title of the invention : A SOLAR LIGHTING SYSTEM

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(57) Abstract :
A solar lighting system for street lighting the solar lighting system comprising: a concentrated photo voltaic module; and a lighting module.

No. of Pages : 24 No. of Claims : 68
The invention relates to a power switch (1) with a vacuum interrupter (4) held in a pole shell (3) having a fixed contact and a moving contact and having a drive rod (8) which is embodied in an electrically insulating fashion in order to apply a driving movement (13) of a switch drive (9) to the moving contact in order to open and close the contact system of the vacuum interrupter (4). Furthermore the invention relates to a method for avoiding incorrect orientations of the drive rod (8) of such a power switch (1). In order to make available a particularly simple and at the same time economical solution for avoiding incorrect orientations of the drive rod (8) guide means and/or centring means (21) are proposed which are connected to the drive rod (8) and provided radially between the drive rod (8) and the pole shell (3) and are designed to bring about independent axial orientation of the drive rod (8) in the pole shell (3).
According to certain embodiments, a maintenance system for a passenger conveyor includes a control panel and a device connector. The control panel is provided in a machine chamber located just below a platform of the passenger conveyor. The device connector is provided outside the machine chamber and connected to the control panel by a cable. The device connector includes a connection port to be connected to an external device used when maintenance work is performed on the passenger conveyor.
No. of Pages : 36  No. of Claims : 31

Provided are therapeutic agents such as double stranded nucleic acids termed oligonucleotide decoys pharmaceutical compositions comprising the same and related methods of modulating nociceptive signaling for instance to prevent and/or treat pain.
An automated storage system for storing large quantities of samples in trays includes a storage compartment, a tray shuttle compartment abutting the storage compartment on one side and a plurality of independent modules on the other side. The modules perform processing of samples that are retrieved from the storage compartment by a tray shuttle, including extraction of selected samples from retrieved source trays and transfer of the selected samples into a separate, destination tray that can be further processed or removed from the system for use. The independent operation of the modules permits handling and processing to be performed simultaneously by different modules while the tray shuttle accesses additional samples within the storage compartment. In one embodiment, a vertical carousel is used to vertically align a desired tray with the tray shuttle, while the tray shuttle operates within a horizontal plane.
A Process for Iron Fortification of Paneer using Edible Coating

This invention relates to a process for manufacturing of paneer with enhanced iron content comprising the steps of soaking of paneer in a solution of biopolymer, plasticized with glycerol and also containing iron salt. The soaking solution comprises of whey protein concentrate, glycerol and iron salt. Paneer immersed in the soaking solution were allowed to equilibrate for few minutes at room temperature, and then air-dried. Coated paneer was then stored under refrigerated temperature after packaging in multilayered pouches.

No. of Pages : 8 No. of Claims : 6
Title of the invention: A PROCESS FOR DEPOLYMERIZATION OF LIGNIN.

Abstract:
A one step, one pot process for the depolymerization of lignin employing supported Bronsted acid ionic liquid synthesized by a novel process is disclosed herein. The catalyst disclosed is recyclable and can yield industrially important chemicals.
(54) Title of the invention : INTEGRATED BUILD AND MATERIAL SUPPLY FOR AN ADDITIVE MANUFACTURING APPARATUS

(57) Abstract :
An integrated build and material supply system (12) for an additive manufacturing apparatus comprises a building compartment (24) adapted to accommodate an object (50) to be formed by means of additive manufacturing and a storage compartment (22) adapted to store a build material for forming said object. A volume of said building compartment and a volume of said storage compartment are variable in size, and said system is adapted to re-allocate at least a portion of a volume previously allocated to said storage compartment to said building compartment.

No. of Pages : 16 No. of Claims : 15
The invention relates to a method for producing hydrocarbons, comprising the step of producing, in a catalysis unit (1) and using one or more catalysis input streams (a) containing oxygenates and/or olefins, a catalysis product stream (b) that contains n-butane, isobutane, 1-butene, 2-butene, isobutene and hydrocarbons having more than four and/or less than four carbon atoms; and the step of producing, in a steam-cracking unit (2) and using one or more steam cracking input streams (g, n, l, r), a steam cracking product stream (s). According to the invention, at least the majority of the hydrocarbons having more than four and/or less than four carbon atoms, and of the isobutene, is removed from the catalysis product stream (b) or a section thereof such that a stream (g, n) is formed containing at least 5 mol% of 1-butene and/or 2-butene, and this stream, or one or more streams (l, r) that are derived from this stream (g, n), is used as the one or more steam cracking input streams (g, n, l, r). The invention also relates to a corresponding installation (100, 200, 300).
The present invention provides a method of expressing an antigenic molecule or a part thereof on the surface of a cell using a photochemical internalisation method in which a cytokine preferably GM CSF is used to enhance the method. The method may be used to stimulate an immune response and for various therapeutic or prophylactic methods. Pharmaceutical compositions or kits comprising the components for use in the method cells produced by the method and their use in therapy and prophylaxis also form aspects of the invention.
The invention relates to a rotary electrical machine having a homopolar structure, comprising a number Npe of electrical phases. The machine consists of: - a juxtaposition, along the rotational axis (n8) of the rotary electrical machine, of at least one pair of armatures (n3, n3) having a number of poles Np, placed on both sides of at least one inductive coil (n5) wound around the rotational axis (n8), two adjacent armatures (n3, n3) being angularly offset by any electrical angle θs, preferably between 0° and 180°/Npe; - at least one passive inductor (n4) comprising ferromagnetic material, separated from the armatures (n3) by an air gap (n10). Either the armatures (n3, n3) form the rotor, or the inductor (n4) and the other element form the stator.
The present disclosure provides nicotine free anti-smoking compositions comprising synergistic combination of herbal ingredients. In a preferred embodiment of the present disclosure, the anti-smoking composition can include combination of at least two herbs selected from the group consisting of Kapikachu, Ashwagandha, Tulsi, Haridra, Amla, Gokshura, Brahmi, Yashtimadhu, Sunthi, Lavang, Bala, Vidarikand, Jatanamsi, Shatavari, and Musli. In another preferred embodiment of the disclosure, the anti-smoking composition can further include one or more additional herbs selected from the group consisting of Guduchi, Draksha, Sirish, Arjuna, Mandukparni, Vasa, Karpoor, Kankol, Kantakari and Shigru. The formulation(s) in accordance with embodiments of the present disclosure not only provides anti-smoking effect but also treat side-effects and/or ailments arising from smoking.
The process of the present disclosure relates to a single step preparation of 9,10-anthraquinone and its derivatives. Phthalic anhydride and benzene are reacted in the presence of an ionic liquid, and optionally an alkali or alkaline earth metal halide salt to produce 9,10-anthraquinone and its derivatives. The process of the present disclosure is simple, economic and environment friendly.
Title of the invention: SYSTEM AND METHOD FOR GENERATING STRATEGIC COMPETITIVE INTELLIGENCE DATA RELEVANT FOR AN ENTITY

Abstract:
Strategic competitive intelligence data generation systems and methods are provided. The system stores internal intellectual property data of an entity, receives external technology development data from predefined sources and intellectual property data from the internal portfolio database of the entity, stores a set of relevant rules, executes them, filters the technology development data and the intellectual property data, based on the rules executed by the rule engine. It stores in one of an entity aligned cluster database, the filtered technology development data and the intellectual property data. The entity aligned cluster databases are created against predefined entity aligned clusters. The system executes an input query, determines one relevant entity aligned cluster database for executing the search query, and populates relevancy scores in two matrices, aggregates the relevancy scores through multiplication of the matrices. The system then analyses the resultant matrix based on set of rules and displays results of the analytics.
The present invention provides a conductive molding compound formulation (100) and a process for preparation thereof. The formulation (100) is pigmented with desired color and has high electrical conductivity and thermal stability. The formulation (100) comprises of an organic mixture of thermosetting cross-linkable unsaturated polyester resins and reactive monomers, a pigment paste, reinforcing fibrous fillers, conductive carbon nano-tubes, one or more low constrictive additives, inorganic particulate fillers, performance additives, and a thickening agent. The formulation (100) is used in fabricating a pigmented molded electrical article such as an electrical housing, an electrostatic paintable part and like, by a compression or an injection molding process. The molded electrical article fabricated using the formulation (100) possess high electrical conductivity and a high breakdown voltage and can be used in electrical applications.
Title of the invention: ENERGY EFFICIENT HYDRAULIC OIL COMPOSITION

Abstract:
The present invention provides a novel fuel efficient hydraulic oil composition. The composition comprises (a) an oxidation inhibitor (b) a sulphur, phosphorus & nitrogen (S-P-N) based anti-wear / extreme pressure containing multi-functional additive system, (c) viscosity index improver (d) a friction modifier, (e) optionally, a pour point depressant (f) optionally, a demulsifier and (g) optionally, a defoamant, (h) prepared in a mixture of highly refined base stocks, or mixture of hydro-processed iso-dewaxed base stocks or mixture of hydro-processed iso-dewaxed base stocks and alkylated naphthalene, or mixture of synthetic base and alkylated naphthalene synthetic base and ester, alkylated naphthalene base or mixtures thereof. The fuel efficient hydraulic oil composition of the present invention possess superior oxidation stability, antirust & anticorrosive properties, load bearing capability with energy efficiency.
The present invention describes a method and system (300, 700) for data processing. The system (300, 700) is configured to create a set of identifier-values pertaining to a number of data elements that correspond to one or more data-groups. A plurality of pairs of identifier values are considered for a comparison between the identifier values within each of said pairs, such that the identifier values within each of said pairs correspond to a pair of related data elements. In case of an inequality between identifier-values in any pair, one or more of identifier-values are substituted with one or more specific identifier-values to create updated pairs. Thereafter, the updated as well as non-updated pairs are again considered for comparison between the identifier values till the identifier values in each pair assume a uniform relationship. Thereafter, the current identifier values across all pairs are designated as representing final data groups.

No. of Pages : 43 No. of Claims : 20
There is provided a rolling mill adapted for producing shaped components or shaped pre-forms in a continuous manner. The mill comprises a pair of rollers wherein at least one of the rollers comprises a series of die cavities across the rolling surface for deformation of input material slab into shaped components.

No. of Pages : 26 No. of Claims : 11
The present invention concerns a meditation apparatus. More specifically, it relates to an improved meditation enhancing apparatus which facilitates and enhances the performance of virtually any meditation method wherein a human replica placed in the instrument and illuminated one by one and your mind gradually quietens with subtle spontaneous sound of AUM and starts getting concentrated under the influence of music light supreme sounds, the device utilizes an animated production that is generally about 30 minutes in length and that focuses on the activation of the seven chakras as a means of providing physical and/or spiritual wellness. The user simply needs to view an animated production where the seven rays activate the seven chakras in a specific manner with seven different musical instrument placed at seven plexuses and seven predetermined colors with predetermined tunes of raga and fragments.

No. of Pages : 20 No. of Claims : 8
A clip cartridge assembly for use with a reposable surgical clip applier includes a clip tray, a plurality of surgical clips, and a cover. The clip tray includes a plurality of distally oriented, deflectable, resilient fingers projecting from a base wall thereof. Each resilient finger terminates in a distal shoulder and a proximal end of the clip tray is configured for selective connection with a clip pusher bar of an endoscopic assembly of the reposable surgical clip applier. The cover includes a plurality of distally oriented, deflectable, resilient fingers projecting within a channel defined through proximal and distal ends thereof. Each resilient finger of the cover terminates in a distal shoulder and the cover includes a pair of opposed slots defined within sidewalls of the channel configured to slidably retain the clip tray and the plurality of surgical clips therein. A reposable surgical clip applier is also provided.
(12) PATENT APPLICATION PUBLICATION
(21) Application No.201621006443 A
(19) INDIA
(22) Date of filing of Application: 24/02/2016
(43) Publication Date: 25/08/2017

(54) Title of the invention: AN AIR HANDLING UNIT

(51) International classification: F24F3/08
(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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2) MAHALE Deepak

(57) Abstract:
An air handling unit is disclosed comprising three compartments, i.e., a first compartment, a second compartment, and a third compartment. The compartments are fastened to each other by means of a fastener and in fluid communication with each other. An evaporator coil is placed in the first compartment while a fan and motor assembly is slid into the second compartment. The third compartment forms a plenum structure which facilitates the flow of conditioned air. All the three compartments are modular in nature and can be transported separately and assembled at the desired location.

No. of Pages: 17 No. of Claims: 12
The present invention provides a novel electric machine which can be used to operate and/or charge body worn equipment where other perennial electric source is not available. Breathing activity is perennial in living vertebrates thus the said machine can generate electrical energy to charge rechargeable batteries to be utilized especially for operating mobile/cell phone or any other low power consuming equipments. The outstanding feature of the said machine is low weight, cost effective, easy to manufacture, magnetically shielded and based on linear and/or reciprocating motion. Due to its innovative concept and construction, the said machine can be utilized as controllable electro-mechanical actuators, as precision position controllers, as regenerative shock absorbers in various applications especially in two-wheelers and four wheelers, electro-mechanical vibrators etc.
(12) PATENT APPLICATION PUBLICATION (21) Application No.201621006485 A
(19) INDIA
(22) Date of filing of Application :24/02/2016 (43) Publication Date : 25/08/2017

(54) Title of the invention : Development of Metal Ions Adsorbent from Cajanus Cajan (Tur Dal) Husk

(51) International classification :C07K 14/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(36) International Application No :PCT//
   Filing Date :01/01/1900
(37) 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 India is the largest producer of pulses (edible legume) in the world. Pigeon pea or Tur (Cajanus cajan) is the second most major pulse produced in India and is mainly processed to convert into product known as Tur dal*. The manufacturing industries of Tur dal generate considerable amount of byproduct/waste in the form of husk. The present investigation explores the possibility of exploiting metal adsorbent prepared from the Tur dal husk for removing heavy metal. The objective of the work was to enhance the performance of prepared metal adsorbent by carrying out batch experiments study to optimize the condition of adsorption for complete removal of Cu and Pb ions from their aqueous solution and to model the adsorption behaviour of prepared adsorbent by studying thermodynamic, isotherm and kinetics.

No. of Pages : 22 No. of Claims : 2
Title of the invention: PROTECTIVE COVER ARRANGEMENT FOR SUSPENSION SYSTEM AND METHOD OF ASSEMBLY

Abstract:
A protective cover arrangement for a suspension system is provided. The arrangement comprises a suspension system comprising suspension element(s) (6) covered at least partially by the protective cover (7) and a wheel fender (5) covering a wheel (2) attached to the suspension system. The protective cover (7) has a hollow cylindrical structure substantially conforming to shape of the suspension element(s) (6) and at least partially accommodate the suspension element(s) (6). A substantial portion of the protective cover (7) is positioned under the wheel fender (5) and attached to the wheel fender (5) through a fastening means. The protective cover (7) is made up of a flexible plastic material. FIGURE 1

No. of Pages: 20 No. of Claims: 12
The Patent Office Journal No. 34/2017 Dated 25/08/2017

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<th>(12) PATENT APPLICATION PUBLICATION</th>
<th>(21) Application No.201621006064 A</th>
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<td>(22) Date of filing of Application :20/02/2016</td>
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| (54) Title of the invention : OPTIMIZING SWITCHING ON LOAD BASED ON VARYING SOLAR SUPPLY |

<table>
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<tr>
<th>(51) International classification :G06Q50/06</th>
<th>(71) Name of Applicant : 1) Ecofrost Technologies Pvt. Ltd.</th>
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<td>(31) Priority Document No :NA</td>
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<td>(86) International Application No :PCT//</td>
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<td>Filing Date :01/01/1900</td>
<td>2) GUNASEKARAN, Vinay</td>
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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                           |                               |

| (86) International Application No : PCT// | (57) Abstract : |
| Filing Date : 01/01/1900                | The present disclosure aims to describe a solar power controller and switching method thereof for detecting power output status of solar panel and to optimally operate an attached load. System of the present disclosure can be configured to establish a minimum open circuit voltage (VOC-min) of an attached load, and establish a current open circuit voltage (VOC-curr) of a solar panel based on incoming solar voltage. System of the present disclosure can further be configured to switch on and assess performance of the attached load at VOC-curr when the VOC-curr is greater than VOC-min, wherein if the assessed performance matches with desired performance, the load is continued to be operated at VOC-curr, else the load is switched off. |

No. of Pages : 30 No. of Claims : 13
| (12) PATENT APPLICATION PUBLICATION | (21) Application No.201621006069 A |
| (19) INDIA | |
| (22) Date of filing of Application :22/02/2016 | (43) Publication Date : 25/08/2017 |
| (54) Title of the invention : MEDICAL AMBULANCE POD SYSTEM |
| (51) International classification : A61G10/00, A61G3/00, A61G1/00 |
| (31) Priority Document No :NA | (71) Name of Applicant : 1) Dr. Lavanian DoraiRaj |
| (32) Priority Date :NA | Address of Applicant : Residing at No:4, 2nd Floor, 14 Exclusive, Pallod Farms, Baner Road, Pune 411045, Maharashtra, India Maharashtra India |
| (33) Name of priority country :NA | (72) Name of Inventor : 1) Dr. Lavanian DoraiRaj |
| (36) Date of filing of Application :22/02/2016 | |
| (43) Publication Date : 25/08/2017 | |
| (57) Abstract : Disclosed is a Medical Ambulance Pod System (100) that can be attached to a prime mover (101) by means of a connector (24). The prime mover is preferably a two wheeler automobile vehicle that can transport a patient in a supine/prone position and traverse "difficult to access" terrain. The Medical Ambulance Pod System (100) provides an arrangement for accommodating a medical attendant to accompany a patient, monitor the patient actively and to provide the patient with resuscitative care, both in-transit and when stationary. The effective suspension system provides necessary comfort to the user. A plurality of storage arrangements are provided below the stretcher (32a) to hold a plurality of basic and advanced life saving medical instruments, resuscitative equipment and medications. |

No. of Pages : 26 No. of Claims : 13
A HERBAL COMPOSITION FOR CONTROLLING PEST

ABSTRACT The synergistic herbal insecticidal composition for pest control wherein the composition comprising of whole plant of Azadirachta indica and leaves of Murdannia nudiflora in 50:50 proportion along with suitable carrier and surface active agents optionally along with stabilizer. It also acts as growth promoter and increases yield of the crop and plant (i.e. vegetable and fruit). The present invention also discloses a process for the preparation of said herbal synergistic insecticidal composition.
The present invention relates to an energy efficient industrial gear oil composition comprising a sulphur, phosphorus and nitrogen (S-P-N) based antiwear and extreme pressure additive system, an oxidation inhibitor, a metal passivator cum corrosion inhibitor, a friction modifier, a viscosity modifier, and a mixture of severely refined base stocks, or hydrotreated / hydro-processed / iso-dewaxed base stocks and alkylated naphthalene, or mixture of synthetic bases and ester or mixture of synthetic bases and alkylated naphthalene or alkylated naphthalene bases or mixtures thereof. The present gear oil composition meets industrial gear oil specifications and suitable for use in enclosed gear systems & other industrial machineries.
Disclosed is a system and method for tracking baggage. The system and method for tracing baggage aids passenger to track the status of his/her bag anytime. The system uses a RFID technology and NFC technology that can provide virtually perfect end-to-end sorting, tracking and tracing of baggage. Specifically, the RFID tags are pasted on the baggage and then are linked to the boarding card in the form of a QR Code or Barcode. The information from the RFID is stored on the server and simultaneously displayed on module configured on a mobile communication device of the passenger.
The present disclosure provides fragrance emitting polymeric fibers and a process for their preparation. The polymeric fibers comprise at least one high melting point thermoplastic polymer dosed with at least one high boiling point perfume oil having a boiling point in the range of 235 °C to 290 °C. The fabrics prepared by the polymeric fibers of the present disclosure have a lasting fragrance for a minimum 30 wash cycles. The fragrance emitting polymeric fibers find use in the field of garments, beddings, curtains, paper articles and other applications.
Title of the invention: Turmeric Seed Sowing Machine

Abstract:

A BSTRACT Present invention provides a turmeric seed sowing machine in which the hopper is specially designed so that it allows only one seed to fall at a time. The side plate provided helps in creating the bed for seed. The plough used is the same as the regular seed drills. The duct behind the plough guides the seed exactly at the right depth and position. Chain, belt drives along with buckets is used in the mechanism. The mechanism used in the turmeric sowing machine is very simple and helps in depositing one seed at a time and also maintains a distance of 6 inches between two seeds. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the conceptual diagram, Figure 2 of sheet 2 showing the assembly of the machine and Figure 3 of sheet 3 showing the rendered view of turmeric seed sowing machine.

No. of Pages: 18 No. of Claims: 8
Title of the invention: SYNERGISTIC INSECTICIDAL COMPOSITION OF TOLFENPYRAD AND AN INSECTICIDE

Abstract:
ABSTRACT: The present invention relates to a synergistic insecticidal composition comprising Tolfenpyrad and an insecticide selected from Acephate, Chlorpyrifos, Pymetrozine, Flonicamid and Fenpyroximate. Tolfenpyrad and one more insecticide selected from Acephate, Chlorpyrifos, Pymetrozine, Flonicamid and Fenpyroximate which are bio active ingredient for the present composition are present in ratio of 1:10 to 10:1. The present invention also relates to process for preparing the said composition comprising of bioactive amounts of Tolfenpyrad and an insecticide along with one or more inactive excipients.
Title of the invention: TO DEVELOP & ESTABLISH AN INNOVATIVE TEST SET UP FOR LEAK CHECK OF NON LINEAR MECHANISM FOR AIRCRAFTS

International classification: B65D 47/00

Priority Document No: NA
Priority Date: NA
Name of priority country: NA

International Application No: NA
Filing Date: NA
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Patent of Addition to Application Number: NA
Filing Date: NA
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Filing Date: NA

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Abstract:
Non Linear Mechanism is used to deflect the aileron in RH and LH direction for roll in response to control stick movement. The functional testing of this mechanism was performed online on aircraft at control test station. There were high occurrence of leakage problem which was further compounded by unavailability of testing facility at work place to ascertain non conformance in the mechanism. Initiative was taken to develop and establish an innovative test setup to check the leakage in non linear mechanism. This consisted of utilizing a cylindrical tube connected to the nonlinear mechanism at one end and inlet at other end for air pressure at 1kgF. This enable speedy checking and testing of non-conformance of the NLM. This has helped to reduce movement & waiting time for ascertaining non-confirming part as removal of non-conformance mechanism is labour intensive and time consuming.

CONTINUED TO PART- 2