# पेटेंट कार्यालय
# का
# शासकीय जर्नल

# OFFICIAL JOURNAL
# OF
# THE PATENT OFFICE


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## पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

# INTRODUCTION

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

(**Chaitanya Prasad**)
**CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

19th JULY, 2013

# CONTENTS

**THE PATENT OFFICE**
**KOLKATA, 19/07/2013**
**Address of the Patent Offices/Jurisdictions**

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

| | | | |
|---|---|---|---|
| 1 | Office of the Controller General of Patents,<br>Designs & Trade Marks,<br>Boudhik Sampada Bhavan,<br>Near Antop Hill Post Office,S.M.Road,Antop Hill,<br>Mumbai – 400 037<br><br>Phone: (91)(22) 24123311,<br>Fax : (91)(22) 24123322<br>E-mail: cgpdtm@nic.in | 4 | The Patent Office,<br>Government of India,<br>Intellectual Property Rights Building,<br>G.S.T. Road, Guindy,<br>Chennai – 600 032.<br><br>Phone: (91)(44) 2250 2081-84<br>Fax : (91)(44) 2250 2066<br>E-mail: chennai-patent@nic.in<br>❖ The States of Andhra Pradesh, Karnataka, Kerala, Tamil Nadu and the Union Territories of Puducherry and Lakshadweep. |
| 2 | The Patent Office,<br>Government of India,<br>Boudhik Sampada Bhavan,<br>Near Antop Hill Post Office,S.M.Road,Antop Hill,<br>Mumbai – 400 037<br>Phone: (91)(22) 24137701<br>Fax: (91)(22) 24130387<br>E-mail: mumbai-patent@nic.in<br>❖ The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu & Dadra and Nagar Haveli | 5 | The Patent Office (Head Office),<br>Government of India,<br>Boudhik Sampada Bhavan,<br>CP-2, Sector –V, Salt Lake City,<br>Kolkata- 700 091<br><br>Phone: (91)(33) 2367 1943/44/45/46/87<br>Fax: (91)(33) 2367 1988<br>E-Mail: kolkata-patent@nic.in<br><br>❖ Rest of India |
| 3 | The Patent Office,<br>Government of India,<br>Boudhik Sampada Bhavan,<br>Plot No. 32., Sector-14, Dwarka,<br>New Delhi – 110075<br>Phone: (91)(11) 2808 1921 – 25<br>Fax: (91)(11) 2808 1920 & 2808 1940<br>E.mail: delhi-patent@nic.in<br>❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttaranchal, Delhi and the Union Territory of Chandigarh. | | |

**Website: www.ipindia.nic.in**
**www.patentoffice.nic.in**

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

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

## पेटेंट कार्यालय
## कोलकाता, दिनांक 19/07/2013
## कार्यालयों के क्षेत्राधिकार के पते

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

| | | | |
|---|---|---|---|
| **1** | कार्यालय: महानियंत्रक, एकस्व, अभिकल्प<br>तथा व्यापार चिह्न,<br>एनटॉप हिल डाकघर के समीप,<br>एस. एम. रोड,<br>एनटॉप हिल, मुम्बई -400 037, भारत.<br>फोन: (91)(22) 24123311<br>फैक्स: (91)(22) 24123322<br>ई.मेल: cgpdtm@nic.in | **4** | पेटेंट कार्यालय चेन्नई,<br>इंटेलेक्चुअल प्रोपर्टी राइट्स बिल्डिंग<br>इंडस्ट्रियल इस्टेट<br>एसआईडीसीओ आरएमडी गोडाउन एरिया<br>एडजसेन्ट टु ईगल फ्लास्क<br>जी.एस.टी. रोड, गायन्डी,<br>चेन्नई - 600 032.<br>फोन: (91)(44) 2250 2081-84<br>फैक्स: (91)(44) 2250-2066<br>ई.मेल: chennai-patent@nic.in<br>❖ आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु तथा पुडुचेरी राज्य क्षेत्र एवं संघ शासित क्षेत्र, लक्षद्वीप |
| **2** | पेटेंट कार्यालय, भारत सरकार<br>बौद्धिक संपदा भवन,<br>एनटॉप हिल डाकघर के समीप,<br>एस. एम. रोड,<br>एनटॉप हिल, मुम्बई - 400 037,<br>फोन: (91)(22) 2413 7701,<br>फैक्स: (91)(22) 2413 0387<br>ई.मेल: mumbai-patent@nic.in<br>❖ गुजरात, महाराष्ट्र, मध्य प्रदेश, गोआ तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दादर और नगर हवेली. | **5** | पेटेंट कार्यालय कोलकाता (प्रधान कार्यालय),<br>बौद्धिक संपदा भवन,<br>सीपी-2, सेक्टर-V, साल्ट लेक सिटी,<br>कोलकाता- 700 091, भारत.<br>फोन: (91)(33) 2367 1943/44/45/46/87<br>फैक्स/Fax: (91)(33) 2367 1988<br>ई.मेल: kolkata-patent@nic.in<br>❖ भारत का अवशेष क्षेत्र |
| **3** | पेटेंट कार्यालय दिल्ली,<br>बौद्धिक संपदा भवन,<br>प्लॉट सं. 32, सेक्टर - 14,<br>द्वारका, नई दिल्ली - 110 075.<br>फोन: (91)(11) 2808 1921-25<br>फैक्स: (91)(11) 2808 1920, 2808 1940<br>ई.मेल: delhi-patent@nic.in<br>❖ हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़ | | |

वेबसाइट: http://www.ipindia.nic.in
www.patentoffice.nic.in

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाएँ, विवरण या अन्य दस्तावेज या कोई शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होंगे ।

शुल्क: शुल्क या तो नकद रूप में या "Controller of Patents" के नाम में देय बैंक ड्राफ्ट या चेक के द्वारा भेजी जा सकती है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित हैं।

# 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.4/- per page. If any further details are required to be obtained, the same can be provided by the respective Patent Offices on request.

(**Chaitanya Prasad**)
**CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

# SPECIAL NOTICE

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

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

# SPECIAL NOTICE

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

# NOTICE

**Application number 2443/MUM/2011 dated 02.09.2011 has been postdated under section 9(4) of the Patents Act, 1970 and accordingly the provisional application has been cancelled and the application is postdated to the date of filing of the complete specification i.e. from 02.09.2011 to 19.07.2012**

## 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

(19) INDIA

(21) Application No.2257/MUM/2013 A

(22) Date of filing of Application :04/07/2013

(43) Publication Date : 19/07/2013

(54) Title of the invention : IMPROVED METHOD OF DRYING PLANT PARTS BY SOLVENT EXTRACTION

| | |
|---|---|
| (51) International classification | :B01D 11/00; B01D11/02 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)NEHA MADHUSUDAN BHIDE**
Address of Applicant :FLAT NO 4, AMRUT APARTMENTS, 112/3 ANAND COLONY, ERANDAWANE, PUNE 411004, MAHARASHTRA, INDIA
**2)VISHNUKUMAR MAHADEO KULKARNI**
**3)VYYOM BHOOSHAN KELKAR**
(72)**Name of Inventor :**
**1)NEHA MADHUSUDAN BHIDE**
**2)VISHNUKUMAR MAHADEO KULKARNI**
**3)VYYOM BHOOSHAN KELKAR**

(57) Abstract :
A method of improved plant part drying is described and includes a step of using at least one organic solvent from a group of a plurality of organic acetate solvents and a plurality of alcohols for processing at least a part of a plant and then separating a first phase and a second phase, wherein both the first phase and the second phase include subsets of the part of the plant. Another aspect of the invention discloses that the plant is an Areca plant and the part is an Areca fruit shell and that the method uses least one from a set of a continuous process, a batch process, a semi-batch process and a process using a column with staggered trays. Yet another aspect of the invention discloses that the plurality of alcohols comprises food grade aliphatic alcohols and food grade aromatic alcohols and that the food grade aliphatic alcohols comprise ethanol, n-propanol, iso-propyl alcohol and butanol and the plurality of organic acetate solvents comprises ethyl acetate.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/07/2013
(21) Application No.2358/MUM/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : MICRO CANTILEVER BASED TUNABLE TEMPERATURE SENSOR WITH ELECTRICAL READ-OUT

(51) International classification :G01K7/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)Rajendra Mukundrao Patrikar**
Address of Applicant :Qtr 8, VNIT Nagpur, Maharashtra India
**2)Mrs. Jayu Pankaj Kalambe**
(72)**Name of Inventor :**
**1)Rajendra Mukundrao Patrikar**
**2)Mrs. Jayu Pankaj Kalambe**

(57) Abstract :
A new read-out method is invented for the detection of physical parameter like temperature. Our investigation is based on electrical detection where the cantilever deflection is measured in terms of current flowing through the electrode. This ˜hard-contact™ device is nearly equivalent to a digital read-out system where a current is only detected when the cantilever touches the electrode. Device design and analysis is carried out using CoventorWare FEA simulation software. Device has been fabricated using surface micromachining technology. Fabricated Device can be used for detection of different temperature levels by adjusting preset voltage levels which can be tuned by control circuit. Electrical characterization is carried out and presented to validate the idea. Fabricated device is having improved response time and low power requirement than the traditional sensors suitable for integrated circuit protection and space application. Following invention is described in detail with the help of figure 1 of Sheet 1 showing Structure diagram of a tunable Temperature sensor with control system according to an embodiment of the present invention, figure 2 of Sheet 1 showing Device design for Microcantilever based sensor (Design using CoventorWare- FEA Simulation software), figure 3 of Sheet 2 showing Schematic stepwise process flow for Aluminium cantilevers, figure 4 of Sheet 2 showing Thermomechanical analysis of the designed sensor, figure 5 of Sheet 3 showing Electro-termomechanical analysis of the device, figure 6 of Sheet 3 showing, Fabricated cantilever based sensor, figure 7 of Sheet 4 showing Current Vs Voltage Characterization of fabricated Device (device shows 2.35 Volt Pull-in voltage), figure 8 of Sheet 4 illustrates Current Vs Voltage Characterization of fabricated Device for different temperature, figure 9 of Sheet 5 illustrates Current Vs Voltage Characterization at 240C, figure 10 of Sheet 5 showing Current Vs Time Characterization (300C Detected with 0.5 Volt Preset voltage), figure 11 of Sheet 6 showing Electrical Characterization Results for detection of temperature with different preset voltages, figure 12 of Sheet 6 showing Response of sensor for 2.5Volt 100ns pulse, figure 13 of Sheet 7 showing Response of sensor for 2.5Volt 500 ns pulse, figure 14 of Sheet 7 showing Feedback control system with analog and digital modules.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/02/2013
(21) Application No.372/MUM/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : ENCLOSED GROUND FLARING SYSTEM FOR FLARING OF RELIEF GASES

(51) International classification :F23G7/08
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)ADOR WELDING LTD.**
Address of Applicant :C/O: RD MATE, EQUIPMENT PLANT, CHINCHWAD, PUNE-411019, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)MR. H VENKAT**
**2)MR. R. D. MATE**
**3)MR. SHARAD A SHELAR**

(57) Abstract :
The present invention provides an enclosed ground flare system that includes a knock out drum that feeds a flare gas to the enclosure assembly through a flare gas line thereby separating a condensate liquid from the enclsure assembly. The enclosure assmebly includes a first enclosure and a second enclosure having a conical shape. The first enclosure and the second enclosure respectively has a suction window having a plurality of first type burners, a plurality of second type burners and a plurality.of pilot burners positioned therein. Each of the burners has an air guide with a plurality of air guiding rods adapted for facilitating enhanced flow of a natural draft air through the burners. The burners receive the flare gases through the headers for mixing with the natural draft air for efficient combustion of the flare gases. The enclosed ground flare system further includes a staging control mechanism that divides flow rate of the flare gases into a plurality of stages through an ultrasonic flow meter for effective combustion of the flare gases.

No. of Pages : 24 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/07/2013

(21) Application No.2314/MUM/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : SHIPLOCK WHICH ALLOW CONTINUOUS MOVEMENT OF ROAD TRAFFIC CROSSING IT.

(51) International classification :E02C1/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)PATEL DILIPKUMAR DEVJIBHAI**
Address of Applicant :301, SHAYONA COMPLEX, HIRABAG, VARACHHA ROAD, SURAT, PIN 395006 Maharashtra India
(72)**Name of Inventor :**
**1)PATEL DILIPKUMAR DEVJIBHAI**

(57) Abstract :
This invention is a special kind of structure provided at the junction of a highway and a shiplock to allow continuous movement of road traffic during operation of shiplock. A shiplock is a closed water body provided between two reservoirs with different water level among which transfer of ship is required. Water level is generally changed by gravitational force. When a road croses shiplock, traffic on road has to stop during operation in conventional type of shiplock. This invention allow simultaneous operation of both shiplock and road. It happens possible by providing a tunnel below shiplock. The tunnel is made of a rectangular hollow caissons of concrete casted on shore and floated to position or cast-in situ. The whole strucuture is some what like a road under bridge (R.U.B.) provided to cross a railway track.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2012
(21) Application No.3283/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : FLOWABLE, HIGH ACTIVE, AQUEOUS FATTY ALKYL SULFATES

| | |
|---|---|
| (51) International classification | :C11D 1/29; C11D 1/14 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)GALAXY SURFACTANTS LTD.**
Address of Applicant :C-49/2, TTC INDUSTRIAL AREA, PAWNE, NAVI MUMBAI-400 703 MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)RAMAKRISHNAN, GOPALAKRISHNAN**
**2)UNNATHAN, SHEKHAR**

(57) Abstract :
The present invention relates to a process for preparing high-concentration, flowable aqueous fatty alkyl sulfate solution, said process comprises (i) ethoxylation of fatty alcohol with very low of about 0.3 to about 0.8 moles of ethylene oxide, and (ii) sulfatin g the ethoxylated fatty alcohol with specific reaction conditions, and (iii) neutralizing the sulfation product with an aqueous base. The obtained fatty alkyl sulfate solution contains atleast 65% by weight of mixture of fatty alkyl sulfates and fatty alkyl ether sulfates in a weight ratio in the range from about 80:20 to about 50:50 wherein the average number of moles of ethylene oxide (EO) of the mixture is between 0.3 to 0.8; less than 3 ppm of dioxane; and water, and wherein the solution does not contain any antimicrobial or preservatives and is homogeneous, flowable and pumpable at 25°C.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/11/2012
(21) Application No.3297/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A METHOD OF CORRECTING ROUND TRIP TIME ESTIMATION AT TRANSMISSION CONTROL PROTOCOL USING CROSS LAYER ADAPTATION.

(51) International classification :H04L1/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)DALAL PURVANG DIPAK**
Address of Applicant :A 63 VRUNDAVAN TOWNSHIP BEHIND SWAMINARAYAN TEMPLE NEW VASNA ROAD VADODARA Maharashtra India
**2)DALAL SEJAL PURVANG**
(72)**Name of Inventor :**
**1)DALAL PURVANG DIPAK**
**2)DALAL SEJAL PURVANG**

(57) Abstract :
The invention proposes a method for correcting Round Trip Time (RTT) estimation using a Cross-Layer approach between Medium Access Control (MAC) and Transmission Control Protocol (TCP) that leads to improved bandwidth (BW) utilization in Wi-Fi networks. The focus is on the adaptation in TCPs sending rate using the correct RTT estimation. An exemplary method incorporates monitoring a transmission state of a wireless node, where the transmission state is defined in accordance with the availability of physical medium. The proposed method corrects RTT estimation at TCP sender in presence of Automatic Repeat reQuest (ARQ) mechanism employed over IEEE 802.11 links. This aids TCP in improving loss recovery with earlier loss detection and immediate network utilization particularly after timeout. The method also modifies the augmentation factor for TCPs sending rate based on the corrected RTT and avoids sacrifice in TCP throughput in presence of wireless errors in the network.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/06/2013

(21) Application No.1948/MUM/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : SEMI-ABSORBENT, SEMI-RESISTANT, BREATHABLE FABRIC

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|---|---|
| (51) International classification | :D06M15/00, D06M101/02 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)WELSPUN INDIA LIMITED**
Address of Applicant :WELSPUN HOUSE, 6TH FLOOR, KAMALA CITY, SENAPATI BAPAT MARG, LOWER PAREL, MUMBAI - 400013, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)GOENKA, DIPALI**

(57) Abstract :
The present invention disclose Semi absorbent, semi resistant & breathable single layer fabric comprising, water absorbent hydrophilic upper side and hydrophobic back side, wherein the said upper side of the fabric, is liquid absorbent, quickly spreads the absorbed liquid to a wider area but at the same time does not allow the liquid to seep through to the other side of the fabric under gravitational force. The invention further discloses the process for preparation of the said fabric thereof.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/06/2013

(21) Application No.2185/MUM/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A METHOD OF PROVIDING AND EXECUTING A MOBILE APPLICATION IN A TELECOM NETWORK

| | |
|---|---|
| (51) International classification | :h04m3/42, h04l29/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)Patel Kaushalkumar Pravinbhai**
Address of Applicant :A/6 Nipa Tenament No.2, Gorwa Refinery Road, Opp: Sahyog, Baroda - 390 016 Gujarat India
(72)**Name of Inventor :**
**1)Patel Kaushalkumar Pravinbhai**

(57) Abstract :
The present inventions relates to a method of providing and executing a mobile application in the form of a value added service for a post paid or prepaid mobile user, after implementing said mobile application in a GSM or CDMA network. This invention also discloses a method to provide a call establishment stage to carryout said value added service to communicate two different mobile users to solve their personal problems exchange their personal issues without revealing their identity. In this method of providing value added service, there involves a service control functionality (MAP-SRF/MATF) controlled by SCCP (Signalling Connection and Control Part) protocol of the signalling system configured in the NSS is implemented on STP (Signalling Transfer Point). The details of the list of mapped partners or User - B corresponding to different User - A is stored in said (MAP-SRF/MATF)

No. of Pages : 30 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/07/2013

(21) Application No.2225/MUM/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : 'A SYSTEM FOR CONTROLLING WATER LEVEL AND IT'S PROCESS'.

| | |
|---|---|
| (51) International classification | :G05D9/12 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)NAIK, NITIN PRABHAKAR**
Address of Applicant :160, NANDANVAN COLONY, NAGPUR - 440009, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)NAIK, NITIN PRABHAKAR**

(57) Abstract :
The present invention provides a system and method for controlling water level. The present embodiment can be operated via AC or DC supply. The present embodiment consists of a asymmetrical silicon control rectifier for blocking reverse voltage. The present embodiment comprises of water flow switch, two relays, switching means and logical circuit. A process for controlling water level comprising the steps of;water comes in lower tank through inlet valve and floats L11 and L12 are showing the level of lower tank. Then water is transferred from lower tank to upper tank via pump.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/07/2013

(21) Application No.2269/MUM/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : HIGH INTIGRITY RADIATOR.

(51) International classification :F28F1/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)ENGINEMATES HEAT TRANSFER PVT. LTD.**
Address of Applicant :416, MARATHON MAX, L.B.S. MARG, MULUND (W), MUMBAI 400080, Maharashtra India
(72)**Name of Inventor :**
**1)ENGINEMATES HEAT TRANSFER PVT. LTD.**

(57) Abstract :
The present industrial engine cooling system (Radiator) is generally made of copper-brass soldered joints. The contact between the tubes and copper fins uses solder and the tubes are connected to the common tank by soldering. Our newly designed High Integrity Radiator by virtue of its construction i.e. Steel Tube with aluminium embedded fins welded on to Header/Tanks effectively overcomes major draw backs associated with Copper-brass construction radiators.

No. of Pages : 9 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/07/2013
(21) Application No.2262/MUM/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PROCESS FOR THE PREPARATION OF SYRUP FROM NEERA, A SWEET SAP OBTAINED FROM PALM TREE PARTICULARLY PHOENIX SYLVESTRIS.

(51) International classification :a61k36/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)PROFESSOR BALU ANANDA CHOPADE**
Address of Applicant :BUILDING NO 18/C, FLAT NO.3, SAKALNAGAR, BANER ROAD, PUNE 411007 Maharashtra India
**2)SUCHITRA VISHAL MOKASHI**
(72)**Name of Inventor :**
**1)PROFESSOR BALU ANANDA CHOPADE**
**2)SUCHITRA VISHAL MOKASHI**
**3)DR. KARISHMA PARDESI**

(57) Abstract :
In one of the aspect of the invention it is provided a method for preparation of syrup from Neera obtained from Phoenix sylvestris, Fresh Neera is collected by tapping the palm tree which is brought to the laboratory under cold conditions to avoid fermentation. This Neera is collected in a sterile schott duran bottle to avoid any contamination. Neera is concentrated in the stainless steel pan having copper bottom by controlled heating at a suitable temperature, it was observed that no formation of scum with as well as without the addition of clarificant, but formation of foam, but no removal of scum, further at the temperature reached upto 100° C, edible oil is added to increase the temperature of boiling Neera up to 110 °C, particularly 105-107°C which is the Critical Point of Temperature (CPT),also it dissolves all the foam and gives good texture and consistency to the final product. At the suitable temperature, the heating is stopped completely and the syrup is allowed to cool to 80-85 °C which is then stored in the suitable sterile glass bottle after addition of the anti-crystallization agent, to-prevent the sugar crystal formation, thus the syrup obtained can be used as a soft drink by addition of diluent; In an another important aspect of the invention a method for preparing natural clarificant is provided by using an mucilaginous containing plants;

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/07/2013
(21) Application No.2220/MUM/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : LABORATORY SCALE BIPHASIC ANAEROBIC PACKED BED REACTOR FOR TREATING HIGH BOD CONTAINING WASTE WATER

(51) International classification :C02F3/28
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)DAVE SHAILESH RAMKRISHNA**
Address of Applicant :MICROBIOLOGY DEPARTMENT, SCHOOL OF SCIENCES, GUJARAT UNIVERSITY AHMEDABAD - 380 009 Gujarat India
**2)DUGGIRALA SRINIVAS MURTY**
(72)**Name of Inventor :**
**1)DAVE SHAILESH RAMKRISHNA**
**2)DUGGIRALA SRINIVAS MURTY**

(57) Abstract :
The present invention is a laboratory scale triphasic anaerobic packed bed reactor for the treatment of high BOD containing waste water wherein the anaerobic digestion of waste water takes place in two stages. In the first phase, liquefaction-acidification reactions are carried out by hydrolytic and fermentative bacteria while in the second phase, acetogenesis and methanogenesis is carried out by slow growing methanogenic and syntropic bacteria. As the two steps of anaerobic digestion are carried out in different reactors the rate of hydrolysis in the first stage can be increased by creating microaerophillic conditions to allow facultative fermentative activity while the rate of methanogenesis can be increased by designing the second reactor which can retain higher biomass. The main advantage of this two phase reactor is the greater biological stability offered for rapidly degrading biological wastes.

No. of Pages : 28 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/07/2013

(21) Application No.2234/MUM/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : 'AN IMPROVED PROCESS FOR THE PREPARATION OF 3-ARYLOXY-3-PHENYLPROPYL AMINE AND SALT THEREOF'

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|---|---|
| (51) International classification | :C07C 217/48; C07C213/06 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)ZCL CHEMICALS LTD.**
Address of Applicant :'A'- 806/807, 215 ATRIUM CHAKALA, ANDHERI (EAST), MUMBAI-400 059, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)AGARWAL NAND LAL**
**2)MISTRI PRANAV POPATLAL**
**3)PATEL TRUSHAR DAHYABHAI**
**4)MAKASANA PANKAJ JAYANTILAL**

(57) Abstract :
The present invention relates to an industrially feasible and economically viable process for the preparation of 3-aryloxy-3-phenylpropylamine and salt of formula I thereof.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/05/2012
(21) Application No.1726/CHE/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : INTELLIGENT FUEL METER USING FLOW SENSORS

(51) International classification :G01F
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)GOUTHAM.S**
Address of Applicant :13, J.S. APARTMENTS, 30/80, JONES ROAD, SAIDAPET, CHENNAI - 600 015 Tamil Nadu India
**2)HEMANT KUMAR.M**
**3)HEMNATH.J**
(72)**Name of Inventor :**
**1)GOUTHAM.S**
**2)HEMANT KUMAR.M**
**3)HEMNATH.J**

(57) Abstract :
The intelligent fuel meter using flow sensors displays discrete quantity of fuel in tank (102). This is obtained using inlet fuel flow measuring system (101) & outlet fuel flow measuring system (103) of the fuel tank (102). It also displays the instantaneous mileage, unit mileage of, the automobile and all other applications that has a fuel tank, and distance that can be traversed with available fuel which is obtained using the signals from the speed measuring system (105) and the outlet fuel flow measuring system (103). The meter displays history of fuel filling by obtaining a signal from the inlet fuel flow measuring system (101) during the time of fuel filling. The meter displays trip statistics by obtaining signals from the outlet fuel flow measuring system (103) and speed measuring system (105) for the corresponding trip. All the above mentioned fuel usage statistics is transmitted to a remote protected database & fuel management system (109) through a wireless medium (116) by a signal acquisition and data transmitter (106).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/06/2013
(21) Application No.2579/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A SYSTEM AND METHOD FOR MANAGING CONTENT USING GENERIC CONTENT MANAGEMENT INTERFACE

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

(71)**Name of Applicant :**
**1)HCL Technologies Limited**
Address of Applicant :50-53 Greams Road, Chennai-600006, Tamil Nadu India
(72)**Name of Inventor :**
**1)Praveen Alwar Pagadala**
**2)Arvind Kumar Maurya**
**3)Subramanya Uma Maheswara Prasad Dhanyamraju**

(57) Abstract :
A system and method for providing a unified solution to transmit data from one or more devices / OEMs to one or more storage providers. The system analyzes the metadata of a device, which is sending the request, and identifies an appropriate storage provider for storing the data. Further, the system can convert device specific data format and an API set used for transmitting the data to a storage specific data format and a generic API set. The generic API set can be used to transmit data to one or more storage providers. Additionally, the system supports an extendable interface to initiate a request from the device.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/06/2013

(21) Application No.2580/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : DLNA/UPNP-USB MASS STORAGE AND IR BRIDGE WITH DLNA/UPNP CONTROL

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|---|---|
| (51) International classification | :H04L, G06F |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)HCL Technologies Limited**
Address of Applicant :50-53 Greams Road, Chennai-600006, Tamil Nadu, India
(72)**Name of Inventor :**
**1)Manoj Kumar**
**2)Ankur Bansal**

(57) Abstract :
The embodiments herein relate to digital home entertainment and, more particularly, to enable network connectivity of non-DLNA devices having USB port which are present in DLNA environment. This system consists of a DLNA/UPnP-USB bridge which is connected to the non-DLNA device 5 by using an USB interface between them. The DLNA/UPnP-USB bridge configures the non-DLNA device by accessing its execution commands. Further, DLNA/UPnP-USB bridge discovers all DLNA media servers and stores their content in virtual file format. Now the control of non-DLNA device can be done by sending execution commands such as PLAY, 10 PAUSE, STOP and so on through any DLNA/UPnP controllers. The DLNA/UPnP-USB bridge receives these commands through suitable network interface like wifi and delivers them to non-DLNA device in IR form. Further, non-DLNA device receives these commands through its IR receiver and performs corresponding actions treating DLNA/UPnP-USB 15 bridge as mass storage disk connected to its USB port.

No. of Pages : 36 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/06/2013

(21) Application No.2675/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : SYSTEM AND METHOD FOR SUBSCRIBING TO A CONTENT STREAM

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

(71)**Name of Applicant :**
**1)WIPRO LIMITED**
Address of Applicant :Doddakannelli, Sarjapur Road, Bangalore 560035, Karnataka, India.
(72)**Name of Inventor :**
**1)Harish Nair Rajagopal**

(57) Abstract :
This disclosure generally relates to content distribution, and more particularly to a system and method for subscribing to a content stream. In one embodiment, a content subscription method is disclosed, comprising: receiving, at a subscriber electronic device, a publisher program schedule including a media item indication of a media item accessible to a publisher electronic device from a source; identifying, via the subscriber electronic device, a source accessible to the subscriber electronic device for the media item, wherein the source accessible to the subscriber electronic device comprises at least one of: the source accessible to the publisher electronic device, and/or a source not accessible to the publisher electronic device; accessing, via the subscriber electronic device, the media item from the source accessible to the subscriber electronic device in accordance with the publisher program schedule; and storing a portion of the accessed media item.

No. of Pages : 28 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/06/2013

(21) Application No.2765/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : SOLVENT RESISTIVITY OF SEGMENTED BLOCK COPOLYMERS BASED ON POLYSTYRENE

(51) International classification :C08F
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)A. ARUN**
Address of Applicant :ASST. PROFESSOR, DEPT. OF CHEMISTRY, GOVT. ARTS COLLEGE, TIRUVANNAMALAI 606 603 Tamil Nadu India
**2)E. VAKEES**
**3)J. SURESH**
(72)**Name of Inventor :**
**1)A. ARUN**
**2)E. VAKEES**
**3)J. SURESH**

(57) Abstract :
Segmented block copolymers with polystyrene soft segments and amide hard segment showed excellent solvent resistivity. Before copolymerisation, polystyrene is dissolved in all tested solvents and upon copolymerisation the solubility decreases drastically.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/06/2013
(21) Application No.2855/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : FORMULATION OF BIOCONTROL INSECTICIDE AGAINST MOSQUITO AND MOSQUITO LARVAE FROM PLANT LEAF EXTRACTS

(51) International classification :A01N65/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)R. SUBHAHARSHNI**
Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE - 637 215 Tamil Nadu India
**2)R.P. JANANI**
**3)J. RAJANI SOWPARNIKA**
**4)V. BALAKRISHNAN**
(72)**Name of Inventor :**
**1)R. SUBHAHARSHNI**
**2)R.P. JANANI**
**3)J. RAJANI SOWPARNIKA**
**4)V. BALAKRISHNAN**

(57) Abstract :
With a goal of inimizing application of environmentally hazardous chemical insecticides, an attempt was made to formulate a biocontrol insecticide against mosquito and mosquito larvae. The larvicidal activity of Solarium xanthocarpum and Cucurbita maxima against Culex quinquefasciatus was studied with different solvent extracts. The larvicidal activity was determined against the third instar larvae of Culex quinquefasciatus at four different concentrations such as 250ppm, 500ppm, 750ppm and 1000ppm. Distilled water with desired amount solvents were used as control. Larval mortality was assessed after 24h, 48h and 72h. A very high mortality rate was found in acetone extract of Solarium xanthocarpum and in ethyl acetate extract of Cucurbita maxima when compared to other extracts. The Larval spray and Mosquito repellant agarbhathi were formulated with highly effective extracts. Activity was tested and the compounds present in these extracts were separated by column chromatography and analyzed for phytoconstituents using GC-MS analysis.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/06/2013
(21) Application No.2857/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : EXTRACTION OF CRUDE DYE STUFFS FROM USED FLOWERS

(51) International classification :C09B
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)C. MONICA**
Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE - 637 215 Tamil Nadu India
**2)R. ARULVEL**
(72)**Name of Inventor :**
**1)C. MONICA**
**2)R. ARULVEL**

(57) Abstract :
The rich biodiversity of our country has provided us plenty of raw materials. Flowers are an exquisite source of colours and they have been used since ancient dyes for dyeing of textiles and other purposes. But due to the emergence of synthetic colourants, natural colours are not flourishing anymore. To retain our tradition and culture of natural dyes, it is essential to optimize the conditions and processes involved in this and more research should go into this area. The present invention optimizes a standard method for extraction of crude dye stuff from flowers. The method utilizes flowers used in the temples for embellishment and pooja purposes. Boiling method has been utilized for extraction of crude dyestuff. The flowers were cleaned, segregated and the petals were separated for the process. The flowers were dried and grinded before extraction. Extraction was carried out in a water bath at 80°C for 1 hour accompanied by occasional stirring. After removal of debris, approximately 20 ml of the crude dyestuff was collected. This crude dye stuff can be used for dyeing of textile fabric and also as a food colourant. This standardized process provides a standard protocol for extraction of crude dyestuff from flowers for various uses.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/06/2013
(21) Application No.2858/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : ISOLATION AND PARTIAL CHARACTERIZATION OF BIOLOGICALLY SYNTHESIZED SILVER NANO PARTICLES FROM STREPTOMYCES PSEUDOGRISEOLUS AND ITS ANTI-BACTERIAL ACTIVITY

(51) International classification :G01N33/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)R. SUBBAIYA**
Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY,K. S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGEDO - 637 215 Tamil Nadu India
**2)R. KAVIYADHIVYA**
**3)P. PONMURUGAN**
**4)M. MASILAMANI SELVAM**
(72)**Name of Inventor :**
**1)R. SUBBAIYA**
**2)R. KAVIYA DHIVYA**
**3)P. PONMURUGAN**
**4)M. MASILAMANI SELVAM**

(57) Abstract :
Actinomycetes is the gram positive bacteria which are most commonly isolated from the marine soil sample because the salt tolerant organism. Silver nanoparticles are having the unique properties which help in molecular diagnostics, in therapies, as well as in devices that are used in several medical procedures. The major methods used for silver nanoparticle synthesis are the physical and chemical methods. The silver nanoparticle was produced intracellular by Streptomyces pseudogriseolus in various concentrations of the silver nitrate solution. The optimum concentration of the silver nitrate solution was 2mM. The production of silver nitrate solution was confirmed by UV-Visible spectrophotometer analysis. The UV Visible spectrophotometer revealed the formation of silver nanoparticle by Plasmon absorption maxima at 422nm and the TEM image reveals the spherical particles at 29 to 300 nm. The Fourier transform spectroscopy confirmed the presence of protein surrounding the silver nanoparticles. The anti bacterial activity of the silver nanoparticle was also performed by disc diffusion method. The organism used for the anti bacterial activity was Staphylococcus aureus. The silver nanoparticle is characterised by using UV-Visible spectrophotometer, TEM and FTIR. The biological application of nanoparticles is a rapidly developing area of nanotechnology that raises new possibilities in the diagnosis and treatment. The study determines that the biologically synthesised silver nanoparticle has shown the effective growth against micro organisms.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/06/2013

(21) Application No.2860/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : MICROWAVE ASSISTED DETECTION OF UV-ABSORBING COMPOUNDS FROM LICHEN

(51) International classification :c07c
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)MR. G. AYYAPPADASAN**
Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE - 637 215 Tamil Nadu India
**2)DR. P. PONMURUGAN**
**3)DR. RAMA S VERMA**
**4)DR. SANJEEVA NAYAKA**
**5)MR. P. DEEPAK KUMAR**
(72)**Name of Inventor :**
**1)MR. G. AYYAPPADASAN**
**2)DR. P. PONMURUGAN**
**3)DR. RAMA S VERMA**
**4)DR. SANJEEVA NAYAKA**
**5)MR. P. DEEPAK KUMAR**

(57) Abstract :
Too much exposure to the sun light or artificial sun light (i.e. tanning beds) may lead to skin cancer and desquamation. UV radiation in the human body enhances the mutations in the DNA and terminates the cell division. Search of new compound which can able to protect the skin from UV rays is the current scenario in ecological interference. Natural bioresources are one of the main sources of UV absorbing compounds which can able to absorb and resist the UV rays from the environment. The present invention describes the preliminary idea to detect and enhance the UV absorbing compounds from lichen thalli. Microwave irradiation of lichen powder with corresponding solvent using magnetron of 2450 MHz with nominal maximum power of 700 W for 5 minutes. Microwaves are shorter wavelength and more penetration ability which intends the direct interaction of active components present in the thalli. Then the sample was centrifuged at 5000rpm for lOminutes. Supernatant was taken and concentrated using a vacuum desiccator of 100mm in Hg pressure about 3hrs. Then the spot has been developed using Hexane : Ethanol: Acetic acid : Formic acid (120:50:5:1) system. Present methodology improves the detection of a TLC plate by using natural lemon as spraying reagent. Lemon juice was extracted and filtered subsequently. It was sprayed with thin layer chromatography plate. The plate was air dried and observed under the UV chamber. The results revealed that UV absorbing components from lichens were clearly visible on a purple spot in the TLC plate but the conventional detection methodology was not much clear in visualizing the spot. Present invention helps to understand the extraction as well as detection of UV absorbing compounds in an effective and easiest way. Moreover, microwave assisted extraction method also helps to increase the phenolic content about 10-15% rather than the conventional methods.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/06/2013
(21) Application No.2862/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : ENZYME BASED FORMULATION OF CHITINASE FROM ENTOMOPATHOGENIC FUNGI

(51) International classification :C12N
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)R. ARATSELVI**
Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, K. S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGEDO - 637 215 Tamil Nadu India
**2)N. RAMACHANDRAN**
(72)**Name of Inventor :**
**1)R. ARUTSELVI**
**2)N. RAMACHANDRAN**

(57) Abstract :
Fungi are well characterized microorganisms due to their capacity to produce different extracellular compounds. The entomopathogenic fungi produce a wide range of cuticle degrading enzymes such as proteases, chitinases and lipases. To elucidate the precise role of the enzymes in the insect infection process, it is essential to characterize and purify the enzymes. The ideal purification strives to attain the maximum recovery of the desired enzyme, with minimal loss of activity, combined with the maximum removal of other contaminating enzymes. In the present study, entomopathogenic fungi was isolated from cadavers of insects and cultured in PDA medium. The fungi was inoculated in the sterilized Czapeck dox media with colloidal chitin and centrifuged after three days. From the supernatant, chitinase activity was calculated with the help of reducing sugar estimation method. The crude enzymes extracted from the fungi were subjected to 70% fraction ammonium sulphate precipitation and dialysed. The partially purified enzyme was lyophilised in lyophilizer for eight hours and the enzyme powder was stored at 4°C in a Refrigerator. The results revealed that, the crude chitinase solution showed enzyme activity of 179 U/ ml and specific enzyme activity of 0.96U/mg. The crude enzyme was precipitated at 80% saturation. The ammonium sulphate treated enzyme solution with enzyme activity of 26 U/ ml and specific enzyme activity of 0.64 U/mg was dialysed against distilled water for several hours. The result of dialyzed sample was found to be 3.65U/ml of enzyme activity whereas specific enzyme activity as 1.12 U/mg of protein. The enzyme was partially purified to 1.16 fold with a yield of 2.03 %. The lyophilisation process went upto eight hours at a temperature range of 35- 40°C and pressure of 40 Pascals. The powdered enzyme was stored in 4°C until used. Hence the product obtained can be used as a biopesticide owing to its less cost and various beneficial effects.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/06/2012

(21) Application No.2438/CHE/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PHOSPHO GYPSUM PLASTER OF PARIS (POP)

(51) International classification :C04B
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)S. SATISH KUMAR**
Address of Applicant :VRINDAVAN PARAT, PARAT LANE, NEAR MARKET, ALUVA, ERNAKULAM DISTRICT, PIN 683 101 Kerala India
(72)**Name of Inventor :**
**1)S. SATISH KUMAR**

(57) Abstract :
A method of manufacturing of building material from phosphogypsum completely avoiding sand and water. Phospho Gypsum is dried and calcinated using the calciner, then the calcinated phosphor gypsum is mixed along with F.E. Emulsion,Silicon Fine Powder, TT Dioxide, Calcined Plaster and Retardan P in the right composition to get phospogypsum plaster of paris (POP).

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/06/2013
(21) Application No.2438/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : DETERMINATION OF BONE MINERAL DENSITY OF HIP REGION FROM ANTHROPOMETRIC AND UPPER FEMORAL GEOMETRY USING ACCESSORY ATTACHED TO DIGITAL X-RAY IN POST MENOPAUSAL WOMOEN

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

(71)**Name of Applicant :**
**1)SREE BALAJI MEDICAL COLLEGE & HOSPITAL**
Address of Applicant :NO 7, CLC WORKS ROAD, CHROMEPET, CHENNAI - 600 044 Tamil Nadu India
(72)**Name of Inventor :**
**1)DR. PRABHU K**
**2)DR. MANI RAMESH**
**3)ER. RAJESH KUMAR D**
**4)MRS. SUMATHI C**
**5)MRS. SANGEETHA LAKSHMI C V**

(57) Abstract :
According to basic engineering principle, size and shape determine the strength of an object. In an alternative approach from anthropometric factors like age, height, and weight and geometric factors like hip axis length (HAL), neck shape angle (NSA) and neck width (NW) we formulated a method for determining bone mineral density. Age, height, and weight are the general profile of the patients.HAL, NSA and NW are the geometric factors of the upper end of femoral region measured from digital x-ray.HAL is defined as the distance from the centre of the head of the femur to the base of the greater trochanter.NSA is defined as the angle between the axis of the head and neck with the axis of shaft of the femur and is converted into radiant. NW is the shortest length of the neck of the femur. The novel method and apparatus attached to the digital X-ray computes the BMD from the input values through the ARM micro controller and outputs the said computed BMD in the digital output.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/06/2012

(21) Application No.2439/CHE/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PHOSPHO GYPSUM WALL PLASTER

(51) International classification :C04B
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)S. SATISH KUMAR**
Address of Applicant :VRINDAVAN PARAT, PARAT LANE, NEAR MARKET, ALUVA, ERNAKULAM DISTRICT 683 101 Kerala India
(72)**Name of Inventor :**
**1)S. SATISH KUMAR**

(57) Abstract :
A method of manufacturing of building material from phosphogypsum completely avoiding sand and water. Phospho Gypsum is dried and calcinated using the calciner, then the calcinated phosphor gypsum is mixed along with F.E. Emulsion, Fiber Glass Powder, Hydrated Lime powder, Silicon Fine Powder, TT Dioxide, Calcined Plaster Retardan P, PVA (Poly vinyl alcohol), Cellulose Methocell 228, White Cement, Vermiculite Grade 1 non treated and Pigments (colour). After mixing the ingredients in correct composition it is dried and packed to form the phosphogypsum plaster.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/06/2012
(21) Application No.2440/CHE/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PHOSPHO GYPSUM CUM PLASTIC COLOUR BLOCKS

(51) International classification :C04B
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)S. SATISH KUMAR**
Address of Applicant :VRINDAVAN PARAT, PARAT LANE, NEAR MARKET, ALUVA ERVAKULAM DISTRICT 683 101 Kerala India
(72)**Name of Inventor :**
**1)S. SATISH KUMAR**

(57) Abstract :
A method of manufacturing of building block from phosphogypsum. The blocks are manufactured by thoroughly mixing about 89% by volume of Phosphogypsum, 1% of FE Emulsion , 5 % of white cement and 5 % of other chemicals. The main raw material phosphogypsum is treated along with plastic molecules, various adhesives and chemicals. The chemicals used are F.E. Emulsion, Silicon Fine Powder, Hydrated lime powder, TT Dioxide, Calcined Plaster, Wax Emulsion, Retardant (Dissolvine D-50), Grease (Palm Oil), Glass Rovings and Pigments (colour). When mixed with water, it becomes slurry, which is then poured into moulds and the dryer will dry the blocks to get phosphogypsum cum plastic colour blocks.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/07/2013

(21) Application No.2922/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A PEDAL OPERATED OVEN

(51) International classification :F24C
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)Shanmukhappa Kuberappa Muttagi**
Address of Applicant :No.2917, 14th Main, R.P.C.Layout, Vijaynagar, II Stage, Bangalore-560040 Karnataka India
(72)**Name of Inventor :**
**1)Shanmukhappa Kuberappa Muttagi**

(57) Abstract :
The invention provides a pedal operated oven for cooking eatables. The pedal operated oven includes a container, a source of heat positioned below the container, a blower positioned near the source of heat and a pedal coupled to the blower. The pedal drives the blower to ignite the source of heat for cooking food in the oven.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/05/2013

(21) Application No.2189/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PROCESS FOR THE PREPARATION OF LINAGLIPTIN VIA NOVEL INTERMEDIATES

(51) International classification :C07D
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)DIVI'S LABORATORIES LTD.**
Address of Applicant :7-1-77/E/1/303, DHARAM KARAN ROAD, AMEERPET, HYDERABAD - 500 016 Andhra Pradesh India
(72)**Name of Inventor :**
**1)MURALI KRISHNA PRASAD DIVI**
**2)NAGESWARA RAO BOLNENI**
**3)NAGA VENKATA SASTRY MUDIGANTI**

(57) Abstract :
The present invention relates to a novel and improved process for the preparation of linagliptin, chemically known as (R)-8-(3-amino-piperidin-l-yl)-7-but-2-ynyl-3-methyl-l-(4-methyl-quinazolin-2-ylmethyl)-3, 7-dihydro-purine-2, 6-dione through novel intermediates using (3S)-l-(7-(but-2-ynyl)-3-methyl-l-((4-methylquinazolin-2-yl)methyl)-2, 6-dioxo-2, 3, 6, 7-tetrahydro-lH-purin-8-yl) piperidin-3-yl methanesulfonate (K) and (3R)-8-(3-azidopiperidin-l-yl)-7-(but-2-ynyl)-3-methyl-l-((4-methylquinazolin-2-yl)methyl)-1 H-purine-2,6-(3H,7H)-dione (L).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2012
(21) Application No.1407/CHE/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : FOOD CARRYING VEHICLE WITH HEAT RECOVERY SYSTEM

| | |
|---|---|
| (51) International classification | :B60P 3/20 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)SRI EVENTS & MARKETERS/TAJ CATERING SERVICES**
Address of Applicant :H.NO.15-21-237/24, BALAJINAGAR, KUKATPALLY, HYDERABAD-500 072 Andhra Pradesh India
(72)**Name of Inventor :**
**1)MR.KANKANALA. SRINADHA RAO**

(57) Abstract :
The global warming is the present pressing issue in the world. The scientific communities are working towards reducing the global warming caused by pollution. There are three types of pollution in the atmosphere which are caused by industrialization and by the automobiles; they are air pollution, noise pollution and thermal pollution. The present invention mainly focuses in reduction of thermal pollution. Concentrating on automobile sector and as the two wheelers are the means of transport for common citizen in India. The two wheelers and four wheelers are used in this invention and the silencer is used to convert the non-conventional thermal energy into useful energy to keep the food fresh and in ready to use condition. Initially the coolant is in liquid form and as the engine gets heated and starts to emit heat from the silencer mouth end, the heat is trapped in the front coil through radiation at the mouth of the silencer then the coolant gets converted into steam. The steam flow upward into copper tube on the inner vessel. The bottom of the coil is filled with liquid and gets pressurized to it flows in to hot chamber, the heat from steam is dissipated into the coil and in turn to the hot case inner vessel. The coolant in steam from gets vaporized and is released into coolant chamber where it further gets condensed and transformed into liquid form and it again send it back to bottom end of the silencers, the liquid keep filling due to weight and force it pushes the water to top hot zone. This is a cyclic process. By utilizing the thermal energy released from the exhaust of the automobile we reduce thermal pollution released into the atmosphere and preservation of food is done.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/06/2013
(21) Application No.2859/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PROBIOTICATION OF NANNARI SYRUP BY USING LACTOBACILLUS ACIDOPHILUS ISOLATED FROM CURD

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

(71)**Name of Applicant :**
**1)S. ANITA**
Address of Applicant :DEPEARTMENT OF BIOTECHNOLOGY, K. S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGEDO - 637 215 Tamil Nadu India
**2)D. VAISHNU DEVI**
**3)DR. P. PONMURUGAN**
(72)**Name of Inventor :**
**1)S. ANITA**
**2)D. VAISHNU DEVI**
**3)DR. P. PONMURUGAN**

(57) Abstract :
Probiotic are a live microbial food/feed supplement that beneficially affects the host by improving the intestinal microbial balance. These groups of microorganisms are competent in inhibiting pathogens and toxins produced by them. Most group of probiotic microorganisms falls under the category of Lactic Acid Bacteria (LAB). In the present study, Lactobacillus strains were isolated from curd and it was confirmed as Lactobacillus acidophilus through biochemical and molecular characterization. Nannari syrup was prepared using jaggary and L.acidophilus was inoculated. The probioticated Nannari syrup was tested for the antimicrobial activity against four species such as Escherichia coli, Bacillus thuringiensis, Salmonella typhimurium and Shigella dysenteriaei. The results revealed that, probioticated Nannari syrup was found to highly efficient in controlling the pathogens. The results of antioxidant tests gave similar results whereas, the probioticated Nannari syrup was found to be highly potential in antioxidant activity. The R2 value was found to be 0.882 for Nannari syrup and when compared with the standard values of 0.957. Hence the product obtained can be used by all group of people owing to its less cost and various beneficial effects.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/06/2013

(21) Application No.2679/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : AN INFLATABLE STRUCTURE FOR TRANSRORT OF PERISHABLE FLUIDS

| | | |
|---|---|---|
| (51) International classification | :B65D | (71)**Name of Applicant :** |
| (31) Priority Document No | :NA | **1)Shanmukhappa Kuberappa Muttagi** |
| (32) Priority Date | :NA | Address of Applicant :No.2917, 14th Main, R.P.C.Layout, |
| (33) Name of priority country | :NA | Vijaynagar, II Stage, Bangalore-560040 Karnataka India |
| (86) International Application No | :PCT// | (72)**Name of Inventor :** |
| Filing Date | :01/01/1900 | **1)Shanmukhappa Kuberappa Muttagi** |
| (87) International Publication No | : NA | |
| (61) Patent of Addition to Application Number | :NA | |
| Filing Date | :NA | |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :
The invention provides an inflatable structure for transport of perishable fluids within a container. The inflatable structure includes a partially rigid structure with an inlet configured for positioning within the inlet of the container, an outlet configured for positioning within the outlet of the container and a guider string provided for snugly fitting of the inflatable structure to the inner contours of the container.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/05/2012
(21) Application No.1746/CHE/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PANOPTIC ANALOGOUS NEOVOLTAICS PANELS

(51) International classification :F24J
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)TEJAS**
Address of Applicant :016 & 017, B BLOCK, GF, 6TH MAIN, SAMPIGAE LAYOUT, BRINDAVAN APARTMENT, AMARJHOTHY NAGAR, BANGALORE - 560 079 Karnataka India
(72)**Name of Inventor :**
**1)TEJAS**

(57) Abstract :
Thus as seen in the previous pages it can be concluded that the PANels proves promising as it is able to sustainably consume area by keeping the technology within economic reach. It is capable of generating twice the electricity hence it results in double the electricity production. The Fig 13:13 depicts the inclined view of the PANels. The PANels utilizing easy concepts would help reducing manufacturing cost and its enhanced production rate would encourage investors and power-plants to use this design to achieve economic growth and meet the energy crisis. The PANels also provides a great future for further space exploration where it would be highly beneficial in running the equipments. It would be so as it would increase the efficiency to multiple folds. The satellite solar panel area allocation can be reduced by multiple folds and still provide the satellite with adequate energy. Use of PANels on robots like the land Rover will provide the rover with the freedom to draw more energy and furthermore provides it with a sleek, stable and a steady design. The PANels would be a great solution where people might be inclined to harness the solar energy as the primary source of energy in future years.

No. of Pages : 24 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/06/2013

(21) Application No.2803/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : RULE BASED IPV4 TO IPV6 MIGRATION ASSISTING FRAMEWORK

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

(71)**Name of Applicant :**
**1)HCL Technologies Limited**
Address of Applicant :HCL Technologies Ltd, 50-53 Greams Road, Chennai- 600006, Tamil Nadu, India
(72)**Name of Inventor :**
**1)Shashidhar Krishnamurthy**
**2)Mukta Agarwal**
**3)Saurabh Chattopadhyay**
**4)Banish Bansal**
**5)Shailender Govil**

(57) Abstract :
A method and system for rule based Internet Protocol version 4 (IPv4) to Internet Protocol version 6 (IPv6) migration assisting framework is disclosed. The method provides guidance and assistance for migrating a product, a system or the like to IPv6. The method views across the complete development life cycle, not restricting only to the impacted code base of the system artifacts. The method scans the system artifacts for IPv4 dependency detection and then provides IPv4 Dependency Removal Effort Estimation (IDRE). The IPv4 dependency detection is based on predefined Meta-rules constructed with respect to the context of product. The IDRE combines Analysis Effort (AE) and Project Execution Effort (PEE) to provide a user and/or the organization order of magnitude estimate based on the assessment of IPv4 dependencies, level of coupling with IPv4 dependencies against different parts of the system artifacts.

No. of Pages : 55 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/06/2012

(21) Application No.2437/CHE/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PHOSPHO GYPSUM COLOUR BLOCKS

(51) International classification :C04B
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)S. SATISH KUMAR**
Address of Applicant :VRINDAVAN PARAT, PARAT LANE, NEAR MARKET, ALUVA ERNAKULAM DISTRICT, PIN 683 101 Kerala India
(72)**Name of Inventor :**
**1)S. SATISH KUMAR**

(57) Abstract :
A method of manufacturing of buiilding block from phosphogypsum. The blocks are manufactured by thoroughly mixing about 89% by volume of Phosphogypsum, 1% of FE Emulsion, 5 % of white cement and 5 % of other chemicals. The chemicals used are F.E. Emulsion, Silicon Fine Powder, Hydrated lime powder, TT Dioxide, Calcined Plaster, Wax Emulsion, Retardant (Dissolvine D-50), Grease (Palm Oil), Glass Rovings and Pigments (colour). When mixed with water, it becomes slurry, which is then poured into moulds and the dryer will dry the blocks to get the colour phosphogypsum blocks.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/06/2013

(21) Application No.2828/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A SYSTEM AND METHOD FOR CERTIFYING APPLICATION USING A CERTIFICATION PLATFORM

| | | |
|---|---|---|
| (51) International classification | :G06F | (71)**Name of Applicant :** |
| (31) Priority Document No | :NA | **1)HCL Technologies Limited** |
| (32) Priority Date | :NA | Address of Applicant :at HCL Technologies Ltd, 50-53 |
| (33) Name of priority country | :NA | Greams Road, Chennai- 600006 Tamil Nadu India |
| (86) International Application No | :NA | (72)**Name of Inventor :** |
| Filing Date | :NA | **1)Bharath Balakrishnan** |
| (87) International Publication No | : NA | **2)Rajesh Venkatesan** |
| (61) Patent of Addition to Application Number | :NA | **3)Madhava Venkatesh Raghavan** |
| Filing Date | :NA | **4)Balamuralikrishna Vengateson** |
| (62) Divisional to Application Number | :NA | **5)Rajesh Muruguan** |
| Filing Date | :NA | |

(57) Abstract :
The embodiments herein relate to certifying applications and, more particularly to automate application certifying process in a software environment. The system fetches and analyzes the metadata of the input application and categorizes the application based on the metadata analysis. Based on the category of the application and the metadata of the application, automated or manual test cases are executed in a test environment. Further, the test results are collated and are published on an interface. Based on the test results, the certification process stake-holders can configure the certification platform as required.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/05/2012
(21) Application No.2088/CHE/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : INTELLIGENT GRINDER

(51) International classification :B24B
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)J. LEELAKRISHNAN**
Address of Applicant :49, AMBIKA LAYOUT, NEW SIDDHAPUDUR, COIMBATORE 641 044 Tamil Nadu India
(72)**Name of Inventor :**
**1)J. LEELAKRISHNAN**

(57) Abstract :
An Intelligent Grinder comprising of a wet grinder, which prevents the problems caused due to overloading of the motor. Over loading of the motor is indicated by the user with the help of a buzzer alarm or voice alarm, saves valuable time of the owner, as there is no need to frequently monitor the wet grinder and also prevent over heating of the motor coil, the invention has novel feature of forward & reverse rotation of grinder drum with a unique style of rotation of 7 minutes clockwise and 3 minutes anti clockwise and vice versa or as programmed, which provides finest quality and quantity of products.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/06/2013

(21) Application No.2710/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : IDENTIFYING OBJECTS USING ˜OBJECT HASH™ DERIEVED FROM OBJECT PROPERTIES

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

(71)**Name of Applicant :**
**1)HCL Technologies Limited**
Address of Applicant :HCL Technologies Ltd. 50-53 Greams Road, Chennai 600006, Tamil Nadu, India
(72)**Name of Inventor :**
**1)Simy Chacko**
**2)Dhanyamraju S U M Prasad**

(57) Abstract :
The embodiments herein relate to database management systems and, more particularly, to identifying/grouping similar objects quickly using a storable hash that is derived from different properties of the object. Initially, the system prepares a sorted list for the objects by using their hash values. This can be done by calculating the ˜object hash™ value for each object. In order to get ˜object hash™ of a particular object, ˜property hash™ values of each property defining that particular object are calculated by the system. Further, the system sorts the objects based on defined ˜object hash™ values and prepares a sorted list. Finally, similar objects referring to a particular object can be easily identified/grouped with the help of sorted list.

No. of Pages : 26 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/06/2013

(21) Application No.2811/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : AUTOMOBILE WINDSHIELD WIPER

(51) International classification :B60S
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)DR. P. KARUPPUSWAMY**
Address of Applicant :PROFESSOR AND HEAD, DEPARTMENT OF MECHANICAL ENGINEERING, SRI RAMAKRISHNA ENGINEERING COLLEGE, VATTAMALAIPALAYAM, N.G.G.O. COLONY (P.O), COIMBATORE - 641 022 Tamil Nadu India
(72)**Name of Inventor :**
**1)DR. P. KARUPPUSWAMY**
**2)SANJAY BALA BALASUBRAMANIAN**

(57) Abstract :
A wind screen wiper unit comprising of a rotary forward and reverse swinging mechanism provides wind shield wiper to auto mobiles like passenger cars, three wheelers and motor cycles etc. This wiper unit consists of a rotating device to which a swinging wiper is attached through an gear mechanism having pinion and segmental gears of internal & external nature. The gear arrangement is positioned in a manner that the clock wise or counter clockwise rotation of the drive motor will be transform in to a swing/oscillating motion of left to right or right to left wiping action.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/06/2013

(21) Application No.2813/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHODS FOR IMPROVING PATIENT ADHERENCE TO A MOBILITY PROGRAM AND DEVICES THEREOF

| | | |
|---|---|---|
| (51) International classification | :G06F | (71)**Name of Applicant :** |
| (31) Priority Document No | :NA | **1)WIPRO LIMITED** |
| (32) Priority Date | :NA | Address of Applicant :Doddakannelli, Sarjapur Road, |
| (33) Name of priority country | :NA | Bangalore 560035, Karnataka, India. |
| (86) International Application No | :PCT// | (72)**Name of Inventor :** |
| Filing Date | :01/01/1900 | **1)SATISH PRASAD RATH** |
| (87) International Publication No | : NA | |
| (61) Patent of Addition to Application Number | :NA | |
| Filing Date | :NA | |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :
A method, non-transitory computer readable medium, and a mobility program adherence device that obtains a mobility program for a patient including instructions for physical activities and an expected duration during a time period that the patient is to perform each of the physical activities. Data from an accelerometer of a patient monitoring device associated with the patient is received during at least a portion of the time period. The obtained data is processed to identify one or more of the physical activities performed by the patient. A duration the patient has performed the identified physical activities is determined. A graphical display including the determined duration the patient performed each of the physical activities during the at least a portion of the time period and an indication of the expected duration that the patient is to perform each of the physical activities during the time period is generated and output.

No. of Pages : 27 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/07/2012

(21) Application No.2838/CHE/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : AN IMPROVED PROCESS FOR THE PREPARATION OF DABIGATRAN ETEXILATE MESYLATE AND ITS INTERMEDIATES THEREFOF

(51) International classification :C07D
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)DR. DAVULURI RAMAMOHAN RAO**
Address of Applicant :204, II FLOOR, MERIDIAN PLAZA, 6-3-853/1, AMEERPET, HYDERABAD 500 016 Andhra Pradesh India
(72)**Name of Inventor :**
**1)PONNAIAH RAVI**
**2)NEELA PRAVEEN KUMAR**
**3)BATTHINI GURUSWAMY**
**4)B. VEERA NARAYANA**
**5)TELAGAREDDY VENKATA NARASIMHA RAO**
**6)K. RAVANABABU**

(57) Abstract :
An improved process for the preparation of DabigatranEtexilateMesylate and the processes for the preparation of Dabigatran single prodrug and Dabigatran Etexilate are described in this invention.

No. of Pages : 36 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/06/2013

(21) Application No.2692/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHOD AND SYSTEM FOR DETECTING WATER LEVEL AND CONTROLLING OPERATIONS OF AN ELECTRIC MOTOR USED FOR FILLING WATER IN A TANK

(51) International classification :G01M
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)BANDA ROHITH REDDY**
Address of Applicant :H.NO. 9-4-608/1, RAMALAYAM STREET, SAPTHAGIRI COLONY, KARIMNAGAR - 505 002 Andhra Pradesh India
(72)**Name of Inventor :**
**1)BANDA ROHITH REDDY**

(57) Abstract :
Exemplary embodiments of the present disclosure are directed towards a system and method detecting water level and controlling operations of an electric motor used for filling water in a tank. The system includes a first conductivity sensor mounted over an interior of a water tank at a minimum level to detect a minimum threshold level of the water and dynamically generate an activation signal to activate an electric water pump. A second conductivity sensor mounted over an interior of a water tank at a maximum level to detect maximum threshold level of the water and dynamically generate an deactivation signal for deactivating an electric water pump. A third conductivity sensor placed between first conductivity sensor and second conductivity sensor to detect a current water level in the water tank to provide an indication to operate the electric water pump. A controller operates an electric motor in predetermined water levels to provide the signal information for operating the electric motor.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/06/2013

(21) Application No.2694/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : SYSTEM AND METHOD FOR IDENTIFICATION OF IMPACTED TEST CASES DUE TO CODE CHANGES

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

(71)**Name of Applicant :**
**1)HCL Technologies Limited**
Address of Applicant :HCL Technologies Ltd. 50-53 Greams Road, Chennai 600006, Tamil Nadu, India
(72)**Name of Inventor :**
**1)Yogesh Gupta**
**2)Bibhore Singhal**
**3)Amit Kumar**
**4)Dhanyamraju SUM Prasad**

(57) Abstract :
The embodiments herein relate to software testing and, more particularly, to identify impacted test cases due to code changes in software testing. When an application has to be tested for identifying impacted test cases, corresponding release source code and target source code are fetched as inputs. Further, the system checks whether the fetched code is managed code or unmanaged code. Managed code directly gets compiled into intermediate code which may be analyzed further whereas the unmanaged code gets compiled into machine specific codes. So the unmanaged code is initially processed using a combination of compiler and instrumentor to convert to a form that may be analyzed further. Then instructions to record coverage hits are inserted to the codes which are then executed. Coverage hits produced during code execution are recorded and analyzed further to identify impacted test cases.

No. of Pages : 27 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/06/2013
(21) Application No.2854/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : FORMULATION OF NBS-LRR GENE TRANSFORMED E. COLI ALONG WITH POWDERED EGG SHELL FOR ITS USE AS A BIOCONTROL AGENT

(51) International classification :C07K14/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)A. SRIRAM**
Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, K.S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE Tamil Nadu India
**2)M. RAMYA**
(72)**Name of Inventor :**
**1)A. SRIRAM**
**2)M. RAMYA**

(57) Abstract :
The nucleotide binding site- leucine rich repeat (NBS-LRR) is the disease resistance gene present in plants. One of the major challenges faced by modern agriculture is to achieve not only a satisfactory but also an environment friendly control of plant diseases. Therefore in this work it is aimed to clone NBS-LRR gene from Jatropha to E.coli and use it as the biocontrol agent to overcome these challenges. Jatropha curcus was chosen as the source for NBS-LRR gene because there are about 150 clones of resistance (R) genes present in it. The primer was designed specific to the NBS-LRR gene and it was amplified by Polymerase Chain Reaction (PCR). The amplicon was observed to be 600bp. It was then eluted for ligation with pGEMT vector. Totally 107 colonies were obtained in Blue white screening, out of which 41 were white. Presence of insert was confirmed by PCR confirmation and restriction analysis. The dual culture test was done against Fusarium and activity was compared with Trichoderma and normal E.coli. The transformed E.coli DH5α strain exhibited 64% inhibition which was more efficient than Trichoderma which showed 61% and normal E.coli with 43% inhibition. Therefore the transformed strain was formulated and can be used as a biocontrol agent.

No. of Pages : 9 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/06/2013
(21) Application No.2671/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : SYSTEMS AND METHODS TO CONSTRUCT ENGINEERING ENVIRONMENT SUPPORTING API ENABLEMENT FOR SOFTWARE DEFINED NETWORKING

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

(71)**Name of Applicant :**
**1)HCL Technologies Limited**
Address of Applicant :HCL Technologies Ltd, 50-53 Greams Road, Chennai- 600006, Tamil Nadu, India
(72)**Name of Inventor :**
**1)Shashidhar Krishnamurthy**
**2)Anurag Jain**
**3)Mukta Agarwal**
**4)Saurabh Chattopadhyay**

(57) Abstract :
The embodiments herein relate to software defined networking (SDN) and, more particularly, to a system and method to construct an engineering environment for API enablement in Software defined networking. The system enables the device use SDN functionality by designing an API model specific to that device. In order to design the device specific API model, an API enablement system initially leverages functionality/capabilities of the device. Further, by analyzing the leveraged device capabilities, the system designs the API model for the device. After implementing the API model on the device, the system performs a review function to ensure that the designed API model is in compliance with set rules and policies. The API model may be refined based on results of the review function.

No. of Pages : 35 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/04/2013
(21) Application No.1737/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : BALL POINT PAPER PEN MAKING MACHINE, PROCESS OF MAKING AND THE PRODUCT MADE THEREOF

(51) International classification :B43K
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)MS. LAKSHMI NARAYANAN**
Address of Applicant :SREELAXMI, KULAYETTIKARA P.O., ERNAKULAM DISTRICT - 682 315 Kerala India
(72)**Name of Inventor :**
**1)MS. LAKSHMI NARAYANAN**

(57) Abstract :
A paper roll pen making machine assembled using an enclosure, a 220 V AC Motor, toothed V belt, paper feed rotating shafts, mandrel and bushings, speed controller with rotary knob and pedal switch and process of rolling recycled paper on to the refill and the product made thereof is disclosed..

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/06/2013

(21) Application No.2682/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : CONTEXT-AWARE IN-VEHICLE DASHBOARD

| | |
|---|---|
| (51) International classification | :G06F, H04L |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :PCT//<br>:01/01/1900 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)WIPRO LIMITED**
Address of Applicant :Doddakannelli, Sarjapur Road, Bangalore 560035, Karnataka, India.
(72)**Name of Inventor :**
**1)Sriraman Kandhadai Raghunathan**
**2)Aswath Premaradj**

(57) Abstract :
Context-aware in-vehicle dashboard systems and methods are disclosed. Said systems and methods are capable of determining vehicle states and context using a variety of both vehicle-based and non-vehicle based data sources, and adapting to different vehicle states. Systems and methods in accordance with the present disclosure may be capable of presenting different information and/or notifications based on the vehicle state and the category/priority of the information and/or notifications.

No. of Pages : 29 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/06/2012

(21) Application No.2441/CHE/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PHOSPHO GYPSUM WALL PUTTY

(51) International classification :C04B
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)S. SATISH KUMAR**
Address of Applicant :VRINDAVAN PARAT, PARAT LANE, NEAR MARKET, ALUVA, ERNAKULAM DISTRICT, PIN 683 101 Kerala India
(72)**Name of Inventor :**
**1)S. SATISH KUMAR**

(57) Abstract :
A method of manufacturing of building material from phosphogypsum completely avoiding sand and water. Phospho Gypsum is dried and calcinated using the calciner, then the calcinated phosphor gypsum is mixed along with F.E. Emulsion, Foam master, Fiber Glass Powder, Consistency Reducer Melment F15 G, Hydrated Lime Powder, WackerVinnapas 8034H, TT Dioxide, Cellulose Methocell 228, Calcined Plaster, PVA (Poly vinyl alcohol), RetardanP, Filler Mica 75 microns and Calcium carbonate 35-75 micron. After mixing the ingredients in correct composition it is dried and packed to form phosphogypsum putty.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/06/2013

(21) Application No.2789/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : MECHANISM FOR REDUCING IMPACT FORCE ON AN AUTOMOBILE

(51) International classification :B60R
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)PANDRE SANDEEP**
Address of Applicant :H.NO. 6-19-218, ADARSH NAGAR, NIZAMABAD - 503 001 Andhra Pradesh India
(72)**Name of Inventor :**
**1)PANDRE SANDEEP**

(57) Abstract :
Exemplary embodiments of the present disclosure are directed towards a mechanism for reducing impact force on an automobile. The mechanism includes one or more bending structures positioned between a bumper and an automobile to reduce the transmission of impact force, a front end of the one or more bending structures coupled to the bumper and a rear end of the one or more bending structures coupled to the automobile.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/05/2012

(21) Application No.1749/CHE/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : TRIO-GREEN AUTOMOTIVE VEHICLE (TGAV)

| | | |
|---|---|---|
| (51) International classification | :b60k | (71)**Name of Applicant :** |
| (31) Priority Document No | :NA | **1)VISHNUPRIYA MOHANDAS** |
| (32) Priority Date | :NA | Address of Applicant :NO.919 4TH BLOK, J.J. NAGAR |
| (33) Name of priority country | :NA | WEST, CHENNAI - 600 037 Tamil Nadu India |
| (86) International Application No | :NA | **2)ARISTO MATHIVANA** |
| Filing Date | :NA | (72)**Name of Inventor :** |
| (87) International Publication No | : NA | **1)VISHNUPRIYA MOHANDAS** |
| (61) Patent of Addition to Application Number | :NA | **2)ARISTO MATHIVANA** |
| Filing Date | :NA | |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :
The Trio - Green Automotive Vehicle (TGAV) is driven by electric energy whereas, it is recharged by pneumatic energy and solar energy. It includes an electric source that stores and supplies electric energy, a pneumatic source that stores and supplies pneumatic energy, a solar energy to electric energy converter that stores electric energy in the electric energy storage device, an electric energy to mechanical energy converter that drives the vehicle, a pneumatic energy to mechanical energy converter connected to a mechanical energy to electric energy converter that recharges electric energy in the electric energy storage device, an air supply system which compresses the atmospheric air and stores it in the pneumatic energy storage system, and a power transmission system for transmitting the power generated by the electric drive-train to the wheels.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/06/2013

(21) Application No.2420/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : MOBILE FARM CONTAINER REFRIGERATION SYSTEM

(51) International classification :F25B
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)THUMMAGUNTA MUNIRATHIRAM VENU**
Address of Applicant :NO. 2/21A, KANNIAPPAN STREET, SHANTI NAGAR, RAMAPURAM, CHENNAI - 600 089 Tamil Nadu India
(72)**Name of Inventor :**
**1)THUMMAGUNTA MUNIRATHIRAM VENU**

(57) Abstract :
A mobile container refrigeration system is disclosed. The mobile container refrigeration system includes an insulated container, thermal management plates, a first refrigeration system and a second refrigeration system. The thermal management plates are disposed inside the insulated container. The first refrigeration system includes a compressor, a condenser, an expansion device, an evaporator coil and a blower. The blower blows air inside the insulated container by passing air over evaporator coil for facilitating cooling. The second refrigeration system includes a compressor, a condenser, an expansion device and an evaporator coil. The evaporator coil is functionally connected to the thermal management plates. Each of the plates is filled with a phase change material which accumulates cooling energy while the second refrigeration system is operated by a power source. The second refrigeration system facilitates cooling in absence of power input to the first refrigeration system and the second refrigeration system.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/06/2013

(21) Application No.2676/CHE/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A SHOCK ABSORBING SYSTEM FOR AUTOMOTIVE VEHICLE STARTER

(51) International classification :F16F
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)COMSTAR AUTOMOTIVE TECHNOLOGIES PVT LTD**
Address of Applicant :KEELAKARANAI VILLAGE, MALROSAPURAM POST, MARAMALAINAGAR, CHENGALPATTU - 603 204 Tamil Nadu India
(72)**Name of Inventor :**
**1)RADHAKRISHNAN, MURUGANANDAM**
**2)GANESAN, THULASIRAJAN**
**3)HAMMOND, STEVEN RONALD**

(57) Abstract :
The present invention relates to a shock absorbing system incorporated with a starter for absorbing impact load caused during cranking and back rock condition of engine. The current system of shock absorbing devices is either very complex in design & assembly or becomes less reliable and durable mainly due to the material of the damping medium and construction thereof. The shock absorbing system of the present invention has an output shaft, associated with drive assembly, coupled with an armature shaft of an electric motor. A cam is disposed on said output shaft and is assembled with a barrel in such a way to receive a clock spring. As the power transfer from the cam to the barrel via the clock spring, the impact load is getting absorbed by the lock spring and then the power transmitted from the pinion to ring gear of flywheel, and vice versa during the back rock condition.

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

## 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

(19) INDIA

(22) Date of filing of Application :18/11/2010

(21) Application No.2739/DEL/2010 A

(43) Publication Date : 19/07/2013

(54) Title of the invention : SYSTEM AND METHOD FOR DETERMINING THE ENVIRONMENTAL IMPACT OF A PROCESS

| | | |
|---|---|---|
| (51) International classification | :G06Q | (71)**Name of Applicant :** |
| (31) Priority Document No | :12/653,470 | **1)TREDEGAR FILM PRODUCTS CORPORATION** |
| (32) Priority Date | :15/12/2009 | Address of Applicant :1100 BOULDERS PARKWAY |
| (33) Name of priority country | :U.S.A. | RICHMOND VIRGINIA 23225 UNITED STATES U.S.A. |
| (86) International Application No | :NA | (72)**Name of Inventor :** |
| Filing Date | :NA | **1)BARBA, DIEGO** |
| (87) International Publication No | :NA | **2)GREGORIO, ALESSANDRO DI** |
| (61) Patent of Addition to Application Number | :NA | **3)LUBERTI, ROLANDO** |
| Filing Date | :NA | |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :
A system and method for determining the environmental impact of a process is disclosed in which resources are categorized into distinct Environmental Performance Indicators (EPIs), some of which are value EPls that are derived based on the amount of the resource used per Finished Product Volume (FPV), which is representative of the amount of product that is produced by the process; and others are percentage EPls that represent a measure of efficiency, and are derived from the amount of renewable resources used as a percentage of total resources used. A graphical representation of the EPls allows a quick visual interpretation of the environmental friendliness of a particular process or group of processes, and allows a visual comparison between two different processes.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/12/2009
(21) Application No.2570/DEL/2009 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A BATTERY CHARGING STATION

(51) International classification :B27B
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)SU-KAM POWER SYSTEMS LTD.,**
Address of Applicant :PLOT NO. WZ-1401/2, NANGAL RAYA, NEW DELHI-110046 India
(72)**Name of Inventor :**
**1)KUNWER SACHDEV**
**2)VENKAT RAJARAMAN**
**3)SANJEEV KUMAR SAINI**

(57) Abstract :
The present invention relates to a system for secure charging of battery of an electronic gadget comprises a controller, an AC input section, charging mechanism for charging the charge storage device for backup, buzzer/ alarm, renewable energy as other input power source and AC/ DC converters for converting an AC into DC for charging plurality of batteries or gadgets connected to each other

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2011

(21) Application No.84/DEL/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : AN IMPROVED CONNECTOR FOR REFRESH/BOOST CHARGING OF ENERGY STORAGE DEVICE.

(51) International classification :B27B
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)SU-KAM POWER SYSTEMS LTD.,**
Address of Applicant :306, KIRTI DEEP BUILDING, NANGAL RAYA, NEW DELHI-110046, India
(72)**Name of Inventor :**
**1)KUNWER SACHDEV**
**2)SANJEEV SAINI**
**3)HEM RAJ SUMAN**

(57) Abstract :
This invention relates to an improved connector for refresh/ boost charging the secondary storage device comprises of a connector having two end attached to the battery terminal from outside and a conductor having a first end which is to be connected at storage device terminal and a second end connected to the wire/ main supply.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/09/2011
(21) Application No.2515/DEL/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A SYSTEM AND METHOD FOR REMOTE MONITORING AND CONTROL OF SOLAR / RENEWABLE SYSTEM

(51) International classification :G06C
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)SU - KAM POWER SYSTEMS LTD**
Address of Applicant :306, KIRTI DEEP BUILDING, NEW DELHI India
(72)**Name of Inventor :**
**1)KUNWER SACHDEV**
**2)SANJEEV KUMAR SAINI**
**3)PRASHANT PATHAK**
**4)KAMAL KANT SANDEEP**

(57) Abstract :
The present invention relates to a system and method for remote monitoring and control of solar systems or any renewable system. Present invention provides a wireless communication channel based communication system comprising a power module, micro-controller unit, modem unit, memory, SIM holder, PFC & I/Os interface, communication protocol interfaces, USB interface and indicating devices such as LEDs connected to each other and working in a combination.

No. of Pages : 29 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2003
(21) Application No.1402/DEL/2003 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A COMPETITIVE ENZYME LINKED IMMUNOSORBENT ASSAY FOR DIAGNOSIS AND SEROMONITORING OF MICROBIAL INFECTIONS IN CULTURED FRESHWATER FISHES

| | |
|---|---|
| (51) International classification | :A61K 39/00; C12N |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | :NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)INDIAN COUNCIL OF AGRICULTURAL RESEARCH**
Address of Applicant :KRISHI BHAVAN, DR. RAJENDRA PRASAD ROAD, NEW DELHI-110001, INDIA.
(72)**Name of Inventor :**
**1)DR PRIYABRAT SWAIN**
**2)MR. SUKANTA KUMAR NAYAK**
**3)DR. PREM KUMAR MEHER**

(57) Abstract :
A competitive ELISA was developed to diagnose the microbial infection of Indian major carps and other cultivable fish species. We found it suitable over other conventional serological tests including indirect ELISA, indirect blocking ELISA and agglutination tests. The percentage of serum samples positive for antibodies to a particular infection such as Edwardsiella tarda in agglutination test, indirect ELISA and indirect blocking ELISA as compared to indirect ELISA were 33.3, 83.6 and 66.6 % respectively. But the use of indirect ELISA was restricted due to the requirement of conjugates against several fish species. No significant difference ($p<0.05$) in the mean optical density (O.D.) value found in indirect and competitive ELISA. Although the competitive ELISA was slightly less sensitive than the indirect ELISA it could accommodate a large number of serum samples and need of different anti-fish conjugates as required in Indirect ELISA was eliminated thereby proving the test a success in studying the pre-exposer of Indian major carps to pathogens in enzootic areas.

No. of Pages : 5 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2003
(21) Application No.1403/DEL/2003 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A PROCESS FOR DIFFERENTIAL SERO-DIAGNOSIS OF GRAM-NEGATIVE BACTERIAL INFECTIONS AND DETECTION OF THEIR TOXINS IN HUMAN FOOD IN HUMAN FOOD IN REFERENCE TO FISH AND FISH PRODUCTS USING POLYCLONAL ANTIBODIES TO THEIR LESS CROSS REACTING AND BIGHLY SPECIFIC EXTRA CELLULAR PRODUCTS ANTIGEN

| | |
|---|---|
| (51) International classification | :A61K 39/00; C12N |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | :NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)THE INDIAN COUNCIL OF AGRICULTURAL RESEARCH**
Address of Applicant :KRISHI BHAWAN, DR. RAJENDRA PRASAD ROAD, NEW DELHI-110001, INDIA.
(72)**Name of Inventor :**
**1)DR. PRIYABRAT SWAIN**
**2)MR. SUKANTA KUMAR NAYAK**
**3)DR. PREM KUMAR MEHER**
**4)DR. BIBUDHENDRA KUMAR MISHRA**
**5)DR. SUBBANNA AYYAPPAN**

(57) Abstract :
Antigenic sharing among the most commonly bacterial pathogens such as Aeromonas hydrophila, Edwardsiella tarda and Pseudomonas fluorescence of Indian major carps has been studied using immunological reactions such as cross agglutination, disc diffusion and indirect enzyme linked immunosorbent assay (ELISA). The data were analysed using statistical analysis (SAS), version 6.12. The result showed high antigenic similarities among the bacterial whole cells, whole cell lysates, somatic O antigens, lipo-polysaccharides (LPS) and extra cellular products (ECP). However, few or no similarities were observed in a ECP component. The component was found to be highly specific and less cross-reactive. The same component can be used for the differential diagnosis of bacterial infection and detection of their toxin in the human food. In the process we have developed an antigen capture indirect ELISA to detect the specific bacterial toxin and its components in the fish and fish product and other processed human food.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/01/2010
(21) Application No.215/MUM/2010 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : NATURAL VENTILATION FOR ENCLOSED BUILDINGS IN RURAL AND GAOTHAN AREAS

| | |
|---|---|
| (51) International classification | :E06B 9/64; E06B 7/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | :N/A |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)PATIL SATISH BALIRAM**
Address of Applicant :4, YOGAKSHEM, SHASKIYA VASAHAT WB ROAD, DEOPUR DHULE 424002 MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)PATIL SATISH BALIRAM**

(57) Abstract :
The general layout of houses in gaothan & rural areas is a typical row housing style i.e. with common walls on at least two sides, in some cases even on three sides. Such sites have their width very less as compared to other dimension i.e. length .The common term used for width in rural areas is YEL. (lyel = 6 to7ft). The general size of site is about lyel to 2yel width & lOyei to 15yel lengths, for such sites there is no scope to provide windows in common enclosed walls as we provide in urban houses. Here comes in to picture a MAJOR PROBLEM with such houses, i.e. no or less ventilation. Thus the situation in such houses becomes very critical due to insufficient ventilation. Of course roof ventilation in the form of opening called as SANA is provided but such Sanas arent sufficient, also they are required to be covered in monsoon season with polythene paper to prevent entry of rain water inside the building which reduces light, secondly if such openings are kept uncovered especially for bed roonis then no privacy is left for bedrooms and situation become horrible because the purpose for which such rooms are planned that will not be served. Habitants have no other alternative than to use light,.fan, coolers etc. but our MSEDCL (former MSEB) doesnt allow us to use electricity due to load shading of 12 hrs in rural areas. To overcome above mentioned -problems an attempt has been made by us by providing a continuous strip of 0.45m to 0.60m wide opening all around a periphery and in central portion of the roof slab ( 1.2m by 1.5m ) & covering this opening with FRP sheet sloping inward to allow sufficient light. The louvered ventilators with movable louvers in the inner parapet walls are provided to allow air, breeze in the house. Thus a permanent, maintenance free lifelong solution is suggested due to which habitant of rural houses dont have to use lights, fans, coolers right from 6a.m to 6 p.m 365 DAYS i.e. throughout the year. Hence Electricity Bills are reduced to almost 50 % to 75%. By this technique the houses remain warm in winter and cool in summer. Natural Resources such as sun, wind, and breeze are harnessed and managed. Additional benefit of this technique is that in monsoon season Rain Water Harvesting is possible & we can store rain water which otherwise might have gone wasted. China mosaic water proofing treatment given on terrace is beneficial for reducing temperature in summer season. Temperature difference inside the building as compared to outside temperature is recorded abut 4 degrees to 6 degrees in summer as well in winter due to unexposed walls, china mosaic treatment & movable louvers.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/02/2010
(21) Application No.271/MUM/2010 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A SYSTEM AND METHOD FOR EXTRACTION OF STRUCTURED DATA FROM ARBITRARILY STRUCTURED COMPOSITE DATA

| | |
|---|---|
| (51) International classification | :G06F17/30; G06F17/27 |
| (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 | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)KULKARNI-PURANIK, ANITA**
Address of Applicant :METAMAGICS COMPUTING PRIVATE LIMITED 2, EKOPA HOUSING SOCIETY, SALISBURY PARK, PUNE 411037 INDIA
(72)**Name of Inventor :**
**1)KULKARNI-PURANIK, ANITA**

(57) Abstract :
A system for extracting and consolidating unstructured data contained in a plurality of files in composite formats is disclosed. The system includes an input means which receives a plurality of files containing unstructured data in composite formats. The input means forwards the received files to an extraction means which extracts the unstructured data from the received files. The unstructured data extracted from the received files is forwarded to a conversion means which converts the unstructured data into a structured format. The structured data so produced is worked on by an interlinking means which interlinks in a controlled manner, the accessible sections of the structured data.

No. of Pages : 32 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/01/2012

(21) Application No.111/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A SWITCH MECHANISM FOR OBTAINING THE STATES OF DISCONNECTION, EARTHING, AND NEUTRAL IN SWITCHGEAR EQUIPMENT

| | |
|---|---|
| (51) International classification | :H02B11/08 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)CROMPTON GREAVES LIMITED**
Address of Applicant :CG HOUSE, DR.ANNIE BESANT ROAD, WORLI, MUMBAI 400 030, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)MEGHAVATH SHIVAKUMAR**

(57) Abstract :
A switch mechanism for obtaining the states of disconnection and earthing in switchgear equipment comprises; first axially located stationary contact adapted to be a disconnector contact; first moving contact adapted to axially engage with said first axially located stationary contact to obtain a close switch position and a disconnect mode of said switch mechanism; second axially located stationary contact adapted to be an earthing contact; second moving contact adapted to axially engage with said second axially located stationary contact to obtain a close switch position and an earthing mode of said switch mechanism; and drive mechanism adapted to drive the axial movement of each of said first moving contact and said second moving contact, in order to obtain said disconnect mode and said earthing mode with an intermittent neutral mode.

No. of Pages : 26 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/08/2010
(21) Application No.2258/MUM/2010 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A ROLLING SHUTTER PADLOCK

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|---|---|
| (51) International classification | :E06B9/17; E06B9/15 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)GODREJ & BOYCE MFG. CO. LTD.**
Address of Applicant :LOCKS DIVISION (PLANT-18) PIROJSHANAGAR, VIKHROLI, MUMBAI - 400 079 MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)THOTTUVAI SIVASUBRAMANI MURALI**

(57) Abstract :
The present invention provides a rolling shutter padlock comprising: a padlock casing (1) having a cutout (Id) of rectangular shape to receive a hasp portion of the shutter to be locked; a locking assembly (100) being accommodated in the padlock casing (1), the locking assembly (100) comprises a shackle (2), a cam plate (13) and cylinder assembly (101);a pair of shackle holding pins (6a, 6b) to control the movement of shackle (2) depending upon locking and unlocking operation of the padlock; a key to be inserted in cylinder assembly to perform locking and unlocking operation; wherein the padlock casing (1), the locking assembly (100), the shackle holding pins (6a,6b) and key(12) are arranged in such a manner that: during unlocking of the padlock, when key (12) is inserted in the cylinder assembly (101) and rotated clockwise through 90° the cylinder assembly (101) is rotated along with the shackle (2) and cam plate (13) in such a way that cam plate (13) is restricted by stopper pin (4a) of outer cylinder (4) and the flat portion (2f) of the shackle (2) align with the shackle holding pins (6a, 6b) thereby enabling the locking assembly (100) to move to unlock condition with shackle 2, the locking assembly (100) is retained by the protruded portion (3d) on the cylinder housing (3) in unlocking position, and during locking of the padlock, the locking assembly (100) is pressed inside and key (12) is rotated anticlockwise through 90° which rotates the shackle (2) such that the portion (2b) engage with shackle holding pins (6a, 6b) which prevent shackle to move out in lock position.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/02/2011

(21) Application No.354/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : VEHICLE BONNET HINGE STRUCTURE FOR PEDESTRIAN IMPACT

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|---|---|
| (51) International classification | :B60R21/38; B60R 13/07 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)MAHINDRA & MAHINDRA LIMITED**
Address of Applicant :R & D CENTER, AUTOMOTIVE SECTOR, 89, M.I.D.C., SATPUR, NASHIK-422 007, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)SUDESH VINAYAK KAISARE**
**2)SURESH RAGHUNATH KALE**
**3)RITESH KUMAR JAIN**

(57) Abstract :
The invention relates to a vehicle bonnet hinge structure for pedestrian impact with four bar mechanism comprises four arms, first arm/bracket (1) having one end flat portion, with two holes at distant for fixing second arm/bracket (2) and forth arm (4), in vertical plane and other end the flat portion, with one hole and a slot at distant, in horizontal plane. A third arm/bracket, (3) at distant and parallel to the said first arm/bracket, fixed to the second arm/bracket and slid able supporting the fourth arm. The said first arm/bracket is provided with an energy absorbing U-shaped formation below the one of the said holes for fixing the said fourth arm/bracket and the said third arm/bracket provided with a cut out for allowing free travel of the said second arm/bracket.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/01/2012
(21) Application No.137/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : AN IMPROVED PROCESS FOR MANUFACTURING COLD WATER SOLUBLE HYDROXY PROPYL METHYL CELLULOSE.

| | | |
|---|---|---|
| (51) International classification | :C08J 3/00 | (71)**Name of Applicant :** **1)GUJARAT ALKALIES AND CHEMICALS LIMITED** Address of Applicant :P.O. PETROCHEMICALS - 391 346, DIST. VADODARA, GUJARAT, INDIA. |
| (31) Priority Document No | :NA | |
| (32) Priority Date | :NA | |
| (33) Name of priority country | :NA | (72)**Name of Inventor :** **1)DR. SUNIL SINHA** **2)DR. SHAILESH A. PATEL** |
| (86) International Application No | :NA | |
| Filing Date | :NA | |
| (87) International Publication No | :N/A | |
| (61) Patent of Addition to Application Number | :NA | |
| Filing Date | :NA | |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :
The present invention relates to an improved Industrial process for preparing low viscosity cold water soluble Hydroxy Propyl Methyl Cellulose conforming to all the laid down pharmacopoeia specifications and suitable for tablet coating purpose. The process comprises of the reaction of cellulose powder with Caustic dissolved in DM water under nitrogen atmosphere & efficient stirring, followed by gradual addition & reaction with Propylene Oxide and finally reacting the mass with liquid Methyl Chloride. The excess Methyl Chloride is recovered by distillation under pressure. The Crude product is then slurried in hot water ( > 90°C), centrifuged, dried, pulverized and sieved. The process in accordance with the present invention exclusively utilizes Methyf chloride both as reaction media & reactant, limits the formation of Dimethyl ether- a by product < 3% per cycle of Methyl Chloride used and effectively utilizes the recovered Methyl chloride in the process. The final product, shows 27 - 30% Methoxy content, 5 - 12% Hydroxy Propoxy content, Chloride content < 0.5%, 99 ± 1% cold water solubility, 2% aqueous solution viscosity 4-8 cps and solution clarity 10-15 NTU.

No. of Pages : 11 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2010
(21) Application No.431/MUM/2010 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : MAKING CRANKCASE OIL PAN AND VALVE HOUSING COVER OF ANY AUTOMOBILE ENGINE IN ALUMINUM SHEET OR THROUGH ANY OTHER ALUMINUM ALLOYS SHEET

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|---|---|
| (51) International classification | :F01M 13/04; F01M 13/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)SANTOSH ARVIND PRADHAN**
Address of Applicant :ARUNODAYA,PLOT NO.51, PIONEER HOUSING SOCIETY, SWAWLAMBI NAGAR, NAGPUR 440 025 Maharashtra India
(72)**Name of Inventor :**
**1)SANTOSH ARVIND PRADHAN**

(57) Abstract :
We have made press toolings of the various operations as per any design of the crankcase oil pans and valve housing covers. The most common press operations to be performed on aluminum sheets or any other aluminum alloy sheets are shearing, blanking, forming, bending, notching, piercing, embossing and etc for making crankcase oil pans and valve housing covers. These operations can be performed on mechanical presses / hydraulic presses / pneumatic presses as per the requirement of the particular press operation. If required we can also use intermediate annealing operation also for reducing the stress formed during press operations. If required we can also do the press part aluminum sheet to different thickness of aluminum sheet or press part aluminum sheet to aluminum bar material cladding with the use of several power press strokes or through passing it between the heavy duty rollers. If required for the up gradation of the product we can also use any heat treatment process to increase the strength of the product. The aluminum press part such produced will require less efforts and less investment compared to making it in CRCA sheets and also it will be very cost competitive than the existing CRCA sheet parts. The weight of the above said parts will be considerably reduced by the use of aluminum sheets or by the use of aluminum alloy sheet and by reducing the weight the fuel consumption will also be increased. The parts such produced will have longer shelf life than the CRCA sheet parts.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2011

(21) Application No.649/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : IMPROVED BIAX HIP SYSTEM

| | |
|---|---|
| (51) International classification | :A61B17/76; A61B17/56 |
| (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 | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)DESAI ASHOK AND VARTAK RAVINDRA**
Address of Applicant :2105, SADASHIV PETH, PUNE 411 030, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)DESAI ASHOK**
**2)VARTAK RAVINDRA**

(57) Abstract :
The present invention relates to a device for biaxial fixation for trochanteric fractures. The synergistic combination of the lag screw and anti-rotational screw along with the geometric configuration of the said plate in terms of provision of the raised portion that counters stress concentration and the design of the threads of the lag screw obviates problems associated with undesirable rotation of the screw leading to migration of the screw laterally due to lack of counter torque / resistance to the said torque resulting in failure of implant.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/02/2010

(21) Application No.326/MUM/2010 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PARABOLOIDAL SOLAR CONCENTRATOR

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|---|---|
| (51) International classification | :F24J2/12; F24J2/10 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)A.T.E. ENTERPRISES PRIVATE LIMITED**
Address of Applicant :43, Dr. V B GANDHI MARG, FORT, MUMBAI 400 023 MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)CHANDAK, AJAY GIRDHARILAL**
**2)SARDESHPANDE, VISHAL RENUKADAS**
**3)KEOTI, INDU RAJESH**

(57) Abstract :
A paraboloidal solar concentrator is provided. The paraboloidal solar concentrator includes a plurality of parabolic support structures which are designed based on a geometric equation of a parabolic curve. The plurality of parabolic support structures are assembled to obtain paraboloidal dish shape of the paraboloidal solar concentrator. The plurality of the parabolic support structures are assembled with a plurality of reflector holding sections to hold a plurality of reflectors to form the paraboloidal solar concentrator.

No. of Pages : 24 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2011

(21) Application No.635/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : AN ENHANCED LATCH MEACHANISM FOR USE IN CIRCUIT BREAKERS

| | |
|---|---|
| (51) International classification | :H01H71/50; H01H1/20; H01H71/52 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)LARSEN & TOUBRO LIMITED**
Address of Applicant :L & T House Ballard Estate Mumbai 400 001 MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)PATWARDHAN Sujit S.;**
**2)CHOLERA Rubin;**
**3)PATIL Yogesh N.;**

(57) Abstract :
The present invention relates to an enhanced latch mechanism for use in molded case circuit breakers. The mechanism comprises latch bracket means 3c comprising plurality of slot means 8, latch link means 3a comprising plurality of slot means 7 being movably engaged with latch bracket means 3a and locking trip plate means 3e. The latch means is engaged with conventional moving contact of the circuit breaker.

No. of Pages : 24 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2011
(21) Application No.636/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : MECHANICALLY ADJUSTABLE VARIABLE FLUX SOLENOID

| | |
|---|---|
| (51) International classification | :H01H 71/24; H01F 7/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)LARSEN & TOUBRO LIMITED**
Address of Applicant :L & T House Ballard Estate Mumbai 400 001 MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)TOMAR Brajesh Singh;**
**2)MAZUMDAR Prakash;**

(57) Abstract :
The present invention relates to a linear electromagnetic actuator or solenoid device comprising a core/yoke means (1) forming the outer casing of said device ,a coil means (2) substantially enclosed within said core means(1); a plunger means (3)substantially sits within said coil means(2) adapted to provide plunger force; a lower bush means (26)substantially placed on the lower side of said device; an energy storing element means (4) operatively connected with said plunger (3) adapted for up and down motion of said plunger (3);an air gap arrangement (27) substantially located in-between said plunger means (3) and said lower bush means (26) adapted to offer flexibility to modify/adjust the plunger force and a top plate arrangement .The top plate arrangement comprising outer top plate means (14) having an inner profile and an outer profile and inner top plate means (9) having an inner profile and an outer profile and a upper bush means (8) having a substantially ring shaped modular profile secured inside said inner profile means.

No. of Pages : 23 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2011

(21) Application No.678/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : CRISIS MANAGEMENT SYSTEM

| | |
|---|---|
| (51) International classification | :G06F21/31; G06F21/62 |
| (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 | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)INTELENET GLOBAL SERVICES PVT. LTD.**
Address of Applicant :INTELENET TOWERS, 1406-A/28, MINDSPACE, MALAD (WEST), MUMBAI - 400 064. Maharashtra India
(72)**Name of Inventor :**
**1)NARAYANANA SRINIWAS**

(57) Abstract :
Disclosed is a crisis management system for maintaining optimal headcount in an organization upon occurrence of a crisis situation. The system comprises a plurality of user terminals, a server coupled to the user terminals, and an analysis unit coupled to the server. The analysis unit maintains and processes information associated with employees of the organization and comprises a business impact analysis module for storing information associated with total headcount in the organization and the geographic details of headcount, a head count module to retrieve information from business impact analysis module and generate a second information based on hierarchical relation between the employees and geographical location associated with the employees, a process roster module to maintain a real-time roster for each work process in the organization and a global incident knowledge module to generate a crisis report regarding shortage in headcount and to initiate actions to ensure optimal staffing.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2011

(21) Application No.637/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : AN IMPROVED ARC CHUTE ASSEMBLY FOR USE IN SWITCHGEAR DEVICES

| | | |
|---|---|---|
| (51) International classification | :H01H9/34 | (71)**Name of Applicant :** |
| (31) Priority Document No | :NA | **1)LARSEN & TOUBRO LIMITED** |
| (32) Priority Date | :NA | Address of Applicant :L & T House Ballard Estate Mumbai 400 001 MAHARASHTRA, INDIA |
| (33) Name of priority country | :NA | (72)**Name of Inventor :** |
| (86) International Application No | :NA | **1)AMBRISH Rahul;** |
| Filing Date | :NA | **2)GAIKWAD Shirish Dattatray;** |
| (87) International Publication No | : NA | **3)SHARMA Priyanka** |
| (61) Patent of Addition to Application Number | :NA | |
| Filing Date | :NA | |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :
The present invention relates to an improved arc chute assembly for use in switchgear devices. The assembly comprises plurality of deion plate means (1) being operatively arranged in the arc chute assembly. The plate means adapted to have non-uniform length and non-uniform gap between the plate means such that quenching the arc in less time.

No. of Pages : 11 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2011

(21) Application No.676/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PATTERN PERFORATING TOOL

| | |
|---|---|
| (51) International classification | :B26F 1/00; B26F 1/32 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)Sheikh Mohammad Nazim**
Address of Applicant :Plot No 85 Noore Ilahi Park B/h Ice Factory Opposite Vishala Hotel Sarkhej Road Juhapura Dist Ahmedabad 380055 Gujarat India
(72)**Name of Inventor :**
**1)Sheikh Mohammad Nazim**

(57) Abstract :
The present invention provides a pattern perforating tool and a process for its easy operation. More particularly, it provides a pattern perforating tool and a process of preparing stencil designs whereby perforations of any desired size or shape may be easily made in paper, cardboard, wood or other suitable material, for the purpose of making stencils of designs.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/01/2012

(21) Application No.126/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : HALOGENATED PYRAZOLINE DERIVATIVES FOR TREATMENT OF MYCOBATERIUM TUBERCULOSIS.

(51) International classification :C12Q1/04
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :N/A
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)DR. SHARAD N. SHELKE**
Address of Applicant :DR. SHARAD N. SHELKE DEPARTMENT OF CHEMISTRY S.S.G.M. COLLEGE, KOPARGAON, DIST. AHMEDNAGAR, (MH) 423 601, MAHARASHTRA, INDIA
**2)DR. MANOJ B. GAWANDE**
**3)DR. GANESH R. MHASKE**
**4)DR. PRAVIN B. SHEJUL**
(72)**Name of Inventor :**
**1)DR. SHARAD N. SHELKE**
**2)DR. MANOJ B. GAWANDE**
**3)DR. GANESH R. MHASKE**
**4)DR. PRAVIN B. SHEJUL**

(57) Abstract :
Compound of formula-I or pharmaceutically accepted salt useful in the treatment of Mycobacterium tuberculosis.

No. of Pages : 25 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/01/2012
(21) Application No.133/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : MULTIVALENT IMMUNOGENIC CONJUGATES AND PREPARATION THEREOF

| | |
|---|---|
| (51) International classification | :A61K 39/385 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)Serum Institute of India Ltd.**
Address of Applicant :212/2 Off Soli Poonawalla Road Hadapsar Pune 411 028 MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)KAPRE Subhash Vinayak**
**2)MALLYA Asha Dinesh**
**3)BORE Prashant Vasudeo**
**4)BHADURI Tamal Dilipkumar**
**5)SHENDE Niraj Vijay**

(57) Abstract :
The current invention provides improved methods for preparing immunogenic conjugates wherein multiple bacterial capsular polysaccharides are linked to a single type of carrier protein,particularly polysaccharide-protein bivalent conjugates by utilizing cyanylating agent other than CDAP,resulting in optimal conjugation efficiency.Also immunogenicity of said bivalent conjugates is equivalent to that of monovalent conjugates.

No. of Pages : 46 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2011
(21) Application No.680/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A PROCESS FOR PREPARATION OR DECITABINE

(51) International classification :C07H13/08; C07H19/12
(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 :N/A
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)INTAS PHARMACEUTICALS LIMITED**
Address of Applicant :INTAS PHARMACEUTICALS LIMITED, 2ND FLOOR, CHINUBHAI CENTRE, ASHRAM ROAD, AHMEDABAD 380009. GUJARAT, INDIA.
(72)**Name of Inventor :**
**1)DESAI SANJAY JAGDEESH**
**2)KAVATHIA HIMANSHU LILADHARBHAI**
**3)BHATT CHIRAG ANILKUMAR**
**4)AJUDIYA KASHYAP VRAJLAL**

(57) Abstract :
The present application relates to process for preparation and purification of decitabine.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/01/2012

(21) Application No.125/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A TRIAZOLE LINKED PICOLYLIMINE CONJUGATE OF CALIX[6]ARENE

(51) International classification :A61K31/437
(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 :N/A
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY**
Address of Applicant :POWAI, MUMBAI-400076, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)PROF. CHEBROLU PULLA RAO**
**2)V. V. SREENIVASU M.**
**3)ANITA NEHRA**

(57) Abstract :
Where R = tert-butyl. This invention relates to a triazole linked picolylimine conjugate of calyx[6]arene [L]represented by formula I for the primary detection of La3+' This invention also relates to a method for selective detection of La3+

No. of Pages : 27 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/01/2012

(21) Application No.162/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : IMPROVED PROCESSES FOR THE PREPARATION OF TEMOZOLOMIDE

| | | |
|---|---|---|
| (51) International classification | :C07D 487/04 | (71)**Name of Applicant :** **1)CADILA HEALTHCARE LIMITED** Address of Applicant :ZYDUS TOWER, SATELLITE CROSS ROAD, AHMEDABAD-380 015, GUJARAT, INDIA. |
| (31) Priority Document No | :NA | |
| (32) Priority Date | :NA | |
| (33) Name of priority country | :NA | (72)**Name of Inventor :** **1)NARODE, SUNIL, DNYANESHWAR** **2)THAKER, TIRTH, HARIKRISHNA** **3)CHARAN, GANPAT, DAN, SHIMBHU** **4)SINGH, KUMAR, KAMLESH, LAXMI** |
| (86) International Application No | :NA | |
| Filing Date | :NA | |
| (87) International Publication No | :N/A | |
| (61) Patent of Addition to Application Number | :NA | |
| Filing Date | :NA | |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :
The present invention relates to an improved process for the preparation of Temozolomide. The present invention also relates to novel crystalline form X of crude Temozolomide. The crystalline form X of crude Temozolomide is a solvated form of Temozolomide, and preferably a DMSO solvate.

No. of Pages : 24 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/01/2012

(21) Application No.100/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : FABRICATION OF ADAPTORS FOR PHOTON AND ELECTRON DIODE FOR RADIATION THERAPY

| | | |
|---|---|---|
| (51) International classification | :A61B6/00 | (71)**Name of Applicant :** |
| (31) Priority Document No | :NA | **1)Dr. Deepak S. Dhote** |
| (32) Priority Date | :NA | Address of Applicant :Professor Department of Electronics |
| (33) Name of priority country | :NA | Brijlal Biyani Science College Amravati (MS) Maharashtra |
| (86) International Application No | :NA | India |
| Filing Date | :NA | **2)Rajesh A. Kinhikar** |
| (87) International Publication No | : NA | (72)**Name of Inventor :** |
| (61) Patent of Addition to Application Number | :NA | **1)Dr. Deepak S. Dhote** |
| Filing Date | :NA | **2)Rajesh A. Kinhikar** |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :
Existing technology is the water phantom. But few radiation detectors (TLD, Films, Diodes and MOSFET) could not be directly used in water. We have designed inserts for photon and electron diode detectors in solid water slabs (water equivalent) phantom. The inserts were developed for photon and electron Diode. These inserts are not available commercially. Following invention is described in detail with the help of Fig1 showing the schematic design of square virtual water phantom Fig 2 showing one of the solid water slab cut into a groove for the insert of the detectors, Fig 3 showing inserts placed in the slab, Fig 4 showing inserts with detectors, Fig 5 shows the CT image of the phantom adaptors reconstructed in TPS (transverse, sagittal and coronal sections.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2011
(21) Application No.650/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : AN EXHAUST GAS RECIRCULATION ASSEMBLY FOR MIXING EXHAUST GASES WITH COMBUSTION AIR

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|---|---|
| (51) International classification | :F02M25/07; F02M 1/14 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)MAHINDRA & MAHINDRA LTD.**
Address of Applicant :R & D CENTER, AUTOMOTIVE DIVISION, 89, M.I.D.C., SATPUR, NASHIK - 422 007, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)PATADE VISHNU, KEDARI**
**2)VELUSAMY RAMASAMY**

(57) Abstract :
The present invention discloses an exhaust gas recirculation assembly for mixing exhaust gases with combustion air in an internal combustion engine, said assembly comprising: a venturi (100) having a converging first section (106) defining a narrowing combustion air inlet to receive pressurized air, a cover plate (108) having an increased cross-section than the converging first section (106) adapted to orthogonally introduce a flow of exhaust gases into the stream of pressurized air, and a diverging third section (112) adapted to reduce the velocity of a mixture of exhaust gases and combustion air. The assembly of the present invention has a simple design, is easy to manufacture, and efficiently controls the exhaust gas recirculation rate and the combustion air velocity and pressure without the need for any additional components within the venturi (100).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2011
(21) Application No.651/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A WATER HEATER AND SYSTEM THEREOF

| | | |
|---|---|---|
| (51) International classification | :F24H 8/00; F24H 9/20 | (71)**Name of Applicant :** **1)THERMAX LIMITED** Address of Applicant :D-13, MIDC, R.D. AGA ROAD, CHINCHWAD, PUNE - 19, MAHARASHTRA, INDIA |
| (31) Priority Document No | :NA | (72)**Name of Inventor :** |
| (32) Priority Date | :NA | **1)JHA R. S.** |
| (33) Name of priority country | :NA | **2)KHARAT RAHUL** |
| (86) International Application No | :NA | **3)MANE ABHAY** |
| Filing Date | :NA | **4)PRAJEENDRAN C.P.** |
| (87) International Publication No | :N/A | |
| (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 envisages a water heater (100) and system thereof, for large and small scale industrial water heating applications, the water heater (100) primarily comprises: a combustor (102) for providing hot flue gases, a shell (106) provided with pressurized water, and at least one set of convective tubes (104) enclosed in the shell, adapted to carry the hot flue gases and transfer heat therefrom to the water, to provide boiled water at saturation pressure, wherein, an expansion space is provided within the shell (106) for steam and the boiled water at saturation pressure; further, the system comprises an interchanger in communication with the water heater (100) to reduce the temperature of the boiled water below saturation level. The present invention prevents phase change in the boiled water and is easy-to-work: and maintain.

No. of Pages : 26 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/05/2010

(21) Application No.1447/MUM/2010 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A METHOD TO PRODUCE CAST SLAG STRUCTURALS NAMELY RAILWAY SLEEPER, BEAM, COLUMN, SLAB AND PRESSURE PIPE FROM MOLTEN BLAST FURNACE SLAG REACTED WITH IRON OXIDES AND BASALT STONE AGGREGATE ALONG WITH STEEL REINFORCEMENT BEING ELECTRICALLY HEATED PRIOR TO CASTING.

(51) International classification :C04B26/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)SHARMA GOPAL NIDHI**
Address of Applicant :0-1, ADARSH NAGAR, KASARIDIH, DURG - 491 001, Chattisgarh India
**2)SHARMA PEEYUSH NIDHI**
**3)SHARMA DIVYA NIDHI**
(72)**Name of Inventor :**
**1)SHARMA GOPAL NIDHI**
**2)SHARMA PEEYUSH NIDHI**
**3)SHARMA DIVYA NIDHI**

(57) Abstract :
The present invention relates to production of cast slag structurals namely Railway Sleeper, Beam, Column Slab and pressure pipe Steel reinforced during casting. The molten Slag is reacted with iron oxide and basalt Stone aggreate for higher strength and prevention of cracks. These products possess higher compressive and tensely strength compared to similar Reinforced Cement Concrete structurals. The carting process is normally carriedout below the cast house of a blast furnace, a device which produces molten pig iron and a viscoug fluid known as a slag being a waste product. Moulds made of Steel Sheets internally lined for repeat use are mounted on a moving carrage. Molten Slag reacted with iron oiLde in a pit flows in the mould along with basalt aggregate and embeds the electrically heated steel reinforcement to form a solid cast on cooling. Cast is removed from mould after 12 hours and used after cooling for two days.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/02/2010
(21) Application No.255/MUM/2010 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : APPARATUS AND METHOD FOR GENERATING A WAVEFORM TEST SIGNAL HAVING CREST FACTOR EMULATION OF RANDOM JITTER

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|---|---|
| (51) International classification | :G06F11/263; G06F 9/50 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)TEKTRONIX, INC.**
Address of Applicant :14200 SW KARL BRAUN DRIVE, BEAVERTON, OREGON 97077, U.S.A.
(72)**Name of Inventor :**
**1)MURALIDHARAN KARAPATTU**
**2)SAMPATHKUMAR R. DESAI**
**3)JOHN C. CALVIN**
**4)N/A**

(57) Abstract :
A signal generating device has a display and a central processing unit for setting parameters for a serial data pattern and parameters for deterministic and random jitter impairments, and a displacement crest factor emulation impairment to be applied to the serial data pattern. A waveform record file is generated using the serial data pattern parameters, the impairment parameters for the deterministic jitter and random jitter, and the displacement crest factor emulation impairment. The displacement crest factor emulation impairment is selectively positioned in the impaired serial data pattern. A waveform generation circuit receives the waveform record file and generates an impaired serial data pattern analog output signal based on the serial data pattern, deterministic and random jitter impairments, and the displacement crest factor emulation impairment with the displacement crest factor emulation impairment being selectively positioned in the impaired serial data pattern analog output signal.

No. of Pages : 45 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/03/2010

(21) Application No.545/MUM/2010 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : IN SITU GELLING CONTROLLED RELEASE DOSAGE FORMS

| | |
|---|---|
| (51) International classification | :A61K9/22; A61K45/08, |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)FDC LIMITED**
Address of Applicant :142-48, S.V. ROAD, JOGESHWARI (W), MUMBAI - 400 102, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)CHANDAVARKAR, NANDAN MOHAN**
**2)JINDAL, KOUR CHAND**
**3)MALAYANDI, RAJKUMAR**

(57) Abstract :
Disclosed herein is an in-situ gelling pharmaceutical composition for delivery of minerals, comprising one or more mineral(s), in-situ gelling polymer(s) in the range of 0.01% to 60%; viscosity modifier(s) in the range of 0.01% to 5% w/v and at least one pharmaceutically acceptable excipient, in a controlled-release oral dosage form for delivery of minerals within the absorption window of the gastrointestinal tract.

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/01/2012
(21) Application No.138/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : AN IMPROVED PROCESS FOR MANUFACTURING COLD WATER SOLUBLE METHYL CELLULOSE.

| | | |
|---|---|---|
| (51) International classification | :C08J 3/00 | (71)**Name of Applicant :** **1)GUJARAT ALKALIES AND CHEMICALS LIMITED** Address of Applicant :P.O. PETROCHEMICALS-391 346, DIST. VADODARA, GUJARAT, INDIA. |
| (31) Priority Document No | :NA | |
| (32) Priority Date | :NA | |
| (33) Name of priority country | :NA | (72)**Name of Inventor :** **1)DR. SUNIL SINHA** **2)DR. SHAILESH A. PATEL** |
| (86) International Application No | :NA | |
| Filing Date | :NA | |
| (87) International Publication No | :N/A | |
| (61) Patent of Addition to Application Number | :NA | |
| Filing Date | :NA | |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :
The present invention relates to an improved industrial process for preparing low viscosity cold water soluble Methyl cellulose conforming to all the laid down pharmacopoeia specifications and suitable for tablet coating purpose. The process comprises the reaction of cellulose powder with caustic dissolved in DM water at 15 -25°C under nitrogen atmosphere & efficient stirring for 2 - 4 hrs followed by the charging and reaction with liquid Methyl chloride for 16 - 20 hrs at 50 ± 5°C and 10-14 kg/ cm2 pressure. The excess Methyl chloride is recovered by distillation under pressure, followed by slurring the crude product in hot water (> 90°C) & centrifuging the same under hot conditions including washings. The formation of Dimethyl ether in the process is limited to < 3% per cycle of liquid Methyl Chloride used. The recovered Methyl Chloride is repeatedly recycled in the subsequent batches. The wet product is dried in air circulating dryer followed by pulverization and sieving. The final product shows Methoxy substitution 28 - 32%, Chloride content

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/02/2010
(21) Application No.273/MUM/2010 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A PROCESS FOR THE PREPARATION OF CARBON BLACK PELLETS

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|---|---|
| (51) International classification | :B01J2/00; C09C1/58 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)ADITYA BIRLA NUVO LTD**
Address of Applicant :ADITYA BIRLA CENTRE, 2nd FLOOR,C WING, S.K.AHIRE MARG, WORLI,MUMBAI-400 025, MAHARASHTRA, INDIA
**2)ADITYA BIRLA SCIENCE AND TECHNOLOGY CO. LTD.**
(72)**Name of Inventor :**
**1)PRABHU MAYUR**
**2)AGARWAL VIJAY**

(57) Abstract :
The present invention envisages a process for pelletizing carbon black by mixing carbon black powder and water in a proportion in the range of 0.1 : 2 to 2 : 1 with a binding agent and a dispersing agent. The dispersing agent is an amine-based surfactant and is added in a proportion in the range of 0.005 - 0.1 % of the total mixture. The mixture is pelletized in a pelletizer and subsequently the raw pellets are dried for 20 - 60 minutes at a temperature between 150 - 250 °C, to obtain the carbon black pellets. The process of the present invention provides uniform distribution of water on the surface of the pellets giving a uniform pellet quality, reduced water consumption, energy savings and an increased production rate.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/01/2012

(21) Application No.157/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : RETRACTABLE SUN VISOR AND CENTRAL OVERHEAD CONSOLE SYSTEM FOR USE WITH PANORAMIC WINDSCREEN

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|---|---|
| (51) International classification | :G01C 21/30 |
| (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 | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)TATA TECHNOLOGIES PTE LIMITED**
Address of Applicant :8 SHENTON WAY #19-05 AXA TOWER SINGAPORE 068811 Singapore
(72)**Name of Inventor :**
**1)FISHER, KEVIN**
**2)BEGGS, JEFF**
**3)JONES, TONY**
**4)GIDDONS, NIGEL**
**5)LEECE, ADAM**

(57) Abstract :
The present invention provides a system for blocking direct sunlight from the occupants of a vehicle and allowing controllable viewing angle therefrom the vehicle to each passenger. The system further provides configurable independent sunlight blocking or completely unobstructed options for the occupants in a vehicle with a panoramic view windscreen.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/01/2012
(21) Application No.142/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A FIXTURE GAUGE FOR INSPECTING A WOUND PACK OF A STATOR BODY OF ELELCTRICAL EQUIPMENT.

| | |
|---|---|
| (51) International classification | :B65H 55/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)CROMPTON GREAVES LIMITED**
Address of Applicant :CG HOUSE, 6TH FLOOR, DR.ANNIE BESANT ROAD, WORLI, MUMBAI-400 030, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)YELULKAR NANDKUMAR TIPANNA**

(57) Abstract :
A fixture gauge for inspecting a wound pack of a stator body of electrical equipment, said fixture gauge comprises: a first ring with a pair of adjacently located notches, said notches including a first notch and a second notch adapted to receive at least a lead wire respectively, said notches being parallel to each other and having a pre-defined depth and further being parallel to the axis of said ring with the distance between said notches being pre-defined and adapted to form a spacer element between said two notches. The height of said first ring is predefined in accordance with overhang height. The operative proximal or outer rim of said first ring includes a pre-located marked slot to check cleat position with respect to Dowell pin. The fixture gauge comprises a second ring co-axial to said first ring, said second ring being spaced apart from said first ring in an operative distal direction.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/03/2010
(21) Application No.663/MUM/2010 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : EARTH FAULT DETECTOR FOR AN AC INDUCTION MOTOR

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|---|---|
| (51) International classification | :H02P 23/00; H02P 27/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)CROMPTON GREAVES LIMITED**
Address of Applicant :CG HOUSE, DR ANNIE BESANT ROAD, WORLI, MUMBAI - 400 030, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)RAWAT CHANDAN SINGH**

(57) Abstract :
An earth fault detector for an AC induction motor. The detector (1) comprises an inverter (2) connected across the voltage lines (3) connecting the induction motor (4) to a source of power supply. The detector also comprises a bridge rectifier (5) one input (6) of which is connected to the DC link capacitor (7) of the inverter and the other input (9) of which is earthed and the output (10) of which is connected to a protective relay (11). The relay is connected to a tripping device (12) which in turn is connected across the voltage lines and a Zener diode (13) is connected across the relay.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2011
(21) Application No.665/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A NOVEL METHOD OF DEVELOPMENT OF A VERY THICK AND FLAT YARN MADE OUT OF UNCONVENTIONAL WEAVING PROCESS FOR THE PURPOSE OF GIVING HIGH PRODUCTION AND IMPARTING SPECIAL CHARACTERISTIC BY WAY OF MIXING DIFFERENT TYPES OF BASIC YARNS WITHOUT COMPROMISING END PRODUCTS BASIC PROPERTIES.

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|---|---|
| (51) International classification | :D03D 1/00; D03D 35/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)SKAY FINVEST PRIVATE LIMITED.**
Address of Applicant :9, CHATRABHUJ JIVANDAS HOUSE, 285, PRINCESS STREET, MUMBAI-400 002, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)NITIN MOTANI**

(57) Abstract :
The invention under consideration is based on the revolutionary narrow fabric weaving principal, where the thick yarn is developed by giving cord/yarn like appearance with 3 dimensional effects. The weaving process is made from the yarn available in the market and selection of the yarn is based on the properties needed for subsequent process and dyeing. The designing of the weave is selected to give the voluminous appearance and to produce cord/yarn like flexible small wear without any torque/twist. The weft is inserted so that there is no layer to layer slippage (very often found inbraiding) in subsequent operation. The dyeing is carried out to the shades required for the end product or to identify the product.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/01/2012
(21) Application No.136/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : AN IMPROVED PROCESS FOR TREATING SODIUM CYANIDE CONTAINING LIQUID EFFLUENT ON INDUSTRIAL SCALE.

| | | |
|---|---|---|
| (51) International classification | :C02F 1/00 | (71)**Name of Applicant :** **1)GUJARAT ALKALIES AND CHEMICALS LIMITED** Address of Applicant :P.O. PETROCHEMICALS - 391 346, DIST. VADODARA, GUJARAT, INDIA. |
| (31) Priority Document No | :NA | |
| (32) Priority Date | :NA | |
| (33) Name of priority country | :NA | (72)**Name of Inventor :** **1)SURESH P. RAMNANEY** **2)DR. SUNIL SINHA** **3)DR. JAYANTIBHAI R. PATEL** |
| (86) International Application No | :NA | |
| Filing Date | :NA | |
| (87) International Publication No | :N/A | |
| (61) Patent of Addition to Application Number | :NA | |
| Filing Date | :NA | |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :
An improved, modified and economical industrial process suitable for treating 125- 150 M3 / annum liquid effluent generated from a commercial plant manufacturing 2500 -2700 MTA Sodium Cyanide and simultaneously producing high purity value added marketable product - Sodium Ferrocyanide Decahydrate (99.99% purity, completely free from Cyanide) in 95 - 98% yield. Thus the waste liquor containing 25 - 35% Sodium Cyanide, 15 - 20% Sodium formate, 2 - 2.5 % Sodium Hydroxide and 40 -50% water is treated with 25 - 35% Ferrous chloride (prepared separately, stored under nitrogen atmosphere and used as per requirement) under vigorous stirring & inert atmosphere at 50 - 85 °C & phi 11.5-12. The contents are centrifuged to separate the insofubles / solid sludge and the clear liquor is gradually cooled to 10 - 15 °C for the complete crystallization of Sodium Ferrocyanide Decahydrate, which in turn is centrifuged & washed, followed by the drying of the product. The product is suitable for Industrial applications / uses. The process is able to reduce the Sodium Cyanide content in the liquid effluent by more than 99%.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/02/2010

(21) Application No.272/MUM/2010 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : SPIN PACK DEVICE

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|---|---|
| (51) International classification | :D01D4/04; D01D4/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)ADITYA BIRLA SCIENCE AND TECHNOLOGY COMPANY LIMITED.**
Address of Applicant :ADITYA BIRLA CENTRE, 2nd FLOOR,C WING, S.K.AHIRE MARG, WORLI,MUMBAI-400 025, MAHARASHTRA, INDIA
**2)GRASIM INDUSTRIES LTD**
(72)**Name of Inventor :**
**1)BISWAS ABHISHEK**
**2)DEY GAUTAM**

(57) Abstract :
The present invention envisages a spin pack device for continuous spinning of polymer to form filament for producing high quality staple fiber. The device in accordance with the present invention is characterized by a twin heating arrangement wherein the first heating arrangement uniformly heats the polymer supply pipe and the second heating arrangement uniformly heats a top plate and a bottom plate. A distributor plate with a plurality of holes co-operates with the bottom plate to define a spinning area for a spinneret. A filter media provides a back pressure on the polymer to facilitate uniform spreading of the polymer on the spinning area. Thus uniform heating of the spin pack device and uniform spreading of the polymer overcomes the major drawbacks associated with prior art and produces high quality fiber.

No. of Pages : 25 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2011

(21) Application No.641/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A FUEL TANK OF AN AUTOMOBILE AND METHOD OF ASSEMBLING THEREOF

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|---|---|
| (51) International classification | :F02M 37/10; B60K15/03 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)TATA MOTORS LIMITED**
Address of Applicant :Bombay House 24 Homi Mody Street Hutatma Chowk Mumbai 400 001 MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)MANISH DESHMUKH**

(57) Abstract :
The present disclosure provides a fuel tank (100) of a vehicle comprising; a top shell (101) and a bottom shell (102) of predetermined shape adapted to form a walls (103 and 106) of the fuel tank (100), wherein said shells (101 and 102) consists of plurality of inwardly projecting portions (105) on their inner wall (106); plurality baffle members (107) of predetermined shape mounted transversely in the fuel tank (100) in between the inwardly projecting portions (105) and a central support (109) adapted to hold the baffle members (107) in the fuel tank (100).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2011

(21) Application No.642/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : NOVEL POLYMORPH OF MOXIFLOXACIN HYDROCHLORIDE

(51) International classification :C07D471/04
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :N/A
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)ENALTEC LABS PRIVATE LIMITED.**
Address of Applicant :17TH FLOOR, KESAR SOLITAIRE, PLOT NO. 5 SECTOR-19, SANPADA, NAVI MUMBAI PIN CODE: 400705 Maharashtra India
(72)**Name of Inventor :**
**1)SIVA KUMAR VENKATA BOBBA**
**2)ESWARA RAO KODALI**
**3)GIRISH BANSILAL PATEL**
**4)SANJAY DASHRATH VAIDYA**
**5)ALOK PRAMOD TRIPATHI**

(57) Abstract :
The present invention relates to novel crystalline form F of moxifloxacin hydrochloride, to processes for preparing crystalline form F of moxifloxacin hydrochloride and pharmaceutical composition thereof.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2011

(21) Application No.643/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PROCESS FOR EXTRACTION OF SOLANESOL

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|---|---|
| (51) International classification | :C07C29/00; C07C33/03 |
| (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 | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)RAGHAVENDRA P. GAIKAIWARI**
Address of Applicant :C-2/102, SAUDAMINI COMPLEX, SURVEY # 101/1, BHUSARI COLONY, PAUD ROAD, KOTHRUD, PUNE- 411038 Maharashtra India
**2)BHASKAR D. KULKARNI**
(72)**Name of Inventor :**
**1)RAGHAVENDRA P. GAIKAIWARI**
**2)BHASKAR D. KULKARNI**

(57) Abstract :
The present invention provides a process for extraction and purification solanesol from tobacco dust and tobacco leaves to obtain an enriched fraction containing 35 to 38% solanesol using a micro-emulsion system containing water, solvent and a suitable surfactant.

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2011

(21) Application No.682/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : FPGA SYSTEM FOR PROCESSING RADAR BASED SIGNALS FOR AERIAL VIEW DISPLAY

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|---|---|
| (51) International classification | :G06F17/10 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)THE TATA POWER COMPANY LTD.**
Address of Applicant :STRATEGY ELECTRONICS DIVISION, 42, SAKI, VIHAR ROAD, ANDHERI (EAST) MUMBAI 400 072, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)DIKSHIT RAGHUKUL**
**2)REDDY PARADEEP**

(57) Abstract :
A Field Programmable Gate Array (FPGA) system to read input radar signals and produce an output for plotting an aerial radar display on a predefined map to obtain a rendition of the position of a target being mapped. Analog radar signals received are converted to digital signals by an RSC. Received digital signal and radar control signal are used by PPI to create aerial scan video frames. The created frames are stored in a DDR2 SDRAM storage means via a DDR2 multiport controller having a pre-determined number of read/write ports, each port having a pre-defined priority. The created frames are positioned and resized in raster zoom-pan controller means and then blended with synthetic video generated by a host processor to produce a fused video by alpha blender using alpha blending technique. An alpha blender provides non-interlaced scanning for raster display of the fused video at a pre-determined resolution.

No. of Pages : 49 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/01/2012

(21) Application No.110/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : DUAL MODE AUTOMATIC OPERATION UV/UF & REVERSE OSMOSIS BASED WATER PURIFIER

| | | |
|---|---|---|
| (51) International classification | :B01D61/00 | (71)**Name of Applicant :** |
| (31) Priority Document No | :NA | **1)MR. BORSE BALKRISHNA JAGANNATH.** |
| (32) Priority Date | :NA | Address of Applicant :FLAT NO.3, JANKI RESSIDENCY |
| (33) Name of priority country | :NA | APPARTMENT, DATE NAGAR, GANGAPUR ROAD, AT |
| (86) International Application No | :NA | POST : NASHIK. PIN - 422 013 Maharashtra India |
| Filing Date | :NA | (72)**Name of Inventor :** |
| (87) International Publication No | :N/A | **1)MR. BORSE BALKRISHNA JAGANNATH.** |
| (61) Patent of Addition to Application Number | :NA | |
| Filing Date | :NA | |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :
The present invention discloses a house hold / Commercial / Industrial or any purpose of drinking water from ultra violet / ultra filtration & reverse osmosis based water purifier. Water purifier having controlled healthy mineral contents in purified water through the base of low total dissolve solid as its original stage & high total dissolve solid to low dissolve solid. This comprises of means for subjecting to control the LOW TDS Raw water to ultra violet / ultra filtration AND comprises of means for subjecting to control the High TDS Raw water to Reverse Osmosis. Purifier to provide treated low tds water as its is on original stage with clean & Bactria free through the ultra violet or ultra filtration membrane and it has controlled the high tds through the reverse osmosis permissible membrane and its controlled the high tds water to low tds pure & safe drinking water. Healthy mineral incorporation in the said Low TDS water ( up to 150 ppm ) by purifying through the UV / UF process. High TDS thereby provide for a Reverse osmosis (more than 151 ppm & above) by purifying through the RO process.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/01/2012

(21) Application No.116/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : DYNAPOD

(51) International classification :A61B5/22
(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 :N/A
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)CENTRAL INSTITUTE OF AGRICULTURAL (INDIAN COUNCIL OF AGRICULTURAL RESEARCH)**
Address of Applicant :NABI BAGH, BERASIA ROAD BHOPAL - 462 038 Madhya Pradesh India
(72)**Name of Inventor :**
**1)TIWARI, PREM SHANKER**
**2)GITE, LAXMAN PUNJAJI**
**3)PANDEY, MADAN MOHAN**

(57) Abstract :
Until about two and half centuries ago, muscle-power had been the prime source of energy for performing all the physical activities on our earth, and much of the muscle-power was from human muscles. Because of the socio-economical conditions of the farmers in several developing countries including India, the human muscle power will go on contributing the energy requirements for performing many farm'activities at least for next two-three decades. In remote villages in India where electric power is not available and repair and maintenance facilities for internal combustion engines are in scarce human and animal power are still the major contributors of energy requirement for production agriculture as well as for post harvest agricultural operations. Poor tribal populations in many tribal districts have nothing to spend for energy requirements for farm operations but the muscle power may it be the animal or human muscles. Muscle power may be considered as one of the environment friendly renewable sources of energy, and human muscle power if utilized properly and judiciously may keep him free from many cardiovascular (blood pressure, sinus-arrhythmia), respiratory (asthma), musculoskeletal (arthritis, rheumatism etc.) and urino-genital (diabetes) diseases. The usable external power output of the body varies with the duration of activity and is limited by different factors. In single movement of less than a second a healthy champion athlete may produce power up to 4.5 kW, which may-be limited by intrinsic power production of the muscle, and by the difficulty of coupling a large mass of muscle to a suitably matched load. In brief bouts of exercise of 0.1 to 5 minutes duration the power production may range from 0.4 to 1.5 kW, which is limited by the availability of stores of chemical substances in the muscles that can yield energy by hydrolysis. The power production in steady state work of 5 to 130 min or more duration may range from 0.3 to 0.4 kW and is limited by the capacity of the body to absorb and transport oxygen to muscles. For day long work the power level, which may be maintained is about 90 W and is limited by wear and tear of muscles and need to eat to replenish the food reserves of the body. It is to mention that the above power levels refer to champion athletes; an ordinary healthy individual may produce less than 70 to 80% of power mentioned above for different time durations. Human energy has generally been applied through arms , hands, and back. it was only with the invention of the bicycle, that legs also began to be considered as a means of developing power from human muscles. A person can generate four times more power (up to 200 W) by pedalling than by hand cranking. The main use of pedal power in the high-power range (75 watts and above of mechanical power) is still for bicycling during exercise training, sports and rehabilitation activities. In the low-power range the major occupational use of pedal power is for transport of people using cycle rickshaw. However, the use of pedal power in the low power range seems to be potentially advantageous in agriculture, construction and electrical power generation, when electrical or internal-combustion engine power is unavailable/expensive. Keeping these points into consideration the dynapod has been developed for use as an interface between the human wbrker and the agricultural process machine. The dynapod was interfaced with a hand operated rotary maize shelter for its operation in pedalling mode and the performance of the machine was compared with that during hand cranking mode. Physiological responses of 10 male agricultural workers during the operation of the machine in two modes of operation were also studied. The results indicated that the shelling capacity of the machine in pedalling mode using dynapod increased by about 59% in comparison to that in hand cranking mode. This increase in shelling capacity could be achieved due to operation of machine at higher operating speed in comparison to hand cranking mode. On the other hand the physiological cost for operating the machine in pedalling mode using dynapod was about 67% lower in comparison to hand cranking mode. This decrease in physiological cost was mainly due to more efficient utilization of human energy in operation of machine in pedalling mode using dynapod. The dynapod may be tried for other rotary type manually operated agricultural machines for quantification of improvement in output and reduction in drudgery in comparison to hand cranking mode. Pedal operated agricultural machines may also be tried for their operation with dynapod.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/01/2012
(21) Application No.159/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : FRAME SECTION PIVOT LIMITED DEVICE

| | |
|---|---|
| (51) International classification | :B60B 33/02 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)DEERE & COMPANY**
Address of Applicant :ONE JOHN DEERE PLACE, MOLINE, LLLINOIS, 61265 8098, USA
(72)**Name of Inventor :**
**1)RICHARD CONNELL J**
**2)NARAYANAN ESAKKIMUTHU E**

(57) Abstract :
A pivot limiting device for an agricultural implement is disclosed. The agricultural implement includes a first frame section pivotaliy coupled to a second frame section at a pivot location. The device includes a compression structure having a spring compressed to a preset load. The compression structure is coupled to the first frame section. A plunger includes a first portion positioned adjacent the second frame section and a second portion positioned adjacent the compression structure to move relative thereto between a first position placing no additional compression on the spring when the second frame section pivots in a first direction and contacts the plunger with a first force less than or equal to the preset load, and a second position further compressing the spring when the second frame section pivots in the first direction and contacts the plunger with a second force greater than the preset load.

No. of Pages : 18 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2011
(21) Application No.655/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : MICROWAVE ASSISTED REDUCTION OF IRON ORE FINES TO MANUFACTURE SPONGE IRON

| | |
|---|---|
| (51) International classification | :F16K15/02; F02D 9/08 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)PRADEEP METALS LIMITED**
Address of Applicant :R - 205, TTC INDUSTRIAL AREA, M.I.D.C., RABALE, NAVI MUMBAI - 400 701, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)GOYAL PRADEEP VEDPRAKASH**
**2)(DR.) BORKAR SHIVANAND AMBIKACHARAN**

(57) Abstract :
The method particularly relates to the preparation of sponge iron by rapid and direct reduction of iron ore lumps/fines/pellets in the reducing atmosphere without using any carbon containing reducing agent. Thus the method drastically reduces time required and energy consumed for the reduction of the iron ore to produce sponge iron and minimizes/eliminates emission of green-house gases thereby making the process simple, affordable, economical and eco-friendly, especially in the wake of availability of iron ore fines as waste and rejects.

No. of Pages : 25 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2011

(21) Application No.657/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A SELF REGULATING AIR THROTTLE VALVE, METHOD OF REGULATING AIR, AND METHOD OF ASSEMBLING THEREOF

| | |
|---|---|
| (51) International classification | :F16K15/02; F02D 9/08 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)TATA MOTORS LIMITED**
Address of Applicant :Bombay House 24 Homi Mody Street Hutatma Chowk Mumbai 400 001 MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)RAJA MUNUSAMY**
**2)YOGESHA SANKENHALLI ANNEGOWDA**
**3)SOMALINGAYYA GURUPADAYYA MATH**
**4)BHUT BHAVESHKUMAR DHIRAJLAL**

(57) Abstract :
Embodiments of disclosure relate to self regulating air throttle valve comprising male plunger and female plunger; helical spring supporting the male plunger at one end and other end is fixed to flange; a plunger guide passing through the helical spring and attached to the flange at one end using fasteners and other end is passed through the male plunger; a manifold comprising one or more breathing ports on its surface, said manifold is configured to house said male and said female plungers; and an outer cover, housing the manifold, and is attached to an inlet manifold at top of the outer cover and an outlet manifold at bottom of the outer cover; wherein said male plunger is regulated by force of compressed air supplied through the inlet manifold and reverse force of the helical spring to vary rate of opening of the breathing ports to regulate the air throttle valve.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2011

(21) Application No.652/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHOD AND SYSTEM FOR THERMAL MANAGEMENT BY QUANTITATIVE DETERMINATION OF COOLING CHARACTERISTICS OF DATA CENTER

(51) International classification :G06F17/50
(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 :N/A
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)TATA CONSULTANCY SERVICES LIMITED**
Address of Applicant :NIRMAL BUILDING, 9TH FLOOR, NARIMAN POINT, MUMBAI 400021, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)BHAGWAT HARSHAD GIRISH**
**2)SINGH AMARENDRA KUMAR**
**3)SIVASUBRAMANIAM ANAND**

(57) Abstract :
A method and system for thermal management by quantitative determination of cooling characteristics of data center. The invention provides a method and system for quantitative determination of cooling characteristics of a data center by calculating thermal influence indices. The invention further provides a method and system for providing effective thermal management in a data center using quantitative determination of cooling characteristics of a data center.

No. of Pages : 50 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2011
(21) Application No.653/MUM/2011 A
(43) Publication Date : 19/07/2013

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

| | |
|---|---|
| (51) International classification | :C07D215/22; C07D215/227 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)WOCKHARDT LIMITED**
Address of Applicant :D-4 MIDC Industrial area Chikalthana Aurangabad - 431210 M.S. India
(72)**Name of Inventor :**
**1)Gaikwad Kishor Vinayak**
**2)Deshmukh Rajendra Dagadu**
**3)Rallapalli Sivakumar**
**4)Deo Keshav**

(57) Abstract :
The present application relates to a process for the preparation of analogue of aripiprazole of Formula II or pharmaceutical acceptable salt thereof which are present as impurities in the aripiprazole and use of theses impurities as reference marker to quantify the presence of these analogue in aripirazole. Formula II wherein Cl group may be present at C2, C3, or C4 position

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2011

(21) Application No.654/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : Process For The Preparation Of 2-N-Butyl-3-[4-(3-Di-N-Butylamino-Propoxy)Benzoyl]-5-Methylsulfonamidobenzofuran

| | |
|---|---|
| (51) International classification | :C07C217/22; C07D307/80; C07C225/16 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)WOCKHARDT LIMITED**
Address of Applicant :D-4 MIDC Industrial area Chikalthana Aurangabad - 431210 M.S. India
(72)**Name of Inventor :**
**1)Reddy Naveen**
**2)Gupta Nitin**
**3)Rao Bhatraju Srinivasa**
**4)Deo Keshav**

(57) Abstract :
The present invention provides a process for the preparation of Dronedarone. The process includes conversion of (i) 2-n-butyl-3-(4-hydroxy benzoyl)-5-nitro benzofuran to 2-n-butyl-3-[4-(3-di-n-butylamino-propoxy) benzoyl]-5-nitro benzofuran mono oxalate by reaction with 1-chloro-3-di-n-butylamino propane and oxalic acid in the presence of a base and solvent. (ii) Hydrogenation of 2-n-butyl-3-[4-(3-di-n-butylamino-propoxy) benzoyl]-5-nitro benzofuran mono oxalate to 5-amino-3-[4-(3-di-n-butylaminopropoxy) benzoyl]-2-n-butyl benzofuran mono oxalate in the presence of palladium/carbon catalyst and a solvent and its further conversion to 5-amino-3- [4-(3-di-n-butylaminopropoxy) benzoyl]-2-n-butyl benzofuran dioxalate by reacting it with oxalic acid in the presence of a solvent.(iii) Conversion of 5-amino-3-[4-(3-di-n-butylaminopropoxy) benzoyl]-2-n-butyl benzofuran di oxalate to 2-n-butyl-3- [4-(3-di-n-butylamino-propoxy) benzoyl]-5-methylsulfonamidobenzofuran by reacting with methane sulfonyl chloride in suitable solvent and isolating dronedarone base in high purity. It is further converted into its pharmaceutically acceptable salts.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2011
(21) Application No.644/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PROCESS FOR EXTRACTION OF LYCOPENE

| | |
|---|---|
| (51) International classification | :C09B 61/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)RAGHAVENDRA P. GAIKAIWARI**
Address of Applicant :C-2/102, SAUDAMINI COMPLEX, SURVEY # 101/1, BHUSARI COLONY, PAUD ROAD, KOTHRUD, PUNE- 411038 Maharashtra India
**2)BHASKAR D. KULKARNI**
(72)**Name of Inventor :**
**1)RAGHAVENDRA P. GAIKAIWARI**
**2)BHASKAR D. KULKARNI**

(57) Abstract :
The present invention provides a process for extraction and purification of lycopene from tomato pulp and paste to obtain an enriched fraction containing 97 to 98% lycopene using a micro-emulsion system containing water, solvent and a suitable surfactant.

No. of Pages : 14 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/01/2012

(21) Application No.134/MUM/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : NANOPARTICLES FOR DELIVERY OF BIOLOGICALLY ACTIVE MOLECULES

| | |
|---|---|
| (51) International classification | :A61K 48/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)Serum Institute of India Ltd.**
Address of Applicant :212/2 Off Soli Poonawalla Road Hadapsar Pune 411 028 MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)KAPRE Subhash Vinayak**
**2)PISAL Sambhaji Shanker**
**3)VADIYAR Vitthalrao Mahadev**

(57) Abstract :
The present invention provides novel methods for preparing antigen adsorbed chitosan nanoparticle compositions, such that nasal delivery of said vaccine composition results in improved immunogenicity profile as compared to preexisting parenteral compositions.

No. of Pages : 53 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2011

(21) Application No.672/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : CONJOINED LIPID BASED MULTI COMPARTMENT NANOVESICLES FOR DRUG DELIVERY.

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|---|---|
| (51) International classification | :A61K47/48; A61K31/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | :N/A |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)INDIAN INSTITUTE OF TECHNOLOGY,**
Address of Applicant :DEPARTMENT OF BIOSCIENCES AND BIOENGINEERING, POWAI, MUMBAI-400 076 MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)DR. RINTI BANERJEE**
**2)MR. NITIN JOSHI**

(57) Abstract :
This invention relates to multi compartmental nano vesicles obtained from lipids. The invention is surface active, passes the blood brain barrier and can co-encapsulate multiple drugs with high encapsulation efficiency. Each compartment may encapsulate individual drugs particularly career cure drugs which act synergistically on release under biological triggers like pH variation, enzyme and temperature changes. This invention also relates to a process for producing conjoined lipid nanovesicles.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2011
(21) Application No.667/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PROCESS FOR N-[2-N-BUTYL-3-[4-[3-DI-N-BUTYLAMINO) PROPOXY] BENZOYL] BENZOFURAN-5-YL]METHANESULFONAMIDE HYDROCHLORIDE

(51) International classification :C07D307/81
(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 :N/A
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)SUN PHARMACEUTICAL INDUSTRIES LTD,**
Address of Applicant :ACME PLAZA, ANDHERI-KURLA ROAD, ANDHERI (E), MUMBAI-400059, MAHARASHTRA, INDIA
(72)**Name of Inventor :**
**1)MR. GIRI RAJESH LALMANI**
**2)MR. MOHITE VISHAL DILIPRAO**
**3)MR. KAMBHAMPATI SUDHAKAR**
**4)DR. CHITTURI TRINADHA RAO**
**5)DR. THENNATI RAJAMANNAR**

(57) Abstract :
The present invention provides a process for preparing compound of formula (I),

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2011
(21) Application No.668/MUM/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PROCESS FOR BIOGENESIS OF LYSINE FROM E-CAPROLACTAM DEGRADATION OR RELATED INTERMEDIATES

(51) International classification :C12P13/08
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :N/A
(61) Patent of Addition to Application Number :644/MUM/2010
Filed on :11/03/2010
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)BHADALAKAR ANAND**
Address of Applicant :201, SHREE APARTMENT SHIYAPURA, RAOPURA BARODA 390001, GUJARAT, INDIA.
**2)DESAI PIYUSH**
(72)**Name of Inventor :**
**1)BHADALAKAR ANAND**
**2)DESAI PIYUSH**

(57) Abstract :
A process of biogenesis of L-Lysine from ε-caprolactam degradation intermediates selected from ε-Amino Caproic Acid [ACA], Amino Adipic Acid, Adipic Acid, NorLeucine or any combinations thereof, degrading by microorganisms or their enzymes, and more particularly microorganisms belonging to groups Alcaligenes spp., Arthrobacter spp., Bacillus spp., Pseudomonas spp. and Rhodococcus spp.; in a reaction medium. The biotransformation process is performed leading to biogenesis of L-Lysine from ε-caprolactam degradation intermediates selected from ε-Amino Caproic Acid [ACA], Amino Adipic Acid, Adipic Acid, NorLeucine or combination thereof, in presence of any or combination of modulators/inhibitors, and then isolating the L-Lysine from the reaction mixture.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3233/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : LOW TEMPERATURE SINGLE SOLVENT PROCESS FOR THE PRODUCTION OF SUCROSE-6-ESTER•

| | |
|---|---|
| (51) International classification | :C07H13/04, C07H13/06 |
| (31) Priority Document No | :61/250,681 |
| (32) Priority Date | :12/10/2009 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No<br>Filing Date | :PCT/GB2010/001904<br>:12/10/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)TATE & LYLE TECHNOLOGY LIMITED**
Address of Applicant :1 Kingsway London WC2B 6AT United Kingdom
(72)**Name of Inventor :**
**1)MICINSKI Edward**
**2)COLEMAN David**
**3)WILEY James Edwin**

(57) Abstract :
A method for the preparation of a sucrose-6-ester is disclosed. In a first step of the method sucrose in a polar aprotic solvent is reacted with an organotin-based acylation promoter. The water of reaction is removed at a temperature that does not exceed about 800C. In one aspect the water is removed by distillation of part of the polar aprotic solvent at reduced pressure. In a second step a carboxylic acid anhydride is added. In one aspect the resulting reaction mixture is maintained at a temperature of 1O0C or less for a period of time sufficient to produce a sucrose-6-ester. The sucrose-6-ester can be converted to sucralose.

No. of Pages : 26 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3234/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PROCESS FOR THE PRODUCTION OF SUCROSE-6-ESTER•

| | |
|---|---|
| (51) International classification | :C07H13/04, C07H13/06 |
| (31) Priority Document No | :61/250,688 |
| (32) Priority Date | :12/10/2009 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No<br>Filing Date | :PCT/GB2010/001903<br>:12/10/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)TATE & LYLE TECHNOLOGY LIMITED**
Address of Applicant :1 Kingsway London WC2B 6AT United Kingdom
(72)**Name of Inventor :**
**1)MICINSKI Edward**
**2)COLEMAN David**

(57) Abstract :
A process for the production of sucrose-6-ester is disclosed. The process comprises in order the steps of: (a) providing a first reaction mixture comprising sucrose a reaction vehicle and an organotin-based acylation promoter; (b) removing water from the first reaction mixture to afford a second reaction mixture that is substantially free from water; and (c) adding a carboxylic acid anhydride to the second reaction mixture to afford a third reaction mixture thereby producing a sucrose-6-ester; in which: during step (b) the removing of water includes distillation of water with the reaction vehicle using an apparatus supplying a heat flux of from 500 to 25 000 BTU/hrft2 (1577 to 78865 W/m2) selected from a wiped film evaporator an agitated thin film evaporator a falling film evaporator a rising film evaporator and the like.

No. of Pages : 34 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3235/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : MEMBRANE ELEMENT GAS SEPARATION DEVICE AND INTERNAL COMBUSTION ENGINE•

| | |
|---|---|
| (51) International classification | :B01D63/14, B01D63/00 |
| (31) Priority Document No | :2009-222902 |
| (32) Priority Date | :28/09/2009 |
| (33) Name of priority country | :Japan |
| (86) International Application No<br>Filing Date | :PCT/JP2010/066824<br>:28/09/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)ASAHI KASEI CHEMICALS CORPORATION**
Address of Applicant :1-105 Kanda Jinbocho Chiyoda-ku Tokyo 101-8101 Japan
(72)**Name of Inventor :**
**1)Masahiro TSUKAMOTO**
**2)Atsushi SHIMIZU**

(57) Abstract :
The present invention provides a membrane element a gas separation device and an internal combustion engine capable of improving gas separation performance. A gas separation device 1 including membrane elements 2 includes rigid members 32 arranged in a direction intersecting folds of a pleated structure 26 in open regions Rl and R2 of the pleated structure 26 surrounded by a reinforcement frame 27. The open regions Rl and P2 are each separated into a supply region and an exhaust region of gas by an elastic epoxy resin adhesive S provided between the rigid member 32 and the pleated structure 26.

No. of Pages : 75 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3237/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : TRANSPORT CONTAINER WITH CUSHIONING STRUCTURE•

| | |
|---|---|
| (51) International classification | :B65D81/07, B65D5/50 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :PCT/EP2009/008042<br>:11/11/2009 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)DEUTSCHE POST AG**
Address of Applicant :Charles-de-Gaulle-Strasse 20 53113 Bonn Germany
(72)**Name of Inventor :**
**1)MIYAZAKI Keinosuke**
**2)YAMADA Keishi**

(57) Abstract :
The invention relates to a cushioning structure (1) for safety transporting heavy, large and fragile goods comprising a main frame (11) with at least one bearing surface (2), a carrier foil (5) at least bonded to the bearing surface (2) of the main frame (11), preferably at least fully covering the at least one bearing surface (2), and covering the area between the bearing surfaces (2) as a carrying surface for the goods (10), wherein the main frame (1) comprises multiple foldable inner and outer side flaps (3, 4, 41) able to be folded into multiple supporting elements to support the bearing surface (2) of the main frame (11) with a height defined by the dimensions of the outer side flaps (4, 41), wherein the carrier foil (5) comprises a first foil (51), preferably an urethane foil, and a second foil (53), preferably an urethane foil, and an air cushion (52) between the first and the second foils. The invention further relates to a container reducible in size comprising the cushioning structure, a method to load the goods into the container and a method to collapse the empty container.

No. of Pages : 25 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3245/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : WIND POWER GENERATOR•

| | |
|---|---|
| (51) International classification | :F03D9/00, F03D11/00 |
| (31) Priority Document No | :10-2009-0105325 |
| (32) Priority Date | :03/11/2009 |
| (33) Name of priority country | :Republic of Korea |
| (86) International Application No<br>Filing Date | :PCT/KR2010/006842<br>:07/10/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)LEE MU IL**
Address of Applicant :101-502 Uiwang Sangnok Apt. 790 Naeson-dong Uiwang-si Gyeonggi-do 437-080 Republic of Korea
(72)**Name of Inventor :**
**1)LEE MU IL**

(57) Abstract :
A wind-power generator which can improve the performance of a battery and/or a storage battery for a vehicle. The wind-power generator includes: a cylindrical accommodating member having a cutout hole formed by cutting out a portion thereof and an inner surface along which coil bundles are spaced apart from each other; a rotary member which is rotatably accommodated in the accommodating member, the N- and S-pole magnetism of which is alternately arranged along the circumferential direction of the accommodating member such that a portion of the rotary member is exposed to the outside through a cutout hole; and a storage battery electrically connected to the rotary member so as to be directly charged with the electrical energy generated by the rotation of the rotary member. In the present invention, electrical energy is generated using wind power which is a natural energy source, thus protecting the environment in an environmentally-friendly manner.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3246/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : NUCLEIC ACID MOLECULE ENCODING TRITERPENOID SYNTHASE•

| | |
|---|---|
| (51) International classification | :C12N9/10, C07C11/21 |
| (31) Priority Document No | :2009904482 |
| (32) Priority Date | :15/09/2009 |
| (33) Name of priority country | :Australia |
| (86) International Application No<br>Filing Date | :PCT/AU2010/001203<br>:15/09/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)WWCC LIMITED**
Address of Applicant :16th Floor Tesbury Ctr 28 Queens Road East Hong Kong China
(72)**Name of Inventor :**
**1)BALL Andrew**
**2)MOORE Robert**
**3)KNOWLES Gregory**
**4)QIN Jian**

(57) Abstract :
The invention relates to an isolated nucleic acid molecule encoding a polypeptide capable of producing a triterpenoid hydrocarbon. The invention also relates to the encoded polypeptide a vector comprising the nucleic acid molecule a recombinant non-human organism comprising the nucleic acid molecule and to methods of producing a triterpenoid hydrocarbon or an intermediate of biofuel using the nucleic acid molecule polypeptide or recombinant organism.

No. of Pages : 78 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012
(21) Application No.3247/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : SYSTEMS AND METHODS FOR IMMOBILIZATION USING SELECTED ELECTRODES•

(51) International classification :H02H1/00
(31) Priority Document No :60/509,577
(32) Priority Date :07/10/2003
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2004/33106
Filing Date :07/10/2004
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :1177/CHENP/2006
Filed on :05/04/2006

(71)**Name of Applicant :**
**1)TASER INTERNATIONAL INC.**
Address of Applicant :17800 North 85th Street Scottsdale Arizona 85255-9603 United State of America
(72)**Name of Inventor :**
**1)SMITH Patrick W**
**2)NERHEIM Magne H.**

(57) Abstract :
Systems and methods for immobilizing a target such as a human or animal with a stimulus signal coupled to the target via numerous electrodes (142) with select particular electrodes (142) to use for the stimulus signal. Subsets of electrodes (142) may be tested by applying a test signal and monitoring the energy or charge delivered during a prescribed time. If the delivered energy or charge using a particular subset of electrodes (142) as indicated by monitoring test pulse amplitude suitably compares to a limit, then the particular subset is selected for applying the stimulus signal. A first stimulus signal may be applied to a first subset of electrodes (142) to prompt movement of the target toward an electrode that, when better coupled to the target as a consequence of movement of the target will provide a more effective subset of electrodes for further stimulus. For example, a projectile (132) with closely spaced electrodes (142) may stimulate a burning sensation to attract the target to impale the targets hand on a rear facing electrode of the projectile (132). Use of the rear facing electrode (142) and one or more of the closely spaced electrodes (142) may provide a more effective stimulus circuit through tissue of the target

No. of Pages : 23 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3248/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : WHEY PROTEIN CONCENTRATE ITS PREPARATION AND ITS USE•

| | |
|---|---|
| (51) International classification | :A23J1/20, A23C21/10 |
| (31) Priority Document No | :09172797.4 |
| (32) Priority Date | :12/10/2009 |
| (33) Name of priority country | :EPO |
| (86) International Application No<br>Filing Date | :PCT/NL2010/050670<br>:11/10/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)FrieslandCampina Nederland Holding B.V.**
Address of Applicant :Stationsplein 4 NL-3818 LE Amersfoort The Netherlands.
(72)**Name of Inventor :**
**1)THIESSEN-BOLDER Suzanne Godelieve**
**2)CAO Linqiu**
**3)TORRES Iliana Hidalgo**

(57) Abstract :
The invention pertains to process for manufacturing whey protein concentrate (WPC) from whey said process involving (a) providing acidified whey; (b) increasing the pH of said acidified whey using one or more carbonate salt(s) preceded and/or followed by ultrafiltration and (c) subjecting the ultrafiltered carbonate-containing whey to spray drying. A WPC is provided having improved functional properties particularly increased gel strength and reduced salt sensitivity (i.e. meaning that the functional properties of the WPC are affected by salt to a lesser extent).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/04/2012

(21) Application No.3330/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : SPECTROMETER

(51) International classification :G01J3/10, G01J3/44
(31) Priority Document No :61/272,496
(32) Priority Date :30/09/2009
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/CA2010/001563
Filing Date :30/09/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)GENIA PHOTONICS INC.**
Address of Applicant :500 Boul. Cartier Ouest Suite 131 Laval Quebec H7V 5B7 Canada.
(72)**Name of Inventor :**
**1)Alain VILLENEUVE**
**2)Bryan BURGOYNE**
**3)Daniel CT‰**
**4)Steve B‰GIN**

(57) Abstract :
A spectrometer (110) including a triggering element (124) for generating a series of trigger signals, a first laser (10) for emitting toward a sample (112) a first laser light pulse (118) having a first wavelength in response to receiving each of the trigger signals, the first laser (10) being wavelength tunable so that the first wavelength is selectively variable; a second laser (114) for emitting toward the sample a second laser light pulse (120) having a second wavelength in response to receiving each of the trigger signals from the series of trigger signals; a dithering element (128) for selectively retarding transmission of the trigger signals to at least one of the first and second lasers such that the first and second laser light pulses (118, 120) are received at the sample substantially non-simultaneously; a delaying element (126) for retarding transmission of the trigger signals to at least one of the first and second lasers in a manner such that the first and second laser light pulses (118, 120) are received at the sample substantially simultaneously when the dithering element (128) is inactive state.

No. of Pages : 49 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/04/2012
(21) Application No.3331/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : CELL LOCKING METHOD FOR MOBILE TERMINAL AND MOBILE TERMINAL CAPABLE OF LOCKING CELL

(51) International classification :H04W8/24
(31) Priority Document No :200910180994.9
(32) Priority Date :23/10/2009
(33) Name of priority country :China
(86) International Application No :PCT/CN2010/076327
Filing Date :25/08/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)ZTE CORPORATION**
Address of Applicant :ZTE Plaza Keji Road South Hi-Tech Industrial Park Nanshan Shenzhen Guangdong 518057 China
(72)**Name of Inventor :**
**1)Yanping WANG**
**2)Yanqiang ZUO**
**3)Hu FENG**

(57) Abstract :
A cell locking method for a mobile terminal is disclosed in the present invention. The method includes: the mobile terminal acquiring a system identification (SID), a network identification (NID), a base station identifier (BASE ID) and a pseudo-random number (PN) of a current cell; judging whether the SID, NID, BASE ID and PN are already stored in a database of the mobile terminal, if yes, then setting the mobile terminal to a normal status; judging whether the SID, the NID, and the PN are already stored in the database of the mobile terminal and the database is not full, or whether the BASE ID and PN are already stored in the database of the mobile terminal, if yes, then transferring to D; and D. writing the SID, NID, BASE ID and PN into the database of the mobile terminal. A mobile terminal capable of locking a cell is also disclosed in the present invention. By way of the method and system of the present invention, the operating costs can be reduced without adding or modifying the configuration of the network side.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/04/2012

(21) Application No.3332/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : FAULT-TOLERANT FRAME-BASED COMMUNICATION SYSTEM

(51) International classification :G06F15/16
(31) Priority Document No :61/245,207
(32) Priority Date :23/09/2009
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2010/049893
Filing Date :22/09/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)AEROVIRONMENT INC.**
Address of Applicant :181 West Huntington Drive Suite 202 Monrovia California 91016 United States of America.
(72)**Name of Inventor :**
**1)Rolland Mitchell KOCH**
**2)William Stuart SECHRIST**
**3)Daniel Bailey HIRANANDANI**

(57) Abstract :
A packet-switched fault-tolerant vehicle communication internetwork (100 400 500) comprising port-based VLANs. Two or more VLANs are embodied where a source node (110 410 510 610) comprises two or more network interface circuits (130 140 415 425 515 525 630 640) and where looping is precluded via specific VLAN tagging and switch ports (131-134 200 300 420 430 435 445 455 465 535 540 545 560 575 585 associated with at least one specific VLAN. A destination node (120 440 450 460 570 580 590 620) may feedback packets to the source node via a general VLAN tag along pathways associated with the two or more specific outgoing VLAN tags.

No. of Pages : 25 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/04/2012
(21) Application No.3333/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHOD AND DEVICE FOR IDENTIFYING MARKER SOUND

| | |
|---|---|
| (51) International classification | :G10L15/20, G10L15/02 |
| (31) Priority Document No | :200910262771.7 |
| (32) Priority Date | :28/12/2009 |
| (33) Name of priority country | :China |
| (86) International Application No<br>Filing Date | :PCT/CN2010/076778<br>:09/09/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)ZTE CORPORATION**
Address of Applicant :ZTE Plaza Keji Road South Hi-Tech Industrial Park Nanshan District Shenzhen Guangdong 518057 China
(72)**Name of Inventor :**
**1)Zhi HAN**
**2)Shangyi LU**
**3)Zhenming ZHU**

(57) Abstract :
A method and an apparatus for identifying marker sound are disclosed in the present invention, related to a speech quality testing technology. The method according to the present invention includes: recording any speech data segment from an attenuation sample, wherein the number of sampling points of the speech data segment is the same as the number of sampling points of a marker sound sample; and then extracting envelop characteristic sampling points from all of sampling points of the speech data segment; if judging that the spacing of neighboring envelop characteristic sampling points in the speech data segment is equal to the spacing of neighboring envelop characteristic sampling points corresponding to the marker sound in a source sound sample based on the extracted envelop characteristic sampling points, then judging that the sound data segment is a marker sound.

No. of Pages : 37 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012
(21) Application No.3238/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHOD AND NETWORK FOR SYNCHRONIZING MOBILE MULTIMEDIA BROADCAST SERVICE KEY AND REGION MOBILE CONDITIONAL ACCESS SYSTEM

| | |
|---|---|
| (51) International classification | :H04W12/04, H04W12/06 |
| (31) Priority Document No | :200910092719.1 |
| (32) Priority Date | :16/09/2009 |
| (33) Name of priority country | :China |
| (86) International Application No<br>Filing Date | :PCT/CN2010/073765<br>:10/06/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)ZTE CORPORATION**
Address of Applicant :ZTE Plaza Keji Road South Hi-Tech Industrial Park Nanshan Shenzhen Guangdong 518057 China
(72)**Name of Inventor :**
**1)Zunyou KE**

(57) Abstract :
A method for synchronizing a mobile multimedia broadcast service key includes: each region mobile conditional access system (M-CAS) generating a corresponding region service key and synchronizing the region service key to a center M-CAS through a region platform interface; the center M-CAS generating a center service key and synchronizing the center service key and the region service key to a plurality of region M-CASs through a center platform interface; and the each region M-CAS authenticating a mobile terminal by using private information of the corresponding attributed mobile terminal. The present invention also provides a network for synchronizing a mobile multimedia broadcast service key and a region M-CAS. The present invention reduces the M-CAS synchronization data quantity and improves the total performance and reliability of the M-CAS system.

No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3239/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : TOOL-LESS INSTALLATION SYSTEM AND METHOD OF U-MOUNTED DEVICES

| | |
|---|---|
| (51) International classification | :H05K7/14, H05K7/18 |
| (31) Priority Document No | :12/569,302 |
| (32) Priority Date | :29/09/2009 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No<br>Filing Date | :PCT/US2010/050404<br>:27/09/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)AMERICAN POWER CONVERSION CORPORATION**
Address of Applicant :132 Fairgrounds Road West Kingston RI 02892 United States of America.
(72)**Name of Inventor :**
**1)BERGESCH Joseph H.**

(57) Abstract :
A device is configured to be secured within an equipment rack of the type having two spaced-apart mounting flanges with each flange having a plurality of openings formed therein spaced-apart from one another a predetermined distance. The device includes an elongated body having two opposite ends and two attachment configurations one for each end of the elongated body. Each attachment configuration has at least one retention element to be inserted within the openings of the mounting flanges. At least one attachment configuration has a plunger pin configured to retain the device to the mounting rails. The attachment configuration is constructed and arranged to facilitate tool-less installation and removal of the device with the mounting rails. Other embodiments of the device and a method of securing the device to an equipment rack are further disclosed.

No. of Pages : 32 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3240/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : REMOTE INITIATOR BREACHING SYSTEM

(51) International classification :F42B3/14, F42B3/22
(31) Priority Document No :579690
(32) Priority Date :16/09/2009
(33) Name of priority country :New Zealand
(86) International Application No :PCT/NZ2009/000276
Filing Date :02/12/2009
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)MAS ZENGRANGE (NZ) LIMITED**
Address of Applicant :30-32 Downer Street Lower Hutt 5010 New Zealand.
(72)**Name of Inventor :**
**1)Roger Neil BALLANTINE**
**2)Tony HUMPHRIES**
**3)Deon GROBLER**
**4)Drago LAVRENCIC**
**5)David HAMILTON**

(57) Abstract :
A remote initiator breaching system for initiating breaching charges over a short range requiring no physical link between the breacher and the demolition charge. The remote initiator breaching system has at least one transmitter, at least one receiver, at least one shock tube connectable to a breaching charge and a power source for each of the transmitter and receiver. The transmitter is able to generae and transmit a coded signal. The transmitter has an input for inputting operational commands into the transmitter for generating the coded signal, The transmitter has sixteen channels representing different frequency bands, and ten addresses for each channel such that transmission of the coded signal from the transmitter to the receiver is possible per individual addresses or all addresses simultaneously, The receiver has a shock tube interface adapted to interface directly with the shock tube connected to a breaching charge. A sparkinitiator is included in the transmitter for initiating a spark at the shock tube interface in order to initiate the shock tube. The receiver is able to receive the coded signal from the transmitter and has an input for inputting operational commands into the receiver for generating an output signal for the initiation of the shock tube upon receipt of a valid transmitted coded signal.

No. of Pages : 35 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/04/2012
(21) Application No.3370/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : CUTTING INSERT AND SHIM FOR HEAVY MACHINING OPERATIONS

| | |
|---|---|
| (51) International classification | :B23C5/20, B23B27/16 |
| (31) Priority Document No | :12/629,535 |
| (32) Priority Date | :02/12/2009 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No<br>Filing Date | :PCT/US2010/057239<br>:18/11/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)KENNAMETAL INC.**
Address of Applicant :1600 Technology Way P.O. Box 231 Latrobe PA 15650-0231 United States of America.
(72)**Name of Inventor :**
**1)JEFFREY FRANCIS KOVAC**
**2)KUMAR REDDY MYLAVARAM NIKHILESH**

(57) Abstract :
A combination of a cutting insert (10) and a shim (60). The cutting insert and shim have two opposing end surfaces (12 62) with two identical opposing major side surfaces (16 66) and two identical opposing minor side surfaces (14 64) extending between the minor side surfaces (14 64). Each end surface of the insert (10) has two lowered abutment members (28) each having a shim abutment surface (30) for contacting the shim (60). One end surface (62) of the shim (60) has two raised abutment members (74) each having an insert abutment surface (76) for contacting the insert (10). The abutment surfaces (30 76) contact each other in an area where high cutting forces occur so as to help distribute the loads encountered in the cutting operation as well as provide protection of the insert pocket (104) in case of insert failure.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/04/2012
(21) Application No.3334/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHOD AND SYSTEM FOR SHARING LOAD DYNAMICALLY IN SHORT MESSAGE SYSTEM

(51) International classification :H04W4/00
(31) Priority Document No :201010034016.6
(32) Priority Date :08/01/2010
(33) Name of priority country :China
(86) International Application No :PCT/CN2010/074797
Filing Date :30/06/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)ZTE CORPORATION**
Address of Applicant :ZTE Plaza Keji Road South Hi-Tech Industrial Park Nanshan District Shenzhen Guangdong 518057 China
(72)**Name of Inventor :**
**1)Weihua HE**

(57) Abstract :
The present invention discloses a method for dynamically sharing load in a short message system, and the method includes: classifying real network elements of same type into a virtual network element, wherein the adjacent network element of short message gateway acts as a real network element; according to a load sharing policy, the short message gateway forwarding short messages to a real network element belonging to virtual network element via the virtual network element to dynamically share the load. The present invention discloses a system for sharing load dynamically in a short message system, and in the system, a classifying unit is used to classify real network elements of same type into a virtual network element; a load sharing unit is used by a short message gateway to forward short messages to a real network element belonging to virtual network element via the virtual network element according to load sharing policy to share the load dynamically. With the method and the system of the present invention, the waste of hardware investment due to the hardware upgrade can be avoided.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/04/2012

(21) Application No.3335/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : DOCUMENT ANALYSIS AND ASSOCIATION SYSTEM AND METHOD

| | |
|---|---|
| (51) International classification | :G06F17/27, G06F17/30 |
| (31) Priority Document No | :61/246,121 |
| (32) Priority Date | :26/09/2009 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No<br>Filing Date | :PCT/AU2010/001259<br>:24/09/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)Hamish OGILVY**
Address of Applicant :Brittle Jacks• Lookout Rd Mullion Ck NSW 2800 Australia.
**2)Owen James PRIME**
**3)Phillip Anthony BURNS**
(72)**Name of Inventor :**
**1)Hamish OGILVY**
**2)Owen James PRIME**
**3)Phillip Anthony BURNS**

(57) Abstract :
Methods and systems for indexing a plurality of documents, each document comprising a text portion, the method comprising: a) parsing the text portion of each of the plurality of documents to form a plurality of respective local document indexes each associated with a respective document, and storing the local document index in a database, wherein each local document index comprises a plurality of local text terms contained in the respective document and a local weighting associated with each text term; b) from the plurality of local document indexes, forming a global document index comprising a plurality of global text terms contained in the plurality of documents, and a global weighting associated with each global text term; wherein the global weighting associated with each of the global text terms is determined with respect to a parameter associated with a reference global text term. Also, methods and systems for analysing a text portion and retrieving documents from a database relevant to the text portion. Further, methods and systems for refining the results of a search.

No. of Pages : 61 No. of Claims : 60

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2012

(21) Application No.3215/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : VEHICLE SPEED SENSOR ARRANGEMENT STRUCTURE IN VEHICLE

| | |
|---|---|
| (51) International classification | :B62J99/00, B62K25/20 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :PCT/JP2009/066114<br>:15/09/2009 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)HONDA MOTOR CO. LTD**
Address of Applicant :1-1 Minami-Aoyama 2-chome Minato-ku Tokyo 107-8556 Japan
(72)**Name of Inventor :**
**1)MIMURA Masahide**
**2)NIIZUMA Keiichiro**

(57) Abstract :
In a vehicle in which: power transmission means for transmitting power from a power source to an axle of a rear wheel is accommodated in a swing arm that is swingably supported on a vehicle body frame; a final gear of a reduction gear train constituting a part of the power transmission means is fixed to the axle; and a pickup forming a vehicle speed sensor together with a detected portion that is provided on the final gear is mounted on the swing arm so as to face the detected portion, the detected portion (108) is provided on one of opposite axial end surfaces of the final gear (103) and the pickup (109) is mounted on the swing arm (22A) so as to extend parallel to an axis of the axle (21). Accordingly, it is possible to reduce the size of the swing arm by preventing an increase in a length in a front-and-rear direction of the swing arm even when the pickup is arranged in the swing arm.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/04/2012

(21) Application No.3340/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : USE OF GSTP1•

(51) International classification :A61K38/45, A61P9/04
(31) Priority Document No :09174692.5
(32) Priority Date :30/10/2009
(33) Name of priority country :EPO
(86) International Application No :PCT/AT2010/000408
Filing Date :28/10/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)MEDIZINISCHE UNIVERSITAT WIEN**
Address of Applicant :Spitalgasse 23 A-1090 Vienna Austria.
(72)**Name of Inventor :**
**1)AHARINEJAD Seyedhossein**

(57) Abstract :
The invention discloses the use of glutathione S-transferase P1 (GSTP1) for the prevention or treatment of cardiomyopathies or ischemic heart diseases and for the diagnosis thereof.

No. of Pages : 62 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/04/2012

(21) Application No.3341/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METAL PROFILE MEMBER TO BE USED AS A FORMWORK ASSISTING IN THE CONSTRUCTION OF METAL/CONCRETE FLOORING•

(51) International classification :E04B5/40
(31) Priority Document No :0904590
(32) Priority Date :25/09/2009
(33) Name of priority country :France
(86) International Application No :PCT/FR2010/000635
Filing Date :23/09/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)TUBE PROFIL EQUIPEMENT - ETS JEAN MINISCLOUX**
Address of Applicant :Zone Industrielle - 4 rue du 19 Mars 1962 28630 Le Coudray France
(72)**Name of Inventor :**
**1)MINISCLOUX Francis**

(57) Abstract :
The invention relates to a formwork ribbed metal profile member assisting in the construction of metal/concrete flooring including longitudinal edges (2 3) defining upper (4) and lower (5) areas connected by webs (6) and comprising recessed deformations characterized in that at least a portion of each web comprises a recessed deformation (60) defined by a continuous line which extends parallel to the longitudinal direction of the profile member and the length of which is greater than that of said portion of the web in said longitudinal direction.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2012

(21) Application No.3315/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHOD FOR PREPARATION OF CARBAMIC ACID (R)-1-ARYL-2-TETRAZOLYL-ETHYL ESTER

(51) International classification :C07D257/04
(31) Priority Document No :61/251,867
(32) Priority Date :15/10/2009
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/KR2010/007069
Filing Date :15/10/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)SK BIOPHARMACEUTICALS CO. LTD.**
Address of Applicant :of 99 Seorin-dong Jongro-gu Seoul 110-110 Republic of Korea
(72)**Name of Inventor :**
**1)LIM Sang Chul**
**2)UHM Moo Yong**
**3)LEE Dae Won**
**4)KIM Hui Ho**
**5)LEE Dong Ho**
**6)LEE Hyun Seok**

(57) Abstract :
Disclosed is a method for the preparation of earbamic acid (R)-l -.aryl-2-tetrazolyl- ethyl ester comprising the enantioselective enzyme reduction of the corresponding arylketone and the carbamation of the resultant alcohol.

No. of Pages : 43 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2012

(21) Application No.3316/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHODS OF REFINING AND PRODUCING FUEL FROM NATURAL OIL FEEDSTOCKS

(51) International classification :C07C6/02
(31) Priority Document No :61/250,743
(32) Priority Date :12/10/2009
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2010/052174
Filing Date :11/10/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)Elevance Renewable Sciences Inc.**
Address of Applicant :2501 Davey Road Woodridge Illinois-60517 UNITED STATES OF AMERICA.
(72)**Name of Inventor :**
**1)COHEN Steven A.**
**2)LUETKENS Melvin L.**
**3)BALAKRISHNAN Chander**
**4)SNYDER Robert**

(57) Abstract :
Methods are provided for refining natural oil feedstocks. The methods comprise reacting the feedstock in the presence of a metathesis catalyst under conditions sufficient to form a metathesized product comprising olefins and esters. In certain embodiments, the methods further comprise separating the olefins from the esters in the metathesized product. In certain embodiments, the methods further comprise hydrogenating the olefins under conditions sufficient to form a fuel composition. In certain embodiments, the methods further comprise transestehfying the esters in the presence of an alcohol to form a transesterified product.

No. of Pages : 47 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2012

(21) Application No.3317/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : FUSE END CAP

| | |
|---|---|
| (51) International classification | :H01H85/17, H01H85/175 |
| (31) Priority Document No | :0917804.7 |
| (32) Priority Date | :12/10/2009 |
| (33) Name of priority country | :U.K. |
| (86) International Application No<br>Filing Date | :PCT/GB2010/051709<br>:12/10/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)COOPER TECHNOLOGIES COMPANY**
Address of Applicant :600 Travis Street Suite 5600 Houston Texas-77002 UNITED STATES OF AMERICA.
(72)**Name of Inventor :**
**1)BRUCE Dean**

(57) Abstract :
An electrical fuse end cap (17 18 9) is described comprising an end wall having a concave reinforcement section (173 94). Alternative configurations of the end cap and the concave reinforcement section are discussed. An electrical fuse (1) having an end cap comprising an end wall having a concave reinforcement section is also disclosed.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2012

(21) Application No.3319/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : GAME SYSTEM AND COMPUTER PROGRAM THEREFOR

| | |
|---|---|
| (51) International classification | :A63F9/00, G07F7/08 |
| (31) Priority Document No | :2009-235283 |
| (32) Priority Date | :09/10/2009 |
| (33) Name of priority country | :Japan |
| (86) International Application No<br>Filing Date | :PCT/JP2010/057720<br>:30/04/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)KONAMI DIGITAL ENTERTAINMENT CO. LTD.**
Address of Applicant :9-7-2 Akasaka Minato-ku Tokyo-107 8324 Japan
(72)**Name of Inventor :**
**1)KITAKAZE Yusuke**
**2)KANISAWA Keina**
**3)NAGATOMO Yasuyuki**
**4)MAKINO Koji**
**5)OTAKI Tadanobu**
**6)HOTTA Jiro**
**7)KAMI Masahiko**
**8)TAKAHAMA Hajime**
**9)HARANO Yuuki**
**10)KUBOTA Kazutaka**

(57) Abstract :
There is provided a game system which is capable of differentiating depending the payment method of a play fee. The game system where it is possible to pay a game play fee by selecting one payment method from a plurality of payment methods determines the payment method which the play fee has been paid by (S1) and controls the game in such a way that modification is generated depending on the payment method on the basis of the determination result (S2-S13).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/04/2012

(21) Application No.3326/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : SWELLABLE MATERIALS AND METHODS OF USE•

| | |
|---|---|
| (51) International classification | :C08G77/52, B01J20/18 |
| (31) Priority Document No | :12/560,002 |
| (32) Priority Date | :15/09/2009 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No<br>Filing Date | :PCT/US2010/048670<br>:13/09/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)ABS MATERIALS INC.**
Address of Applicant :770 Spruce Street Wooster Ohio 44691 United States of America.
(72)**Name of Inventor :**
**1)EDMISTON Paul L.**

(57) Abstract :
One aspect of the present invention includes a swellable sol-gel composition including a plurality of interconnected organosilica nanoparticles. Another aspect of the present invention includes a swellable composite including a plurality of interconnected organosilica nanoparticles and a particulate material capable of binding to or reacting with a non-polar or organic sorbate. When dried the sol-gel composition and the swellable composite may be capable of swelling to at least twice their dried volume when placed in contact with a non-polar or organic sorbate.

No. of Pages : 39 No. of Claims : 89

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3250/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : GLASS FRIT AND PROCESS FOR OXIDIZING CARBON MICROPARTICLES USING THE SAME

| | |
|---|---|
| (51) International classification | :C03C8/02, B01D53/94 |
| (31) Priority Document No | :2009-226645 |
| (32) Priority Date | :30/09/2009 |
| (33) Name of priority country | :Japan |
| (86) International Application No | :PCT/JP2010/067320 |
| Filing Date | :28/09/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)SUMITOMO CHEMICAL COMPANY LIMITED**
Address of Applicant :27-1 Shinkawa 2-chome Chuo-ku Tokyo 104-8260 Japan
(72)**Name of Inventor :**
**1)IWASAKI Kentaro**
**2)NEMOTO Akiyoshi**
**3)TOHMA Tetsuro**

(57) Abstract :
The present invention is a glass frit comprising 60 to 80 % by weight of SiO2 9 to 20 % by weight of Al2O3 3 to 12 % by weight of K2O and 3 to 12 % by weight of Na2O expressed on oxide basis.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3251/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A METHOD OF DETECTING PARASITIC MOVEMENTS WHILE ALIGNING AN INERTIAL UNIT

(51) International classification :G01C25/00
(31) Priority Document No :0904947
(32) Priority Date :15/10/2009
(33) Name of priority country :France
(86) International Application No :PCT/EP2010/006245
Filing Date :13/10/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)SAGEM DEFENSE SECURITE**
Address of Applicant :Le Ponant de Paris 27 rue Leblanc F-75015 Paris France
(72)**Name of Inventor :**
**1)ROSELLINI Lionel**
**2)FOLOPPE Yannick**

(57) Abstract :
A method of detecting parasitic movements while aligning an inertial unit comprising a navigation unit connected to accelerometer sensors and gyros disposed in a predetermined frame of reference the method comprising the steps of: integrating the acceleration signal in a frame of reference that is turning in accordance with the measurement of the gyros so as to obtain a raw position signal during a predetermined duration; during this predetermined duration recording the previously calculated position signals; from an error model determining the parameters for modeling the raw position signal; calculating a residual signal between the modeling signal and the raw position signal; and identifying a parasitic movement when the residual signal overshoots a predetermined limit threshold.

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3252/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : ELECTRONIC DEVICE

| | |
|---|---|
| (51) International classification | :H04M1/02, H04M1/03 |
| (31) Priority Document No | :2009-237823 |
| (32) Priority Date | :15/10/2009 |
| (33) Name of priority country | :Japan |
| (86) International Application No<br>Filing Date | :PCT/JP2010/005620<br>:15/09/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)NEC Corporation**
Address of Applicant :7-1 Shiba 5-chome Minato-ku Tokyo 108-8001 Japan
(72)**Name of Inventor :**
**1)SHIOGAMA Naoki**
**2)OSAKO Tomofumi**

(57) Abstract :
An electronic device 100 includes a signal converter 110 and a housing 120. The signal converter has a diaphragm 111 and when one of an acoustic signal and an electric signal is inputted converts the inputted signal into the other signal by the vibrations of the diaphragm. The housing is provided with an internal space SPD. The housing holds the signal converter in the internal space. The housing is provided with an opening 121. The housing has a bulkhead 122 dividing the internal space into plural division spaces including a first division space SPD1 and a second division space SPD2. The diaphragm configures at least part of a bulkhead forming the first division space. The housing is provided with a first communicating path that makes the first division space communicate with the opening and a second conununicating path that makes the second division space communicate with the opening.

No. of Pages : 50 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2012

(21) Application No.3275/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : SYSTEM METHOD AND APPARATUS FOR DYNAMIC MEDIA FILE STREAMING

(51) International classification :H04L29/06
(31) Priority Document No :61/246,846
(32) Priority Date :12/04/2012
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IB2010/002475
Filing Date :29/09/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)NOKIA CORPORATION**
Address of Applicant :Keilalahdentie 4 FIN-02150 Espoo Finland
(72)**Name of Inventor :**
**1)Imed Bouazizi**

(57) Abstract :
A method, apparatus, system and computer program product are provided to facilitate dynamic media streaming. In this regard, a server may receive a transport protocol for at least the portion of the media file indicating that at least a portion of the media file is to be streamed to a content consumption device requesting the media file. In response, a plurality of fragments to be transmitted to the content consumption device may be determined based upon the transfer protocol request and the plurality of fragments may then be transmitted to the content consumption device in response to the transfer protocol request.

No. of Pages : 44 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3231/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : GENES METHODS AND COMPOSITIONS RELATED TO NEUROGENESIS AND ITS MODULATION•

(51) International classification :G01N33/48
(31) Priority Document No :61/246,967
(32) Priority Date :29/09/2009
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2010/050695
Filing Date :29/09/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)DART NEUROSCIENCE (CAYMAN) LTD**
Address of Applicant :7473 Lusk Blvd San Diego CA 92121 United States of America.
(72)**Name of Inventor :**
**1)TULLY Timothy**
**2)CLINE Hollis**

(57) Abstract :
The present disclosure provides methods for investigating neurogenesis, neural cell proliferation and differentiation. Specifically, the present disclosure relates to methods for identifying pharmaceutical agents capable of modulating neurogenesis and neural cell proliferation, methods of screening for genes that modulate neurogenesis and proliferation of neural progenitor cells, and methods of identifying pharmaceutical agents as candidate modulators of neurogenesis and neural proliferation or differentiation. The present disclosure also relates to methods for identifying pharmaceutical agents to characterize and modulate neurogenesis, pharmaceutical agents identified by such methods, methods for treating patients with such pharmaceutical agents, and compositions containing such pharmaceutical agents. Accordingly, the present methods enable elucidation of the mechanisms that control neurogenesis, brain development and function in healthy animals and in disorders of the nervous system. Furthermore, the present methods facilitate the development of compositions to prevent, improve or stabilize impaired neurogenesis in various nervous system disorders, including cognitive disorders.

No. of Pages : 53 No. of Claims : 52

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3232/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : AMIDASE AND USE THEREOF FOR PRODUCING 3-AMINO CARBOXYLIC ACID ESTERS•

| | |
|---|---|
| (51) International classification | :C12N9/80, C12P13/04 |
| (31) Priority Document No | :09171414.7 |
| (32) Priority Date | :25/09/2009 |
| (33) Name of priority country | :EPO |
| (86) International Application No<br>Filing Date | :PCT/EP2010/064098<br>:24/09/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)BASF SE**
Address of Applicant :67056 Ludwigshafen Germany
(72)**Name of Inventor :**
**1)HAUER Bernhard**
**2)FRIEDRICH Thomas**
**3)STRMER Rainer**
**4)SCHNEIDER Nina**
**5)KRAUSER Susanne**
**6)KRAHNERT Wolf-R¼diger**

(57) Abstract :
Process for producing optically active 3-aminocarboxylic acid ester compounds of general Formula I and the ammonium salts thereof in which R1 stands for alkyl alkoxyalkyl alkenyl cycloalkyl heterocycloalkyl aryl or hetaryl and R2 stands for alkyl cycloalkyl or aryl in which an enantiomeric mixture of a simply N-acylated 3-aminocarboxylic acid ester of general formula (I.b) in which R1 and R2 have the meanings given above and R3 stands for hydrogen alkyl cycloalkyl or aryl is submitted to an enantioselective deacylation by adding a polypeptide according to claim 1.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/04/2012

(21) Application No.3400/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : STEREOSCOPIC IMAGE DISPLAY CONTROL APPARATUS AND METHOD OF CONTROLLING OPERATION OF SAME

| | |
|---|---|
| (51) International classification | :H04N13/04, G09G5/00 |
| (31) Priority Document No | :2010-138100 |
| (32) Priority Date | :17/06/2010 |
| (33) Name of priority country | :Japan |
| (86) International Application No<br>Filing Date | :PCT/JP2011/060681<br>:27/04/2011 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)FUJIFILM Corporation**
Address of Applicant :26-30 Nishiazabu 2-chome Minato-ku Tokyo 106-8620 Japan
(72)**Name of Inventor :**
**1)KUSUDA Daisuke**

(57) Abstract :
It is arranged so that a sense of discomfort will not be imparted to an individual observing a stereoscopic image. Cross-point information is recorded on a memory card on which stereoscopic moving image data has also been recorded. When the stereoscop.ic moving image is played back an image representing a subject that is deeper than the cross point represented by the crosspoint information is caused to blur. By causing blurring the observer can be prevented from closely observing an image portion that exhibits too much parallax. Thus a sense of discomfort is not imparted to the observer.

No. of Pages : 62 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/04/2012

(21) Application No.3402/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : HYDROGENATED RUBBER WITH IMPROVED HIGH-TEMPERATURE PROPERTIES

| | |
|---|---|
| (51) International classification | :C08F293/00, C08F8/04 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :PCT/ES2009/070444<br>:16/10/2009 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)DYNASOL ELASTMEROS S.A.**
Address of Applicant :Pº de la Castellana 278-280 E-28046 Madrid Spain
(72)**Name of Inventor :**
**1)FRAGA TRILLO Luisa Mª**
**2)ALONSO GUERRERO Enrique**

(57) Abstract :
The present invention relates to an elastomeric thermoplastic composition characterized in that it has compression resistance at temperatures between 20°C and 100°C comprising hydrogenated styrenebutadiene block copolymers and to the copolymers that form said composition. Furthermore the present invention relates to a product that has been obtained by means of the moulding or extrusion of the composition described above.

No. of Pages : 28 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/12/2011
(21) Application No.9529/CHENP/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : POURING NOZZLE

(51) International classification :B22D41/56
(31) Priority Document No :09 008 614.1
(32) Priority Date :01/07/2009
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2010/003520
Filing Date :11/06/2010
(87) International Publication No :WO 2011/000468 A1
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG**
Address of Applicant :WIENERBERGSTRASSE 11, 1100 VIENNA Austria
(72)**Name of Inventor :**
**1)STEINER, BENNO**
**2)EGLSAER, CHRISTOPH**
**3)JANKO, WILHELM**

(57) Abstract :
The pouring nozzle comprises an elongated, tubular part (10), defining a lower part of a pouring channel (12) with a central longitudinal axis L, a plate-like part (14), provided with a flow-through opening (16) between its surface (18) opposite the tubular part (10) and its section (20) adjacent said tubular part (10). As may be seen from figure 2 the flow-through opening (16) defines an upper part (12o) of the pouring channel (12). The peripheral area (22) between said surface (18) and said section (20) comprises four segments, namely two inclined bearing surfaces (24), opposite to each other, and two planar surface sections (26), arranged opposite and parallel to each other between said two distinct bearing surfaces (24). Each bearing surface (24) is curved with respect to the central longitudinal axis L of the pouring channel (12), as may be best seen from figure 3. The curvature is therefore concave with respect to the central longitudinal axis L and in view of the opposite arrangement of the bearing surfaces (24) the said bearing surfaces arc arranged inversely to each other.

No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3249/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A TRANSPORT MEANS AND A VEHICLE

| | |
|---|---|
| (51) International classification | :B60G3/28, B60G11/08 |
| (31) Priority Document No | :PA 2009 70111 |
| (32) Priority Date | :15/09/2009 |
| (33) Name of priority country | :Denmark |
| (86) International Application No<br>Filing Date | :PCT/DK2010/050233<br>:14/09/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)Ecomove ApS**
Address of Applicant :VBIP Chr. M. ˜stergaards Vej 4 DK-8700 Horsens Denmark
(72)**Name of Inventor :**
**1)WORUP Rasmus**
**2)STEEN Pedersen Mikkel**

(57) Abstract :
A transport means (1) comprising: - at least two wheels (2) - a chassis (3) with a longitudinal axis which is substantially parallel to a direction of travel of the transport means (1) and - at least one suspension system (4) operationally positioned between the chassis (3) and the wheels (2) wherein each wheel (2) has a wheel rotation axis (5) which is sub-stantially horizontal wherein the suspension system (4) includes a connection means (22) that interact releasably with a connection means (23) on the chassis (3) and wherein the suspension system (4) has a first orientation wherein the suspension sys-tem (4) has at least one other orientation which is rotated in relation to the first orien-tation about a suspension rotation axis (6) which is substantially horizontal and per-pendicular to the longitudinal axis of the chassis (3).

No. of Pages : 40 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2012

(21) Application No.3269/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : COMMISSIONING CODED LIGHT SOURCES

(51) International classification :H04B10/10
(31) Priority Document No :09174347.6
(32) Priority Date :28/10/2009
(33) Name of priority country :EPO
(86) International Application No :PCT/IB2010/054776
Filing Date :21/10/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)KONINKLIJKE PHILIPS ELECTRONICS N.V.**
Address of Applicant :GROENEWOUDSEWEG 1 EINDHOVEN 5621 BA NETHERLANDS
(72)**Name of Inventor :**
**1)KNIBBE Engel Johannes**
**2)FERI Lorenzo**
**3)SCHENK Tim Corneel Wilhelmus**

(57) Abstract :
Commissioning a coded light source in a lighting system is accomplished by using a remote controller. When an identification of a light source is successful a control message is sent to that light source to at least partly switch off its light emission. Thus the light contribution of the identified light source is suppressed. Thereby the chance of coded light from an already identified light source colliding with identifiers comprised in coded light emitted by other light sources is reduced. When no more coded light is detectable a sensitivity of the remote controller can be increased until coded light again is detectable. Further light sources can then be identified and commissioned.

No. of Pages : 22 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2012

(21) Application No.3223/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHANOL SYNTHESIS CATALYST

| | |
|---|---|
| (51) International classification | :B01J23/80, C07C1/04 |
| (31) Priority Document No | :2009-244541 |
| (32) Priority Date | :23/10/2009 |
| (33) Name of priority country | :Japan |
| (86) International Application No<br>Filing Date | :PCT/JP2010/067853<br>:12/10/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)Mitsubishi Gas Chemical Company Inc.**
Address of Applicant :5-2 Marunouchi 2-chome Chiyoda-ku Tokyo 100-8324 Japan
(72)**Name of Inventor :**
**1)YAMADA Hajime**
**2)WATANABE Toshiyasu**

(57) Abstract :
A catalyst for methanol synthesis which is improved in an activity a lifetime and a strength is provided. It is a catalyst for methanol synthesis comprising essential components of copper sonc and alumina wherein an atomic ratio of copper/zinc falls in a range of 1 to 3; an alumina content is 3 to 20% by weight; an alumina source is alumina hydrate having a pseudo beohmite structure; and it is molded so that a density is 2.0 to 3.0 g/ml.

No. of Pages : 29 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2012

(21) Application No.3296/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : VEHICLE IN PARTICULAR A TOY ROBOT WITH VIBRATING MOTOR AND TWO ROWS OF LEGS•

| | |
|---|---|
| (51) International classification | :A63H11/02, A63H17/26 |
| (31) Priority Document No | :61/246,023 |
| (32) Priority Date | :25/09/2009 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No<br>Filing Date | :PCT/US2010/050281<br>:24/09/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)INNOVATION FIRST INC.**
Address of Applicant :1519 Int. 30 W. Greenville TX 75402 United States of America.
(72)**Name of Inventor :**
**1)NORMAN David Anthony**
**2)MIMLITCH Robert H.**
**3)CARTER Joel Reagan**
**4)GALLETTI Douglas Michael**

(57) Abstract :
A vehicle in particular a toy robot 100 has a plurality of legs 104 and a vibration drive 202 210. The legs are arranged in two rows of legs. There is a space 404 in particular a V shaped recess between the body 122 of the vehicle and the legs of the vehicle so that the legs can bend inward during a righting rotation and/ or the rows of legs are located at the side of the axis of rotation of the vibration drive.

No. of Pages : 33 No. of Claims : 89

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2012

(21) Application No.3297/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : VEHICLE IN PARTICULAR A SELF-RIGHTING TOY ROBOT WITH VIBRATING MOTOR•

| | |
|---|---|
| (51) International classification | :A63H11/02, A63H17/26 |
| (31) Priority Document No | :61/246,023 |
| (32) Priority Date | :25/09/2009 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No<br>Filing Date | :PCT/US2010/050258<br>:24/09/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)INNOVATION FIRST INC.**
Address of Applicant :1519 Int. 30 W. Greenville TX 75402 United States of America.
(72)**Name of Inventor :**
**1)NORMAN David Anthony**
**2)MIMLITCH Robert H.**
**3)CARTER Joel Reagan**
**4)GALLETTI Douglas Michael**

(57) Abstract :
A vehicle in particular a toy robot 100 has a plurality of legs 104 and a vibration drive 202 210. The vehicle is constructed to rotate and to right itself by the effect of the rotating torque 205 of the vibrating motor. This can be achieved for example by configuring the center of gravity 502 of the body or of the vehicle such that it is positioned close to or on the axis of rotation of the vibrating motor 202 210.

No. of Pages : 30 No. of Claims : 45

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/04/2012

(21) Application No.3339/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : ELECTRONIC AUDIO DEVICE

(51) International classification :G11B20/10
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/US2009/056817
Filing Date :14/09/2009
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)HEWLETT-PACKARD DEVELOPMENT COMPANY L.P.**
Address of Applicant :11445 Compaq Center Drive W. Houston Texas U.S.A.
(72)**Name of Inventor :**
**1)DAVID GOUGH**
**2)CARLOS O. MONTALVO**

(57) Abstract :
There is provided an electronic audio device that is adapted to be connected to a speaker. The electronic device comprises an audio subsystem that is adapted to receive an input audio electrical signal. The electronic device comprises an equalizer that is adapted to receive the input audio electrical signal and to apply a transfer function that comprises a two-stage bandpass function thereto to produce an output audio electrical signal the transfer function being dependent at least in part upon a frequency response of the speaker.

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/04/2012

(21) Application No.3369/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : APPARATUS AND METHOD FOR REPRODUCING AN AUDIO SIGNAL

(51) International classification :G11B20/10
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/US2009/057341
Filing Date :17/09/2009
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)HEWLETT-PACKARD DEVELOPMENT COMPANY L.P.**
Address of Applicant :11445 Compaq Center Drive West Houston TX U.S.A.
(72)**Name of Inventor :**
**1)DAVID GOUGH**
**2)ARTHUR L. DANIEL**
**3)KEVIN L. MASSARO**

(57) Abstract :
There is provided an electronic device having an audio system for reproducing audio signals. An exemplary electronic device has an analog region and a separate and non-overlapping digital region. The electronic device comprises an analog ground plane disposed within the analog region and a digital ground plane disposed within the digital region. Digital circuitry is disposed opposite the digital ground plane wherein digital signals are routed on or over the digital ground plane. Analog circuitry is disposed opposite the analog ground plane wherein analog signals are routed on or over the analog ground plane. At least one audio output channel disposed opposite the analog ground plane.

No. of Pages : 20 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2012

(21) Application No.3320/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHOD FOR OPERATING A CONVERTER CIRCUIT AND APPARATUS

(51) International classification :H02M7/797
(31) Priority Document No :09173094.5
(32) Priority Date :15/10/2009
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2010/065033
Filing Date :07/10/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)ABB Schweiz AG**
Address of Applicant :Brown Boveri Strasse 6 CH-5400 Baden Switzerland
(72)**Name of Inventor :**
**1)WINKELNKEMPER Manfred**
**2)KORN Arthur**

(57) Abstract :
The invention specifies a method for operating a converter circuit the converter circuit having at least two phase modules (11) each phase module (11) having a first and a second subconverter system (1) the subconverter systems (2) being connected in series with one another for each phase module (11) the node between the two subconverter systems (1 2) forming an output connection (A) each subconverter system (1 2) comprising an inductance (L1 L2) and at least one two-pole switching cell (3) which is connected in series with said inductance and each switching cell (3) having two drivable bidirectional power semiconductor switches which are connected in series with a controlled unidirectional current guidance direction and a capacitive energy store which is connected in parallel with the series circuit comprising the power semiconductor switches

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2012

(21) Application No.3321/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : PALLET FOOT A PALLET AND A BOX PROVIDED WITH FEET AND ALSO A METHOD FOR ATTACHING A PALLET FOOT TO A PLATFORM

(51) International classification :B65D19/40
(31) Priority Document No :0950753-4
(32) Priority Date :13/10/2009
(33) Name of priority country :Sweden
(86) International Application No :PCT/SE2010/051101
Filing Date :13/10/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)SPARS–RS PLAST KB**
Address of Applicant :of Sjstranden 19 SE-513 10 Sparsr Sweden
(72)**Name of Inventor :**
**1)NIELSEN Birger**

(57) Abstract :
The following invention relates to a pallet foot of overall hollow shape for being fixed on the back of a platform where the base of the pallet foot has a horizontal flanged edge for meeting the surface of the back of the platform wherein said horizontal flanged edge comprises a plurality of substantially vertically protruding attachment members for penetrating said platform. The application also includes a pallet and a box provide with feet and also a method for attaching a pallet foot to a platform.

No. of Pages : 28 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2012

(21) Application No.3323/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : A SYSTEM AND METHOD OF MODELING AND MONITORING AN ENERGY LOAD

| | |
|---|---|
| (51) International classification | :F24F11/00, G06F1/32 |
| (31) Priority Document No | :12/561,024 |
| (32) Priority Date | :16/09/2009 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No<br>Filing Date | :PCT/US2010/048906<br>:15/09/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)SCHNEIDER ELECTRIC USA INC.**
Address of Applicant :1415 S. Roselle Road Palatine Illinois 60067 United States of America.
(72)**Name of Inventor :**
**1)GRAY Anthony R.**
**2)HOPE Shaun**

(57) Abstract :
A system, method, and computer program product for predicting operation for physical systems with distinct operating modes uses observable qualities of the system to predict other qualities of the system. Independent variables including temperature or production volume are observed to determine the degree to which a dependent modeled variable, including energy load, is influenced. Partition variables representing operating conditions of the dependent variables are defined as discrete values. Reference datasets with coincident values of the dependent variable, independent variable, and partition variables are received, and models are created for each discrete value of the partition variables in the reference dataset. Each model is populated with the values of the dependent variable and the independent variable. The dependent variable is modeled as a function of the independent variable. Model accuracy is evaluated by processing new input data to generate output data that includes values of the coincident dependent variable, the independent variable, and the partition variable from the input dataset.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2012
(21) Application No.3292/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : HANDOVER METHOD AND APPARATUS FOR MOBILE STATION

(51) International classification :H04W36/32
(31) Priority Document No :200910176125.9
(32) Priority Date :21/09/2009
(33) Name of priority country :China
(86) International Application No :PCT/CN2010/072698
Filing Date :12/05/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)ZTE CORPORATION**
Address of Applicant :ZTE Plaza Keji Road South Hi-Tech Industrial Park Nanshan District Shenzhen Guangdong Province 518057 P.R. China
(72)**Name of Inventor :**
**1)HUI LIU**
**2)JIANFEI BAO**

(57) Abstract :
The present invention discloses a handover method and apparatus for a mobile station which method comprises: judging whether a mobile station is leaving away from an edge radio frequency unit of a serving cell according to frequency deviation information of the radio frequency unit (S302); if the judgment result is yes then judging a movement direction of the mobile station according to the relationship between a new radio frequency unit which receives radio frequency signals of the mobile station and the edge radio frequency unit of the serving cell (S304); and if the mobile station moves toward an neighbor cell of the serving cell and the mobile station has entered an edge radio frequency unit of the neighbor cell then hand over the mobile station to the neighbor cell (S306).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3260/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHODS AND APPARATUS FOR ENHANCED COEXISTENCE ALGORITHMS IN WIRELESS SYSTEM

| | |
|---|---|
| (51) International classification | :H04W72/12, H04B15/00 |
| (31) Priority Document No | :12/573,755 |
| (32) Priority Date | :05/10/2009 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No<br>Filing Date | :PCT/US2010/051362<br>:04/10/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)Apple Inc.**
Address of Applicant :1 Infinite Loop M/S 36-2-PAT Cupertino CA 95014 UNITED STATES OF AMERICA.
(72)**Name of Inventor :**
**1)TOLENTINO Jaime**
**2)CHEN Camille**
**3)GILES Michael Jason**
**4)LE Huy**
**5)THOMASON Gary**
**6)HARDELL David A.**

(57) Abstract :
Methods and apparatus for mitigating the effects of interference between multiple air interfaces located on an electronic device. In one embodiment the air interfaces include a WLAN interface and PAN (e.g. Bluetooth) interface and information such as Receiver Signal Strength Index (RSSI) as well as system noise level information are used in order to intelligently execute interference mitigation methodologies including the selective application of modified frequency selection variation of transmitter power and/or change of operating mode (e.g. from multiple- in multiple-out (MIMO) to single-in single-out (SISO)) so as to reduce isolation requirements between the interfaces. These methods and apparatus are particularly well suited to use cases where the WLAN interface is operating with high data transmission rates. Business methods associated with the foregoing technology are also described.

No. of Pages : 46 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3256/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHOD AND SYSTEM ENABLING 3D PRINTING OF THREE-DIMENSIONAL OBJECT MODELS

(51) International classification :G06T15/00
(31) Priority Document No :12/575,919
(32) Priority Date :08/10/2009
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IL2010/000810
Filing Date :05/10/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)3D M.T.P. LTD.**
Address of Applicant :94 Yehuda Halevi Street 65275 Tel-Aviv Israel
(72)**Name of Inventor :**
**1)ILAN SIDI**
**2)GUY MORI**

(57) Abstract :
A method for generating a representation of an architectural structure which is printable by a 3D printer the method comprising providing an architectural model including polyhedrons of an architectural structure; Minkowski summing at least one of said polyhedrons and another shape whose size represents the printer™s capabilities; and using the unionized output polyhedron to generate a representation of the architectural structure which is printable by the 3D printer.

No. of Pages : 62 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3257/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : APPARATUS AND METHOD FOR PROVIDING HARQ FEEDBACK IN A MULTI-CARRIER WIRELESS COMMUNICATION SYSTEM

| | |
|---|---|
| (51) International classification | :H04L1/16, H04L1/18 |
| (31) Priority Document No | :61/248,666 |
| (32) Priority Date | :05/10/2009 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No | :PCT/US2010/051535 |
| Filing Date | :05/10/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)QUALCOMM Incorporated**
Address of Applicant :Attn: International IP Administration 5775 Morehouse Drive San Diego California 92121-1714 USA.
(72)**Name of Inventor :**
**1)SAMBHWANI Sharad Deepak**

(57) Abstract :
A method and apparatus provide hybrid automatic repeat request (HARQ) feedback corresponding to the status of multiple downlink carriers with or without MIMO being configured. Here for at least some configurations with respect to the selection of HARQ feedback symbols the downlink carriers are grouped into groups of one or two carriers such that HARQ feedback symbol code books that were previously implemented in conventional HSDPA or DC-HSDPA systems may be utilized. That is after encoding a data stream HARQ feedback symbols selected from a plurality of code books configured for groups of one or two of the downlink carriers are utilized to modulate an uplink channel. The modulation or channelization may be accomplished with dual channelization codes or a single channelization code with a reduced spreading factor to insert two symbols into a single time slot.

No. of Pages : 39 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012
(21) Application No.3258/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHOD AND APPARATUS FOR CONVEYING RESOURCE ASSIGNMENT FOR MULTIPLE SYSTEM BANDWIDTHS

(51) International classification :H04W72/12, H04W72/04
(31) Priority Document No :61/252,136
(32) Priority Date :15/10/2009
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2010/052965
Filing Date :15/10/2010
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)QUALCOMM Incorporated**
Address of Applicant :Attn: International IP Administration 5775 Morehouse Drive San Diego California 92121-1714 USA.
(72)**Name of Inventor :**
**1)CHEN Wanshi**
**2)MONTOJO Juan**

(57) Abstract :
Techniques for supporting communication with user equipment (UEs) of different types on a plurality of system bandwidths are described. UEs of each type may operate on one or more available system bandwidths. Resources assigned to a UE may be conveyed by a resource allocation field of a control message sent to the UE. The resource allocation field may have different configurations (e.g. different sizes and/or interpretations) for different system bandwidths. In one design the resource allocation field and the control message sent to the UE have different sizes for the plurality of system bandwidths. A base station may determine the size of the resource allocation field based on a system bandwidth selected for the UE. In another design the resource allocation field may have a same size but different interpretations (e.g. different resource mappings) for the plurality of system bandwidths.

No. of Pages : 56 No. of Claims : 59

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2012

(21) Application No.3259/CHENP/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : COORDINATED MULTI-POINT (COMP) NETWORK AND PROTOCOL ARCHITECTURE

| | |
|---|---|
| (51) International classification | :H04W72/04, H04B7/04 |
| (31) Priority Document No | :61/255,040 |
| (32) Priority Date | :26/10/2009 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No<br>Filing Date | :PCT/US2010/054162<br>:26/10/2010 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)QUALCOMM Incorporated**
Address of Applicant :Attn: International IP Administration 5775 Morehouse Drive San Diego California 92121-1714 USA.
(72)**Name of Inventor :**
**1)BARANY Peter A.**
**2)GOROKHOV Alexei Y.**
**3)JAIN Vikas**
**4)LUO Tao**
**5)WEI Yongbin**

(57) Abstract :
Aspects of the present disclosure relate generally to wireless communication systems and more particularly to a coordinated multi-point network and protocol architecture. One aspect discloses a method of wireless communication and includes receiving a measurement report from a user equipment (UE). Coordinated multi point (CoMP) control messages are transmitted from a first eNodeB to a second eNodeB at a medium access control (MAC) layer in response to the received measurement report.

No. of Pages : 63 No. of Claims : 24

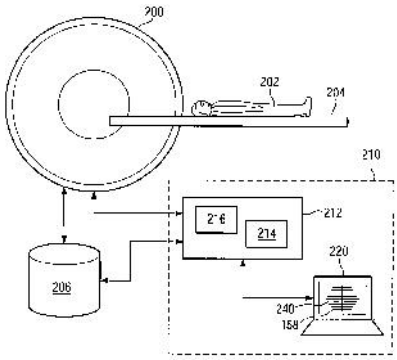
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/01/2012

(21) Application No.48/KOL/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHOD AND SYSTEM FOR DETECTING ABNORMALITY IN A RIB CAGE

| | | |
|---|---|---|
| (51) International classification | :A61B5/103 | (71)**Name of Applicant :** |
| (31) Priority Document No | :NA | **1)SIEMENS AKTIENGESELLSCHAFT** |
| (32) Priority Date | :NA | Address of Applicant :WITTELSBACHERPLATZ 2 80333 MÜNCHEN GERMANY |
| (33) Name of priority country | :NA | (72)**Name of Inventor :** |
| (86) International Application No | :NA | **1)MURALITHARAN GNANAMANI** |
| Filing Date | :NA | |
| (87) International Publication No | : NA | |
| (61) Patent of Addition to Application Number | :NA | |
| Filing Date | :NA | |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :
A method (50) for determining an abnormality in a rib cage is presented. The method includes accessing (52) a medical image of a subject, calculating (54) a centerline for each of the ribs from the medical image, calculating (56) a center of gravity for each rib, determining (58) an average of the center of gravity of the ribs to calculate a common center of gravity for each of the ribs, selecting (60) a first point and a second point on the center line of each of the ribs, comparing (62) a left side of each rib with a right side of the rib by calculating a first angle formed by the second point of the left rib and the center of gravity and a second angle formed by the second point of the right rib and the center of gravity, displaying (64) an image depicting a planar view of the curved structure of the ribs, wherein the abnormality in the rib is indicated based upon the difference between the first angle and the second angle.




No. of Pages : 23 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2013

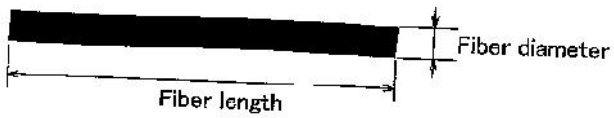
(21) Application No.48/KOL/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : MASTERBATCH, RUBBER COMPOSITION, AND PNEUMATIC TIRE

| | |
|---|---|
| (51) International classification | :B60C1/00 |
| (31) Priority Document No | :2012-006490 |
| (32) Priority Date | :16/01/2012 |
| (33) Name of priority country | :Japan |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)SUMITOMO RUBBER INDUSTRIES, LTD.**
Address of Applicant :6-9, WAKINOHAMA-CHO 3-CHOME, CHUO-KU, KOBE-SHI, HYOGO 651-0072 JAPAN
(72)**Name of Inventor :**
**1)MIYAZAKI TATSUYA**
**2)MIYAZAKI SUMIKO**

(57) Abstract :
The present invention aims to provide a masterbatch which enables microfibrillated plant fibers to be well dispersed in a rubber composition so that they can provide reinforcement equal to or greater than that by conventional fillers; a rubber composition containing the masterbatch; and a pneumatic tire produced using the rubber composition. The present invention relates to a masterbatch containing a modified natural rubber with a phosphorus content of 200 ppm or less, and microfibrillated plant fibers. Preferably, the microfibrillated plant fibers in a primary form have an average fiber diameter of 4 nm to 10 μm and an average fiber length of 100 nm to 200 μm.




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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/12/2012

(21) Application No.1423/KOL/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : ANTENNA CIRCUIT FOR NFC DEVICE

(51) International classification :H01Q1/24
(31) Priority Document No :FR12 50502
(32) Priority Date :18/01/2012
(33) Name of priority country :France
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)INSIDE SECURE**
Address of Applicant :41 PARC CLUB DU GOLF 13856 AIX-EN-PROVENCE CEDEX 3 FRANCE
(72)**Name of Inventor :**
**1)CHARRAT BRUNO**

(57) Abstract :
The invention relates to an antenna circuit for near-field communications comprising a planar active winding (L1), connected between a first (A1) and a second (A2) access terminal; an auxiliary winding (L2) coplanar with the active winding and connected by a first end to the first access terminal (A1); and a tuning capacitor (C) connected to the second end of the auxiliary winding (L2). The turns of the active and auxiliary windings are interleaved.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/01/2013

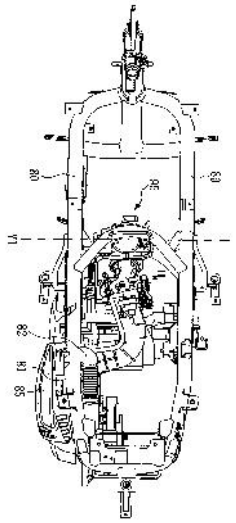
(21) Application No.18/KOL/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : IMPROVEMENT ON ARRANGEMENT OF INTAKE DEVICE

(51) International classification :F02M35/10
(31) Priority Document No :101201157
(32) Priority Date :18/01/2012
(33) Name of priority country :Taiwan
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)SANYANG INDUSTRY CO. LTD.**
Address of Applicant :184 KENG TZU KOU, SHANG KENG VILLAGE, HSIN FONG SHIANG, HSINCHU, R.O.C. Taiwan
(72)**Name of Inventor :**
**1)SHIH TING-WEI**
**2)WANG YU-REN**
**3)YEH WEI-CHIH**
**4)YU JUNG-HUA**

(57) Abstract :
An improvement on arrangement of intake device is arranged in a motorcycle equipped with an engine, a mainframe and a transmission device. An intake device includes an intake port and an intake manifold communicated with an air cleaner. The transmission device is communicated with an intake pipe having an opening toward the front of the motorcycle. A front guard is fixedly arranged on the mainframe adjacent to the opening of the intake pipe. The intake port of the intake device is located at a region formed by the mainframe, the front guard, and the intake pipe. Therefore, it is possible to prevent the air cleaner from sucking in hot air. That is to say, the engine can reduce the possibility of knocking incurred by sucking in hot air, and as such, engine performance can be improved and that life of use of engine piston can be prolonged.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/10/2012

(21) Application No.1248/KOL/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : CLOSED -LOOP CLUTCH CONTROL USING A FILTERED PISTON POSITION SIGNAL

(51) International classification :B60W30/18
(31) Priority Document No :13/352701
(32) Priority Date :18/01/2012
(33) Name of priority country :U.S.A.
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)GM GLOBAL TECHNOLOGY OPERATIONS LLC**
Address of Applicant :300 GM RENAISSANCE CENTER, DETROIT, MICHIGAN 48265-3000, U.S.A.
(72)**Name of Inventor :**
**1)MATTHEW D. WHITTON**
**2)ROBERT L. WILLIAMS**
**3)STEVEN P. MOORMAN**
**4)CHEOL W. KIM**

(57) Abstract :
A vehicle includes an engine, transmission, and controller. The transmission includes a clutch pack, a clutch piston, and a position sensor. The sensor measures a changing magnetic field with respect to the piston, and encodes the measured magnetic field as a raw position signal. The controller receives the raw position signal and processes the raw position signal through a signal processing module to generate a filtered signal attenuating signal noise in the position signal. The controller determines a commanded position of the piston, and calculates separate proportional (P), derivative (D), and integral (I) control terms using the commanded position and filtered position signal. The controller also calculates a feed-forward control term using the commanded position, and a required flow rate for actuating the clutch pack as a function of the PID terms and the feed-forward commanded position term. The controller actuates the clutch pack using the commanded flow rate.

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

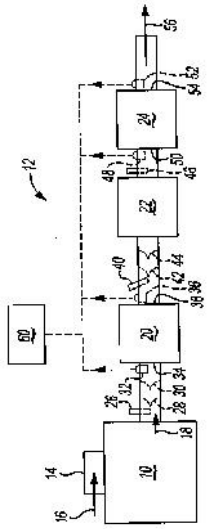
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/10/2012
(21) Application No.1250/KOL/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : METHOD OF DETECTING A THERMAL EVENT IN AN EXHAUST SYSTEM BASED ON TEMPERATURE GRADIENTS AND EXHAUST SYSTEM CONFIGURED FOR SAME

(51) International classification :B01D46/0086
(31) Priority Document No :13/352718
(32) Priority Date :18/01/2012
(33) Name of priority country :U.S.A.
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)GM GLOBAL TECHNOLOGY OPERATIONS LLC**
Address of Applicant :300 GM RENAISSANCE CENTER, DETROIT, MICHIGAN 48265-3000, U.S.A.
(72)**Name of Inventor :**
**1)BENJAMIN RADKE**
**2)VINCENT J. TYLUTKI**
**3)JANEAN E. KOWALKOWSKI**

(57) Abstract :
A method of detecting a thermal event is provided that relies not only on monitored exhaust temperatures, but also on temperature gradients propagating in the direction of exhaust flow. Specifically, the method of detecting a thermal event in a vehicle exhaust system includes monitoring at least one operating parameter at multiple locations spaced in exhaust flow of the vehicle exhaust system. The method then includes initiating a protective action if the monitoring indicates that at least one respective predetermined temperature requirement and a respective predetermined temperature gradient requirement are exceeded at two of the multiple temperature sensor locations within a predetermined time period.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/01/2013

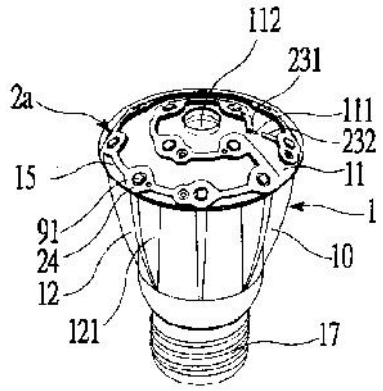
(21) Application No.22/KOL/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : LED 3D CURVED LEAD FRAME OF ILLUMINATION DEVICE

(51) International classification :F21V13/08
(31) Priority Document No :101101175
(32) Priority Date :12/01/2012
(33) Name of priority country :Taiwan
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)LONGWIDE TECHNOLOGY INC.**
Address of Applicant :NO. 62-43, DONGRUN ROAD, PULI TOWNSHIP, NANTOU COUNTY 545, R.O.C. Taiwan
(72)**Name of Inventor :**
**1)CHIEN, HUAN-JAN**
**2)TSAI, TSUNG-HONG**

(57) Abstract :
This invention relates to separately produce the complicated 3D curved structure and LED 3D curved lead frame to meet the demand of the complicated curved surface illumination of illumination device. First of all, draw illumination circuit with banded structure of multilayer lead frame on 3D illumination complicated curved surface, then spread these curved circuit into plane circuit, dismantle the banded structure of multilayer lead frame of circuit into circuit pattern of single layers, use process the prototype of circuit patterns of each layer with conductive metal charge tape, and produce the prototype of banded structure of multilayer conductive frame through repeated accumulation of multi-disc charge tapes, and install the LED chip on the installation seat to get LED flat lead frame, then flex the conductive metal into LED 3D curved lead frame with jig and paste on the luminous curved surface, and package them together with transparent material, for example, curved decorative lighting, spherical display advertising board, etc.; this method offers more flexibility for structure and aesthetic design, and fully utilizes the high heat dissipation capacity of main body of metal part.




No. of Pages : 55 No. of Claims : 34

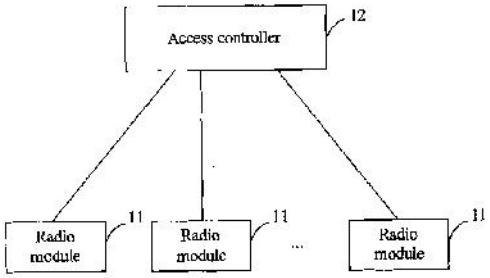
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/01/2013
(21) Application No.30/KOL/2013 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : WIRELESS LOCAL AREA NETWORK AND METHOD FOR COMMUNICATING BY USING WIRELESS LOCAL AREA NETWORK

(51) International classification :H04B7/24
(31) Priority Document No :201210012675.9
(32) Priority Date :16/01/2012
(33) Name of priority country :China
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)HUAWEI TECHNOLOGIES CO., LTD.**
Address of Applicant :HUAWEI ADMINISTRATION BUILDING, BANTIAN, LONGGANG DISTRICT, SHENZHEN, GUANGDONG 518129, P.R. CHINA
(72)**Name of Inventor :**
**1)YANG, JIANRUI**
**2)LIU, FANG**
**3)ZHANG, SHUSHENG**
**4)DIAO, RUIQIANG**

(57) Abstract :
The present invention provides a wireless local area network WLAN and a method for communicating by using the WLAN, which includes at least one radio module and an access controller. The radio module converts a first air interface wireless signal from a station into a first baseband signal, and bears the first baseband signal on an Ethernet and sends the first baseband signal to the access controller. The access controller processes the first baseband signal to generate first service data, and forwards the first service data. The access controller further receives second service data, processes the second service data to generate a second baseband signal, and bears the second baseband signal on the Ethernet and sends the second baseband signal to the at least one radio module. The present invention can increase the efficiency and utilization rate of a spectrum.




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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/01/2012

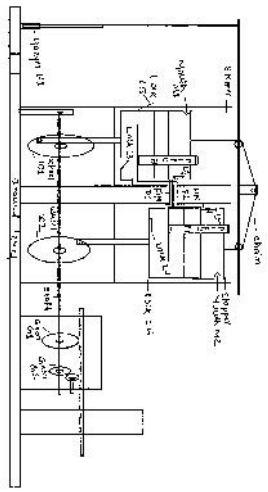
(21) Application No.42/KOL/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : GRAVITY WHEEL

| | |
|---|---|
| (51) International classification | :B65G 39/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
**1)MANISH KU AGARWAL**
Address of Applicant :AT/PO. LAPANGA, DISTT. SAMBALPUR, ORISSA, PIN-768232 Orissa India
(72)**Name of Inventor :**
**1)MANISH KU AGARWAL**

(57) Abstract :
The gravity wheel as the name itself indicate the production of energy with the help of water and wheel and gravity. The technology invented here was purely new and dynamic and can be used in our day to day life. The weight full of water fall from a height can create some kinetic energy and that energy can be used to lift the empty weight and the different between the falling energy and the energy consumed for lifting can be used to move the wheels which in turn move the turbine of the generator which can create electricity. As the wheel may stop for a while due to interchange of water then two gravity wheels can be used to continue the movement of generator. The technology invented here was purely eco friendly and can be used in any part of world.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/12/2012

(21) Application No.1447/KOL/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : WLAN-ENABLED FLUSH-MOUNTED ELECTRICAL INSTALLATION DEVICE

(51) International classification :H02G3/14
(31) Priority Document No :10 2012 000 380.3
(32) Priority Date :12/01/2012
(33) Name of priority country :Germany
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)ABB AG**
Address of Applicant :KALLSTADTER STR. 1, 68309 MANNHEIM, GERMANY
(72)**Name of Inventor :**
**1)OLAF QUITTMANN**
**2)SASCHA DEHLEN**
**3)MANFRED SCHÄDER**

(57) Abstract :
A WLAN-enabled flush-mounted electrical installation device (1) having a flush- mounted device base (3) including a voltage and load connecting block (7) for connection to a 230 V AC network (24) and having an electrical load (25) to be actuated and having a cover including an operating part (13) for manual actuation of the electrical load (25) is proposed, • wherein an actuating/processing/storage device (12), a WLAN wireless transmitter/receiver (14) and a wireless antenna (15) are integrated in the central plate (11), • wherein an actuator (6) for actuating the electrical load (25) and a power supply (8) for supplying energy to the actuating/processing/storage device (12) and to the WLAN wireless transmitter/receiver (14) are integrated in the flush-mounted device base (3), • wherein the flush-mounted device base (3) and the actuating/processing/storage device (12) are connected to one another by means of an electrical connecting device (9), • and wherein the pre-requisite for a remote-controlled actuation of the electrical load (25) by means of a smart phone / smart pad / tablet PC (27) with installed application is met by a wireless connection to the WLAN wireless transmitter/receiver (14).

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

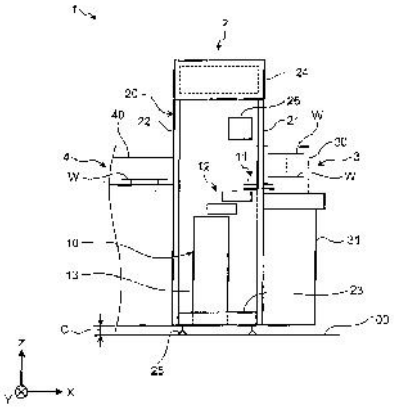
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/09/2012

(21) Application No.1123/KOL/2012 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : TRANSFER SYSTEM

| | | |
|---|---|---|
| (51) International classification | :F24D19/10 | (71)**Name of Applicant :** |
| (31) Priority Document No | :2012-005332 | **1)KABUSHIKI KAISHA YASKAWA DENKI** |
| (32) Priority Date | :13/01/2012 | Address of Applicant :2-1, KUROSAKI-SHIROISHI, YAHATANISHI-KU, KITAKYUSHU-SHI, FUKUOKA 806-0004 JAPAN |
| (33) Name of priority country | :Japan | (72)**Name of Inventor :** |
| (86) International Application No | :NA | **1)ANDO RYUJI** |
| Filing Date | :NA | **2)HINO KAZUNORI** |
| (87) International Publication No | : NA | **3)KATSUDA SHINICHI** |
| (61) Patent of Addition to Application Number | :NA | |
| Filing Date | :NA | |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :
A transfer system according to an embodiment includes a robot and a determination unit. The robot includes robot hands that hold a workpiece in a thin plate shape and that are located at different heights. The determination unit determines the robot hands that hold the workpiece based on a combination of temperature of the workpiece to be held by each of the robot hands.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/07/2011

(21) Application No.1005/KOL/2011 A
(43) Publication Date : 19/07/2013

(54) Title of the invention : AN INTEGRATED UMTS WIRELESS LAN SYSTEM AND METHOD FOR LOCATION MANAGEMENT

(51) International classification :G06K9/18
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)SANJAY KUMAR BISWASH**
Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, INDIAN SCHOOL OF MINES, DHANBAD-826004 JHARKHAND INDIA
**2)DR. CHIRANJEEV KUMAR**
(72)**Name of Inventor :**
**1)SANJAY KUMAR BISWASH**
**2)DR. CHIRANJEEV KUMAR**

(57) Abstract :
In this invention, we have introduced a multi home agent and pointer-based location management scheme. Multi home agent preserves the location information for different wireless technologies (Universal Mobile Telecommunication system, Wireless Local Area Networks) and maintains a cache for the location information of mobile host. In addition, an index based call delivery system has been invented. The performance comparisons and numerical analysis is helpful to find out the efficiency and effectiveness of the invented system, with respect to existing location management techniques (single registration scheme, and dual home agent scheme). It has been observed that the registration cost, call setup delay, registration delay and overhead at mobile switching center reduce in the invented MHA-PB scheme.

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

# PUBLICATION U/R 84(3) IN RESPECT OF APPLICATION FOR RESTORATION OF PATENTS (MUMBAI)

NOTICE IS HEREBY GIVEN THAT ANY PERSON INTERESTED IN OPPOSING THE FOLLOWING APPLICATION FOR RESTORATION OF PATENTS UNDER SECTION 60 OF THE PATENT ACT, 1970, MAY AT ANY TIME WITHIN 2 MONTHS FROM THE DATE OF PUBLICATION OF THIS NOTICE, GIVE NOTICE TO THE CONTROLLER OF PATENTS AT THE APPROPRIATE OFFICE ON THE PRESCRIBED FORM – 14 UNDER RULE 85 OF THE PATENTS (AMENDEMENT) RULES, 2006

| SR. NO | PATENT NOS. | APPLICANTS | TITLE | DATE OF CESSATION | APPROPRIATE OFFICE |
|---|---|---|---|---|---|
| 1 | 243910 | PRS SOLUTIONS PRIVATE LIMITED | Fire-retardant, self fusible, water repellent,anti tracking high temperature withstanding silicone elastomer tape for electrical insulation and the process of manufacturing the same | 27/10/2011 | Mumbai |
| 2 | 249923 | TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) | Frequency shifting of WCDMA carriers for variable carrier separation | 23/02/2012 | Mumbai |
| 3 | 245009 | ARROW COATED PRODUCTS LIMITED | A process of preparing a self adhesive material | 28/03/2011 | Mumbai |
| 4 | 206334 | DEVARAJAN PADMA VENKITA CHALAM | A process for preparing bioadhesive polymer compositions for transmucosal drug delivery systems with enhanced bioadhesion | 20/10/2011 | Mumbai |
| 5 | 246288 | ENZON PHARMACEUTICALS, INC | Heterobifunctional polymeric bioconjugates | 12/03/2012 | Mumbai |
| 6 | 247743 | GALAXY PHARMACEUTICALS LIMITED | Water soluble anti-dandruff compounds and compositions thereof | 14/02/2012 | Mumbai |
| 7 | 234047 | FUTURA POLYESTERS LIMITED | Oxygen scavenging composition | 26/09/2012 | Mumbai |

| | | | | | |
|---|---|---|---|---|---|
| 8 | 221767 | RIETER INGOSTADT GMBH | Compression bar and spinning preparation machine with a compression bar | 24/05/2012 | Mumbai |
| 9 | 231103 | EXCEL INDUSTRIES LIMITED | An apparatus and process for conversion of biomass/waste into bio-organic soil enricher & conditioner and fuel | 11/07/2012 | Mumbai |
| 10 | 249183 | SANJEEV KHANDELWAL | A topical semisolid silver nanoparticle dispersion formulation | 10/01/2012 | Mumbai |
| 11 | 245571 | MANKAD KARIMBHAI VALIBHAI | Hollow, least air resistance bullet | 13/09/2011 | Mumbai |
| 12 | 249158 | KLAPTCHUK, PETER | Apparatus and method for processing waste | 05/01/2012 | Mumbai |
| 13 | 252815 | STERLITE TECHNOLOGIES LIMITED | Optical fiber having desired waveguide parameters and method for producing the same | 31/08/2012 | Mumbai |
| 14 | 237297 | ABBOTT LABORATORIES | Nutritional compositions for treating or preventing osteoporosis | 15/03/2010 | Mumbai |
| 15 | 197730 | LARSEN & TOUBRO LIMITED | A single step method for reducing benzene content of gasoline below 1% by weight for particular use in automobiles | 25/09/2011 | Mumbai |
| 16 | 250082 | (1) TASGAONKAR GHANASHYAM SHANKAR (2) TASGAONKAR PRABHA GHANASHYAM | A fuel efficient pressure cooker | 05/03/2012 | Mumbai |
| 17 | 190668 | TDW DELAWARE INC. | A multi-lip cup and a pipeline pig incorporating the same | 10/07/2011 | Mumbai |
| 18 | 220232 | VANAZ ENGINEERS LTD | An improved multifunction valve assembly | 21/06/2012 | Mumbai |

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| Serial Number | Patent Number | Application Number | Date of Application | Date of Priority | Title of Invention | Name of Patentee | Date of Publication of Abstract u/s 11(A) | Appropriate Office |
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| 1 | 186793 | 524/DEL/1993 | 21/05/1993 | | A DEVICE FOR CLEANING AND RECIRCULATION OF GRANULAR SOLIDS | BHARAT HEAVY ELECTRICAL LIMITED | 10/11/2001 | DELHI |
| 2 | 190780 | 2174/DEL/1998 | 24/07/1998 | 25/07/1997 | NUCLEOTIDE ANALOG COMPOSITION AND SYNTHESIS METHOD | GILEAD SCIENCS INC | 10/11/2001 | DELHI |
| 3 | 256654 | 3077/DELNP/2007 | 04/11/2005 | 04/11/2004 | A PLANAR OPTICAL PLATFORM FOR GENERATING RAMAN SIGNAL | RENISHAW DIAGNOSTICS LTD | 31/08/2007 | DELHI |
| 4 | 256655 | 4974/DELNP/2006 | 09/03/2005 | 18/03/2004 | EXTRUSION -STABLE POLY-UNSATURATED FATTY-ACID COMPOSITONS FOR FOOD PRODUCTS | DSM IP ASSETS B.V. | 17/08/2007 | DELHI |
| 5 | 256660 | 8781/DELNP/2007 | 15/05/2006 | 13/05/2005 | PHARMACEUTICAL COMPOSITION CONTAINING AN ANTI PARASITIC AGENT AND ACTIVE SUBSTANCE SELECTED FROM THYMOL, IUGENOL, AND CARVACROL, AND MIXTURES THEREOF | ADVANCED SCIENTIFIC DEVELOPEMENTS | 14/12/2007 | DELHI |
| 6 | 256662 | 7471/DELNP/2006 | 10/06/2005 | 01/07/2004 | A COINJECTION MOLDING HOT RUNNER ASSEMBLY, A COINJECTION MOLDING MACHINE AND A METHOD OF COOLING A COINJECTION MOLD SHOOTING POT CYLINDER | HUSKY INJECTION MOLDING SYSTEMS LTD | 17/08/2007 | DELHI |
| 7 | 256664 | 7108/DELNP/2006 | 18/05/2005 | 17/06/2004 | ALKYL SUBSTITUTED INDOLOQUINOXALINES | OXYPHARMA AB | 24/08/2007 | DELHI |
| 8 | 256668 | 1156/DELNP/2003 | 25/01/2002 | 25/01/2001 | ELECTRODE GUIDE FOR SPARK-EROSION MACHINES | CONTINENTAL AUTOMOTIVE GmbH | 03/08/2007 | DELHI |
| 9 | 256669 | 887/DEL/2005 | 06/04/2005 | 21/04/2004 | STABILIZED POWER SUPPLY | GE MEDICAL SYSTEMS GLOBAL TECHNOLOGY COMPANY LLC | 12/01/2007 | DELHI |
| 10 | 256670 | 1355/DELNP/2004 | 29/11/2002 | 30/11/2001 | A FORMATION OF FORMING A RECONSTITUTED LEATHER SHEET MATERIAL FROM A MIXTURE OF FIBRES | E-LEATHER LIMITED | 08/01/2010 | DELHI |

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| 12 | 256681 | 1304/DELNP/2004 | 06/11/2002 | 09/11/2001 | PLANT GROWTH MEDIA AND PROCESSES FOR PRODUCTION THEREOF AND COMPOSITIONS FOR USE THEREIN | OMS INVESTMENTS, INC. | 16/03/2007 | DELHI |
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| 14 | 256683 | 1993/DELNP/2003 | 11/07/2002 | 13/07/2001 | A PHARMACEUTICAL COMPOSITION HAVING PEPTIDE | CMS Peptides Patent Holding Company Limited | 16/12/2005 | DELHI |
| 15 | 256684 | 4877/DELNP/2006 | 03/02/2005 | 03/02/2004 | METHOD TO MANUFACTURE 1,3-DIOXOLANE NUCLEOSIDES | EMORY UNIVERSITY | 24/08/2007 | DELHI |
| 16 | 256691 | 6127/DELNP/2007 | 04/12/2002 | 04/12/2001 | A PROCESS FOR PREPARING INTERMEDIATE FOR BIOTIN | MITSUBISHI TANABE PHARMA CORPORATION. | 17/08/2007 | DELHI |
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| Serial Number | Patent Number | Application Number | Date of Application | Date of Priority | Title of Invention | Name of Patentee | Date of Publication of Abstract u/s 11(A) | Appropriate Office |
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| 2 | 256671 | 1167/MUM/2005 | 21/09/2005 | 24/09/2005 | PATTERN IDENTIFICATION AND BIT LEVEL MEASUREMNTS ON REPETITIVE PATTERNS | TEKTRONIX, INC. | 12/10/2007 | MUMBAI |
| 3 | 256673 | 1214/MUM/2006 | 31/07/2006 | | SUBSTITUTED 4,5-DIHYDRO-1H-PYRAZOLE DERIVATIVES AS CANNABINOID MODULATORS | CADILA HEALTHCARE LIMITED | 25/07/2008 | MUMBAI |
| 4 | 256674 | 1393/MUM/2008 | 03/07/2008 | 03/07/2007 | ACRYLIC THERMOREGULATORY FIBER AND A METHOD OF MAKING THEREOF | ADITYA BIRLA SCIENCE & TECHNOLOGY CO. LTD. | 19/06/2009 | MUMBAI |
| 5 | 256675 | 1394/MUM/2008 | 03/07/2008 | | ACRYLIC ANTIMICROBIAL FIBER AND A METHOD OF MAKING THEREOF | ADITYA BIRLA SCIENCE & TECHNOLOGY CO. LTD. | 19/06/2009 | MUMBAI |
| 6 | 256676 | 61/MUMNP/2010 | 29/04/2008 | 09/07/2007 | FLUIDIZED-BED REACTOR FOR THE TREATMENT OF FLUIDIZABLE SUBSTANCES AND PROCESS HEREFOR | OUTOTEC OYJ | 25/06/2010 | MUMBAI |
| 7 | 256677 | 435/MUM/2010 | 17/02/2010 | 20/02/2009 | ELECTRODIALYSIS METHOD FOR PURIFYING OF SILICATE-CONTAINING POTASSIUM HYDROXIDE ETCHING SOLUTION | ASIA UNION ELECTRONIC CHEMICAL CORPORATION,KISMA RT CORP | 11/11/2011 | MUMBAI |
| 8 | 256678 | 1126/MUMNP/2009 | 07/12/2007 | 20/12/2006 | DISHWASHING COMPOSITION | HINDUSTAN UNILEVER LIMITED | 19/11/2010 | MUMBAI |
| 9 | 256680 | 327/MUMNP/2009 | 12/07/2006 | 13/07/2006 | A PROCESS FOR PRODUCING ETHYLENE FROM ETHANOL COMBINING THE CATALYTIC CONVERSION OF HYDROCARBONS | CHINA PETROLEUM & CHEMICAL CORPORATION,RESEARCH INSTITUTE OF PETROLEUM PROCESSING, SINOPEC | 15/05/2009 | MUMBAI |
| 10 | 256685 | 452/MUMNP/2009 | 22/08/2007 | 24/08/2006 | AQUEOUS DISINFECTANTCOMPOSITION | SOLUTIONS BIOMED LLC | 15/05/2009 | MUMBAI |
| 11 | 256688 | 2096/MUM/2006 | 21/12/2006 | | A DEVICE TO RUN A TWO-STROKE INTERNAL COMBUSTION ENGINE | VANAZ ENGINEERS LIMITED | 05/09/2008 | MUMBAI |

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| 2 | 256647 | 60/CHE/2007 | 10/01/2007 | | A METHOD FOR NOISE REDUCTION IN STEPPER MOTORS DURING HOMING AND SYSTEM THEREOF | PRICOL LIMITED | 28/11/2008 | CHENNAI |
| 3 | 256652 | 1523/CHE/2006 | 24/08/2006 | | METHOD FOR LOAD ADAPTIVE TIMING ALIGNMENT AND UPLINK RANDOM ACCESS | SAMSUNG INDIA SOFTWARE OPERATIONS PRIVATE LIMITED | 28/11/2008 | CHENNAI |
| 4 | 256653 | 3575/CHENP/2006 | 29/03/2005 | 30/03/2004 | ARRANGEMENT FOR THE ADMISSION OF COOLING AIR TO A ROTATING COMPONENT, IN PARTICULAR FOR A MOVING BLADE IN A ROTARY MACHINE | ALSTOM TECHNOLOGY LTD. | 06/07/2007 | CHENNAI |
| 5 | 256657 | 5754/CHENP/2007 | 15/09/2001 | 15/09/2000 | 2-AMINO-2-ALKYL-7-[(1-IMINOETHYL)AMINE] -5- HEPTENOIC ACID DERIVATIVES USEFUL AS NITRIC OXIDE SYNTHASE INHIBITORS | PHARMACIA CORPORATION | 30/05/2008 | CHENNAI |
| 6 | 256658 | 4401/CHENP/2006 | 23/05/2005 | 01/06/2004 | PYRIDIN-4-YL-ETHYNYL-IMIDAZOLES AND PYRAZOLES AS MGLUR5 RECEPTOR ANTAGONISTS | F. HOFFMANN-LA,ROCHE AG | 29/06/2007 | CHENNAI |
| 7 | 256663 | 2058/CHENP/2007 | 29/09/2005 | 14/10/2004 | MICROSYSTEM AND METHOD FOR POSITIONING A SECOND ELEMENT WITH RESPECT TO A FIRST ELEMENT IN A MICRO SYSTEM | INTERNATIONAL BUSINESS MACHINES CORPORATION | 07/09/2007 | CHENNAI |

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| 8 | 256665 | 1536/CHENP/2008 | 30/08/2005 | 30/08/2005 | MATERIAL FOR UNDERWATER SUIT AND UNDERWATER SUIT USING THE SAME | YAMAMOTO, TOMIZO | 28/11/2008 | CHENNAI |
| 9 | 256666 | 1707/CHENP/2007 | 24/10/2005 | 25/10/2004 | A DISPERSION OF POLYMER PARTICLES IN CONTINUOUS AQUEOUS PHASE | DOW GLOBAL TECHNOLOGIES , LLC | 31/08/2007 | CHENNAI |
| 10 | 256667 | 2750/CHENP/2007 | 19/12/2005 | 22/12/2004 | METHOD AND INSTALLATION FOR PRODUCING TREATED NATURAL GAS, A C3+ HYDROCARBON CUT AND AN ETHANE RICH STREAM | TECHNIP FRANCE | 07/09/2007 | CHENNAI |
| 11 | 256686 | 2977/CHENP/2008 | 14/12/2006 | 15/12/2005 | PHTHALAMIDE DERIVATIVE, AGRICULTURAL OR HORTICULTURAL PESTICIDE, AND USE OF THE PESTICIDE | NIHON NOHYAKU CO., LTD | 06/03/2009 | CHENNAI |
| 12 | 256687 | 3568/CHENP/2006 | 30/03/2005 | 31/03/2004 | RESOURCE MANAGEMENT IN A MULTICORE ARCHITECTURE | FUJITSU SEMICONDUCTOR LIMITED,SYNOPSYS, INC. | 22/06/2007 | CHENNAI |
| 13 | 256689 | 3533/CHENP/2006 | 18/04/2005 | 16/04/2004 | METHOD FOR CONTROLLING PLUGGABLE PORT ON INTERFACE BOARD OF COMMUNICATION DEVICE AND INTERFACE BOARD | HUAWEI TECHNOLOGIES CO., LTD. | 15/06/2007 | CHENNAI |
| 14 | 256690 | 2494/CHE/2006 | 29/12/2006 | | A METHOD FOR PERFORMING INTRA PREDICTION ON A VIDEO SEQUENCE | SAMSUNG INDIA SOFTWARE OPERATIONS PRIVATE LIMITED | 28/11/2008 | CHENNAI |
| 15 | 256692 | 1915/CHE/2005 | 26/12/2005 | | SYSTEM AND METHOD FOR BLOCK - ACK WINDOW SYNCHRONIZATION IN MBOA BASED WPAN SYSTEM | SAMSUNG INDIA SOFTWARE OPERATIONS PRIVATE LIMITED | 27/07/2007 | CHENNAI |
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| 18 | 256698 | 3553/CHENP/2007 | 15/12/2005 | 15/02/2005 | PARTLY NEUTRALIZED ANIONIC (METH)ARCYLATE COPOLYMER | EVONIK ROHM GMBH | 16/11/2007 | CHENNAI |
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| 20 | 256701 | 156/CHENP/2007 | 04/07/2005 | 14/07/2004 | PROCESS FOR INTERFACING A CONTROL UNIT AND A PROGRAM FOR MODELLING AN ACTIVE CHAIN DIAGNOSIS | ROBERT BOSCH GmbH | 24/08/2007 | CHENNAI |

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| 2 | 256659 | 2775/KOLNP/2008 | 12/01/2007 | 24/01/2006 | FEED UNIT | CONTINENTAL AUTOMOTIVE GMBH | 23/01/2009 | KOLKATA |
| 3 | 256661 | 1318/KOL/2008 | 01/08/2008 | | METHOD OF INCREASING SURFACE HARDNESS AND CASE DEPTH OF A STEEL SUBSTRATE BY SURFACE TEXTURISATION AND HIGH POWER DIODE LASER HARDENING | BHARAT HEAVY ELECTRICALS LIMITED | 05/02/2010 | KOLKATA |
| 4 | 256679 | 1270/KOLNP/2009 | 29/10/2007 | 31/10/2006 | APPLICATION OF PURGE GAS IN BEVERAGE CONTAINERS | KHS GMBH | 29/05/2009 | KOLKATA |
| 5 | 256694 | 1435/KOLNP/2006 | 20/10/2004 | 28/11/2003 | AN APPARATUS FOR DESYNCHRONIZATION ON NEURAL BRAIN ACTIVITY | FORSCHUNGSZENTRUM JULICH GMBH | 04/05/2007 | KOLKATA |
| 6 | 256695 | 4458/KOLNP/2007 | 24/05/2006 | 25/05/2005 | A SINGLE PHASE ELECTRICITY METER FOR DETECTING TAMPERING AND MEASURING THE AMOUNT OF TAMPERING ELECTRICAL ENERGY CONSUMED | LANDIS+GYR (EUROPE) AG | 20/06/2008 | KOLKATA |
| 7 | 256696 | 18/KOL/2007 | 04/01/2007 | | INTEGRATED TESTING OF THYRISTOR CONTROLLED SERIES CAPACITOR | BHARAT HEAVY ELECTRICALS LIMITED | 18/07/2008 | KOLKATA |

***CONTINUED TO PART- 2***