

বাংলাদেশ



গেজেট

কর্তৃপক্ষ কর্তৃক প্রকাশিত

বৃহস্পতিবার, নভেম্বর ১৬, ২০১৭

৪র্থ খণ্ড

প্রথম খণ্ডে অন্তর্ভুক্ত প্রজ্ঞাপনসমূহ ব্যতীত পেটেন্ট অফিস কর্তৃক জারীকৃত প্রজ্ঞাপনসমূহ

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
পেটেন্ট, ডিজাইন ও ট্রেডমার্কস অধিদপ্তর  
শিল্প মন্ত্রণালয়  
৯১, মতিঝিল বা/এ, ঢাকা-১০০০।

গৃহীত পেটেন্ট দরখাস্ত

Accepted Patent Applications

এতদ্বারা জানানো যাইতেছে যে, নিম্নে বাম পার্শ্বে উল্লিখিত যে কোন পেটেন্ট আবেদন পত্র সম্পর্কীয় উদ্ভাবনের জন্য পেটেন্ট মঞ্জুরীর বিরুদ্ধে যে সকল ব্যক্তি বিরোধিতা করিতে ইচ্ছুক তাঁহার এই গেজেট প্রকাশের তারিখ হইতে চার মাস সময় সীমার মধ্যে যে কোন সময় পেটেন্ট, ডিজাইন ও ট্রেডমার্কস অধিদপ্তর, (পেটেন্ট ও ডিজাইন উইং), শিল্প মন্ত্রণালয়, (৬ষ্ঠ তলা) ৯১, মতিঝিল বা/এ, ঢাকা-১০০০, বাংলাদেশ এই ঠিকানায় ১৯৩৩ ইং সনের পেটেন্ট ও ডিজাইন বিধিমালা-১৯৩৩ অনুযায়ী ৬ নং নির্দিষ্ট ফরমে বিরোধিতা নোটিশ দাখিল করিতে পারিবেন।

নিম্নে ডান পার্শ্বে প্রদর্শিত সাত অংক বিশিষ্ট সংখ্যাগুলি পুনর্জা বিশেষত্বনামা গৃহীত হইবার পর পেটেন্ট নম্বর প্রদান করা হইয়াছে এবং এই ক্রমিক সংখ্যা অনুসারে বিনির্দেশ মুদ্রণ করা হইবে এবং পরবর্তী কার্যক্রম গ্রহন করা হইবে।

গৃহীত পেটেন্ট দরখাস্ত সমূহের সাময়িক (যদি থাকে) ও পূর্ণাঙ্গ বিশেষত্বনামা জনসাধারণের পরিদর্শনের জন্য অফিস চলাকালীন সময়ে অত্র অধিদপ্তরে প্রদর্শিত হয়। যে কোন আবেদনকারীর প্রয়োজনে টাইপ-রাইটারে মুদ্রিত বিশেষত্বনামা প্রত্যায়িত প্রতিলিপি সরবরাহ করা যাইতে পারে যদি তিনি ২৯ নং ফরমে নির্দিষ্ট ফি সহ আবেদন দাখিল করেন এবং বিশেষত্বনামা টাইপ করিবার জন্য নির্দিষ্ট ফি পরিশোধ করেন।

লঘুবন্ধনীর মধ্যে প্রদর্শিত তারিখ ১৯১১ ইং সনের পেটেন্ট ও ডিজাইন আইনের ৭৮ক ধারা/প্যারিস কনভেনশনের বিধান অনুযায়ী অগ্রাধিকার তারিখ রূপে দাবী করা হইতেছে এবং যে দেশে দরখাস্তটি প্রথম দাখিল করা হইয়াছে সেই দেশের নাম তৎসঙ্গে উল্লিখিত হইয়াছে।

Notice is hereby given that all persons interested in opposing the grant of patent on any of the application referred to below may at any time within four months from the date this Gazette, give notice at the Department of Patents, Designs & Trademarks, (Patent & Design Wing), Ministry of Industries (5<sup>th</sup> Floor), 91, Motijheel C/A, Dhaka-1000, Bangladesh in the prescribed form-6 of the Patents and Designs Rules, 1933.

The seven figures numbers shown in the right hand side are those given to the application on acceptance of the complete specifications and under which the specifications will printed and subsequent proceeding will be taken.

The complete specifications of the accepted applications are open to the public inspection at this office at any time on all working days, if required typed copies of the specifications can be supplied by this office on payment of the prescribed charge which may be ascertained on application to this office.

The priority dates of the applications and the names of the countries in which the application to have been filed first are shown in the crescent brackets. The priority dates are claimed Under Section 78A of the Patents and Designs Act, 1911/ provisions under this Paris Convention.

- 255/2015 BASF SE, A company incorporated under the laws of Germany, (whose legal address is 67056 Ludwigshafen, Germany)  
Priority: EP 14187492.5  
Dated: 02-10-2014
- Process for purifying astaxanthin and canthaxanthin.  
*IPC: C 07C 403/24*  
**1005866**
- Abstract:** The present invention relates to a process for purifying the xanthophylls astaxanthin and canthaxanthin. The process comprises suspending the xanthophyll in an organic solvent or solvent mixture, treating the suspension of the xanthophyll in the organic solvent or solvent mixture at elevated temperature, and subsequent separation off of the xanthophyll from the solvent by a solid-liquid separation, wherein the organic solvent is selected from ketones of the general formula (I) and mixtures of ketones of the general formula (I) where R1 is C1-C4 alkyl and R2 is selected from C1-C6 alkyl, C3-C8 cycloalkyl, phenyl and benzyl, wherein the phenyl rings in the two last-mentioned radicals are unsubstituted or can have 1 or 2 methyl groups, or R1 and R2 together are linear C4-C6 alkylene, which can bear 1, 2 or 3 methyl groups as substituents.
- 257/2015 Mahin Bin Mazher, Nationality: Bangladeshi, (whose legal address is House# 34, Road# 12, Block# K, Baridhara Diplomatic zone, Gulshan, Dhaka-1212, Bangladesh)  
Priority:
- HIGH ABRASION RESISTANCE STONE SHIELD  
PORCELAIN TILE AND PRODUCTION METHOD THEREOF.  
*IPC: C 04B 35/52*  
**1005868**
- Abstract:** The stone shield glaze formulation is a complex matrix of various materials like Glaze Compound A (FLL -22) >45-55% by weight and Glaze compound B (XG 145) >10-20% by weight and some other ingredients with fixed proportions. The result is a stronger tile that provides more longevity stone shield porcelain tiles that adhere up to 3,00,000 steps.
- 259/2015 HSIL LIMITED, a corporation organized and existing under the laws of India, (whose legal address is 2, RED CROSS PLACE, KOLKATA – 700001, WEST BENGAL, India)  
Priority: DE  
102014018155.3  
Dated: 10-12-2014
- TAMPER EVIDENT CLOSURE FOR AN ACCESS OPENING  
IN A CONTAINER, IN PARTICULAR A BOTTLE.  
*IPC: B 65D 41/00*  
**1005872**
- Abstract:** A tamper evident closure for an access opening in a container, in particular a bottle, has a closure part which is placeable onto the access opening in a sealing manner and has a bottom sleeve portion and an upper cover portion, which are connected in one piece to each other via a first tamper evident indicator. Furthermore, a hood-like indicator cap is provided which forms a second tamper evident indicator and at least partially surrounds at least the cover portion of the closure part, wherein access to the first tamper evident indicator is possible only when the indicator cap is destroyed. A tear off tab is formed in the indicator cap, which tear off tab is bounded by two grooves which are arranged at a distance and end at a distance from the bottom rim of the indicator cap, wherein at least one of the grooves is assigned a breaking point which extends as far as the bottom rim of the indicator cap.

- 277/2015 AB Enzymes Oy, a company organized and existing under the laws of Finland, (whose legal address is Tykkimäentie 15b, FI-05200 Rajamäki, Finland) Priority: FI 20145941 Dated: 27-10-2014 Fungal endoglucanase variants, their production and use.  
*IPC:* C 11D 3/386, C 12N 15/62, 9/42,  
**1005876**  
**Abstract:** The invention relates to novel variants of fungal endoglucanases, their production and means for their production. Especially the invention relates to variants of *Acremonium thermophilum* Cel45A. The invention further relates to enzyme preparations and detergent compositions comprising at least one novel variant endoglucanase as well as to processes for treating cellulosic material therewith. The novel variant endoglucanase polypeptide-shave improved performance in textile applications, especially in biofinishing and biostoning, and in detergent applications, in fabric care and color maintenance, especially in prevention and removal of fuzz and pills, in color care and revival.
- 286/2015 LUBRIZOL ADVANCED MATERIALS, INC., A US Corporation, Incorporated in the State of Ohio (whose legal address is 9911 Brecksville Road, Cleveland, Ohio 44141-3241, United States of America) Priority: US 62/083, 331 Dated: 24/11/2014 A COUPLED URACIL COMPOUND FOR VINYL CHLORIDE POLYMER RESINS.  
*IPC:* C 08K 5/342  
**1005875**  
**Abstract:** The disclosed technology relates to a novel coupled 6-amino uracil derivative, and the use of the coupled 6-amino uracil derivative as a stabilizer in halogen containing polymer compounds. In particular, the disclosed technology relates to the use of a coupled 6-amino uracil derivative as a stabilizer in vinyl chloride compounds, such as, for example, chlorinated polyvinyl chloride (CPVC) compounds.
- 288/2015 LONATI S.P.A, a Joint Stock company of (whose legal address is Via Francesco Lonati, 3 25124 BRESCIA, Italy) Priority: IT MI2014A002101 Dated: 09-12-2014 FOOTING FOR CIRCULAR KNITTING MACHINES FOR HOSIERY OR THE LIKE.  
*IPC:* D 04B 9/00  
**1005880**  
**Abstract:** A footing for circular knitting machines for hosiery or the like, comprising a supporting structure (2) that comprises: – uprights (3) that are extended along substantially vertical directions; – at least one tubular reinforcement element (4), which is connected rigidly to the uprights (3) and mutually connects the uprights (3).
- 289/2015 Telefonaktiebolaget LM Ericsson (Publ), a Swedish company of (whose legal address is SE-164 83 Stockholm, Sweden) Priority: US 62/080, 877 Dated: 17-11-2014 CHANNEL ACCESS IN LISTEN BEFORE TALK SYSTEMS.  
*IPC:* H 04W 72/0  
**1005874**  
**Abstract:** Systems and methods relating to Listen before Talk (LBT) procedures suitable for, e.g., License Assisted Access (LAA) to an unlicensed frequency spectrum or Long Term Evolution Unlicensed (LTE-U) are disclosed. In some embodiments, a method of operation of a node of a cellular communications network comprises performing a LBT procedure for an observed channel in an unlicensed frequency spectrum. The LBT procedure defers at least one Clear Channel Assessment (CCA) slot such that the LBT procedure concludes at or near a desired starting point for a transmission. The at least one CCA slot comprises at least one of a first CCA slot of the LBT procedure, one or more intermediate CCA slots of the LBT procedure, and a final CCA slot of the LBT procedure. The method further comprises performing the transmission on the observed channel upon completion of the LBT procedure.

- 294/2015 SMART TRANSACTION SYSTEM AND METHOD.  
COMMUNICATIONS, INC.,  
a Company Incorporated  
under the laws of Philippines,  
(whose legal address is Smart  
Tower, 6799 Ayala Avenue,  
Makati City 1226,  
Philippines)  
Priority: SG 10201407807U  
Dated: 25-11-2014  
*IPC: G 06Q 20/00, 30/00*  
**1005877**  
**Abstract:** An over-the-counter (OTC) transaction system comprising a computing device operable to send a transaction request to initiate a transaction; and a server operable to receive an OTC electronic transaction request from a computing device and thereafter generate a unique identifier based on the transaction request received from the computing device as part of the transaction; the server further operable to verify the transaction based on the generated unique identifier; and upon verification, process and inform the computing device a status of the transaction; wherein the verification includes comparing a portion of the unique identifier with the entries in a whitelist maintained by the server; and wherein the unique identifier is temporary and is configured to expire after a predetermined criteria is met.
- 297/2015 SIPRA METHOD FOR THE PRODUCTION OF KNITTED GOODS.  
PATENTENTWICKLU  
NGS-UND  
BETEILIGUNGSGESE  
LLSCHAFT MBH., a  
company organized and  
existing under the laws of  
Germany, (whose legal  
address is E-mail-Mayer-  
StraBe 10 72461 Albstadt,  
Germany)  
Priority: EP 14197425.3  
Dated: 11-12-2014  
*IPC: D 04B 9/14*  
**1005884**  
**Abstract:** A method for the production of knitted goods with a plurality of stitch-forming elements and with at least one stitch-forming location (15, 15.1, 15.2, 15.3), which has an associated spinning device (12, 12.1, 12.2, 12.3), which from a roving yarn (VG) respectively produces a sliver (FB) or a yarn and feeds this to the stitch-forming elements (14), wherein each spinning device (12, 12.1, 12.2, 12.3) has separate drive devices (30, 31, 30.1, 31.1, 30.2, 31.2, 30.3, 31.3), which can be actuated in such a manner that with each spinning device (12, 12.1, 12.2, 12.3) a sliver (FB) or a yarn of variable thickness can be produced from roving yarn (VG) and can be fed to the stitch-forming elements (14).
- 314/2015 JSC Experimental and Design Horizontal steam generator for a reactor plant with a water-cooled water-moderated power reactor and a reactor plant with the said steam generator.  
Organization  
—GIDROPRESS¼  
(OKB  
—GIDROPRESS¼) (whose  
legal address is 21  
Ordzhonikidze Street, 142103  
Podolsk, Moscow region,  
Russian Federation)  
Priority: RU 2014150427  
Dated: 12-12-2014  
*IPC: F 28B 1/02*  
**1005898**  
**Abstract:** This invention relates to electric power industry, and more particularly to horizontal steam generators for nuclear power plants with a water-cooled water-moderated power reactor (VVER) and to reactor plants with a VVER reactor and a horizontal steam generator. A reactor plant with a VVER reactor and a horizontal steam generator, including a nuclear reactor with four circulation loops, each comprising a steam generator with a horizontal bundle of heat-exchange tubes divided into banks by means of intertubular tunnels and connected to primary circuit coolant headers inside a cylindrical pressure vessel with elliptical bottoms, a reactor coolant pump, and a primary circuit coolant main circulation pipeline. Pressure vessel bore  $D_{vess}$ , distance  $S$  between the centerlines of the primary circuit coolant headers in the transverse direction and

steam generator length  $L_v$  along the inner surfaces of the elliptical bottoms have been respectively selected based on the following ratios: where:  $D$  is the rated steam generator capacity, t/h;  $N_{tb}$  is the number of steam generator vessel heat-exchange tubes, pcs.;  $S_v$ ,  $S_h$  is the spacing between heat-exchange tubes in vertical and horizontal rows of heat-exchange bundle, respectively, mm;  $k$  is the arrangement identifier of heat-exchange tube bundle in a bank;  $H$  is the steam generator vessel tube filling height, mm;  $D_{head}$  is the primary circuit header outer diameter in the drilled area, mm;  $\alpha$  is the heat-exchange tube central bend angle, deg.;  $B_1$  и  $B_2$  are the width of the heat-exchange tube central tunnel and the width of the heat-exchange tube tunnel opposite to the coolant header, respectively, mm;  $S_{head}$  is the heat-exchange tube circumferential spacing on the outer surface of the coolant header, mm;  $H_{hes}$  is the steam generator heat-exchange surface area, m<sup>2</sup>;  $d$  is the outer heat-exchange tube diameter, mm;  $r$  is the distance from the outer heat-exchange bundle tube to the steam generator bottom inner surface along the longitudinal steam generator axis, mm; wherein heat-exchange tube bend angle and distance have been selected from the following ranges:

315/2015 JSC Experimental and Design Organization  
 –GIDROPRESS<sup>1/4</sup> (OKB  
 –GIDROPRESS<sup>1/4</sup>) (whose legal address is  
 21 Ordzhonikidze Street,  
 142103 Podolsk, Moscow region, Russian Federation)  
 Priority: RU 2014150428  
 Dated: 12/12/2014

Steam generator coolant header with U-shaped tubes of a horizontal heat-exchange bundle and methods of its manufacture.

IPC: F 22B 1/02, F 28F 1/00

**1005899**

**Abstract:** This invention relates to electric power industry, and can be used in horizontal steam generators for nuclear power plants with a water-water energetic reactor. We claim a steam generator primary circuit coolant header with U-shaped tubes of a horizontal heat-exchange bundle designed as a thick-wall welded vessel with a perforated central cylindrical part designed so as to allow installation and fastening of a U-shaped heat-exchange tube bundle in this part, wherein the tubes are grouped into banks and separated by vertical intertubular tunnels, a lower cylindrical part designed so as to allow welded connection with the steam generator vessel connection pipe, and an upper cylindrical part with a conical adapter to the flange connection of the manhole with a lid, wherein primary circuit header outer diameter  $D_{head}$  in the central part is selected based on the following ratio: where:  $S_h$  is the spacing between heat-exchange tubes in the horizontal heat-exchange bundle row, mm,  $B_2$  is the width of the heat-exchange bundle tunnel opposite to the coolant header, mm,  $d$  is the outer heat-exchange tube diameter, mm,  $n_1$  and  $n_2$  indicate the number of tubes in the horizontal row of the smaller and bigger heat-exchange tube banks, accordingly, mm,  $R_b$  is the minimum bend radius of the heat-exchange bundle tubes, mm. The holes for fastening of heat-exchange tubes are staggered in the central cylinder part of the header so that the distance between edges of the adjacent holes is not less than 5.5 mm along the inner surface of the header. The technical result of the invention involves assurance of strength of the header wall bridges between holes for fastening of heat-exchange tubes and leaktightness of heat exchange tube connections with the header assuming that the outer surface of the perforated header part is more efficiently (fully) used for tubing.

- |          |   |   |
|----------|---|---|
| 316/2015 | <p>JSC Experimental and Design Organization<br/>         –GIDROPRESS¼ (OKB<br/>         –GIDROPRESS¼),<br/>         (whose legal address is<br/>         21 Ordzhonikidze Street,<br/>         142103 Podolsk, Moscow<br/>         region, Russian Federation)<br/>         Priority: RU 2014150429<br/>         Dated: 12-12-2014</p>              | <p>STEAM GENERATOR WITH A HORIZONTAL HEAT-<br/>         EXCHANGE TUBE BUNDLE AND ITS ASSEMBLY<br/>         METHOD.<br/> <br/> <i>IPC:</i> F 22B 1/02, F 28F 1/00<br/> <br/> <b>1005900</b></p> <p><b>Abstract:</b> The invention relates to steam generators for VVER nuclear power plants. We claim a steam generator with a horizontal heat-exchange tube bundle comprising a welded cylinder vessel manufactured of steel shells and equipped with at least one feed water supply connection pipe and one steam removal connection pipe, and two elliptical bottoms, vessel internals, inlet and outlet headers connected to the heat-exchange tube bundle forming a heat-exchange surface of the steamgenerator, wherein inner diameter <math>d_{vess}</math> of the steam generator vessel is selected based on the following relations: where: <math>d_{vess}</math> is the inner diameter of the steam generator vessel, mm, <math>D</math> is the rated steam generator capacity, t/h, <math>N_{tb}</math> is the number of heat-exchange tubes in a bundle located in the vessel, pcs., <math>S_v</math>, <math>S_h</math> is the spacing between heat-exchange tubes in vertical and horizontal rows of heat-exchange bundle, respectively, mm, is the arrangement identifier of heat-exchange tubes in a bundle for in-line arrangement and for staggered arrangement), <math>H</math> is the steam generator vessel tube filling height, The steam generator vessel is filled with heat-exchange bundle tubes from the bottom upwards to the height of three quarters of its inner diameter or less, the remaining space in the top part of steam generator vessel is left for steam drying. The technical result is creation of a steam generator with a decreased specific amount of metal per structure wherein the generated steam is dried in one vessel with the heat-exchange surface.</p> |
| 317/2015 | <p>JSC Experimental and Design Organization<br/>         –GIDROPRESS¼<br/>         (OKB<br/>         –GIDROPRESS¼),<br/>         (whose legal address is 21<br/>         Ordzhonikidze Street, 142103<br/>         Podolsk, Moscow region,<br/>         Russian Federation)<br/>         Priority: RU 2014150430<br/>         Dated: 12-12-2014</p> | <p>HORIZONTAL STEAM GENERATOR FOR NUCLEAR<br/>         POWER PLANTS AND ITS ASSEMBLY METHOD.<br/> <br/> <i>IPC:</i> F 22B 1/02, F 28D 7/00<br/> <br/> <b>1005901</b></p> <p><b>Abstract:</b> This invention relates to steam generators, and more particularly to horizontal steam generators for nuclear power plants with a water-water energetic reactor (VVER). We claim a horizontal nuclear power plant steam generator comprising a cylindrical vessel, two elliptical bottoms, at least one feed water supply and steam removal connection pipe, an inlet header and an outlet header, a heat-exchange tube bundle connected to the same, wherein number <math>N_{tb}</math> of heat-exchange tubes in the bundle is selected depending on outer diameter <math>d_{tb}</math> of the heat exchange tubes as follows: and the gap between the adjacent heat-exchange tubes in the vertical direction does not exceed the vertical spacing between the heat-exchange tubes in the bundle. The technical result of the invention is an increased heat transfer efficiency in the steam generator with a limited number and maximum length of heat exchange tubes, which allows to use tubes employed in the industry.</p>  |

321/2015 Joint Stock Company  
—Atomenergoproekt<sup>1/4</sup>  
(whose legal address is  
7 Bakuninskaya Street, 1,  
Moscow, 105005, Russian  
Federation)  
Priority: RU 2014150936  
Dated: 16-12-2014

Water-Cooled Water-Moderated Nuclear Reactor Core Melt  
Cooling and Confinement System.

*IPC:* G 21C 13/10, 9/016

**1005892**

**Abstract:** The invention relates to nuclear power industry, namely to systems providing safety of nuclear power plants (NPP), and can be used during severe accidents leading to reactor vessel and NPP containment failure. The melt cooling and confinement system includes a cone-shaped guide plate installed under the reactor vessel bottom, cantilever girder installed under the guide plate and supporting the same, core catcher installed under the cantilever girder and equipped with cooled cladding in form of a multi-layer vessel for protection of the external heat-exchange wall from dynamic, thermal and chemical impacts, and filler material for melt dilution inside the multi-layer vessel. The said multi-layer vessel contains external and internal metal walls with filler of poorly heat-conductive in relation to the wall material in between. Filler thickness  $h_{fil}$  shall meet the following requirement:  $0.8h_{ext} < h_{fil} < 1.6h_{ext}$ , where  $h_{ext}$  is vessel external wall thickness. The technical result of the invention is the increased efficiency of heat removal from the melt and improved structural reliability. 7 depending claims, 3 figures, 1 appendix.

322/2015 Joint Stock Company  
—Atomenergoproekt<sup>1/4</sup> (whose  
legal address is 7  
Bakuninskaya Street, 1,  
Moscow, 105005, Russian  
Federation)  
Priority: RU 2014150937  
Dated: 16-12-2014

Water-Cooled Water-Moderated Nuclear Reactor Core Melt  
Cooling and Confinement System.

*IPC:* G 21C 13/10, 9/016

**1005893**

**Abstract:** The invention relates to nuclear power industry, namely to systems providing safety of nuclear power plants (NPP), and can be used during severe accidents leading to reactor vessel and NPP containment failure. The melt cooling and confinement system includes a cone-shaped guide plate installed under the reactor vessel bottom, cantilever girder installed under the guide plate and supporting the same, core catcher installed under the cantilever girder and equipped with cooled cladding in form of a multi-layer vessel for protection of the external heat-exchange wall from dynamic, thermal and chemical impacts, and filler material for melt dilution inside the multi-layer vessel. The said multi-layer vessel has external and internal metal walls with a filler that is highly heat-conductive in relation to wall material in between, where filler material thickness  $h_{fil}$  meets the following criterion: where  $h_{ext}$  is vessel external wall thickness. The technical result of the invention is the increased efficiency of heat removal from the melt and improved structural reliability 6 depending claims, 3 figures, 1 appendix.

- 323/2015      Joint Stock Company  
—Atomenergoproekt<sup>1/4</sup>  
(whose legal address is  
7 Bakuninskaya Street, 1,  
Moscow, 105005, Russian  
Federation)  
Priority: RU 2014150938  
Dated: 16-12-2014
- Water-Cooled Water-Moderated Nuclear Reactor Core Melt  
Cooling and Confinement System.  
*IPC:* G 21C 13/10, 9/016  
**1005894**
- Abstract:** The invention relates to nuclear power industry, namely to systems providing safety of nuclear power plants (NPP), and can be used during severe accidents leading to reactor vessel and NPP containment failure. The melt cooling and confinement system includes a cone-shaped guide plate installed under the reactor vessel bottom, cantilever girder installed under the guide plate and supporting the same, core catcher installed under the cantilever girder and equipped with cooled cladding in form of a multi-layer vessel for protection of the external heat-exchange wall from dynamic, thermal and chemical impacts, and filler material for melt dilution inside the multi-layer vessel. The said multi-layer vessel contains internal and external metal layers with an intermediate layer in the form of a non-metal filler located in between. Bearing ribs are installed between the internal and external layers at an azimuth pitch (Spitch) that meets the following criterion:  $dext/15 < spitch < dext/5$ , where dext is external diameter of the vessel. The technical result of the invention is the increased efficiency of heat removal from the melt and improved structural reliability. 6 depending claims, 3 figures, 1 appendix
- 328/2015      Stamicarbon B.V., a company  
organized and existing under  
the laws of the Netherlands,  
(whose legal address is  
Mercator 3 6135 KW Sittard ,  
Netherlands)  
Priority: EP 14199372.5  
Dated: 19-12-2014
- REMOVAL OF DUST IN UREA FINISHING.  
*IPC:* B 01D 47/06, 47/10, C 07C 273/02  
**1005867**
- Abstract:** Disclosed is a method for the removal of urea dust from the off-gas of a finishing section of a urea production plant. the method comprises subjecting the off-gas to quenching with water so as to produce quenched off-gas. The quenched off-gas is subjected to humidification by mixing said quenched gas stream with a humidification fluid selected from (a) saturated steam and (b) superheated steam mixed with a second aqueous stream, so as to produce a humidified gas stream, subjecting said humidified gas stream to particle separation (i.e., dust removal) by means of a scrubbing liquid in which at least part of the particles in the gas stream are soluble
- 331/2015      LAVA bvba, A Company  
Incorporated in Belgium,  
(whose legal address is  
Rijksweg 138, 8710  
Wielsbeke, Belgium)  
Priority: BE 2014/5133  
Dated: 19-12-2014
- DOUBLE JERSEY KNITTED FABRIC WITH YARN  
SELECTION.  
*IPC:* D 04B 1/10, 9/08  
**1005890**
- Abstract:** The present invention relates to a double jersey fabric, a method for producing a double jersey fabric, and the use of a circular knitting machine for producing a double jersey fabric. More particularly, the present invention relates to efficient use of material and improved productivity in the context of double jersey knitted fabrics.



- 1/2016 Hitachi, Ltd., a company organized and existing under the laws of Japan, (whose legal address is 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8280, Japan)  
Priority: JP 2015-001953  
Dated: 08-01-2015
- METHOD AND SYSTEM FOR REFORMING PLANT-DERIVED BIOFUEL AND METHOD OF PRODUCING PLANT-DERIVED BIOFUEL.  
*IPC: C 05F 7/00*  
**1005869**
- Abstract:** A device and method for reforming biofuel that can remove potassium and chlorine in a simple manner. Means of Solution] Comprising a pulverizing device 2 for pulverizing plants which are raw material, an elution device 6 for eluting a water-soluble substance under atmospheric pressure environments from the plants pulverized by the pulverizing device 2, a dehydrator 14 which is a dehydrating device for dehydrating the plants discharged from the elution device 6, a silo 17 for storing the plants dehydrated by the dehydrating device 14, and an elution liquid tank 20 for storing the solution discharged from the dehydrating device 14.
- 2/2016 Bangladesh Council of Scientific and Industrial Research (BCSIR), a body corporate of Govt. of Bangladesh. (whose legal address is Dr.Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh)
- A PROCESS FOR THE PRODUCTION OF INDUSTRIAL GRADE CAUSTIC POTASH IN LIQUID FORM.  
*IPC: C 01D 1/00*  
**1005873**
- Abstract:** Industrial grade caustic potash in liquid form has been prepared from spent banana tree which is rich in potash and highly abundant in Bangladesh. It is an essential chemical for various industries which are fully dependant on imported caustic potash. Industrial grade caustic potash in liquid form has been prepared by burning dry spent banana tree, grinding and thoroughly admixing the ash with lime, extracting the mixture twice with boiling water, admixing active carbon with concentrated alkaline extract, filtering the admixture and boiling down the filtrate to dryness for obtaining caustic potash having alkali strength at least 56%.
- 12/2016 LONATI S.P.A, a Joint Stock company of, (whose legal address is Via Francesco Lonati, 3 25124 BRESCIA, Italy)  
Priority: IT MI2015A000108  
Dated: 28-01-2015
- METHOD FOR PROVIDING SEMI-FINISHED TUBULAR MANUFACTURED ARTICLES TO BE CLOSED BY STITCHING AT AN AXIAL END THEREOF FOR THE PRODUCTION OF SOCKS, AND SEMI-FINISHED TUBULAR MANUFACTURED ARTICLE OBTAINED WITH THE METHOD.  
*IPC: D 04B 1/10, 1/26*  
**1005865**
- Abstract:** A method for providing semi-finished tubular manufactured articles to be closed by stitching at an axial end thereof for the production of socks, and a semi-finished tubular manufactured article obtained with the method. The present method comprises a step of providing the body of the tubular manufactured article and a step of providing an end portion of the tubular manufactured article which is intended to be removed during the subsequent stitching operation in order to close an axial end of the tubular manufactured article. The step of providing the end portion comprises:- a step of providing an intermediate band connected to the body of the manufactured article and thinner than the thickness at least of the rows of knitting of the body of the manufactured article which are

connected to the intermediate band;- a step of providing an end edge thicker than the thickness of the intermediate band. In the present method, the height of the intermediate band, proximate to the regions that constitute the lateral ends of the two flaps of the end portion to be overlapped in order to stitch the axial end to be closed of the tubular manufactured article, is lower than the height of the remaining part of the intermediate band.

13/2016 Telefonaktiebolaget LM Ericsson (Publ), a Swediah company of (whose legal address is SE-164 83 Stockholm, Sweden) Priority: EP PCT/EP2015/051337 Dated: 23-01-2015

METHOD AND SYSTEM FOR RESOURCE ALLOCATION TO A COMMUNICATION-DEVICE IN A WIRELESS NETWORK.

IPC: H 04W 72/12

**1005885**

**Abstract:** A control message (580) prospectively indicates a need of a communication device sending a data packet of a first class of data employing radio resources. The radio resources are reserved at least for the first class of data.

28/2016 Telefonaktiebolaget LM Ericsson (Publ), a company or organized and existing under the laws of Sweden, (whose legal address is SE-164 83 Stockholm, Sweden) Priority: EP PCT/EP2015/058787 Dated: 23-04-2015

ADAPTIVE BEAMFORMING.

IPC: H 04B 7/06

**1005878**

**Abstract:** There is provided mechanisms for adaptive beamforming. A method is performed by a first network device. The method comprises acquiring beamforming information indicating spatial directions in which an identification signal is to be transmitted. The method comprises transmitting the identification signal in a transmission pattern using directional beams in the spatial directions towards second network devices. The identification signal is transmitted such that the identification signal occupies a larger portion of communications resources when transmitted in spatial directions with high second network device presence than in spatial directions with low second network device presence.

29/2016 UNILEVER PLC., a company registered in England and Wales under company no. 41424, (whose legal address is Unilever House, 100 Victoria Embankment. London, EC4Y ODY., LONDON, United Kingdom) Priority: EP15154490.5 Dated: 10-02-2015

A HARD SURFACE TREATMENT COMPOSITION.

IPC: C 11D 3/12, 3/16, 3/37

**1005864**

**Abstract:** The present invention is in the field of hard surface treatment compositions; and in particular relates to hard surface treatment compositions to render a substrate hydrophobic and also repellent to stains and soils. It is thought that by making said surfaces hydrophobic, these stain/soils can be prevented from adhering onto the surfaces, enabling easy removal from the surface. It is therefore an object of the present invention to prevent soiling of hard surfaces by rendering a surface hydrophobic by forming a protective layer over the hard surface. It has been found that a combination of silica, an aminosilane and a polydimethylsiloxane having a viscosity between and having a functional group selected from hydrogen, hydroxyl and epoxy group renders a surface hydrophobic by forming a protective layer over the hard surface and preventing soiling of the surface.

- 33/2016      STANDARD BRANDS (UK)      COOKING STOVE.  
 LIMITED, a British company,  
 (whose legal address is 4  
 Cleeve Court, Cleeve Road,  
 Leatherhead, Surrey, KT22  
 7SD, United Kingdom)  
 Priority: GB1502824.4  
 Dated: 19-02-2015
- IPC: F 24B 1/00, 1/02, 1/182, 1/26*
- 1005870**
- Abstract:** The present invention relates to forced air cooking stoves, in particular, to efficient cooking stoves for use by the military, those undertaking general camping or other outdoor leisure pursuits, or by larger groups of people for entertaining or humanitarian purposes. The cooking stoves include a fan to aid combustion, and a collar to focus the exhaust gasses onto the cooking vessel. They are designed to make efficient use of any type of fuel, including biomass such as wood and solid fuel blocks. They are also designed to minimise the soot deposited on the cooking vessel.
- 37/2016      Morrison Textile Machinery      APPARATUS AND METHOD FOR WASHING AN  
 Company, a company      ELONGATE TEXTILE ARTICLE.  
 organized and existing under  
 the laws of USA, (whose legal  
 address is 6044 Lancaster  
 Highway, Fort Lawn, South  
 Carolina 29714, United States  
 of America)  
 Priority: US 14/624,903  
 Dated: 18-02-2015
- IPC: B 08B 1/02, 3/02*
- 1005871**
- Abstract:** Apparatus and method for washing an elongate textile article of extended indeterminate length utilizes a containment structure defining a channel extending upwardly from a lower end to an upper end thereof, with a plurality of undulations spaced-apart from one another within the channel between the lower and upper ends thereof, each undulation extending transversely across the channel. A portion of the lengthwise extent of the traveling textile article is advanced transiently within the channel upwardly from the lower end to the upward end and across the undulations, while a substantially continuous supply of cleansing liquid enters the channel at the upper end to flow downwardly against the upwardly traveling portion of the textile article for cleansing thereof
- 39/2016      Saurer Components GmbH, a      Double function securing element for securing a spinning ring  
 German company of (whose      and ring holder onto the ring rail of a ring spinning or ring  
 legal address is Maria-Merian-      twisting frame.  
 StraBe 8, 70736 Fellbach,  
 Germany)  
 Priority:  
 DE 102015002183.4  
 Dated: 20-02-2015
- IPC: F 24B 1/00, 1/02, 1/182, 1/26*
- 1005879**
- Abstract:** The invention relates to a device, comprising a spinning ring (1), a ring holder (2) and at least one securing element (3), for securing onto a ring rail of a ring spinning or ring twisting frame. The ring holder (2) can be fixed by the securing element (3) onto the ring rail whilst being aligned to a spindle of the ring spinning or ring twisting frame independently of the spinning ring (1). The spinning ring (1) can be secured onto the ring holder (2). The device is characterised in that the spinning ring (1) can be secured by the securing element (3) onto the ring holder (2) fixed aligned on the ring rail.

- |         |   |  |
|---------|---|--|
| 55/2016 | UNILEVER PLC, a company registered in England and Wales under company no.41424 of (whose legal address is Unilever House, 100 Victoria Embankment, London, EC4Y ODY, GB. Formerly of Unilever House, Blackfriars, London, EC4P 4BQ, United Kingdom., LONDON, United Kingdom) Priority: EP15158144.4 Dated: 09-03-2015 | <p style="text-align: center;">STABLE CONCENTRATED CLEANSING COMPOSITIONS FOR HARD SURFACES.</p> <p style="text-align: center;"><i>IPC: C 11D 1/37, 3/12</i></p> <p style="text-align: center;"><b>1005882</b></p> <p><b>Abstract:</b> Disclosed is a concentrated aqueous cleansing composition comprising: (i) 14 wt% to 35 wt% of a mixed anionic surfactant system containing alkyl benzenesulphonate (a) and (poly)ethoxylated sulphate (b); (ii) at least 12 wt% sodium carbonate; and, (iii) total non-carbonate builder content less than 1 wt%, wherein the ratio of (a) to (b) is from 1:1 to 3:1 parts by weight.</p>   |
| 79/2016 | Telefonaktiebolaget LM Ericsson (Publ), a Swedish company, (whose legal address is SE-164 83 Stockholm, Sweden) Priority: US 62/182,952 Dated: 22-06-2015   | <p style="text-align: center;">CONTROL OF TIMING FOR MIXED-MODE MULTICARRIER MODULATION.</p> <p style="text-align: center;"><i>IPC: H 04L 27/26, 5/00, 5/14</i></p> <p style="text-align: center;"><b>1005895</b></p> <p><b>Abstract:</b> In one aspect, a wireless transmitter forms (1110) a first signal having a first integer number of symbol intervals in each of one or more time intervals of a predetermined length and forms (1120) a second signal having a second integer number of symbol intervals in each of the one or more time intervals of the predetermined length, the second integer number differing from the first integer number. The wireless transmitter simultaneously transmits (1130) the first and second signals in a frequency band, such that the first and second signals are frequency-domain multiplexed in the frequency band and such that a symbol interval starting time in the first signal is aligned with a corresponding symbol interval starting time in the second signal at least once per time interval.</p>   |
| 84/2016 | Huntsman Advanced Materials (Switzerland) GmbH., a Swiss company of (whose legal address is Klybeckstrasse 200, 4057 Basel, Switzerland) Priority: EP 15167324.1 Dated: 12-05-2015  | <p style="text-align: center;">Mixtures of reactive dyes and their use for the dyeing or printing of textile fibre materials.</p> <p style="text-align: center;"><i>IPC: C 09B 62/44, 67/22, D 06P 3/66</i></p> <p style="text-align: center;"><b>1005886</b></p> <p><b>Abstract:</b> A dye mixture comprising at least one dye of formula <math>N N N N H N C_2H_5 X_1 Z_1-O_2S H N C R_2 O O H N N S O_3M O M 3S (R_1)k (S O_3M)l (1)</math> and at least one dye from the group of formulae <math>O H H N N N S O_3M O M 3S N N N N R_3 X_2 (M O_3S)m Z_2-O_2S (R_4)n S O_2-Z_3 (2)</math> and <math>N N O H N H M O_3S N N N X_3 T_1 (R_5)q (M O_3S)s (3)</math>, wherein (R1)k denotes k identical or different substituents from the group C1-C4alkoxy, C1-C4alkyl and sulfo, R2 is hydrogen or C1-C4alkyl, R3 is hydrogen or C1-C4alkyl, (R4)n denotes n identical or different substituents from the group C1-C4alkoxy, C1-C4alkyl and sulfo, (R5)q denotes q identical or different substituents from the group C1-C4alkoxy and C1-C4alkyl, X1, X2 and X3 are each independently of the others halogen, 3-carboxypyridin-1-yl or 3-carbamoyl pyridin-1-yl, T1 is a fibre-reactive radical of formula <math>-N H-(C H_2)_2-3-O-(C H_2)_2-3-S O_2-Z (4a)</math>, H, Me, Et (R6)0-2 (4b), <math>C O N H-(C H_2)_2-3-S O_2-Z N H (S O_3H)0-1 (4c)</math> or <math>N H C O-(C H_2)_2-3-S O_2-Z N H (S O_3H)0-2 (4d)</math>, wherein (R6) 0-2 denotes from 0 to 2 identical or different substituents from the group C1-C4alkyl, C1-C4alkoxy and sulfo, Me means methyl, and Et</p> |

means ethyl, Z, Z1, Z2 and Z3 are each independently of the others vinyl or a radical -CH<sub>2</sub>-CH<sub>2</sub>-U and U is a group removable under alkaline conditions, M is hydrogen, an alkali metal or one equivalent of an alkaline earth metal, k, n and q are each independently of the others the number 0, 1 or 2, and l, m and s are each independently of the others the number 1 or 2, are suitable especially for the dyeing or printing of cellulosic fibre materials, exhibit good build-up, and yield dyeings and prints having good reproducibility and good all-round fastness properties.

96/2016 UNILEVER PLC, a company registered in England and Wales under company no.41424 of (whose legal address is Unilever House, 100 Victoria Embankment, London, EC4Y ODY, GB. Formerly of Unilever House, Blackfriars, London, EC4P 4BQ, United Kingdom., LONDON, United Kingdom) Priority: EP15166719.3 Dated: 07-05-2015

AN AQUEOUS CLEANSING COMPOSITION.

IPC: C 11D 1/02, 3/12, 3/34

**1005883**

**Abstract:** Disclosed is an aqueous cleansing composition comprising: (i) 5wt% to 30 wt% of a non-alkoxylated anionic surfactant; (ii) 5 wt% to 15 wt% alkali metal carbonate; (iii) a first hydrotrope in the range of 1 to 8 wt; and, (iv) a second hydrotrope in the range of 1 to 8 wt, wherein said first hydrotrope belongs to the class of sulphonates and said second hydrotrope belongs to the class of alcohols and the ratio between the amount of first hydrotrope to that of said second hydrotrope is in the range of 1:1 to 3:1 parts by weight and wherein said composition comprises 2 wt% to 15 wt% alkoxylated anionic surfactant.

104/2016 Andaleeve Rahman, Nationality: Bangladeshi, (whose legal address is Road # 07, House # 25, Baridhara Diplomatic Zone, Gulshan-2, Dhaka-1212, Bangladesh)

METHOD AND APPARATUS FOR RECEIVING AND DISBURSING DONATION.

IPC: G 06Q 20/00

**1005896**

**Abstract:** A Zakat payment Card formulated in accordance with the principles of the present invention comprises a payment card equivalent in many practical respects to conventional debit, credit and ATM card. The Account holder can only use the card to pay Zakat. Therefore, this is conclusive for use by Islamic consumer. The card must solely be used to pay Zakat and any organization or individual permitted according to Shariah to receive Zakat can accept the payment using special Card Reading Device. A PIN number shall also be provided to withdraw cash with an intention to pay Zakat. Details of any cash withdrawn or payment made by the card shall appear on the bank statement of the account holder under the heading of Zakat. The Account holder can also be provided with a separate statement for Zakat expenditure. However the account holder must instruct the bank to allocate certain amount after calculating his Zakat. That will be regarded as the limit of the Zakat card. However the account holder can anytime reload the card by instructing the bank since the account holder is in the best position to know about his Zakat amount. This will enable the card holder to maintain a correct account of his Zakat. Furthermore Zakat card will give Zakat which is one of the pillars of Islam an individual identity. Zakat Card will remind the Muslims their holy duty of paying Zakat.

- 143/2016 LIM, Jee Keng (A national of Singapore), (whose legal address is 104 Jalan Bumbong, Singapore 739918, Singapore) Priority: SG PCT/SG2015/050192 Dated: 30-06-2015
- Multi-Functional Tray.  
IPC: A 01G 9/02, B 65D 1/36, E 04D 11/00  
**1005897**
- Abstract:** A multi-functional tray that can be used in various applications to form different products, such as planter board for green roof plantation, thermal insulation structure for roof deck insulation, solid concrete panel for building construction, etc. The tray comprises an upper portion, a lower portion, and a backing layer connected between the upper portion and the lower portion. The lower portion comprises a plurality of reservoirs with through holes. The upper portion has a plurality of partitions and securing units to secure the material in the upper portion.
- 147/2016 Telefonaktiebolaget LM Ericsson (Publ), a company of organized and existing under the laws of Sweden, (whose legal address is SE-164 83 Stockholm, Sweden) Priority: PCT/CN2015/083557 Dated: 08-07-2015
- A METHOD AND APPARATUS FOR REPORTING DATA FROM A WIRELESS DEVICE TO A NETWORK NODE OF A COMMUNICATION NETWORK.  
IPC: H 04L 12/26, 29/06, H 04W 24/10  
**1005891**
- Abstract:** A method executable in a wireless device, comprising a MBMS client and a non-MBMS client, for reporting QoE from the wireless device to a second network node of a wireless network, is suggested. The method comprise: receiving, from a first network node, a message indicating that QoE reporting from the MBMS client shall be coordinated with QoE reporting from the non-MBMS client; determining, by the MBMS client, whether or not the MBMS client is to establish coordinated QoE reports to the second network node; coordinating, between the MBMS client and the non-MBMS client, a coordinated QoE reporting configuration at least partly on the basis of the result of said determining; determining, by the non-MBMS client, on the basis of content of said configuration, whether or not the non-MBMS client is to establish coordinated QoE reports to the second network node, and transmitting any established, coordinated QoE report to the second network node.
- 172/2016 Telefonaktiebolaget LM Ericsson (Publ), a Swedish company, (whose legal address is SE-164 83 Stockholm, Sweden) Priority: SE PCT/SE2015/050919 Dated: 01-09-2015
- SPATIAL IMPROVEMENT OF TRANSFORM BLOCKS.  
IPC: H 04N 19/122, 19/176, 19/61, 19/86  
**1005889**
- Abstract:** Reconstructed prediction errors in a sub-portion of a residual block obtained by inverse transforming a transform block are modified in order to spatially improve localized portions of the residual block, e.g. to compensate for visual artifacts from transform coding. The modification affects reconstructed prediction errors in the sub-portion of the residual block but not reconstructed prediction errors in a remaining portion of the residual block.

173/2016 Telefonaktiebolaget LM  
Ericsson (Publ), a Swedish  
company, (whose legal address  
is SE-164 83 Stockholm,  
Sweden) Priority: US  
62/205,462  
Dated: 14-08-2015

USER EQUIPMENT AND EVOLVED NODE B FOR  
SIGNALING IN-DEVICE COEXISTENCE PROBLEMS  
WITH UPLINK CARRIER AGGREGATOR.

*IPC:* H 04L 5/00

**1005888**

**Abstract:** The present disclosure provides methods, devices, and systems for signaling of In-Device Coexistence (IDC) problems in uplink (UL) Carrier Aggregation (CA). Embodiments of a method in a User Equipment (UE) in communication with an Evolved Node B (eNB) are disclosed. In some embodiments, the method in the UE comprises sending an IDC indication to the eNB including information of problematic UL CA combinations. In this manner, the eNB is provided an indication from which the eNB can deduce which frequencies need to be avoided for UL CA.

211/2016 Hishab Limited, a company  
incorporated under the laws of  
Bangladesh of (whose legal  
address is 7th & 8th floor, Plot  
no. 183, Block B, Main Road,  
Ahmed Akbar Sobhan Road,  
Bashundhara R/A, Dhaka 1229,  
Bangladesh)

A System and method of User's Registration and Report  
Generation for User's Voice Based Input through  
Telecommunication Networks.

*IPC:* H 04M 11/00

**1005887**

**Abstract:** The invention discloses a system of user's registration and report generation for user's voice based input through telecommunication networks. It provides provide user audio guidance to record necessary information to register with some software included system. The system creates new user account and merges user account with new contact number. The registered users perform their personal, business and/or financial transactions with the account. The voice based input and the authenticated transactions performed by the users is stored, transcribed and transmitted to deliver the user report generated in a multiple configured system through IVR, Automatic Speech Recognition (ASR), data storage cloud, plurality of asterisk switch or like this, database cloud configured with multiple set of data node like Cassandra, Apache Spark Cluster, Rabbit MQ (Task Que) and analytic software systems.

- 228/2016      QUALCOMM  
 Incorporated, an USA  
 Nationality, (whose legal  
 address is 5775 Morehouse  
 Drive, San Diego, California  
 92121-1714, United States of  
 America)  
 Priority: US 14/223,091  
 Dated: 24-03-2014
- SPECULATIVE HISTORY FORWARDING IN  
 OVERRIDING BRANCH PREDICTORS, AND RELATED  
 CIRCUITS, METHODS, AND COMPUTER-READABLE  
 MEDIA.  
*IPC: G 06F 9/38*  
**1005881**
- Abstract:** Speculative history forwarding in overriding branch predictors, and related circuits, methods, and computer-readable media are disclosed. In one aspect, a method for performing branch prediction of fetched instructions in a processor is provided. A first branch prediction of a conditional branch instruction is predicted based on a first branch prediction history, which is then updated based on the first branch prediction. The first branch prediction is forwarded to a second branch prediction history as a speculative prediction. A second branch prediction is predicted by a second branch predictor based on the second branch prediction history including the speculative prediction. The second branch prediction is compared to the speculative prediction, and, if different, the speculative prediction is overridden by updating the first branch prediction in the first branch prediction history and the speculative prediction in the second branch prediction history based on the second branch prediction.
- 32/2016      TATA MOTORS LIMITED, a  
 company organized and  
 existing under the laws of  
 India, (whose legal address is  
 Bombay House, 24 Homi  
 Mody Street, Hutatma Chowk,  
 Mumbai 400 001, India) and  
 TATA MOTORS EUROPEAN  
 TECHNICAL CENTRE PLC,  
 a company organized and  
 existing under the laws of  
 U.K., (whose legal address is  
 Commercial Department  
 International Automotive  
 Research Centre, University of  
 Warwick, Coventry CV4 7AL,  
 United Kingdom., United  
 Kingdom)  
 Priority: IN 456/MUM/2015  
 Dated: 12-02-2015
- COMPONENT JOINING METHOD AND COMPONENT  
 JOINING STRUCTURE.  
*IPC: H 010 23/48*  
**1005910**
- Abstract:** Aspects of the present disclosure relate to a component joining method comprising; interposing an intermediate member between at least one first component and a second component, joining the intermediate member, the at least one first component and the second component to one another by electrical welding through the intermediate member, wherein the electrical welding is arranged to bring the at least one first component and the second component in mechanical and electrical communication with one another at least in part through the intermediate member. A component joining structure so formed finds particular application in attaching battery cell tabs to battery busbars.



- 35/2016 Tata Motors Limited, a company organized and existing under the laws of India, (whose legal address is Bombay House, 24 Homi Mody Street, Hutatma Chowk, Mumbai 400 001, India) and Tata Motors European Technical Centre Plc., a company organized and existing under the laws of U.K., (whose legal address is 18, Grosvenor Place, London SW1X 7HS, United Kingdom., United Kingdom)  
Priority: IN 520/MUM/2015  
Dated: 18-02-2015
- BATTERY MODULES AND METHODS FOR THEIR MANUFACTURE.**  
*IPC:* H 01M 2/00, 2/02, 2/20  
**1005911**
- Abstract:** A method of making a battery module comprising a plurality of interconnected cells (e.g. pouch cells), each cell having a plurality of terminals, the method comprising: (i) arranging a plurality of cell groups, each group comprising 1, 2, 3 or more individual cells, e.g. in the form of a face-to-face cell stack or a side-by-side cell sub-array, into a side-by-side array, wherein pairs of cell terminals in adjacent respective cell groups are adjacent one another, and preferably of opposite polarity; (ii) interconnecting the adjacent cell terminals within each respective pair via a or a respective busbar element, e.g. of a flexible, braided, monometallic material, preferably by ultrasonic welding, so as to interconnect adjacent cell groups; and then, subsequent to step (ii), (iii) configuring the interconnected cell groups, e.g. by folding, into a face-to-face array to form the said battery module.
- 46/2016 Green Impact Holding AG, a Company incorporated under the laws of Switzerland, (whose legal address is Alte Steinhäuser Str. 1, 6330 Cham/Zug, Switzerland)  
Priority: EP 15000574.2  
Dated: 27/02/2015 and EP 15203186.0  
Dated: 30-12-2015
- Exhaust process for the manufacture of highly antimicrobial textiles.**  
*IPC:* B 01D 39/1607, D 06M 11/00, 15/03  
**1005903**
- Abstract:** The invention relates to a method of manufacturing a textile material with antimicrobial compounds in such a manner to chemically bind or attach said compounds to the textile material, and to the treated textile material which performs as a disinfectant or sterilizer on its own. The treated textile material exhibits wash-durability and non-leaching properties. The process comprises an exhaust process cycle comprising the steps of treating the textile material using an exhaust process, wherein the liquor comprises one or more antimicrobial agents, and subjecting the treated textile material to a heat treatment. The invention further relates to a device for purifying water, which can operate based on gravity and without electricity.
- 77/2016 Tata Motors Limited, an Indian company, (whose legal address is Bombay house, 24 Homi Mody Street, Hutatma Chowk, Mumbai 400 001, Maharashtra, India)  
Priority: IN 1070/MUM/2015  
Dated: 27-03-2015
- A SYSTEM FOR CHANGING DRIVE MODES OF A VEHICLE.**  
*IPC:* B 60K 35/00, B 60W 30/14  
**1005902**
- Abstract:** A system for changing drive modes of a vehicle includes a bracket mounted over a floor of vehicle and has slot configured thereon, a lever, a pivot link, an adjustable link rod and a shift shaft lever. The lever is partially received and moves within the slot. The pivot link is pivotably supported underneath bracket, is connected to the lever and swivels as lever moves. The adjustable link rod is securely connected to pivot link and moves as pivot link swivels. The shift shaft lever is securely mounted over and moves with adjustable link rod as actuation forces are transferred from lever to shift shaft lever via pivot link and adjustable link rod to cause actuation of transfer case assembly disposed underneath the floor for changing drive modes.

- 121/2016    SECURE INTERNATIONAL    Utility meter with optical detection means.  
 HOLDINGS PTE. LTD.  
 A company organized and existing under the laws of Singapore, (whose legal address is 3 Philip Street, # 18-00, Commerce Point, 048693, Singapore)  
 Priority: GB 1511938.1  
 Dated: 08-07-2015 and IN 1506/DEL/2015  
 Dated: 26-05-2015
- IPC: G 01R 11/00*
- 1005906**
- Abstract:** From a first aspect, a utility meter is provided and comprises: means for measuring the consumption of a utility; a housing for the measuring means; the housing associated with an optical detection means that is arranged to detect movement of part of the housing. In one embodiment, the optical detection means detects movement of the housing relative to the optical detection means. The optical detection means is located within the utility meter, and comprises a photo electric arrangement including an optical transmitter for emitting an optical signal and a receiver for receiving optical signals From another aspect, an optical detection apparatus for a utility meter is provided, comprising: means for attaching to a surface within the utility meter; a photo electric arrangement including an optical transmitter for emitting an optical signal and a receiver for receiving optical signals; and a mechanism for blocking or interrupting the signal emitted from the transmitter from reaching the receiver, wherein part of the mechanism is adapted to be coupled to a housing of the utility meter, such that movement of the part of the housing causes movement of the part of the mechanism.
- 122/2016    Secure International Holdings    Utility meter with a touch sensitive area.  
 Pte. Ltd., a company organized and existing under the laws of Singapore, (whose legal address is 3 Philip Street, # 18-00, Commerce Point, 048693, Singapore)  
 Priority: GB 1511935.7  
 Dated: 08-07-2015 and IN 1505/DEL/2015  
 Dated: 26-05-2015
- IPC: G 01R 11/00*
- 1005907**
- Abstract:** From a first aspect, a utility meter is provided and comprises: means for measuring the consumption of a utility; a housing for the measuring means, wherein the housing has a user input area that is touch sensitive. The meter further comprises: a sensor means associated with the touch sensitive area; and a processing means in communication with the sensor means and adapted to interpret an input in the touch sensitive area. Preferably, the touch sensitive area is a surface of a predefined part of the housing. In one embodiment, there is a sensor means that is a capacitive touch sensor that is associated with the touch sensitive area. From another aspect, a utility meter is provided and comprises: means for measuring the consumption of a utility; a housing for the measuring means: two input terminals and two output terminals on the housing, at least one of the input and output terminals being connected to the consumption measuring means, and the at least one of the input and output terminals are arranged on the housing in a non-linear configuration.

- 170/2016 Stamicarbon B.V., a company organized and existing under the laws of Netherlands, (whose legal address is Mercator 2, 6135 KW Sittard, Netherlands)  
Priority: EP 15177441.1  
Dated: 20-07-2015
- DUPLEX STAINLESS STEEL AND USE THEREOF.  
*IPC: C 21D 8/00*  
**1005908**
- Abstract:** The present disclosure relates to a corrosion resistant duplex stainless steel (ferritic austenitic alloy) which is suitable for use in a plant for the production of urea; and uses thereof. The disclosure also relates to objects made of said duplex stainless steel. Furthermore, the present disclosure also relates to a method for the production of urea and to a plant for the production of urea comprising one or more parts made from said duplex stainless steel, and to a method of modifying an existing plant for the production of urea.
- 6/2017 Munawar Misbah Moin, Managing Director, (whose legal address is Rahimafrooz Renewable Energy Limited 260/B, 5th Floor, Tejgaon Industrial Area, Dhaka, Bangladesh)  
Priority:
- Cook stove and production method thereof.  
*IPC: F 24B 1/20*  
**1005909**
- Abstract:** A cook stove is introduced for cost effective cook stove. It produce less smoke, which keeps house smut (ink) free and clean. Besides, it doesn't emit black carbon to the environment and doesn't create harmful effect for the environment. It can be moved one place to another place and it has no installation hassles. Stylish outlook makes it more attractive than traditional stove. A solar penal and firing system is also introduced into the present cook stove.
- 180/2017 Green Impact Holding AG, a corporation organized and existing under the laws of Switzerland, (whose legal address is Alte Steinhauser Str. 1, 6330 Cham/Zug, Switzerland)  
Priority: EP 15000574.2  
Dated: 27-02-2015 and EP 15203186.0  
Dated: 30-12-2015
- Exhaust process for the manufacture of highly having antimicrobial textiles.  
*IPC: B 01D 39/1607, D 06M 11/00, 15/03*  
**1005904**
- Abstract:** The invention relates to a method of manufacturing a textile material with antimicrobial compounds in such a manner to chemically bind or attach said compounds to the textile material, and to the treated textile material which performs as a disinfectant or sterilizer on its own. The treated textile material exhibits wash-durability and non-leaching properties. The process comprises an exhaust process cycle comprising the steps of treating the textile material using an exhaust process, wherein the liquor comprises one or more antimicrobial agents, and subjecting the treated textile material to a heat treatment. The invention further relates to a device for purifying water, which can operate based on gravity and without electricity.

206/2017 Green Impact Holding AG, a company incorporated under the laws of Switzerland, (whose legal address is Alte Steinhauser Str. 1, 6330 Cham/Zug, Switzerland)  
Priority: EP 15000574.2  
Dated: 27-02-2015 and EP 15203186.0  
Dated: 30-12-2015

Exhaust process for the manufacture of highly antimicrobial textiles.

*IPC:* B 01D 39/1607, D 06M 11/00, 15/03

**1005905**

**Abstract:** The invention relates to a method of manufacturing a textile material with antimicrobial compounds in such a manner to chemically bind or attach said compounds to the textile material, and to the treated textile material which performs as a disinfectant or sterilizer on its own. The treated textile material exhibits wash-durability and non-leaching properties. The process comprises an exhaust process cycle comprising the steps of treating the textile material using an exhaust process, wherein the liquor comprises one or more antimicrobial agents, and subjecting the treated textile material to a heat treatment. The invention further relates to a device for purifying water, which can operate based on gravity and without electricity.

**Md. Saidur Rahman**  
Deputy Registrar (Patents & Designs).