গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
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নং-৩৬.০৮.০০০০.২০০.১৬.০০১.২২.২৬৮৯ তারিখঃ ২৩/১০/২০২৫ খ্রি.

বিষয়ঃ দাখিলকৃত পেটেন্ট আবেদনসমূহ ওয়েবসাইটে প্রকাশ।

বাংলাদেশ পেটেন্ট আইন, ২০২৩ এর ধারা ১৭ অনুযায়ী ডিপিডিটিতে ২০২৩ সালে দাখিলকৃত পেটেন্ট আবেদন নং ২২৭, ২২৯-২৩৩, ২৩৫-২৩৬, ২৩৮-২৩৯, ২৪১-২৪৫, ২৪৭-২৭৮, ২৮১-২৯৪, ২৯৯-৩১১, ৩১৩, ৩১৫-৩২০ এবং ২০২৪ সালে দাখিলকৃত পেটেন্ট আবেদন নং ১, ৩, ৫-১৪, ১৬-২২, ২৫-২৬, ২৯-৩১, ৩৩-৩৮, ৪০-৪৫, ৪৮-৬১, ৬৩-৭৫, ৭৭, ৭৯-৮২, ৮৫-৮৭, ৮৯-৯০ মোট ১৫৪ (একশত চুয়ান্ন) টি আবেদন নিম্নবর্ণিত তথ্যাদি সহ অধিদপ্তরের ওয়েবসাইটে (www.dpdt.gov.bd) প্রকাশ করা হল।

(ক) উদ্ভাবনের শিরোনাম;
(খ) পেটেন্ট আবেদনকারী ও উদ্ভাবকের নাম;
(গ) আবেদন দাখিলের তারিখ ও নম্বর;
(ঘ) অগ্রাধিকার নম্বর ও তারিখ, যদি থাকে;
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(চ) উদ্ভাবনের মূল উপাদান চিত্রায়িত করে এইরূপ অংকন, যদি থাকে;
(ছ) বিষয়বস্তুর সার-সংক্ষেপ।

সংযুক্তিঃ ১৫৪ (একশত চুয়ান্ন) পাতা।

২৩/১০/২৫
মোঃ হাবিবুর রহমান
উপ-পরিচালক (পেটেন্ট)

অনুলিপিঃ
১। পরিচালক (সকল), পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর, ঢাকা।
২। সিস্টেম এনালিস্ট, পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর। (ওয়েবসাইটে প্রকাশের জন্য)
৩। উপ-পরিচালক (পেটেন্ট) (সকল), পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর, ঢাকা।
৪। মহাপরিচালক মহোদয়ের ব্যক্তিগত সহকারী, পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর, ঢাকা।

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-227
(22) Filed: 05/09/2023
(23) Priority Data:

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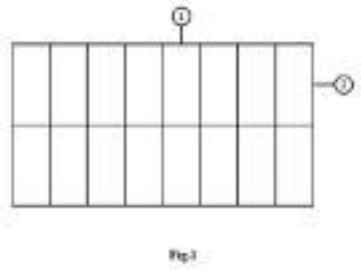
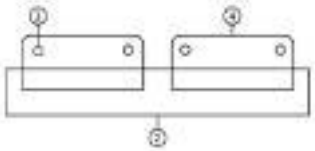
(72) Inventors: (0) Md. Jasim Uddin, R&D Engineer of Greentech Bangladesh, Saliakandi, Cumilla-3519, Bangladesh Nationality -Bangladesh

(51) INT. CL. : B28B 7/00

(54) Invention Title: iGBM Machine: Implement for Green Brick Manufacturing

(57) Abstract
The iGBM machine that is used for green brick making, brick material forced into a mould to shape a brick. Then yield on a tray, material handling apparatus keep the bricks either stack in vertical columns or arrayed in horizontal fashion. The concern machine mould comprises a lower body that has a cavity with mould frame, longitudinal and transverse plates furnished and tightly attached to the lower part of the mould. These plates are connected in an insertion mode and tightened with the mould frame. The steel plates are arranged onto a lower body part where the two surfaces of longitudinal and transverse plates joined in a pattern of being perpendicular, and tightly attached. This whole system is put onto a load bearing unit where chain pinion system acting in the lower frame of the machine.





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(22) Filed: 11/09/2023

(23) Priority Data:
India, Number :202241054285, Date : 22-09-2022.

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(72) Inventors: (0) Shamir Genomal of Page Industries Limited, Bengaluru - 560103, India Nationality -India

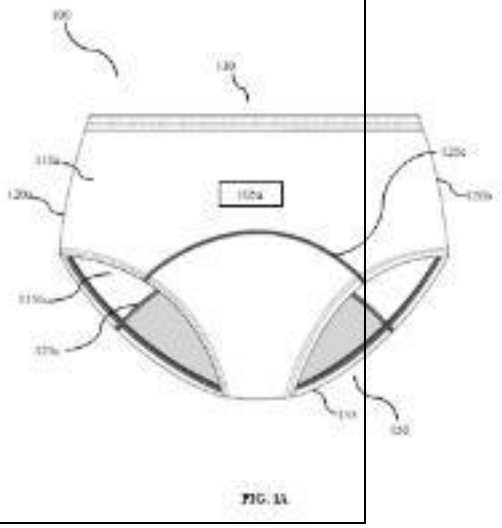
(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : A61F 13/494

(54) Invention Title: AN UNDERGARMENT

(57) Abstract

An undergarment is provided. The undergarment includes a first fabric and a second fabric adapted to cover a front pelvic and a rear pelvic region, respectively, of a user. The undergarment includes a third fabric attached along a first and a second periphery of each of the first and the second fabric, to cover a crotch region of the user. The third fabric includes a first layer, a second layer, and a third layer. The first layer is positioned in contact with a crotch region of the user and is adapted to receive body fluid. The second layer is attached to the first layer and is adapted to receive the body fluid from the first layer and temporarily retain the body fluid therein. The third layer, having at least two sub-layers, is attached to the second layer and is adapted to prevent passage of the body fluid towards the third fabric, and thereby prevent leakage of the body fluid and soiling of the undergarment.



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(22) Filed: 12/09/2023

(23) Priority Data:
China, Number :2022128465, Date : 30-10-2022. and China, Number :2023113985, Date : 21-08-2023.

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(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : H04W 60/04

(54) Invention Title: SMART POLICY RULE UPDATE

(57) Abstract
The embodiments herein relate to smart policy rule update. In some embodiments, there proposes a method (500) performed by a second network function (102) implementing a Session Management Function (SMF). The method (500) may comprise the step of receiving (S501), from a first network function (101) implementing an Access and Mobility Management Function (AMF), a first message including a first parameter indicating a first retry-after time. The first retry-after time may indicate the second network function (102) to stop sending a message for a User Equipment (UE) (106) before the first retry-after time is timeout. The method (500) may further comprise the step of transmitting (S502) based on the first message, to a third network function (103) implementing a Policy Control Function (PCF), a second message including a second parameter indicating a second retry-after time during which the UE (106) is considered unreachable. The embodiments may reduce the signal exchange between the PCF and the SMF when the UE is not reachable or the UE is busy on other procedures.

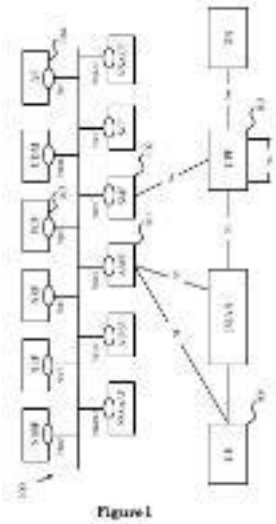

Figure 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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(23) Priority Data: United Kingdom, Number :22136634, Date : 16-09-2022.
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(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh
(51) INT. CL. : A61K 31/522
(54) Invention Title: Aerosolisable Formulation
(57) Abstract There is provided anaerosolisable formulation comprising(i) caffeine; (ii) a solvent selected from water, propylene glycol, glycerol and mixtures thereof; and (iii) a buffer comprising benzoic acid and a benzoate.

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(21) Appl. No. BD-P-2023-232
(22) Filed: 17/09/2023

(23) Priority Data:
Japan, Number :2022035703, Date : 26-09-2022.

(71) Applicant: YKK CORPORATION of 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Nationality -Japan

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(74) Agent : Rahman IP Solutions, {app_representative_address}, Bangladesh

(51) INT. CL. : A44B 19/42

(54) Invention Title: SEWING UNIT, SEWING MACHINE, AND METHOD FOR MANUFACTURING SLIDE FASTENER-ATTACHED PRODUCT

(57) Abstract

A sewing unit (30, 30a) according to the invention is a sewing unit (30, 30a) attached to a sewing machine (10) sewing a fastener stringer (1) onto a fastener attached member (5), having a motion detecting portion (40) detecting lifting and lowering motion of a sewing machine needle (15), a stringer feeding portion (50, 80) performing a feeding operation of the fastener stringer (1), and a position adjusting portion (60) adjusting a position of the stringer feeding portion (50, 80), wherein the stringer feeding portion (50, 80) has at least one feeding gear (51, 81) comprising a plurality of teeth and a rotation control portion (52, 82) intermittently rotating the feeding gear (51, 81) in response to a signal output from the motion detecting portion (40), and the sewing unit (30, 30a) has a structure that can be attached to and detached from an existing sewing machine (10). Thereby, the fastener stringer (1) can be sewn onto the fastener attached member (5) so that a sewing portion of a sewing thread can be formed at a position contacting fastener elements (3).

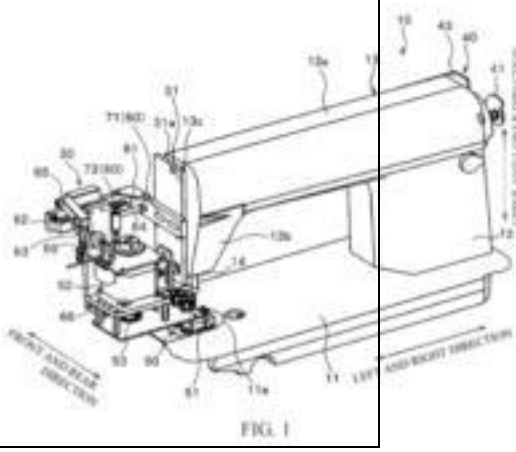

FIG. 1

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China, Number :2022121657, Date : 27-09-2022. and China, Number :2022121789, Date : 27-09-2022.

(71) Applicant: Telefonaktiebolaget LM Ericsson (publ) of SE-164 83 Stockholm, Nationality -Sweden

(72) Inventors: (0) Alessio Terzani of Sickla Kanalgata 7, SE-120 67 STOCKHOLM, Sweden Nationality -Italy, (1) Lian Araujo of Ankdammsgatan 30, SE-171 43 SOLNA, Sweden Nationality -Brazil, (2) Muhammad Ali Kazmi of Skrivargatan 7, SE-174 64 Sundbyberg, Sweden Nationality -Sweden, (3) Zhixun Tang of ET2, No. 5, Lize East Street, Chaoyang District, 100102 BEIJING Beijing, China Nationality -China, (4) Tahmineh Torabian Esfahani of Svampvägen 10A, SE-192 51 SOLLENTUNA, Sweden Nationality -Sweden

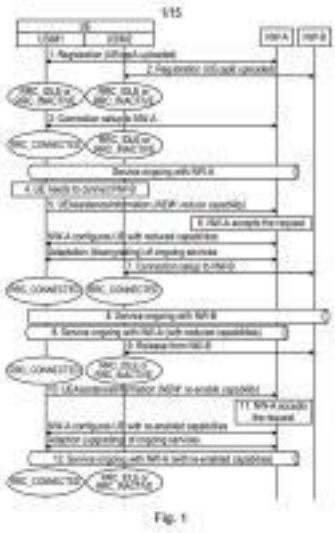
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : H04W 8/18

(54) Invention Title: METHODS AND APPARATUSES FOR PROVIDING A CAPABILITY RESTRICTED INDICATION FROM MULTI-UNIVERSAL SUBSCRIBER IDENTITY MODULE USER EQUIPMENT TO NETWORK

(57) Abstract

Embodiments described herein relate to methods and apparatuses for indicating capability restricted information. A method in a user equipment comprises establishing or resuming a second service with a second network according to a second subscription; and indicating to the second network that the user equipment has different capabilities for the second service than capabilities previously indicated to a radio access technology node.



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(22) Filed: 20/09/2023

(23) Priority Data:
Italy, Number :2022000019224, Date : 20-09-2022.

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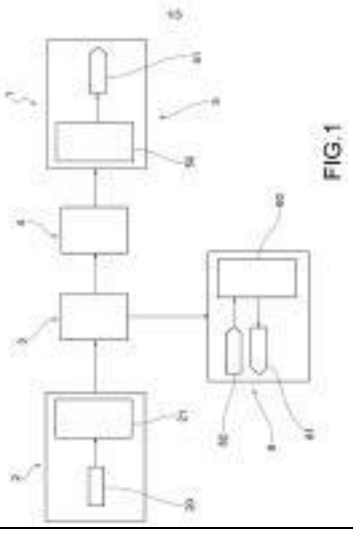
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : E06B 9/68

(54) Invention Title: COGENERATION PLANT

(57) Abstract

The invention consists of a cogeneration plant comprising a generation group (2) for producing oxyhydrogen, an actuator (3) supplied with said incoming oxyhydrogen, and producing exhaust gases, an electric generator (4) positioned downstream and controlled by the actuator (3) and suitable for producing electric energy, a first user device (5) which uses said electric energy, and a second user device (6) which uses said exhaust gases.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-236
(22) Filed: 25/09/2023

(23) Priority Data:
Japan, Number :2022047732, Date : 23-12-2022.

(71) Applicant: YKK CORPORATION of 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Nationality -Japan

(72) Inventors: (0) ITO, Nobuhisa of c/o YKK CORPORATION, 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Japan Nationality -Japan, (1) SHIMURA, Yuki of c/o YKK CORPORATION, 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Japan Nationality -Japan, (2) SUZUKI, Hiroyuki of c/o YKK CORPORATION, 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Japan Nationality -Japan, (3) ADACHI, Shunichi of c/o YKK CORPORATION, 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Japan Nationality -Japan, (4) AMANO, Masanori of c/o YKK CORPORATION, 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Japan Nationality -Japan

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : A44B 1/34

(54) Invention Title: BUTTON MEMBERS

(57) Abstract

The present invention provides a set of button members that is easy to attach to a substrate.Aset of button members includes at least a button and a button fixture, wherein the button fixture comprises a base portion, and a plurality of protrusions projecting from the base portion as part of the button fixture; and wherein a Vickers hardness of a material forming the plurality of protrusions is lower than a Vickers hardness of a material forming the button.

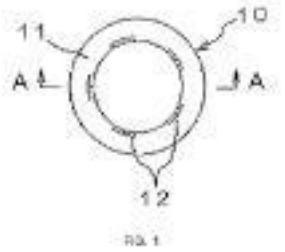

Fig. 1

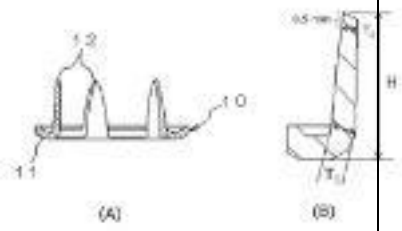

Fig. 2

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(11) Patent registration No and date , **(21) Appl. No.** BD-P-2023-238 **(22) Filed:** 27/09/2023
(23) Priority Data: European Patent Office (EPO), Number :222093668, Date : 24-11-2022. and India, Number :202211056712, Date : 03-10-2022.
(71) Applicant: Huntsman Textile Effects (Germany) GmbH of Rehlinger Strasse 1, 86462 Langweid am Lech, Nationality -Germany
(72) Inventors: (0) Bhoge, Yogesh E of c/o Huntsman International (India) Pvt. Ltd, Hiranandani Business Park, Lighthall B-Wing, 7th Floor, Opp. Linkway Honda Showroom, Saki Vihar Road, Chandivali, Andheri (E) Mumbai, Maharashtra, India Nationality -India, (1) Surve, Santosh of c/o Huntsman International (India) Pvt. Ltd, Hiranandani Business Park, Lighthall B-Wing, 7th Floor, Opp. Linkway Honda Showroom, Saki Vihar Road, Chandivali, Andheri (E) Mumbai, Maharashtra, India Nationality -India, (2) Chatterjee, Rasika of c/o Huntsman International (India) Pvt. Ltd, Hiranandani Business Park, Lighthall B-Wing, 7th Floor, Opp. Linkway Honda Showroom, Saki Vihar Road, Chandivali, Andheri (E) Mumbai, Maharashtra, India Nationality -India
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh
(51) INT. CL. : D06P 5/22
(54) Invention Title: METHOD FOR DYEING COTTON-CONTAINING TEXTILE MATERIAL
(57) Abstract The present invention relates to a method for dyeing cotton-containing textile material, wherein the textile material is treated with a liquor containing at least one reactivedye, at least onesurfactant, at least onesilicone oil and water.

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(21) Appl. No. BD-P-2023-239
(22) Filed: 27/09/2023

(23) Priority Data:
Japan, Number :2022156277, Date : 29-09-2022.

(71) Applicant: NEC COMMUNICATION SYSTEMS, LTD of 4-28, Mita 1-chome, Minato-ku, Tokyo 1080073, Nationality -Japan

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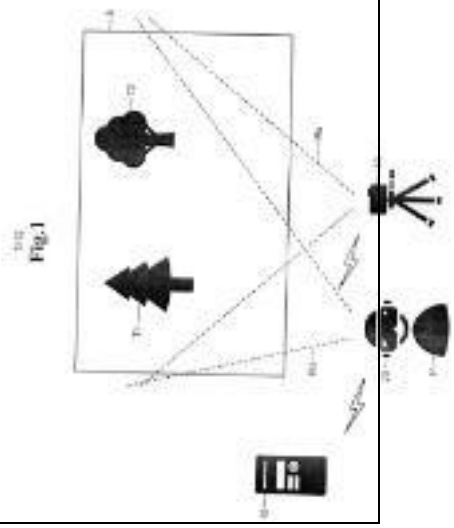
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : H04N 5/445

(54) Invention Title: INFORMATION DISPLAY SYSTEM

(57) Abstract

An information display system 100 of the present disclosure includes: an acquiring unit 121 that acquires position information of a display device displaying a real space image, an imaging device capturing an image of a predetermined target object, and the target object within a captured image captured by the imaging device; an aligning unit 122 that makes a position of the target object within the captured image correspond to a position of the display device based on the position information; a generating unit 123 that generates a virtual image of the target object based on the position information of the target object; and a display control unit 124 that controls the display device to display the virtual image of the target object made to correspond to the position of the display device so as to be superimposed on the real space image.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-241
(22) Filed: 01/10/2023

(23) Priority Data:
United States of America, Number :63412270, Date : 30-09-2022.

(71) Applicant: CTC Global Corporation of 2026 McGaw Avenue, Irvine, California 92614, Nationality -United States of America

(72) Inventors: (0) Kevin CORBALIS of 2026 McGaw Avenue, Irvine, California 92614, United States of America Nationality -United States of America, (1) Eric BOSZE of 2026 McGaw Avenue, Irvine, California 92614, United States of America Nationality -United States of America, (2) David GOEKJIAN of 2026 McGaw Avenue, Irvine, California 92614, United States of America Nationality -United States of America

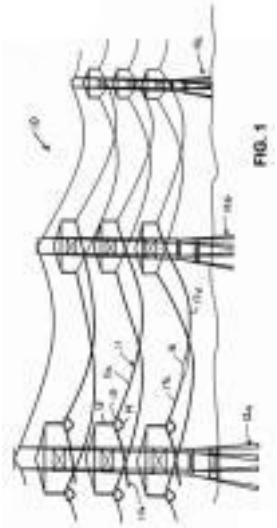
(74) Agent : MUNSHI & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : B61L 1/12

(54) Invention Title: SYSTEMS AND METHODS FOR OPERATING AN OVERHEAD ELECTRICAL LINE

(57) Abstract

Systems and methods for the determination of a health index associated with an overhead electrical cable having a fiber-reinforced composite strength member and an electrical conductor surrounding the fiber-reinforced composite strength member. Operational data is collected from the electrical cable during operation of the cable and that data is utilized to update the health index over time. The updated health index may be utilized to estimate the remaining useful lifetime of the overhead electrical cable on a continuous basis.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-242
(22) Filed: 05/10/2023

(23) Priority Data:
Korea, Number :1020220145379, Date : 03-11-2022.

(71) Applicant: KOREA ZINC CO., LTD. of 542 Gangnam-daero, Gangnam-gu, Seoul 06110, Nationality -Korea

(72) Inventors: (0) KIM, Min Cheol of 101-704, 18 Seoyeongnam 1-gil, Onsan-eup, Ulju-gun, Ulsan 45003, Korea Nationality -Korea, (1) CHOI, Heon Sik of Park-3101, 234 Beonyeong-ro, Nam-gu, Ulsan 44696, Korea Nationality -Korea

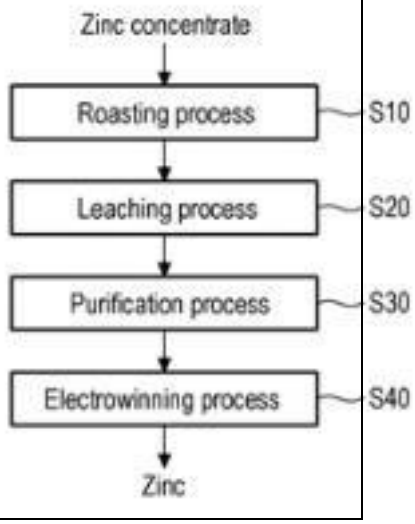
(74) Agent : Shahid & Alliance, {app_representative_address}, Bangladesh

(51) INT. CL. : B01J 19/18

(54) Invention Title: METHOD FOR REMOVING CHLORINE IN ZINC HYDROMETALLURGY

(57) Abstract

The present disclosure provides a method for removing chlorine from a process solution in zinc hydrometallurgy, the method comprising: a step for preparing the process solution from a leaching process of leaching a zinc calcine; a step for introducing the process solution to a reactor and introducing a lead concentrate into the reactor while blowing-in oxygen; a step for solid-liquid separating of a slurry in a filtration tank, the slurry being produced in the reactor; and a step for post-processing a filtrate and a lead concentrate residue separated in the step for solid-liquid separating, wherein chlorine ions in the process solution and silver contained in the lead concentrate react with each other in the reactor to precipitate a silver chloride.



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-243
(22) Filed: 05/10/2023

(23) Priority Data:
Korea, Number :1020220132523, Date : 14-10-2022.

(71) Applicant: KOREA ZINC CO., LTD. of 542 Gangnam-daero, Gangnam-gu, Seoul 06110, Nationality -Korea

(72) Inventors: (0) CHOI, Heon Sik of Park-3101, 234 Beonyeong-ro, Nam-gu, Ulsan 44696, Korea Nationality -Korea, (1) KANG, Sung Moon of 103-1010, 18 Seoyeongnam 1-gil, Onsan-eup, Ulju-gun, Ulsan 45003, Korea Nationality -Korea

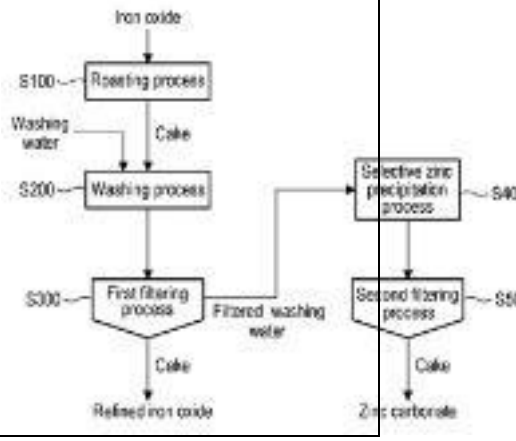
(74) Agent : Shahid & Alliance, {app_representative_address}, Bangladesh

(51) INT. CL. : B01J 23/745

(54) Invention Title: METHOD FOR MANUFACTURING HIGH-GRADE REFINED IRON OXIDE FROM IRON OXIDE AS BY-PRODUCT OF ZINC SMELTING PROCESS

(57) Abstract

The present disclosure discloses a method for refining an iron oxide that is a by-product of a zinc smelting process, the method including a roasting process of roasting the iron oxide, a washing process of washing a roasted iron oxide cake with a washing water, and a filtering process of filtering the washed iron oxide cake, thereby providing refined iron oxide.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-244
(22) Filed: 05/10/2023

(23) Priority Data:
Korea, Number :1020220132507, Date : 14-10-2022.

(71) Applicant: KOREA ZINC CO., LTD. of 542 Gangnam-daero, Gangnam-gu, Seoul 06110, Nationality -Korea

(72) Inventors: (0) CHOI, Heon Sik of Park-3101, 234 Beonyeong-ro, Nam-gu, Ulsan 44696, Korea Nationality - Korea, (1) JOO, Jae Hoon of 12-607, 18 Seoyeongnam 1-gil, Onsan-eup, Ulju-gun, Ulsan 45003, Korea Nationality - Korea

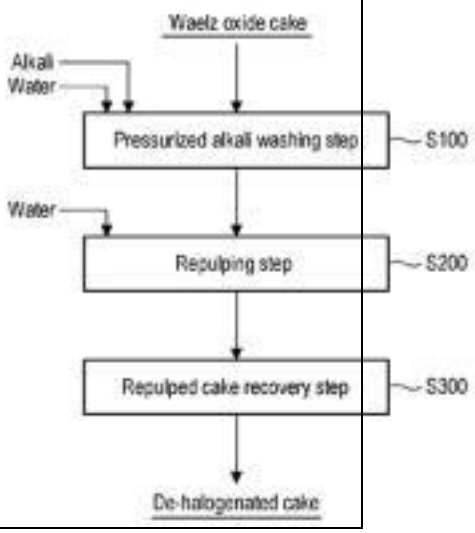
(74) Agent : Shahid & Alliance, {app_representative_address}, Bangladesh

(51) INT. CL. : C22B 19/28

(54) Invention Title: METHOD FOR REMOVING HALIDE FROM WAELZ OXIDE

(57) Abstract

The present disclosure relates to a method for removing halide from halide-containing Waelz oxide. According to the method, it is possible to effectively remove halide contained in Waelz oxide, especially insoluble fluoride such as CaF2, which are difficult to remove under atmospheric pressure conditions and present as insoluble substances. Accordingly, in the process of recovering valuable metals, an additional process for adjusting the concentration of fluorine or chlorine present in the electrolyte can be omitted, and costs can be reduced.



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-245
(22) Filed: 05/10/2023

(23) Priority Data:
Korea, Number :1020220128929, Date : 07-10-2022.

(71) Applicant: KOREA ZINC CO., LTD. of 542 Gangnam-daero, Gangnam-gu, Seoul 06110, Nationality -Korea

(72) Inventors: (0) CHOI, Heon Sik of Park-3101, 234 Beonyeong-ro, Nam-gu, Ulsan 44696, Korea Nationality - Korea, (1) PARK, Sung Won of 12-305, 18 Seoyeongnam 1-gil, Onsan-eup, Ulju-gun, Ulsan 45003, Korea Nationality - Korea

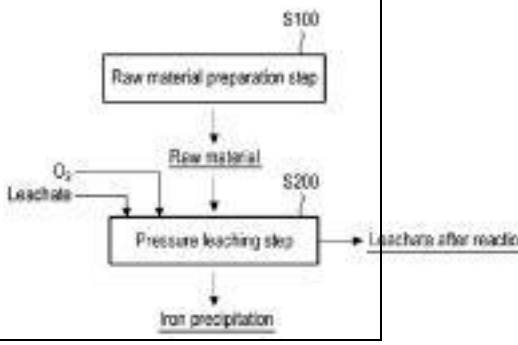
(74) Agent : Shahid & Alliance, {app_representative_address}, Bangladesh

(51) INT. CL. : B01D 25/28

(54) Invention Title: METHOD FOR LEACHING COPPER USING PRESSURE LEACHING TECHNIQUE

(57) Abstract

The present disclosure discloses a method for leaching copper using a pressure leaching technique, according to one embodiment, including: a raw material preparation step of preparing a raw material containing copper; and a pressure leaching step including a step of introducing the raw material into a leachate in a pressurization device and pressure-leaching copper while injecting oxygen into the pressurization device.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-247
(22) Filed: 16/10/2023

(23) Priority Data:
Japan, Number :20234097, Date : 13-01-2023.

(71) Applicant: JDC Corporation of 4-3-13 Toranomon, Minato-ku, Tokyo 105-8467, Nationality -Japan

(72) Inventors: (0) Yukihiro Tatewaki of 4-3-13 Toranomon, Minato-ku, Tokyo 105-8467, Japan Nationality -Japan, (1) Zhaotao Liu of 4-3-13 Toranomon, Minato-ku, Tokyo 105-8467, Japan Nationality -China

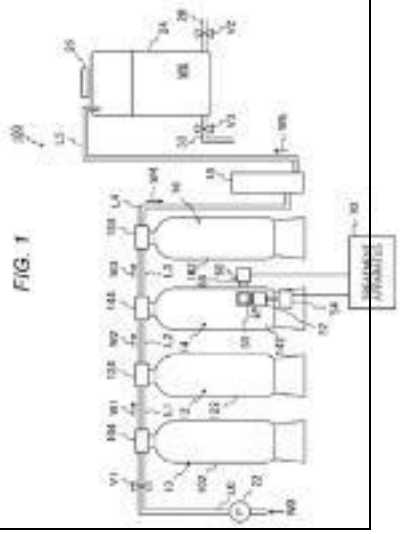
(74) Agent : MUNSHI & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : B01D 15/00

(54) Invention Title: LIQUID TREATMENT APPARATUS AND LAYERED DOUBLE HYDROXIDE REPLACEMENT METHOD

(57) Abstract

A liquid treatment apparatus includes a layered double hydroxide that is housed in a housing and adsorbs a harmful substance contained in a liquid in the housing. The housing has a window that makes the layered double hydroxide visible from the outside of the housing.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-248
(22) Filed: 17/10/2023

(23) Priority Data:

(71) Applicant: Md. Showkat Hossain of Uttara Tower, Level-4, 1 Jashim Uddin AVE, Sector-3, Uttara, Dhaka 1230, Nationality -Bangladesh

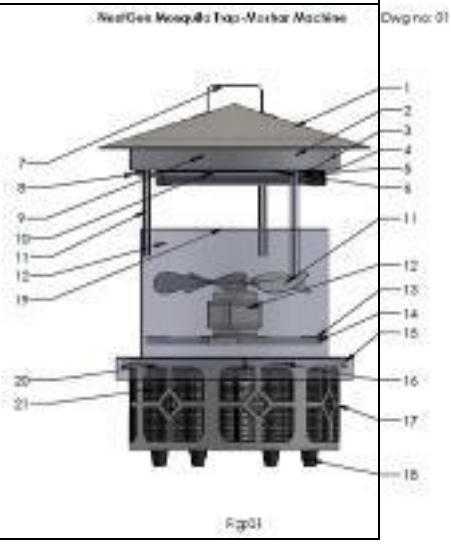
(72) Inventors: (0) Ashiqur Rahman Tanim of Uttara Tower, Level-4, 1 Jashim Uddin Avenue, Sector-3, Uttara, Dhaka 1230, Bangladesh Nationality -Bangladesh

(51) INT. CL. : A01M 1/10

(54) Invention Title: NextGen Mosquito and Insect Trap - Moshar Machine

(57) Abstract

The present invention is a mosquito trap utilizing the photo catalysis method. The trap comprises a housing, a light source, and a photocatalytic material coated on a surface within the housing. The photocatalytic material is activated by the light source and generates reactive oxygen species, which attracts mosquitoes and other insects. Once attracted, the mosquitoes are trapped in the housing, and the reactive oxygen species eliminate them. The trap is eco-friendly, as it does not use any harmful chemicals or emit any harmful gases. Additionally, the trap is efficient, cost-effective, and can be used both indoors and outdoors. The invention offers a sustainable solution to the problem of mosquito control and can be used in residential, commercial, industrial and public spaces.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-249
(22) Filed: 17/10/2023

(23) Priority Data:
Brazil, Number :1020220210160, Date : 17-10-2022. and Pakistan, Number :6882022, Date : 17-10-2022. and European Patent Office (EPO), Number :223829896, Date : 17-10-2022. and Singapore, Number :10202251407, Date : 17-10-2022. and United States of America, Number :18047027, Date : 17-10-2022.

(71) Applicant: Archroma IP GmbH of Neuhofstr. 11, 4153 Reinach, Nationality -Switzerland

(72) Inventors: (0) LUCIC, Erwin of Unterm Schellenberg 51, 4125 Riehen, Switzerland Nationality -Croatia, (1) DE VITA, Umberto of Rambla de la pau 54, 4-4, 08800 Vilanova I la geltru', Barcelona, Spain Nationality -Italy, (2) WICKLI, Andreas of Peterhansstr. 8, CH-4415 Lausen, Switzerland Nationality -Switzerland

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : C09B 61/00

(54) Invention Title: LEUCOINDIGO SALT MIXTURE FROM NON-SYNTHETIC SOURCES FOR DYEING PROCESSES

(57) Abstract

Method for standardizing non-synthetic leucoindigo saltmixturein the textile industry containing no aniline or N-methylaniline, wherein the non-synthetic leucoindigo salt is obtained from non-synthetic sources such as microorganisms or plants, comprising the non-synthetic leucoindigo salt in the range of from 5 to 60 % by weight.

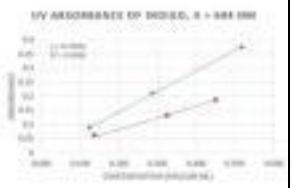

Figure 1: Synthetic indigo (rhomb); natural indigo sample NI-20200801 (square).

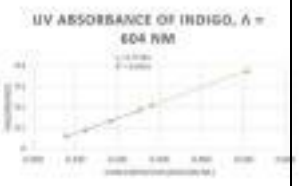

Figure 2: Synthetic indigo (triangle); natural indigosample NI-20200801 (X).

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Publication of Filed Patent Application
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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-250
(22) Filed: 17/10/2023

(23) Priority Data:

(71) Applicant: JOINT-STOCK COMPANY 'URBAN GAZ LIMITED" of House- 1/2 (2nd floor), Gopi Mohon Bashak Lane, Tipu Sultan Road, Dhaka, Wari, Dhaka, PO: 1203, Nationality -Bangladesh

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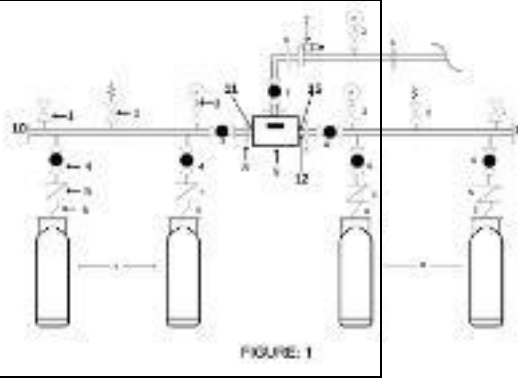
(51) INT. CL. : B65G 53/24

(54) Invention Title: IoT Management System to Access Real-Time Data and Enable Data Driven Switching Decision of LP Gas Manifolds

(57) Abstract
An IoT gas manifold management system that includes an IoT monitoring and switching device, LPG manifolds, LPG commercial cylinders, RFID and Barcode base data storage associated with LPG commercial cylinders, cloud IoT server and web based monitoring dashboard. The IoT device ensures uninterrupted supply of LPG through efficient switching decisions between LPG manifolds by sensing pressure data in its inlets and comparing it with trained data sets from cloud server. The IoT cloud server also keeps LPG commercial cylinders data and switching information to strategically manage the supply chain. The web based dashboard displays real-time tracking data of uses to users and associated LPG operators.



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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-251
(22) Filed: 19/10/2023

(23) Priority Data:
Japan, Number :2023007880, Date : 02-03-2023.

(71) Applicant: YKK CORPORATION of 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Nationality -Japan

(72) Inventors: (0) REN, Zhiyu of c/o YKK CORPORATION Kurobe,200,Yoshida,Kurobe-shi, Toyama, 9388601, Japan Nationality -China, (1) NAKAYA, Atsushi of c/o YKK CORPORATION Kurobe,200,Yoshida,Kurobe-shi, Toyama, 9388601, Japan Nationality -Japan

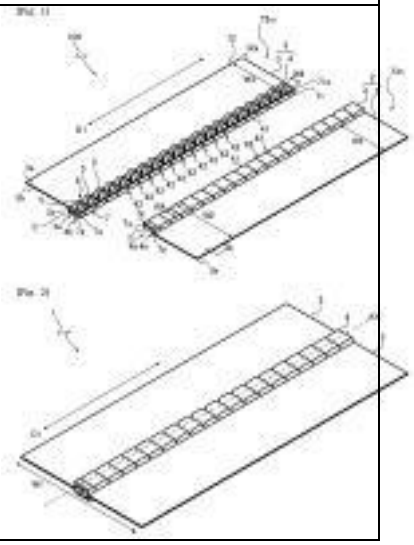
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : B64F 5/10

(54) Invention Title: Composite stringer and method of producing the same, and method of producing tape portion of composite stringer

(57) Abstract

Fastening device (100) includes a pair of composite stringers (2) and a slider (200). Tape portion (3) of each composite stringer (2) includes at least one sheet member (9), and a resin (78) that adheres to the at least one sheet member (9) and is formed as a layer extending along the at least one sheet member (9). The at least one sheet member (9) has a resin permeable structure. The resin (78) permeates the structure of said at least one sheet member (9). The tape portion (3) has surface conditions in accordance with the structure of the at least one sheet member (9) in both of the first and second tape faces (3a,3b) based on the permeation of the resin (78) into the structure of the at least one sheet member (9).



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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-252
(22) Filed: 19/10/2023

(23) Priority Data:
European Patent Office (EPO), Number :222153421, Date : 21-12-2022.

(71) Applicant: Groz-Beckert KG of Parkweg 2, 72458 Albstadt, Nationality -Germany

(72) Inventors: (0) STINGEL, Uwe of Wildensteinstraße 28, 72469 Meßstetten, Germany Nationality -Germany, (1) SAUTER, Jorg of Grimmelshausenstraße 19, 72458 Albstadt, Germany Nationality -Germany, (2) RAIBER, Benedikt of Riedstr. 9, 72469 Meßstetten, Germany Nationality -Germany

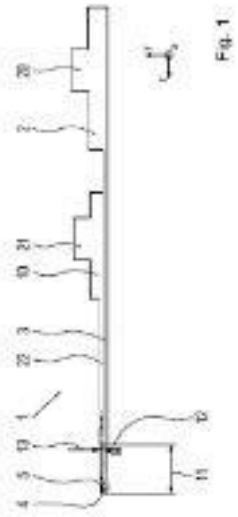
(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : D04B 35/06

(54) Invention Title: Compound needle for stitch-forming textile machines, stitch-forming textile machine and method for stitch formation

(57) Abstract

The invention relates to a compound needle (1) for stitch-forming textile machines, a stitch-forming textile machine and a method for stitch formation. In order to reduce the ingress of dirt and fluff into the slot (6) of a compound needle (1), a compound needle (1) according to the invention is configured in such a manner and is operated in such a manner in a stitch-forming textile machine that during operation a force (13) acts downwards in the vertical direction (y) on to the working area (11) of the slider (10) of the compound needle (1) and thus presses the slider (10) onto the slot base (8) of the slot (6).



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-253
(22) Filed: 22/10/2023

(23) Priority Data:
China, Number :2022126597, Date : 21-10-2022.

(71) Applicant: Ten Cate Industrial Zhuhai Co. Ltd. of 601, South of Nangang West Road, Gaolan Port, Economic Zone, Zhuhai, Guangdong 519050, Nationality -China

(72) Inventors: (0) Tack Weng Yee of B-SD-3 Persiaran Bukit Utama, Bandar Utama, Petaling Jaya, Selangor, Malaysia Nationality -Malaysia, (1) David Michael Jones of 2525 Ginger Drive, Buford, GA 30519, United States of America Nationality -United States of America

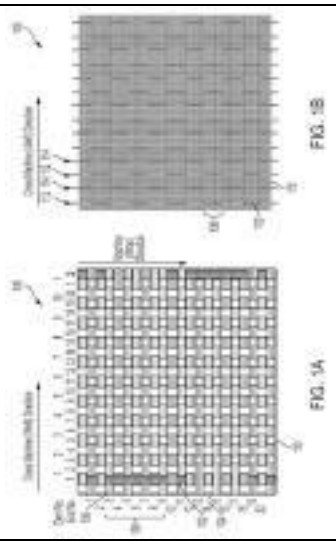
(74) Agent : APT IP LAW AGENCY BD., {app_representative_address}, Bangladesh

(51) INT. CL. : F23D 3/24

(54) Invention Title: Wicking Loop Cross-Plane Drainage Fabric

(57) Abstract

A geotextile fabric includes a first weft yarn woven in a weft direction and a first warp yarn and a second warp yarn woven in a warp direction, the first warp yarn being a wicking yarn, and the second warp yarn being a wicking yarn or a non-wicking yarn, the first warp yarn forming a first loop that is woven through and extends from a first face of the woven geosynthetic fabric and across at least two of the first weft yarns to form a first gap between the first loop and first the face of the woven geosynthetic fabric.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-254
(22) Filed: 23/10/2023

(23) Priority Data:
United Kingdom, Number :22156988, Date : 24-10-2022.

(71) Applicant: Harwich Haven Authority of Navigation House, Angel Gate, Harwich, CO12 3EJ, Nationality -United Kingdom

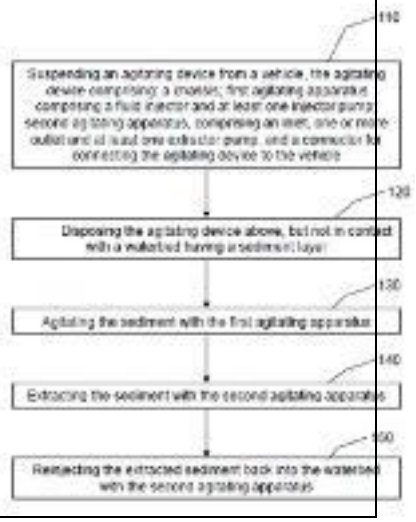
(72) Inventors: (0) Jeremy David WARNER of c/o Harwich Haven Authority, Navigation House, Angel Gate, Harwich, CO12 3EJ, United Kingdom Nationality -United Kingdom

(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : E21B 7/00

(54) Invention Title: Sediment Agitating Apparatus and Method

(57) Abstract
A method and apparatus for agitating sediment. The method comprises suspending an agitating device (200) from a vehicle. The agitating device (200) comprising a chassis (210), first agitating apparatus (220) comprising a fluid injector (330) and at least one injector pump (300). The agitating device (200) further comprises second agitating apparatus (230), comprising an inlet (370), one or more outlet (420) and at least one extractor pump (350). The method comprises suspending the agitating device (200) above, but not in contact with a waterbed having a sediment layer, agitating the sediment with the first agitating apparatus (220), extracting the sediment with the second agitating apparatus (230) and reinjecting the extracted sediment back into the waterbed with the second agitating apparatus (230).



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-255
(22) Filed: 25/10/2023

(23) Priority Data:
Finland, Number :20226015, Date : 11-11-2022.

(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland

(72) Inventors: (0) Berthold PANZNER of Schulstr. 28a, Holzkirchen, 83607, Germany Nationality -Germany, (1) Jakob Lindbjerg BUTHLER of Schleppegrellsgade 3, 1, Aalborg, 9000, Denmark Nationality -Denmark

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : H04W 72/40

(54) Invention Title: RESOURCE ALLOCATION FOR SIDELINK COMMUNICATION

(57) Abstract

There is provided an apparatus, comprising: at least one processor; and at least one memory storing instructions that, when executed by the at least one processor, cause the apparatus at least to perform: receiving a configuration indicative of at least a first resource pool and a second resource pool, wherein the first resource pool is for a different purpose than the second resource pool; receiving downlink control information comprising a resource allocation parameter defining allocated resources in the first resource pool or allocated resources in the second resource pool; and determining, based on the resource allocation parameter, allocated resources in the first resource pool or in the second resource pool.

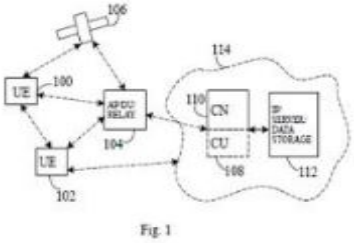

Fig. 1

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Publication No: 25 & Date: 23 October 2025

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(21) Appl. No. BD-P-2023-256
(22) Filed: 25/10/2023

(23) Priority Data:
European Patent Office (EPO), Number :221890858, Date : 03-11-2022.

(71) Applicant: SICPA HOLDING SA of Avenue de Florissant 41 1008 Prilly, Nationality -Switzerland

(72) Inventors: (0) PASQUIER, Cécile of Impasse des Primevères 1, 1723 Marly, Switzerland Nationality -Switzerland, (1) KAENEL, Cindy of Rue du Haut du Village 20, 1372 Bavois, Switzerland Nationality -Switzerland, (2) CARTESIO, Salvatore of Via Papa Giovanni XXIII n°88, 98057 Milazzo (ME), Italy Nationality -Italy, (3) BAILLEUL, Mickael of 25 rue Fuverat, 25160 Labergement Sainte Marie, France Nationality -France, (4) ELIGERT, Laurent of Chemin de Vuichardaz 2, 1030 Bussigny, Switzerland Nationality -Switzerland, (5) VIENET, Arnaud of Chemin en Blanchet 15, 1846 Chessel, Switzerland Nationality -Switzerland

(74) Agent : Advanced IP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : C09D 11/101

(54) Invention Title: RYLENE-BASED UV CURABLE SECURITY INK COMPOSITIONS

(57) Abstract

The invention relates to the field of UV curable security ink compositions comprising rylene-based compounds, radically curable monomers, oligomers or mixtures thereof, and radical photoinitiators. The invention further relates to security features obtained by applying or printing the security ink compositions, articles or documents containing said security features and method of preparing the security features comprising the UV curable security ink compositions.

Fig. 1: Security feature in form of QR code

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
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(22) Filed: 26/10/2023

(23) Priority Data:
United Kingdom, Number :22158448, Date : 26-10-2022. and United Kingdom, Number :22158521, Date : 26-10-2022. and United Kingdom, Number :23141161, Date : 15-09-2023.

(71) Applicant: Nicoventures Trading Limited of Globe House, 1 Water Street, London WC2R 3LA, Nationality - United Kingdom

(72) Inventors: (0) XIAO, Zhihuang of c/o Nicoventures Trading Limited, Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -China

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : G05B 19/042

(54) Invention Title: COMPUTING DEVICE

(57) Abstract

An application specific integrated circuit (ASIC) package for use in an electrical or electronic device is disclosed, the ASIC package comprising a plurality of functional units and a plurality of terminals. Each functional unit is configured with control logic operable to provide a discrete monitoring and/or control function associated with an aspect of operation of the electrical or electronic device. Each terminal comprises a plurality of input and/or output terminals, each input and/or output terminal being connected to at least one of the functional units. An operating status of each of the functional units is independently configurable into one of an enabled and non-enabled operational state, and the ASIC package is configured to be set into a target functional configuration selected from a plurality of different functional configurations. Each of the plurality of functional configurations comprises a different combination of operating states associated with respective ones of the plurality of functional units. In this way, the ASIC package provides a degree of customisability of supported functions, enabling the same ‘master’ ASIC package (e.g. the as-fabricated ASIC package) to be modified after manufacture to tailor the supported function set to a specific one of a plurality of devices.

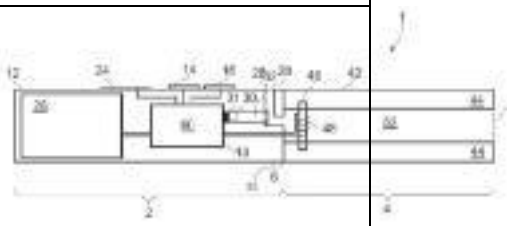

Figure 1

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(11) Patent registration No and date ,
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(22) Filed: 26/10/2023

(23) Priority Data:
United Kingdom, Number :22158448, Date : 26-10-2022. and United Kingdom, Number :22158521, Date : 26-10-2022. and United Kingdom, Number :23141195, Date : 15-09-2023.

(71) Applicant: Nicoventures Trading Limited of Globe House, 1 Water Street, London WC2R 3LA, Nationality - United Kingdom

(72) Inventors: (0) XIAO, Zhihuang of c/o Nicoventures Trading Limited, Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -China

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : G05B 19/042

(54) Invention Title: COMPUTING DEVICE.

(57) Abstract

An application specific integrated circuit (ASIC) package for use in an electrical or electronic device is disclosed. The ASIC package comprises a plurality of functional units, a plurality of terminals, and a plurality of switches. The plurality of switches are connected in series along a portion of an electrical current path within the ASIC package, and at least one of the functional units comprises switching control logic configured to independently switch each of the switches between an open-circuit state and a closed-circuit state. Additionally, at least one of the functional units is configured to provide a monitoring function comprising determining occurrence of a fault condition associated with operation of the electrical or electronic device, and to transmit a fault trigger signal to the switching control logic in response to a fault condition being determined. The switching control logic is configured to trigger an open-circuit state of at least one of the plurality of switches in response to receiving the fault trigger signal. This can provide enhanced safety by enabling the isolation of the ASIC package from power sources (e.g. a charger and / or a battery) and / or a load (e.g. a heater) if a fault is determined by a safety-related functional unit of the ASIC package.

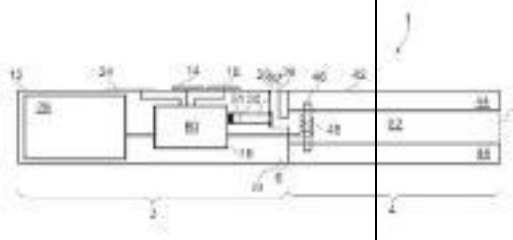

Figure 1

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-259
(22) Filed: 26/10/2023

(23) Priority Data:
United Kingdom, Number :22158448, Date : 26-10-2022.

(71) Applicant: Nicoventures Trading Limited of Globe House, 1 Water Street, London WC2R 3LA, Nationality - United Kingdom

(72) Inventors: (0) XIAO, Zhihuang of c/o Nicoventures Trading Limited, Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -China

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : G05B 19/042

(54) Invention Title: COMPUTING DEVICE

(57) Abstract

An application specific integrated circuit (ASIC) package for use in an electrical or electronic device is disclosed, the ASIC package comprising a plurality of functional units and a plurality of terminals. Each functional unit is configured with control logic operable to provide a discrete monitoring and/or control function associated with an aspect of operation of the electrical or electronic device. Each terminal comprises a plurality of input and/or output terminals, each input and/or output terminal being connected to at least one of the functional units. An operating status of each of the functional units is independently configurable into one of an enabled and non-enabled operational state, and the ASIC package is configured to be set into a target functional configuration selected from a plurality of different functional configurations. Each of the plurality of functional configurations comprises a different combination of operating states associated with respective ones of the plurality of functional units. In this way, the ASIC package provides a degree of customisability of supported functions, enabling the same ‘master’ ASIC package (e.g. the as-fabricated ASIC package) to be modified after manufacture to tailor the supported function set to a specific one of a plurality of devices.

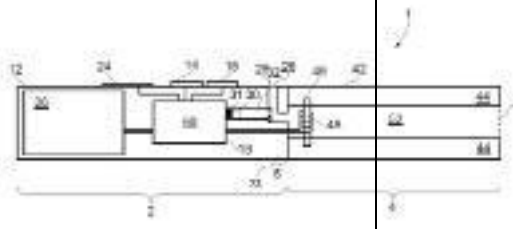

Figure 1

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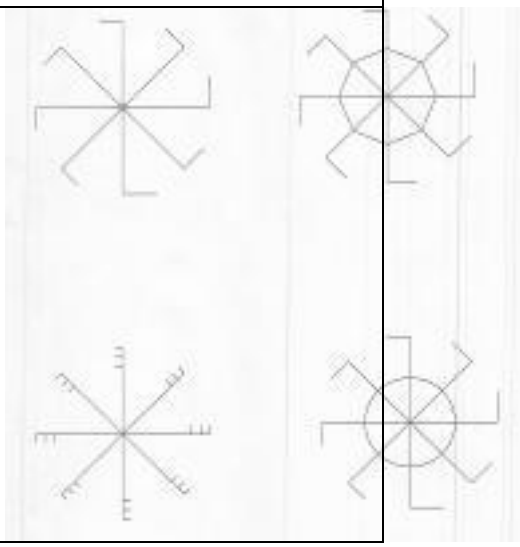
(11) Patent registration No and date , **(21) Appl. No.** BD-P-2023-260 **(22) Filed:** 26/10/2023
(23) Priority Data:
(71) Applicant: Zafor Sadique Rahman of Nobarun, 441, Shibgonj, Sunarpara, Sylhet 3100, Bangladesh., Nationality - Bangladesh, Omar Farooq Rahman of obarun, 441, Shibgonj, Sunarpara, Sylhet 3100, Bangladesh., Nationality - Bangladesh
(72) Inventors: (0) Zafor Sadique Rahman of barun, 441, Shibgonj, Sunarpara, Sy lhet 3 1 00, Bangladesh , Bangladesh Nationality -Bangladesh, (1) Omar F arooq Rahman of barun, 441, Shibgonj, Sunarpara, Sy lhet 3 1 00, Bangladesh , Bangladesh Nationality -Bangladesh
(51) INT. CL. : H02K 15/00
(54) Invention Title: A method and apparatus for the production of fuelless electricity
(57) Abstract



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৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date , **(21) Appl. No.** BD-P-2023-261 **(22) Filed:** 30/10/2023
(23) Priority Data: European Patent Office (EPO), Number :222064586, Date : 09-11-2022.
(71) Applicant: Unilever Global IP Limited of Port Sunlight, Wirral, Merseyside, CH62 4ZD, Nationality -United Kingdom
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(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh
(51) INT. CL. : C11D 15/04
(54) Invention Title: FATTY ACID SOAP BARS COMPRISING POTASSIUM SOAP
(57) Abstract The present invention relates to predominantly soap bars made from oil or oils of defined iodine value.Unexpectedly, it has been found that, when defined amounts of potassium soap are used, bars made from oils falling within a high IV range have excellent extrusion rates (as defined by falling within defined hardness values) without exhibiting the drop in hardness associated with high IV values. The lather of the bars was also seen to be good with low levels of nut oilsincorporated in the soap bars.This is a unique and unexpected.

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(22) Filed: 30/10/2023

(23) Priority Data:

(71) Applicant: Md. Monjurul Haq of Village: Birrampur charpara, Post: Gafaquri PS/Upazila; Trishal, District: Mymensingh, Nationality -Bangladesh

(72) Inventors: (0) Md. Monjurul Haq of Village: Birrampur charpara, Post: Gafaquri PS/Upazila; Trishal, District: Mymensingh, Bangladesh Nationality -Bangladesh

(51) INT. CL. : A23K 10/37

(54) Invention Title: Bran Food's Power enhances well being of noncommunicable diseases and immune boosting for human.

(57) Abstract
The present patent application relates to innovations in the field of nutrition and health, specifically addressing the power of bran-enriched foods to enhance overall well-being, reduces the risk of noncommunicable diseases (NCDs), and boosts the human immune system. Bran, derived from various grains such as rice, wheat, maize, oats, lentils, chickpeas and others, is known for its rich nutritional composition, including dietary fiber, vitamins, minerals, and bioactive compounds. This patent discloses a method for preparing food products that incorporate bran in a manner that optimizes its beneficial effects on health. The innovative approach to incorporating bran into common food products and promoting its consumption as a means to enhance health and well being is at the core of this patent application. By improving the accessibility and desirability of bran enriched foods, this invention aims to contribute significantly to the prevention of NCDs and the promotion of immune system support, thus enhancing the overall health of the human population.

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-263
(22) Filed: 01/11/2023

(23) Priority Data:

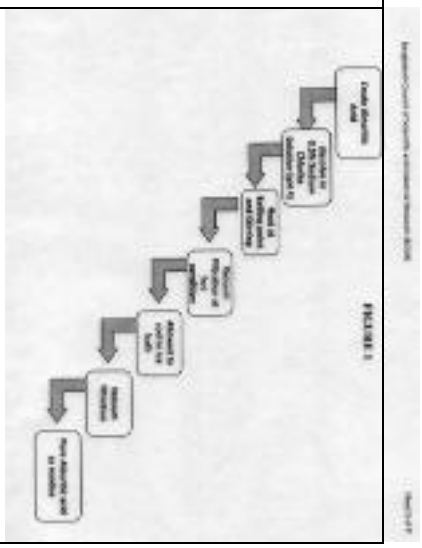
(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Nationality -Bangladesh

(72) Inventors: (0) MUHAMMAD SABBIR HASAN, Scientific Officer of BCSIR Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh, (1) MUHAMMAD BADRUL ISLAM, Principal Scientific Officer of BCSIR Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh, (2) FARIDUL ISLAM, Senior Scientific Officer of BCSIR Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh, (3) SHYAMA PROSAD MOULICK, Scientific Officer of BCSIR Dhaka Laboratories, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (4) MUHAMMAD JAHIDUL ISLAM, Senior Scientific Officer of BCSIR Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh, (5) MAHCI AL BASHERA, Scientific Officer of BCSIR Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh, (6) FARHANA JAHAN, Scientific Officer of BCSIR Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh

(51) INT. CL. : C12N 15/10

(54) Invention Title: AN EFFICIENT PROCESS FOR THE PURIFICATION OF ALEURITIC ACID

(57) Abstract
This invention presents an enhanced one-step purification method for aleuritic acid extracted from lac resin. As a replacement for the traditional purification steps, sodium chlorite is used to rapidly remove impurities and colours. After extracting crude aleuritic acid, it undergoes treatment with a specific concentration of sodium chlorite solution at pH 4. This yields high-quality, white orthorhombic aleuritic acid crystals with over 99% purity and a minimum 29% yield. The purified aleuritic acid is characterised using FTIR, DSC, XRD, and purity is confirmed by HPLC. Aleuritic acid, sourced from plant waxes, serves diverse industrial applications, including coatings, adhesives, biodegradable polymers, cosmetics, drug delivery, food packaging, agriculture, and electronic materials, driving innovation in sustainable industries.



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-264
(22) Filed: 01/11/2023

(23) Priority Data:
United States of America, Number :63421462, Date : 01-11-2022.

(71) Applicant: Nicoventures Trading Limited of Globe House, 1 Water Street, London, WC2R 3LA, Nationality - United Kingdom

(72) Inventors: (0) ODEN, Ross Jay of Globe House, 1 Water Street, London, WC2R 3LA, United Kingdom Nationality -United States of America, (1) DANIEL, Michael S of Globe House, 1 Water Street, London, WC2R 3LA, United States of America Nationality -United States of America, (2) JACKSON, Cortney R of Globe House, 1 Water Street, London, WC2R 3LA, United Kingdom Nationality -United States of America, (3) WATTS. Joshua Lee of Globe House, 1 Water Street, London, WC2R 3LA, United Kingdom Nationality -United States of America, (4) ROOHINEJAD, Shahin of Globe House, 1 Water Street, London, WC2R 3LA, United Kingdom Nationality -Iran (Islamic Republic of), (5) ZAWADZKI, Michael of Globe House, 1 Water Street, London, WC2R 3LA, United Kingdom Nationality -United States of America, (6) MARTIN, Stuart of Globe House, 1 Water Street, London, WC2R 3LA, United Kingdom Nationality -United Kingdom, (7) ALIU, Fiona of Globe House, 1 Water Street, London, WC2R 3LA, United Kingdom Nationality -United Kingdom

(74) Agent : H&H COMPANY, {app_representative_address}, Bangladesh

(51) INT. CL. : B29K 511/00

(54) Invention Title: PRODUCTS WITH SPHERICAL FILLER

(57) Abstract
The disclosure provides a method for preparing a composition configured for oral use. The method includes providing an aqueous solution of free base nicotine; an alkali metal salt of an organic acid; and combining the aqueous solution with the alkali metal salt of the organic acid to form an ion paired nicotine solution. The method further optionally includes providing a flavorant solution; optionally combining the flavorant solution and the ion paired nicotine solution to form an aqueous mixture; providing at least one filler; and contacting the at least one filler with the aqueous mixture to form the composition. At least a portion of the nicotine in the composition is associated with at least a portion of the alkali metal salt of the organic acid in the form of an ion pair between the nicotine and a conjugate base of the organic acid.

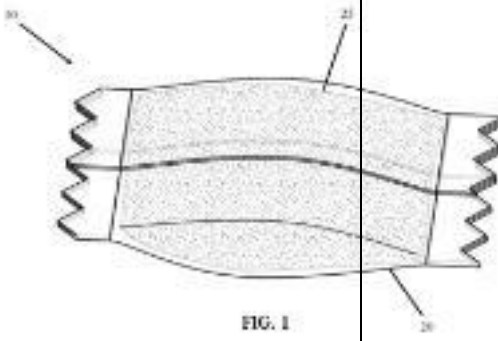
FIG. 1

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-265
(22) Filed: 01/11/2023

(23) Priority Data:
United States of America, Number :63421409, Date : 01-11-2022.

(71) Applicant: Nicoventures Trading Limited of Globe House, 1 Water Street, London, WC2R 3LA, Nationality - United Kingdom

(72) Inventors: (0) DARROW, Brandon Scott of Globe House, 1 Water Street, London, WC2R 3LA, United Kingdom Nationality -United States of America, (1) ZAWADZKI, Michael Andrew of Globe House, 1 Water Street, London, WC2R 3LA, United Kingdom Nationality -United States of America

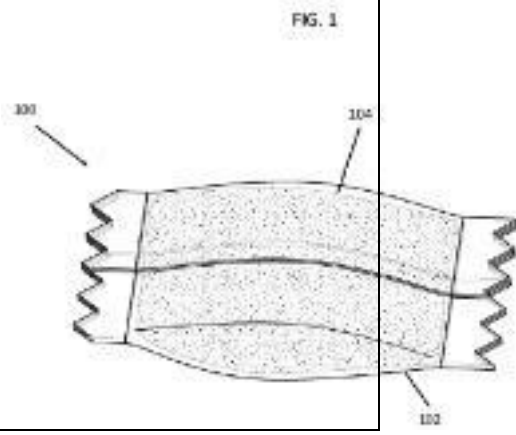
(74) Agent : H & H COMPANY, {app_representative_address}, Bangladesh

(51) INT. CL. : C07D 499/14

(54) Invention Title: METHOD FOR PREPARING POUCHED PRODUCT COMPRISING NICOTINE SALT

(57) Abstract

The disclosure provides a method for preparing a composition configured for oral use. The method includes providing an aqueous solution of free base nicotine; an alkali metal salt of an organic acid; and combining the aqueous solution with the alkali metal salt of the organic acid to form an ion paired nicotine solution. The method further optionally includes providing a flavorant solution; optionally combining the flavorant solution and the ion paired nicotine solution to form an aqueous mixture; providing at least one filler; and contacting the at least one filler with the aqueous mixture to form the composition. At least a portion of the nicotine in the composition is associated with at least a portion of the alkali metal salt of the organic acid in the form of an ion pair between the nicotine and a conjugate base of the organic acid.



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(11) Patent registration No and date , **(21) Appl. No.** BD-P-2023-266 **(22) Filed:** 02/11/2023
(23) Priority Data:
(71) Applicant: Department of Biochemistry and Molecular Biology, University of Dhaka of University of Dhaka, Dhaka-1000 , Nationality -Bangladesh
(72) Inventors: (0) Dr. Zeba Islam Seraj, Professor of Department of Biochemistry and Molecular Biology, Unh'crsity of Dhaka, Dhaka~1000, Bangladesh Nationality -Bangladesh
(51) INT. CL. : C12N 1/14
(54) Invention Title: Formulation of an eco- friendly and cost-effective Bio-fertilizer using an endophytic fungus, named Aspergillus welwitschiae Ocstreb1, isolated from wild halophytic plant Oryza coarctata
(57) Abstract

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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(21) Appl. No. BD-P-2023-267
(22) Filed: 02/11/2023

(23) Priority Data:
Korea, Number :1020220159206, Date : 24-11-2022.

(71) Applicant: KOREA ZINC CO., LTD. of 542 Gangnam-daero, Gangnam-gu, Seoul 06110, Nationality -Korea

(72) Inventors: (0) CHOI, Heon Sik of Park-3101, 234 Beonyeong-ro, Nam-gu, Ulsan 44696, Korea Nationality -Korea, (1) LEE, Hyun of #802, 8 Geoma-ro 77beon-gil, Nam-gu, Ulsan 44650, Korea Nationality -Korea

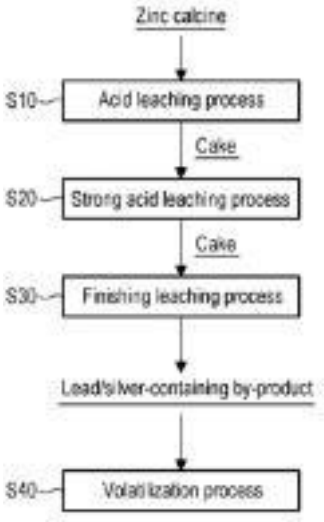
(74) Agent : Shahid & Alliance, {app_representative_address}, Bangladesh

(51) INT. CL. : B60W 20/16

(54) Invention Title: METHOD FOR PROCESSING BY-PRODUCT OF ZINC HYDROMETALLURGICAL PROCESS WITH REDUCED CARBON EMISSION

(57) Abstract

A method for processing a by-product of zinc hydrometallurgy, according to one embodiment of the present disclosure, includes a pressure leaching process of pressure leaching a lead/silver-containing by-product, which is generated in a finishing leaching process of zinc hydrometallurgy, by using an autoclave so that contents of zinc and iron contained in a leaching residue are less than 1 wt%, respectively.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-268
(22) Filed: 02/11/2023

(23) Priority Data:
Korea, Number :1020230002979, Date : 09-01-2023.

(71) Applicant: KOREA ZINC CO., LTD. of 542 Gangnam-daero, Gangnam-gu, Seoul 06110, Nationality -Korea

(72) Inventors: (0) CHOI, Heon Sik of Park-3101, 234 Beonyeong-ro, Nam-gu, Ulsan 44696, Korea Nationality -Korea, (1) KANG, Sung Moon of 103-1010, 18 Seoyeongnam 1-gil, Onsan-eup, Ulju-gun, Ulsan 45003, Korea Nationality -Korea

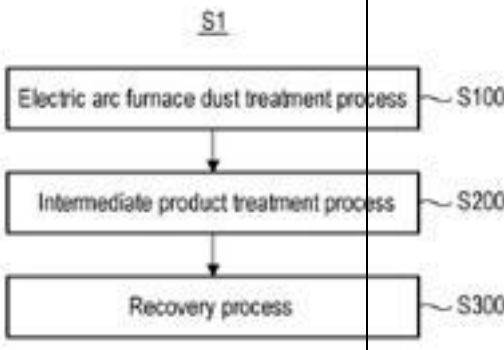
(74) Agent : Shahid & Alliance, {app_representative_address}, Bangladesh

(51) INT. CL. : F27B 3/08

(54) Invention Title: METHOD FOR RECOVERING IRON AND VALUABLE METALS FROM ELECTRIC ARC FURNACE DUST

(57) Abstract

A method for recovering iron and valuable metals from electric arc furnace dust includes: an electric arc furnace dust treatment process of treating electric arc furnace dust to produce an intermediate product containing iron; an intermediate product treatment process of heating the intermediate product to a predetermined temperature range so that the intermediate product charged into a melting furnace is melted and reduced; and a recovery process of recovering metallic iron produced by reduction from the intermediate product and recovering valuable metals generated in the form of dust. The intermediate product treatment process includes a reducing agent charging process of charging a reducing agent containing carbon into the melting furnace to increase an amount of the metallic iron reduced from the intermediate product. The reducing agent is charged into the melting furnace at an equivalent ratio of 1.7:1 to 3.1:1 relative to iron oxide contained in the intermediate product.



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(21) Appl. No. BD-P-2023-269
(22) Filed: 05/11/2023

(23) Priority Data:
China, Number :2022130285, Date : 07-11-2022.

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(72) Inventors: (0) Cheng Wang of Building A, No.1068, Tianshan Road West Changning District, 200335 Shanghai, China Nationality -China, (1) Christine Jost of ÖstraFäladsvägen 1, SE-24752 Dalby, Sweden Nationality -Germany, (2) Ferhat Karakoc of CamlikMhMese Sk No: 1/36/7 Pendik, 34912 Istanbul, Turkey Nationality -Turkey, (3) Songmao Li of No 1068 Tianshan Rd West, Changning District, 200335 SHANGHAI, China Nationality -China, (4) Dan Xu of Lilleby Kronogård 44, 42351 Gothenburg, Sweden Nationality -China, (5) Ulf Mattsson of Hjelmströmsgatan 22, SE-434 36 KUNGSBACKA, Sweden Nationality -Sweden, (6) Zhang Fu of Virkesvägen 9E, SE-120 78 STOCKHOLM, Sweden Nationality -China

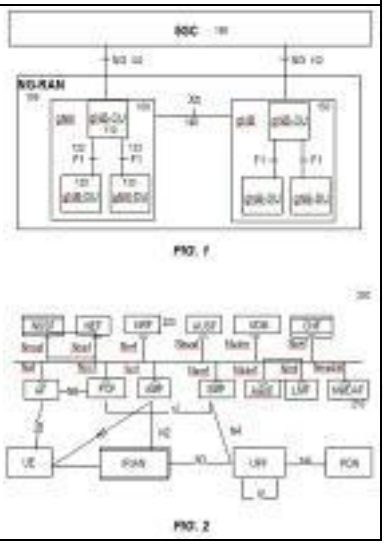
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : H04L 9/40

(54) Invention Title: SECURITY FOR AI/ML MODEL STORAGE AND SHARING

(57) Abstract

Embodiments include methods for a consumer network function (NFc). Such methods include sending, to a network repository function (NRF), a first request for a first access token associated with a machine learning (ML) modelthat is produced, owned, and/or maintained by a producer NF (NFp). The first request includes an analytics identifier (ID) associated with the ML model, a vendor ID associated with the NFc, and an ID associated with the NFp. Such methods include receiving from the NRF a first response including the first access token and sending to the NFp a second request for the ML model. The second request includes the first access token, the analytics ID, and the vendor ID associated with the NFc. Such methods include receiving from the NFp a second response including a universal resource locator associated with a second NF of the communication network, from which the ML model can be obtained.



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(21) Appl. No. BD-P-2023-270
(22) Filed: 05/11/2023

(23) Priority Data:
United States of America, Number :63422480, Date : 04-11-2022.

(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland

(72) Inventors: (0) Ng, Man Hung of 3 Clementine Road, Swindon, Wiltshire, SN252JS, United Kingdom Nationality -United Kingdom, (1) Lehtinen, Vesa Kalervo of Tumppi 6 C 59, Tampere, 33720, Finland Nationality -Finland, (2) Vasenkari, Petri Juhani of Vesivuotavantie 4, Turku, 20250, Finland Nationality -Finland, (3) Säynäjäkangas, Tuomo Mikael of Jääkellarinkuja 6A, Oulu, 90240, Finland Nationality -Finland, (4) Koskelo, Jaakko Kalevi of Kokinmäki 1-3 as. 12,, Riihimäki, 11100, Finland Nationality -Finland

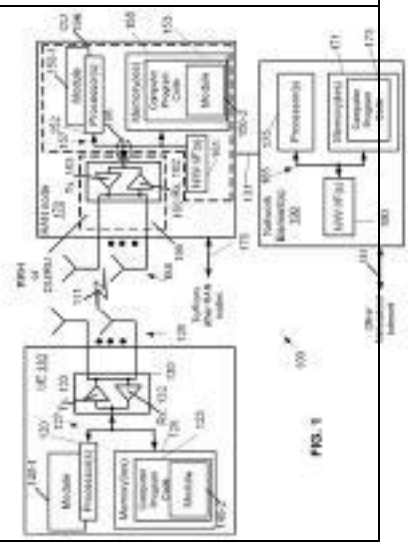
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : G01R 31/40

(54) Invention Title: RF REQUIREMENTS AND TEST METHODOLOGY FOR MAXIMUM POWERREDUCTION.

(57) Abstract

An apparatus including at least one processor; andat least one memory storing instructions that, when executed with the at least one processor, cause the apparatus to:determine a channel bandwidth; and based upon the determined channel bandwidth, determine a maximum power reduction for the channel bandwidth using a value of the channel bandwidth as a value in an equation.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-271
(22) Filed: 07/11/2023

(23) Priority Data:
Japan, Number :2023003296, Date : 01-02-2023.

(71) Applicant: YKK CORPORATION of 1, Kanda izumi-cho, Chiyoda-ku, Tokyo 101-8642, Nationality -Japan

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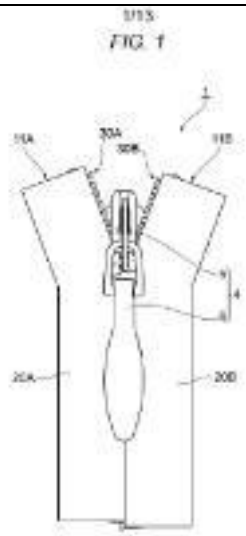
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : B21F 45/18

(54) Invention Title: FASTENER STRINGER FOR CONCEALED SLIDE FASTENER

(57) Abstract

A fastener stringer (11A, 11B) for a concealed slide fastener includes a pair of fastener tapes (20A, 20B) and a pair of fastener element rows (30A, 30B) each including a coil-shaped monofilament row (29A, 29B) and a core string (15). Each element (31) of each of the fastener element rows includes a meshing head portion (32), an upper leg portion (33), a lower leg portion (34), and a connecting portion (35), and in each element, by forming a bent portion (38) in the lower leg portion, a lower surface (37) of the lower leg portion is formed such that a first lower surface (37a) on a side of the connecting portion with respect to the bent portion is closer to a side of the upper leg portion with respect to a second lower surface (37b) on a side of the meshing head portion with respect to the bent portion.



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(11) Patent registration No and date ,
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(22) Filed: 07/11/2023

(23) Priority Data:
China, Number :2022113843683, Date : 07-11-2022.

(71) Applicant: The First Engineering Bure CREC of No. 1, Yanta North Road, Beilin District Xian, Shaanxi 710000, Nationality -China, China Railway First Group Track Engineering Co., Ltd. of No. 111, Renmin East Road, Weicheng District Xianyang, Shaanxi 712000, Nationality -China

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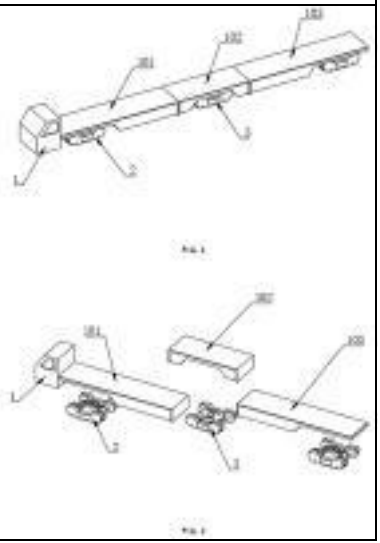
(74) Agent : SUPREMEiP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : E01B 1/00

(54) Invention Title: Special Electric Equipment and Method Suitable for Subway Rail Construction in Tunnel

(57) Abstract

The present invention discloses special electric equipment and method suitable for subway rail construction in a tunnel, and belongs to the technical field of transportation equipment. The special electric equipment includes a headstock, a front frame, a connecting frame, a rear frame, wheels, driving assemblies and a steering assembly, wherein the headstock is connected to the front frame; the front frame, the connecting frame and the rear frame are sequentially hinged; the driving assemblies are installed at the bottom end of the front frame and the bottom end of the rear frame; the steering assembly is installed at the bottom end of the connecting frame; and the plurality of wheels is installed at the bottom ends of the driving assemblies and the bottom end of the steering assembly, respectively. The equipment of the present invention is simple in structure, energy-saving and environment-friendly, and can complete the functions of track panel transportation, concrete pouring and rail material transportation in a narrow space.



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Publication of Filed Patent Application
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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-273
(22) Filed: 07/11/2023

(23) Priority Data:

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(72) Inventors:

(74) Agent : MentorIP, {app_representative_address}, Bangladesh

(51) INT. CL. : B01F 25/431

(54) Invention Title: A DEVICE FOR PROCESS INTENSIFICATION OF FLOWING FLUIDS WITH FLEXIBILITY OF INSTALLATION

(57) Abstract

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
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www.dpdt.gov.bd

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-274
(22) Filed: 09/11/2023

(23) Priority Data:
Japan, Number :2023003857, Date : 06-02-2023.

(71) Applicant: YKK CORPORATION of 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Nationality -Japan

(72) Inventors: (0) URITA, Yuki of c/o YKK CORPORATION Kurobe, 200, Yoshida, Kurobe-shi, Toyama, 9388601, Japan Nationality -Japan, (1) SASAKI, Makoto of c/o YKK CORPORATION Kurobe, 200, Yoshida, Kurobe-shi, Toyama, 9388601, Japan Nationality -Japan, (2) ABE, Takuya of c/o YKK CORPORATION Kurobe, 200, Yoshida, Kurobe-shi, Toyama, 9388601, Japan Nationality -Japan, (3) NAKAMURA, Takashi of c/o YKK CORPORATION Kurobe, 200, Yoshida, Kurobe-shi, Toyama, 9388601, Japan Nationality -Japan, (4) IIMORI, Masayuki of c/o YKK CORPORATION S&B Promotion Department, 7135 Komuro, Inamachi, Kitaadachi-gun, Saitama, 3620806, Japan Nationality -Japan, (5) TAKEDA, Ryosuke of c/o YKK BANGLADESH PTE. LTD., House No. 23, Road No. 28, Block-K, Banani, Dhaka-1213, Bangladesh Nationality -Japan

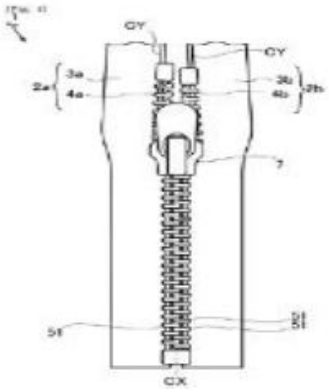
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : E09B 9/36

(54) Invention Title: PLATED ARTICLE AND FASTENER STRINGER

(57) Abstract

Plated article includes a base member (83) including at least one base member metal element; and a plating layer (84) formed on the base member (83). The plating layer (84) includes first and second plating layers (81,82) formed in this order on the base member (83). Each of the first and second plating layers (81,82) includes at least a first metal element of plating layer that is a same metal element as the base member metal element and a second metal element of plating layer that is a different metal element than the base member metal element. Element ratio of the first metal element of plating layer continuously decreases as being away from the base member (83) across a total thickness of at least the first and second plating layers (81,82). Element ratio of the second metal element of plating layer continuously increases as being away from the base member (83) across the total thickness of at least the first and second plating layers (81,82). The second plating layer is visually distinguishable from the first plating layer (81) as a layer containing larger grains than grains of the first plating layer (81) in a first TEM (Transmission Electron Microscope) image.



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(21) Appl. No. BD-P-2023-275
(22) Filed: 13/11/2023

(23) Priority Data:
United Kingdom, Number :22175517, Date : 24-11-2022.

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(72) Inventors: (0) RAYNER, Tim of c/o Nolato Jaycare Ltd, New York Way, New York Industrial Estate, North Shields NE27 0QF, United Kingdom Nationality -United Kingdom

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : F25D 23/02

(54) Invention Title: A CONTAINER

(57) Abstract
A container is disclosed. It comprises a base portion defining a storage compartment and including a cylindrical side wall, and a lid having a resiliently deformable cylindrical peripheral wall. The side and peripheral walls include respective cooperating elements that engage when the lid is placed on the base in a direction extending along a longitudinal axis of the cylindrical side and peripheral walls with the side wall of the base being at least partly received within the peripheral wall of the lid, to couple the lid to the base and close the storage compartment. The side and peripheral walls further comprise respective cam members that are spaced from each other in a radial direction from the longitudinal axis when the lid is coupled to the base. The cam member on the peripheral wall of the lid is movable in a radially inward direction towards the longitudinal axis in response to the resilient deformation of the peripheral wall of the lid so that the cam member on the peripheral wall of the lid radially aligns with the cam member on the side wall of the base and so that, upon relative rotation of the base and the lid when the peripheral wall of the lid is resiliently deformed, said respective cam members engage and generate a force between the lid and the base in an opposite direction along the longitudinal axis to disengage the cooperating elements to decouple the lid from the base and open the storage compartment.

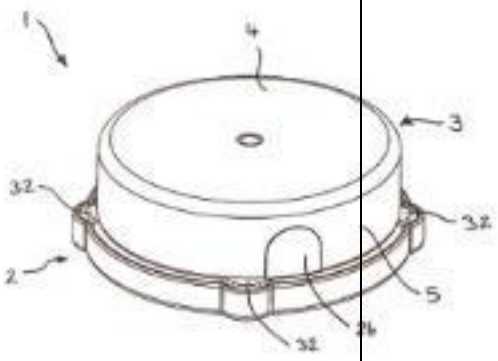

FIG. 1

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-276
(22) Filed: 14/11/2023

(23) Priority Data:
United Kingdom, Number :22170237, Date : 15-11-2022.

(71) Applicant: Nicoventures Trading Limited of Globe House, 1 Water Street, London WC2R 3LA, Nationality - United Kingdom

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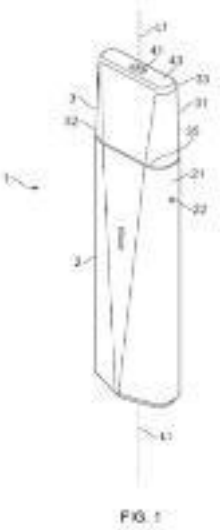
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : F24H 4/04

(54) Invention Title: HEATER ASSEMBLY AND METHOD

(57) Abstract

Described is a heater assembly for an aerosol provision system, the heater assembly including: a substrate; a heater layer configured to generate heat when supplied with energy, the heater layer provided on a first surface of the substrate; and a plurality of capillary tubes extending from another surface of the substrate through the heater layer provided at the first surface of the substrate. Each of the capillary tubes extends to respective openings provided in the heater layer, and the combined area of the openings per unit area of the heater layer in a first region of the heater layer is greater than the combined area of the openings per unit area of the heater layer in a second region of the heater layer. Also described is an aerosol provision system comprising a heater assembly and a method for manufacturing a heater assembly.



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-277
(22) Filed: 16/11/2023

(23) Priority Data:
European Patent Office (EPO), Number :222078750, Date : 16-11-2022.

(71) Applicant: Yara International ASA of 131, 0277 Oslo, Norway, Nationality -Norway

(72) Inventors:

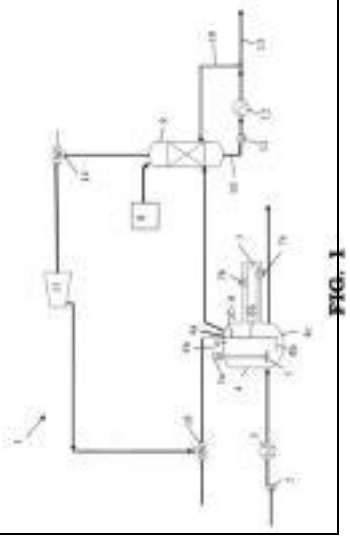
(74) Agent : Doulah & Doulah, {app_representative_address}, Bangladesh

(51) INT. CL. : C08G 18/78

(54) Invention Title: PROCESS TO PRODUCE A MELT OF UREA AND BIURET AND SYSTEM TO PRODUCE SUCH A MELT

(57) Abstract

The present disclosure relates to a process and a system for producing a melt comprising urea, biuret, and a minor amount of N-containing compounds produced during a condensation process of urea, the process comprising the steps of pumping a urea melt to one or more reactor vessels each having a headspace at a top part thereof and a bottom part, subjecting the urea melt in the one or more reactor vessels to a heating process with a temperature of between 150°C to 180°C, during the heating process also subjecting the melt present in the reactor vessel(s) to a circulation process in and out of the one or more reactor vessels via a circulation loop arranged externally from each of the reactor vessels, and wherein during formation of the melt, gaseous by-products are produced which are evacuated out of the respective reactor vessel via the top part thereof, and removing the melt out of the one or more reactor vessels via the bottom part thereof.



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(21) Appl. No. BD-P-2023-278
(22) Filed: 16/11/2023

(23) Priority Data:
United States of America, Number :63426254, Date : 17-11-2023.

(71) Applicant: CTC GLOBAL CORPORATION of 2026 McGaw Avenue, Irvine, California 92614, United States of America, Nationality -United States of America

(72) Inventors: (0) Kevin CORBALIS of 2026 McGaw Avenue, Irvine, California 92614, United States of America, United States of America Nationality -United States of America, (1) Eric BOSZE of 2026 McGaw Avenue, Irvine, California 92614, United States of America, United States of America Nationality -United States of America, (2) David GOEKJIAN of 2026 McGaw Avenue, Irvine, California 92614, United States of America, United States of America Nationality -United States of America

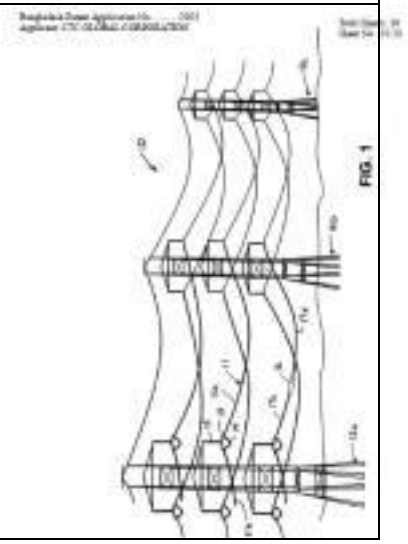
(74) Agent : Munshi & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : B60L 50/53

(54) Invention Title: “SYSTEMS AND METHODS FOR OPERATING AN OVERHEAD ELECTRICAL LINE”

(57) Abstract

Methods and systems for the operation of an overhead electrical line. The systems include one or more distributed sensors associated with an overhead electrical cable and one or more non-distributed sensors associated with the overhead electrical cable. The non-distributed sensors may be used to corroborate line condition values obtained from the distributed sensors, or may be used to calibrate the values obtained from the non-distributed sensors.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-281
(22) Filed: 16/11/2023

(23) Priority Data:
United Kingdom, Number :22172670, Date : 18-11-2022.

(71) Applicant: RAI Strategic Holdings, Inc of 401 North Main Street, Winston-Salem NC 27101, United States of America., Nationality -United States of America

(72) Inventors: (0) John Caraway of 401 North Main Street, Winston-Salem NC 27101, United States of America, United States of America Nationality -United States of America, (1) Michael Foster Davis of 401 North Main Street, Winston-Salem NC 27101, United States of America, United States of America Nationality -United States of America, (2) Jennifer Rowe of 401 North Main Street, Winston-Salem NC 27101, United States of America, United States of America Nationality -United States of America

(74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh

(51) INT. CL. : A61K 8/67

(54) Invention Title: AEROSOLISABLE FORMULATION

(57) Abstract

There is provided an aerosolisable formulation comprising(i) caffeine; (ii) a solvent selected from water, propylene glycol and mixtures thereof; and (iii) nicotinamide.

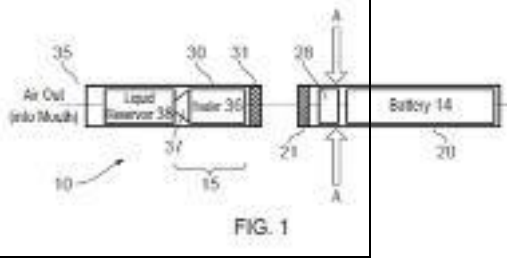

FIG. 1

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-282
(22) Filed: 16/11/2023

(23) Priority Data:
India, Number :202211065837, Date : 17-11-2022.

(71) Applicant: Kemin Industries, Inc. of 1900 Scott Avenue, Des Moines, IA 50317 USA. , Nationality -United States of America

(72) Inventors: (0) SAMPATH, Harikumar of 2, Ponniamman Kovil Street, Kavanthadalam, Kanchipuram, Tamil Nadu – 631603 INDIA , India Nationality -India, (1) RAJALEKSHMI, Mukkalil of D-block, VGN imperia phase I, VGN Mahalakshmi Nagar, Thiruverkadu, Chennai, Tamil Nadu – 600077 INDIA., India Nationality -India

(74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh

(51) INT. CL. : C09K 15/00

(54) Invention Title: COMPOSITIONS FOR INHIBITING EHP INFECTION IN SHRIMP AND RELATED METHODS

(57) Abstract
The present invention relates methods for administering compositions comprising thymoquinone in an amount effectiveto inactivate the EHP spores and reduce the EHP infection rate, where the thymoquinone may be derived from Monarda didyma, Monarda fistulosa, or Nigella sativa. The present invention further relates to methods for controlling the proliferation of EHP in aquaculture, specifically controlling the spread of EHP infection in shrimp populations. Another aspect of the present invention relates to methods for directly inactivating EHP spores to control the intracellular proliferation of EHP by administering compositions containing thymoquinone, for instance compositions containing N. sativa seed oil to shrimp. Another aspect of the present invention relates to compositions containingN. sativa seed extract alone, or in oil, in at least one embodiment in combination with monarda oil, oregano oil, clove oil and cinnamic aldehyde, to control and inhibit the spread of EHP infection and its associated diseases.

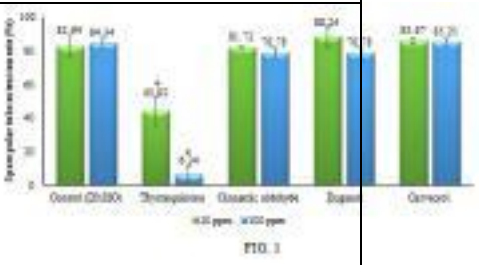

FIG. 1

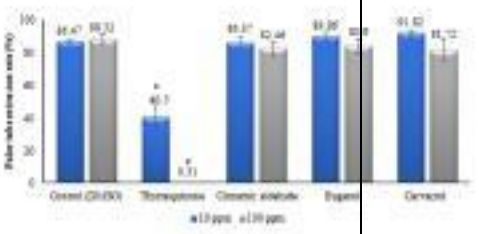

FIG. 2

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-283
(22) Filed: 16/11/2023

(23) Priority Data:
United Kingdom, Number :22171458, Date : 16-11-2022.

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(72) Inventors: (0) RORY FRASER of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom., United Kingdom Nationality -United Kingdom, (1) GEORGE MCLACHLAN of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom., United Kingdom Nationality -United Kingdom, (2) SARAH DYER of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom., United Kingdom Nationality -United Kingdom, (3) Ludwig Friedrich of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom., United Kingdom Nationality -United Kingdom

(74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh

(51) INT. CL. : A24F 40/20

(54) Invention Title: CONSUMABLE

(57) Abstract

The present disclosure provides a consumable for an aerosolisable formulation, wherein the consumable comprises: one or more sensates, wherein at least one sensate is a warming agent or a tingling agent; (ii) a sweetener; and (iii) at least one compound which is an emulsifier. Also provided is a process of forming an aerosol, an aerosolisable formulation comprising the consumable and an aerosol provision device including same.

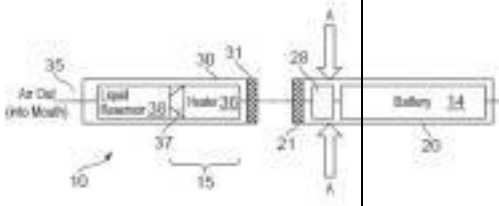

FIG. 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
৯১, মতিঝিল বা/এ, ঢাকা-১০০০
www.dpdt.gov.bd

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Publication No: 25 & Date: 23 October 2025

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(22) Filed: 16/11/2023

(23) Priority Data:
United Kingdom, Number :22171458, Date : 16-11-2022.

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(72) Inventors: (0) RORY FRASER of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -United Kingdom, (1) GEORGE MCLACHLAN of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -United Kingdom, (2) SARAH DYER of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -United Kingdom, (3) ANDREW ALLAN of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -United Kingdom, (4) ALICE LENNEY of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -United Kingdom, (5) ALICE HUGHES of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -United Kingdom, (6) NICKOLAI SOLECHNIK of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -United Kingdom

(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : A24F 40/10

(54) Invention Title: CONSUMABLE

(57) Abstract

The present disclosure provides a consumable for an aerosolisable formulation, the consumable comprising one or more sensates, wherein at least one sensate is a warming agent or tingling agent, a sweetener, and at least one compound which is a humectant. Also provided are processes of preparing an aerosol, aerosolisable formulations containing the consumable and aerosol provision systems.

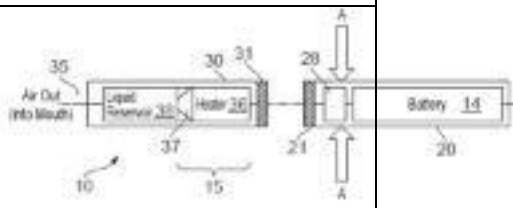

FIG. 1

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(21) Appl. No. BD-P-2023-285
(22) Filed: 16/11/2023

(23) Priority Data:
India, Number :202241066279, Date : 18-11-2022.

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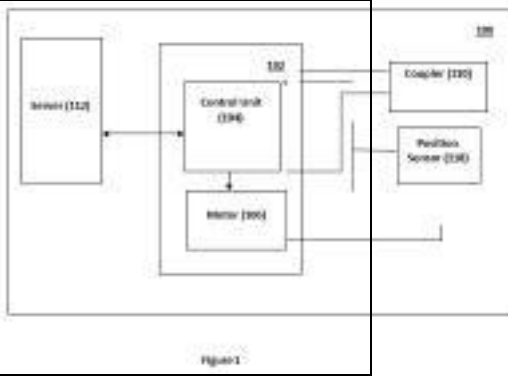
(74) Agent : RANA & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : B60K 15/077

(54) Invention Title: A SYSTEM AND METHOD FOR REMOTE CALIBRATION OF A MOTOR IN A VEHICLE

(57) Abstract

The present invention relates to a system (100) and a method (200) for remote calibration of a motor (106) in a vehicle (102).The present invention aims at reducing time and complexity involved in calibration of a motor (106) disposed in the vehicle (102). The type of the motor (106) is identified based on configuration of a coupler (110) coupled with the motor (106) and movement of the shaft of the motor (106). On identification of the type of motor (106), the control unit (104) is configured to detect one or more parameters of the motor (106) which are required to be calibrated and further receive inputs from the remote server (112) for calibration of the one or more parameters of the motor (106). The control unit (104) is flashed with updated configurations received from the remote server (112).



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Publication No: 25 & Date: 23 October 2025

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(21) Appl. No. BD-P-2023-286
(22) Filed: 19/11/2023

(23) Priority Data:
India, Number :202241066857, Date : 21-11-2022.

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(74) Agent : RANA & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : B60L 53/53

(54) Invention Title: A Battery Pack

(57) Abstract

The present invention relates to a battery pack (10). The battery pack (10) includes a casing (20) and a plurality of battery cells (12) disposed inside the casing (20). A plurality of conduits (60) is disposed on a bottom portion of the casing (20) and projecting externally of the casing (20). The plurality of conduits (60) is configured to enable a dielectric coolant (40) to flow through the plurality of conduits (60). The battery pack (10) also includes a pump (70) mounted to the casing (20). The pump (70) is configured to circulate the dielectric coolant (40) between the casing (20) and the plurality of conduits (60). The plurality of conduits (60) is configured to dissipate heat from the dielectric coolant (40) to a surrounding atmosphere.

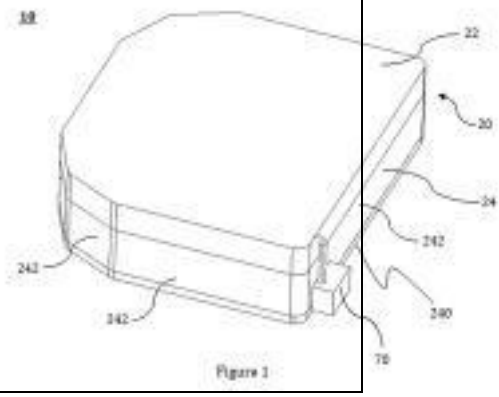

Figure 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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(23) Priority Data: India, Number :202211065880, Date : 17-11-2022.
(71) Applicant: IFFCO-MC Crop Science Pvt. Ltd of IFFCO Sadan, C-1, District Centre, Saket Place, New Delhi - 110117, India., Nationality -India
(72) Inventors: (0) NAVIN NATH of IFFCO-MC Crop Science Pvt. Ltd., Surinder Jakhar Bhavn, Tower-B, 3rd Floor, Plot No. 3, Sector-32, Gurugram -122003, Haryana, India., India Nationality -India, (1) ANIRUDDHA SARKAR of IFFCO-MC Crop Science Pvt. Ltd., Surinder Jakhar Bhavn, Tower-B, 3rd Floor, Plot No. 3, Sector-32, Gurugram - 122003, Haryana, India., India Nationality -India
(74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh
(51) INT. CL. : A01N 47/34
(54) Invention Title: SYNERGISTIC FUNGICIDAL COMPOSITION COMPRISING PICOXYSTOBIN AND THIOPHANATE METHYLAND METHOD RELATED THERETO
(57) Abstract The present invention relates to a fungicidal composition comprising fungicidal active ingredients. In particular, the present invention relates to novel a synergistic pesticidal composition(s) comprising picoxystrobin andthiophanate methyl including agriculturally acceptable salts and non-ionic superspreader surfactant for the treatment and selective comprehensive control of fungal diseases in crops of useful plants and method(s) related thereto.

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৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-288
(22) Filed: 19/11/2023

(23) Priority Data:
Finland, Number :20226116, Date : 16-12-2022.

(71) Applicant: Aalto University Foundation sr of 00076 Aalto, Finland., Nationality -Finland

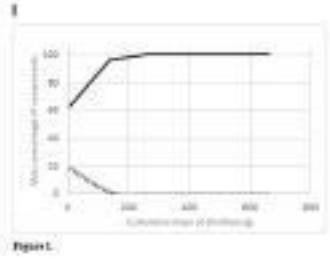
(72) Inventors: (0) ALOPAEUS, Ville of PO Box 11000, 00076 Aalto, Finland., Finland Nationality -Finland, (1) FOO, Gao Ming Jerald of PO Box 11000, 00076 Aalto, Finland., Finland Nationality -Singapore, (2) SCHLAPP-HACKL, Inge of PO Box 11000, 00076 Aalto, Finland., Finland Nationality -Austria, (3) SIXTA, Herbert of PO Box 11000, 00076 Aalto, Finland., Finland Nationality -Austria, (4) UUSI-KYYNY, Petri of PO Box 11000, 00076 Aalto, Finland., Finland Nationality -Finland

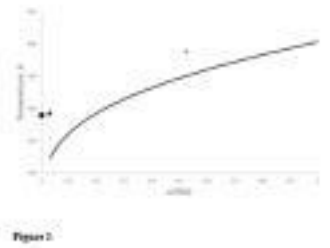
(74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh

(51) INT. CL. : C09F 1/02

(54) Invention Title: PURIFICATION METHOD

(57) Abstract
According to an example aspect of the present invention, there is providedamethod for separating mTBD from a sample comprising mTBD and TBD, wherein the method comprises the steps of filtering the sample, and subsequently distilling the sample.





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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-289
(22) Filed: 19/11/2023

(23) Priority Data:
Russian Federation, Number :2022130458, Date : 24-11-2022.

(71) Applicant: JOINT STOCK COMPANY "BIOCAD" of 198515, Russian Federation, Saint Petersburg, Intracity Municipality the Settlement of Strelna, the Settlement of Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89, Russian Federation, Nationality -Russian Federation

(72) Inventors: (0) Tolstykh Dmitrii Aleksandrovich of RU, 196158, g. Saint-Petersburg, ul. Srednerogatskaia, 9, litera A, kvartira 78, Russian Federation, Russian Federation Nationality -Russian Federation, (1) Sozonova Aleksandra Aleksandrovna of RU, 198206, g. Sankt-Peterburg, pr-kt Veteranov, dom 169, korpus 2, stroyeniye 1, kvartira 904, Russian Federation, Russian Federation Nationality -Russian Federation, (2) Lomkova Ekaterina Aleksandrovna of RU, 196066, g. Saint Petersburg, pr-kt Moskovskiy, 216, kvartira 19, Russian Federation, Russian Federation Nationality -Russian Federation, (3) Fedorenko Lina Igorevna of RU, 140171, Moscow region, Bronnitsy, Marinsky microdistrict, 2, ap.41, Russian Federation, Russian Federation Nationality -Russian Federation, (4) Nagibina Galina Sergeevna of RU, 623657, Sverdlovskaya Oblast, Tugulymsky District, Verhovino village, ul. Zarechnaya, 44, Russian Federation, Russian Federation Nationality -Russian Federation, (5) Morozov Dmitry Valentinovich of RU, 190000, g. Sankt-Peterburg, Admiralteyskiy r-n, ul. Pochtamtskaya, d. 20, kv. 3, Russian Federation, Russian Federation Nationality -Russian Federation

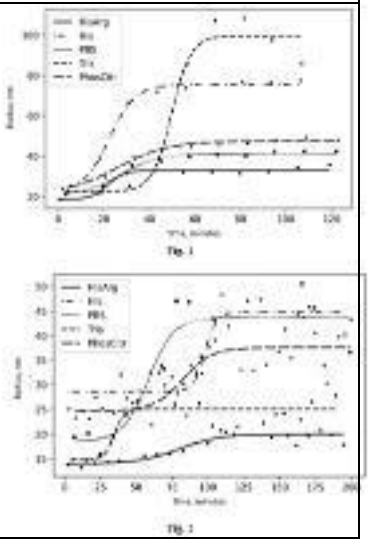
(74) Agent : SUPREMEiP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : C12N 15/86

(54) Invention Title: A COMPOSITION OF A VECTOR AND USE FORMS THEREOF

(57) Abstract

The present invention relates to the field of pharmaceuticals, gene therapy and medicine, specifically to pharmaceutical compositions of a vector based on recombinant non-enveloped virus, in particular recombinant adeno-associated virus (rAAV), which compositions may be used for the treatment and prophylaxis of various diseases.



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-290
(22) Filed: 21/11/2023

(23) Priority Data:
Spain, Number :223831199, Date : 21-11-2022. and Spain, Number :233820679, Date : 27-01-2023. and Spain, Number :233824010, Date : 28-04-2023.

(71) Applicant: CERTEST BIOTEC, S.L. of Pol. Industrial Río Gállego II Calle J, Nº1, 50840 SAN MATEO DE GÁLLEGO, Nationality -Spain

(72) Inventors: (0) JAVIER GIMÉNEZ WARREN of Pol. Industrial Río Gállego II Calle J, Nº1, 50840 SAN MATEO DE GÁLLEGO, Spain Nationality -Spain, (1) JUAN HEREDERO GARCÍA of Pol. Industrial Río Gállego II Calle J, Nº1, 50840 SAN MATEO DE GÁLLEGO, Spain Nationality -Spain, (2) JUAN ENRIQUE MARTÍNEZ OLIVÁN of Pol. Industrial Río Gállego II Calle J, Nº1, 50840 SAN MATEO DE GÁLLEGO, Spain Nationality -Spain, (3) ÁLVARO PEÑA MORENO of Pol. Industrial Río Gállego II Calle J, Nº1, 50840 SAN MATEO DE GÁLLEGO, Spain Nationality -Spain, (4) DIEGO DE MIGULE SAMANIEGO of Pol. Industrial Río Gállego II Calle J, Nº1, 50840 SAN MATEO DE GÁLLEGO, Spain Nationality -Spain, (5) ALFONSO TORO CÓRDOVA of Pol. Industrial Río Gállego II Calle J, Nº1, 50840 SAN MATEO DE GÁLLEGO, Spain Nationality -Spain

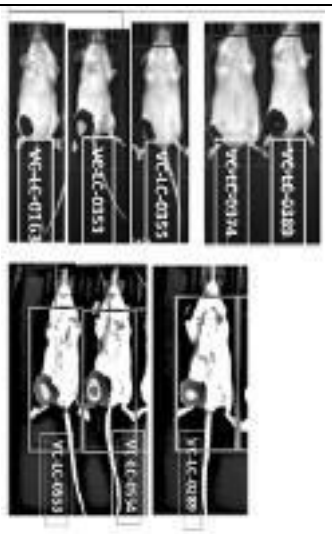
(74) Agent : APT IP LAW AGENCY BD., {app_representative_address}, Bangladesh

(51) INT. CL. : C07C 29/158

(54) Invention Title: IONIZABLE LIPIDS AND LIPID NANOPARTICLES CONTAINING THEREOF

(57) Abstract

It is provided an ionizable lipid of formula (I) or a acceptable salt thereof, or a stereoisomer of any one of them; a lipid nanoparticle comprising the ionizable lipid, particularly, as an encapsulation agent. It is also provided a lipid nanoparticle or a composition and the use of the lipid nanoparticles as an encapsulating agent. Formula (I)



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-291
(22) Filed: 22/11/2023

(23) Priority Data:
United States of America, Number :63427337, Date : 22-11-2022.

(71) Applicant: NORTH CAROLINA STATE UNIVERSITY of 1021 Main Campus Drive, 2nd Floor, Raleigh, North Carolina, US, 27606, Nationality -United States of America

(72) Inventors: (0) EL-SHAFEI, Ahmed M. of 1039 Upchurch Farm Lane, Cary, North Carolina, United States, 27519, United States of America Nationality -United States of America, (1) SALIM, Shahriar of 353 Oak Drive, Lexington, South Carolina, United States, 29073, United States of America Nationality -Bangladesh

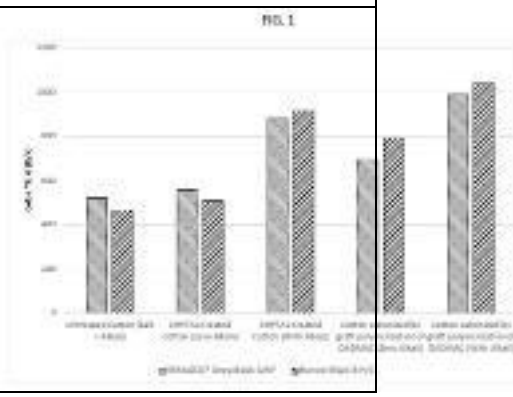
(74) Agent : H & H Company, {app_representative_address}, Bangladesh

(51) INT. CL. : C08L 33/26

(54) Invention Title: GRAFT POLYMERIZATION OF CATIONIC MONOMERS INTO CELLULOSIC FIBERS FOR SIMULTANEOUS SUSTAINABLE DYEING AND FINISHING

(57) Abstract

Disclosed herein are methods for graft polymerizing cationic alkenyl monomers, or polymers made therefrom, into undyed or dyed cellulosic materials. Further provided are methods for dyeing such cationized cellulosic materials, and to dyed or undyed cationized cellulosic materials prepared by the disclosed methods.



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www.dpdt.gov.bd

Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-292
(22) Filed: 26/11/2023

(23) Priority Data:
Russian Federation, Number :2022130796, Date : 26-11-2022.

(71) Applicant: Obshchestvo s Organichennoy Otvetstvennostyu "Geropharm" (RU) of Russian Federation, 191119, g. Sankt-Peterburg, ul. Zvenigorodskaya, d.9. , Nationality -Russian Federation

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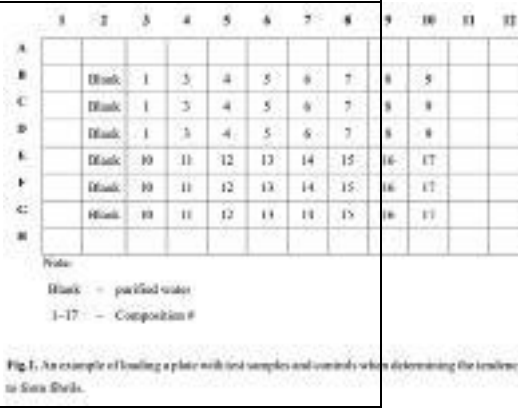
(74) Agent : Supreme IP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : A61K 38/28

(54) Invention Title: FAST-ACTING INSULIN COMPOSITIONS (VARIANTS THEREOF)

(57) Abstract

The present invention relates to the field of pharmaceutical science and medicine, i.e., to the compositions of fast-acting insulin preparations. More specifically, the present invention relates to the compositions comprising a fast-acting insulin and an amino acid as a stabilizer, where the amino acid may be selected from lysine and/or salt thereof, or a combination of lysine and/or salt thereof with arginine and/or salt thereof. Compositions of the invention exhibit better chemical and physical stability compared to the closest prior art.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-293
(22) Filed: 27/11/2023

(23) Priority Data:
Japan, Number :2022205727, Date : 22-12-2022.

(71) Applicant: JFE Metal Products Corporation of 1-2-70, Konan, Minato-ku, Tokyo 1080075, Japan., Nationality - Japan

(72) Inventors: (0) Ayumi YAMAMOTO of c/o JFE METAL PRODUCTS CORPORATION, 1-2-70, Konan, Minato-ku, Tokyo, 1080075, Japan, Japan Nationality -Japan, (1) Katsuteru SEKI of c/o JFE METAL PRODUCTS CORPORATION, 1-2-70, Konan, Minato-ku, Tokyo, 1080075, Japan, Japan Nationality -Japan

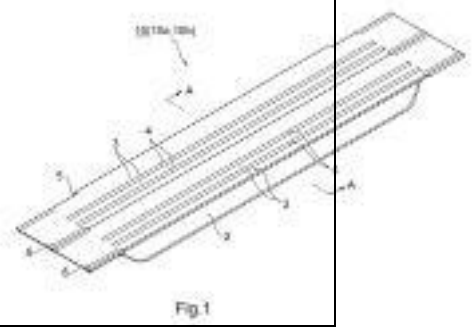
(74) Agent : SUPREMEiP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : B63B 3/52

(54) Invention Title: DECK PLATE

(57) Abstract

There is provided a technique for stacking deck plates in a stable state. A deck plate (10) is formed of a metal plate and includes plane portions (3) and ribs (1 and 2) provided alternately and continuously. Bottom surfaces (13b and 23b) of the ribs (1 and 2) and contact parts (3a and 3b) of the plane portions (3) contacting the bottom surfaces (13b and 23b) of the ribs (1 and 2) when deck plates (10a and 10b) in a pair are stacked while being turned upside down relative to each other are formed in complementary shapes.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-294
(22) Filed: 30/11/2023

(23) Priority Data:
European Patent Office (EPO), Number :222165847, Date : 23-12-2022.

(71) Applicant: Huntsman Textile Effects (Switzerland) GmbH. of Klybeckstr.200, 4057 Basel, Nationality - Switzerland

(72) Inventors: (0) Hubert Jean-Luc Christnacher of 4, rue de l'Eglise, 68440 Dietwiller, France Nationality -France, (1) Fanny Ehret of 2, Rue du 22 Janvier, 68950 Reiningue, France Nationality -France, (2) Michael Nicollet of 21, Rue des Orchidées, 68128 Village Neuf, France Nationality -France, (3) Jean-Christophe Graciet of 35, Rue du Cana, 68128 Village Neuf, France Nationality -France, (4) Georg Roentgen of Reutebachgasse 38, 79108 Freiburg, Germany Nationality -Germany

(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : C09B 67/24

(54) Invention Title: FIBRE-REACTIVE ISOMERIC DYE MIXTURES, THEIR PREPARATION AND THEIR USE.

(57) Abstract

An isomeric mixture of at least one dye of the formula (I): wherein - X1 and X2 are independently a halogen atom, - A1, A2 are independently a hydrogen atom or a C1-C4 alkyl, - R1, R2 are independently -H, -SO3M, a C1-C4 alkyl, a C1-C4 alkoxy, -COOH, a halogen atom, - Z1, Z2, are independently a fiber reactive radical of formula -SO2-CH=CH2, -SO2-(CH2)2-Y, -NH-(CH2)2-O-(CH2)2-SO2-CH=CH2, -NH-(CH2)2-O-(CH2)2-SO2-(CH2)2-Y, -NH-(CH2)2-O-(CH2)3-SO2-CH=CH2, -NH-(CH2)2-O-(CH2)3-SO2-(CH2)2-Y, -NHCO-(CH2)3-SO2-CH=CH2 or -NHCO-(CH2)3-SO2-(CH2)2-Y wherein Y is a group removable under alkaline conditions, - M is hydrogen or a salt, or a mixture of salts, of an organic or inorganic cation. -

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-299
(22) Filed: 03/12/2023

(23) Priority Data:
India, Number :202241072006, Date : 13-12-2022.

(71) Applicant: TVS Motor Company Limited of Chaitanya, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, Nationality -India

(72) Inventors: (0) BHAVANAM JAYA CHANDRA REDDY of Chaitanya, No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India, (1) KIRAN PAYANGAPPADAN of Chaitanya, No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India, (2) ANUMALASETTY GURAVAIAH of Chaitanya, No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India, (3) AMIT DILIP RAJWADE of Chaitanya, No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India, (4) RAJAMANI RAVISANKAR of Chaitanya, No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India, (5) RENGARAJAN BABU of Chaitanya, No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India

(74) Agent : RANA & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : B60K 26/00

(54) Invention Title: Mounting Structure for an Optical Unit of a Saddle-Type Vehicle

(57) Abstract

The present invention is directed to a mounting structure (100) for an optical unit (102) of a saddle-type vehicle (106). The mounting structure (100) includes a front panel assembly (108). A top panel (112) comprises a planar panel (114) mounted onto the top portion (108a) of the front panel assembly (108) and at least one extension portion (116a, 116b) defined on a top surface (114a) of the planar panel (114). Each of the at least one extension portion (116a, 116b) is adapted to support a visor bracket (118) that supports a visor member (120). A bottom surface (114b) is adapted to receive and support the optical unit (102) about a window portion (114c) provided to the top panel (112). The optical unit (102) is adapted to transmit images onto rear surface (120b) of visor member (120), thereby preventing misdirection to rider during vehicle movement.

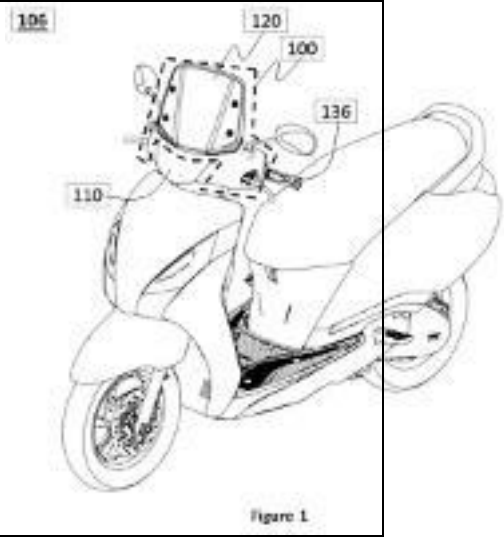

Figure 1

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-300
(22) Filed: 03/12/2023

(23) Priority Data:
United Kingdom, Number :22181556, Date : 02-12-2022.

(71) Applicant: Nicoventures Trading Limited of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom, Nationality -United Kingdom

(72) Inventors: (0) Najeeb Younossi of Globe House, 1 Water Street, London, WC2R3LA, United Kingdom, United Kingdom Nationality -United Kingdom, (1) Roberto Pellegrini of Santer Reply S.P.A of 1/4 Milano, Milano, 20152, Italy, Italy Nationality -Italy, (2) Massimiliano Galanti of Santer Reply S.P.A of 1/4 Milano, Milano, 20152, Italy, Italy Nationality -Italy, (3) Paolo Pariani of Santer Reply S.P.A of 1/4 Milano, Milano, 20152, Italy, Italy Nationality -Italy

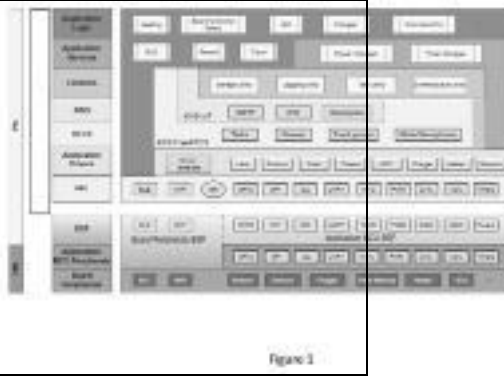
(74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh

(51) INT. CL. : E04B 1/343

(54) Invention Title: MODULAR ARCHITECTURE

(57) Abstract

There is provided an aerosol provision device, the aerosol provision device comprising a control unit for controlling an operating system in which applications are managed according to an architecture,wherein the architecture comprises a plurality of layers of logic, the layers comprising a lowermost layer for controlling hardware of the aerosol provision device, and layers above the lowermost layer which have higher levels of abstraction from the hardware, andwherein the layers of the architecture are configured to provide vertical modularity, such that the logic of each layer may be modified independently to logic of the other layers.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-301
(22) Filed: 03/12/2023

(23) Priority Data:
Russian Federation, Number :2022131585, Date : 04-12-2022.

(71) Applicant: Obshchestvo s ogranichennoy otvetstvennostyu “Geropharm” (RU) of 191119, g. Sankt-Peterburg, ul. Zvenigorodskaya, d. 9., Nationality -Russian Federation

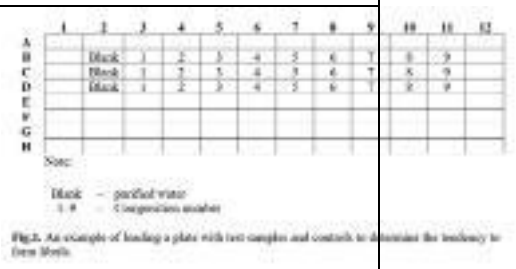
(72) Inventors: (0) Shitikova Viktoriya Olegovna of 190005, g. Sankt-Peterburg, Izmaylovskiy pr. 11, lit. A, kv. 60. , Russian Federation Nationality -Russian Federation, (1) Yudaeva Nina Valeryevna of 188540, Leningradskaya obl., g. Sosnovyy Bor, ul. Leningradskaya, d. 62, kv. 58. , Russian Federation Nationality -Russian Federation

(74) Agent : SUPREMEiP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : A61K 38/28

(54) Invention Title: INSULIN ASPART COMPOSITION (VARIANTS)

(57) Abstract
The present invention relates to the field of pharmacy and medicine, i.e., to compositions of fast-acting injectable insulin preparation. More specifically, the present invention relates to the compositions comprising insulin aspart, a nicotinic acid compound, a surfactant selected from poloxamer 188, polysorbate 20, polysorbate 80, or a combination thereof, an amino acid selected from lysine, arginine and/or a salt thereof, and/or a combination thereof. The compositions of the invention are useful for reducing blood glucose level in a subject, and are particularly useful in insulin preparations requiring high stability against thermal and/or physical and mechanical stress.



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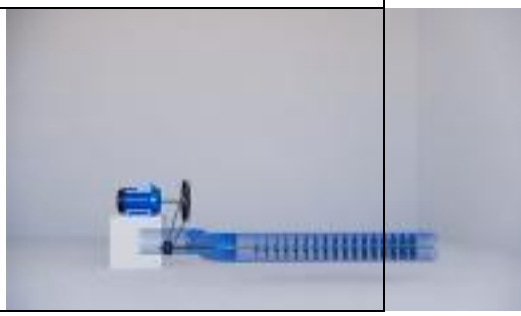
Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date , **(21) Appl. No.** BD-P-2023-302 **(22) Filed:** 06/12/2023
(23) Priority Data:
(71) Applicant: Akram Hussain Dara of 66 Siddeswari Circular Road, Dhaka-1217, Nationality -Bangladesh
(72) Inventors: (0) Akram Hussain Dara of 66 Siddeswari Circular Road, Dhaka-1217, Bangladesh Nationality - Bangladesh
(51) INT. CL. : F01N 9/00
(54) Invention Title: Device to reduce carbon emission from the exhaust pipes/silencers of fossil fuel run vehicles & mills/factories
(57) Abstract 

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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-303
(22) Filed: 07/12/2023

(23) Priority Data:
Germany, Number :1020221327108, Date : 08-12-2022.

(71) Applicant: C.T.R. Manufacturing Industries Private Limited of Nagar Road, Pune MH 411014, Nationality -India

(72) Inventors:

(74) Agent : K A. BARI & CO, {app_representative_address}, Bangladesh

(51) INT. CL. : B23K 9/067

(54) Invention Title: Transformer, arc detection system and method for detecting an arc

(57) Abstract

The invention relates to a transformer (1) with a housing (3) and an arc detection system (43), which comprises at least one light transmission means (45, 55), in particular an optical waveguide, and a light detector (47) for receiving electromagnetic radiation transmitted via the light transmission means, characterized in that the light detector (47) is arranged outside the housing (3) and the light transmission means (45, 55) is arranged at least partly inside the housing (3) and at least a part of the light transmission means (45, 55) inside the transformer (1) is adapted to receive electromagnetic radiation occurring inside the housing (3). Further, the invention relates to an arc detection system (43) for use in a transformer (1). Further, the invention relates to a method for detecting an arc in a transformer (1) according to the invention, comprising the steps of: Detecting an electromagnetic radiation transmitted by the light transmission means (45, 55) to the light detector (47), comparing the duration and/or the intensity of the electromagnetic radiation and/or the wave spectrum with one or more limit values, and initiating protective measures in the transformer if one or more limit values are exceeded, in particular disconnecting the input power and/or opening a drain valve (31) on the housing (3) and/or introducing an inert gas, in particular nitrogen, via an inlet valve (33).

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www.dpdt.gov.bd

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-304
(22) Filed: 11/12/2023

(23) Priority Data:

(71) Applicant: Komatsu Trading Inc (Japan) of BUILDING KOMATU 9-8-6, CHOMB HANNANCHO ABENO-KU OSAKA JAPAN 5450021, Nationality -Japan

(72) Inventors:

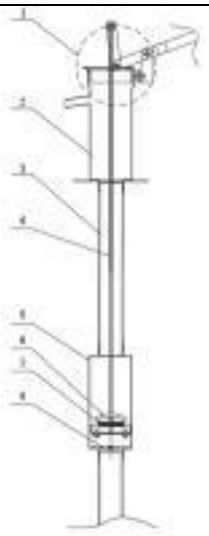
(74) Agent : Ba Sho, (President), {app_representative_address}, Bangladesh

(51) INT. CL. : F02B 63/06

(54) Invention Title: MANPOWER MULTI-STAGE DOWNSTROKE LIFT PUMP

(57) Abstract

The present Patent belongs to the technical field of drawing water, and discloses a manpower multi-stage downstroke lift pump, which includes a manual downstroke lift pump body, a water pipe, multi-stage intermediate pumps, a water outlet pipe set up on one side of the manual downstroke lift pump body, a downstroke structure installed at the top of the manual downstroke lift pump body and a piston rod installed at the lower part of the downstroke structure, wherein the piston rod penetrates the manual downstroke lift pump body, the lower part of the manual downstroke lift pump body is connected with the water pipe, the intermediate pumps in multi-stages are evenly distributed and connected on the water pipe; the intermediate pump in each stage includes a pump body, a bottom valve arranged on the bottom of the pump body, a piston movably installed in the pump body, and an unidirectional valve installed in the middle part of the piston; the top of the piston is connected with the piston rod. The present Patent greatly raises the water-lift by way of combining the structure of multi-stage intermediate pumps with the manual downstroke lift pump body of the existing well-adapted water lifting equipment, further enables the pump to provide a high water-lift, and labor-saving and durability; moreover, the piston moves upwards and downwards in the fixed hollow pump body, prolonging its service life and reducing replacement.



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-305
(22) Filed: 14/12/2023

(23) Priority Data:
United Kingdom, Number :22189914, Date : 15-12-2022.

(71) Applicant: Nicoventures Trading Limited of Globe House, 1 Water Street, London WC2R 3LA, Nationality - United Kingdom

(72) Inventors: (0) Paul Gibson of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality - United Kingdom, (1) Gary Fallon of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality - United Kingdom

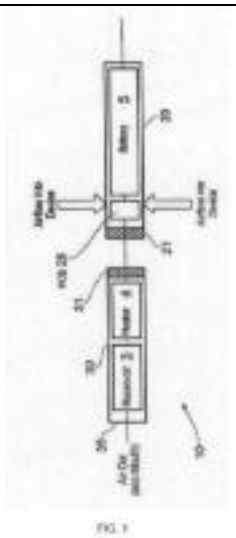
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : A24F 40/20

(54) Invention Title: Aerosol provision System

(57) Abstract

An aerosol generating material transfer component (200) for use as part of a non-combustible aerosol provision system (10). The aerosol generating material transfer component (200) comprises: at least one electrically conductive portion (201) and at least one electrically insulating portion (202).



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-306
(22) Filed: 14/12/2023

(23) Priority Data:
United Kingdom, Number :22189922, Date : 15-12-2022.

(71) Applicant: Nicoventures Trading Limited of Globe House 1 Water Street, London WC2R 3LA, United Kingdom., Nationality -United Kingdom

(72) Inventors: (0) Gary Fallon of Globe House 1 Water Street, London WC2R 3LA, United Kingdom., United Kingdom Nationality -United Kingdom, (1) Paul Gibson of Globe House 1 Water Street, London WC2R 3LA, United Kingdom., United Kingdom Nationality -United Kingdom

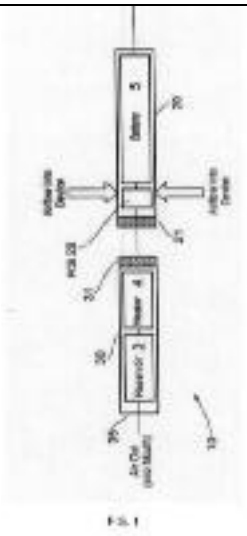
(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : A24F 40/46

(54) Invention Title: Aerosol Provision System

(57) Abstract

An aerosol generating material transfer component (100) for use as part of a non-combustible aerosol provision system (10). The aerosol generating material transfer component (100) is formed of an electrically conductive material. An outer surface (102) of the aerosol generating material transfer component (100) defines at least one groove (104).



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-307
(22) Filed: 14/12/2023

(23) Priority Data:
United Kingdom, Number :22191142, Date : 16-12-2022.

(71) Applicant: British American Tobacco (Investments) Limited of Globe House, 1 Water Street, London WC2R 3LA, Nationality -United Kingdom

(72) Inventors: (0) Michael CHURCHER of British American Tobacco (Investments) Limited, Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -United Kingdom

(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : B65D 75/58

(54) Invention Title: A pack and a method of manufacturing a pack

(57) Abstract

The present disclosure relates to a pack for aerosol-generating articles. The pack comprises a wrapped bundle comprising an inner wrap enclosing a group of aerosol-generating articles. The pack comprises an outer wrap comprising a flexible sheet material that encloses the wrapped bundle such that the wrapped bundle is not visible prior to opening of the pack. The outer wrap comprises a plurality of flaps that overlie an end of the wrapped bundle and wherein one or more of the flaps is retained in position by an adhesive, wherein the outer wrap is configured to be opened to provide access to said end of the wrapped bundle. The present disclosure also relates to a method of manufacturing a pack for aerosol-generating articles.

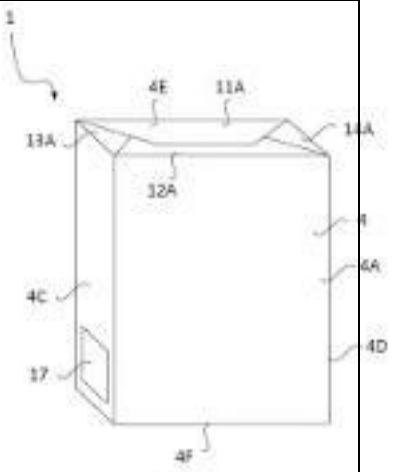

FIG. 1

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-308
(22) Filed: 14/12/2023

(23) Priority Data:
United Kingdom, Number :22191159, Date : 16-12-2022.

(71) Applicant: British American Tobacco (Investments) Limited of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom, Nationality -United Kingdom

(72) Inventors: (0) Michael CHURCHER of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom, United Kingdom Nationality -United Kingdom

(74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh

(51) INT. CL. : B65D 85/10

(54) Invention Title: A pack and a method of manufacturing a pack

(57) Abstract

The present disclosure relates to a pack for aerosol-generating articles.The pack comprises a wrapped bundle comprising an inner wrap enclosing a group of aerosol-generating articles. The pack comprises an outer wrap enclosing the inner wrap, wherein the outer wrap comprises an end wall that overlies an end of the wrapped bundle.The end wall comprises one or more lines of strength discontinuity configured such that at least a portion of the end wall is completely separable from the remainder of the outer wrap to provide access to the wrapped bundle. The present disclosure also relates to a method of manufacturing a pack for aerosol-generating articles.

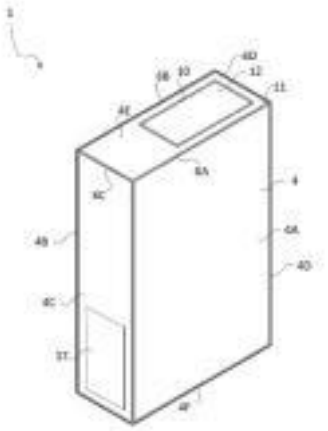

FIG. 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
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www.dpdt.gov.bd

Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-309
(22) Filed: 14/12/2023

(23) Priority Data:
United Kingdom, Number :22189906, Date : 15-12-2022.

(71) Applicant: Nicoventures Trading Limited of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom., Nationality -United Kingdom

(72) Inventors: (0) Gary Fallon of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom., United Kingdom Nationality -United Kingdom, (1) Paul Gibson of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom., United Kingdom Nationality -United Kingdom

(74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh

(51) INT. CL. : A24F 40/46

(54) Invention Title: Aerosol Provision System

(57) Abstract

An aerosol generating component (100) for use as part of an aerosol provision system (10). The aerosol generating component (100) defines an axis (X) and comprises a plurality of generally planar heating sections (101). The heating sections (101) are arranged along the axis (X) defined by the aerosol generating component (100) and spaced apart from each other. The plane of each heating section (101) is obliquely angled with respect to the axis (X) defined by the aerosol generating component (100).

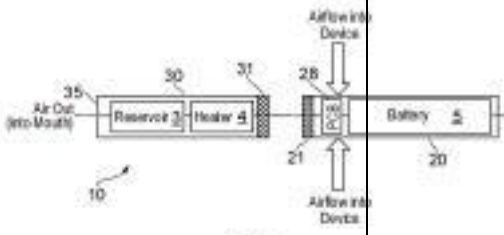

FIG. 1

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www.dpdt.gov.bd

Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-310
(22) Filed: 14/12/2023

(23) Priority Data:
India, Number :202241075703, Date : 26-12-2022.

(71) Applicant: TVS Motor Company Limited of 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India., Nationality -India

(72) Inventors: (0) MAIVEL MURUGAN of 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India., India Nationality -India, (1) SARMADH AMEER SHAFI KHAN of 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India., India Nationality -India, (2) DATTA RAJARAM SAGARE of 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India., India Nationality -India, (3) DAVINDER KUMAR of 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India., India Nationality -India, (4) BHUSAM SYAMALARAO of 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India., India Nationality -India

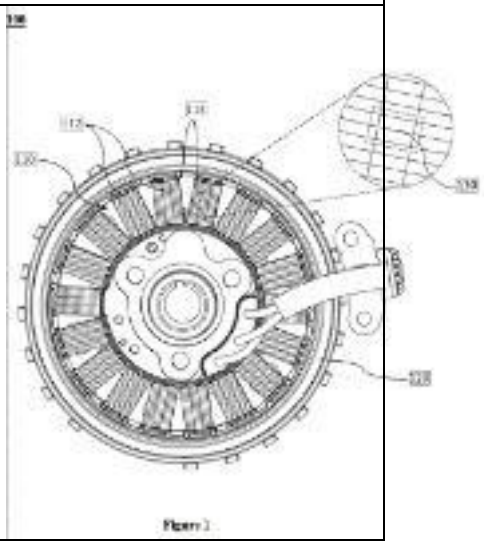
(74) Agent : RANA & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : F01C 1/00

(54) Invention Title: A Rotary Electrical Machine for a Vehicle

(57) Abstract

A rotary electrical machine (100) for a vehicle (10) comprising a stator (110) having a plurality of teeth (112) configured to receive a plurality of stator coils (114), and a rotor (120). The rotor (120) is configured to be rotatably engaged with the stator (110). The rotary electric machine (100) has a sensor (130) provided in the rotary electrical machine (100). The sensor (130) is configured for sensing at least one operating parameter of the rotary electrical machine (100). The sensor (130) is communicatively connected with an electronic control unit (140), wherein the electronic control unit (140) is configured to receive the at least one operating parameter of the rotary electrical machine (100) from the sensor (130) and control an amount of electrical power supplied from a power source of the vehicle (10) to the rotary electrical machine (100) based on the operating parameter received from the sensor (130).



গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-311
(22) Filed: 14/12/2023

(23) Priority Data:
India, Number :202241076561, Date : 28-12-2022.

(71) Applicant: TVS Motor Company Limited of 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India., Nationality -India

(72) Inventors: (0) SIVARAM SRINIVASAN of 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India., India Nationality -India, (1) ANAND MOTILAL PATIL of 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India., India Nationality -India, (2) KANDREGULA SRINIVASA RAO of 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India., India Nationality -India

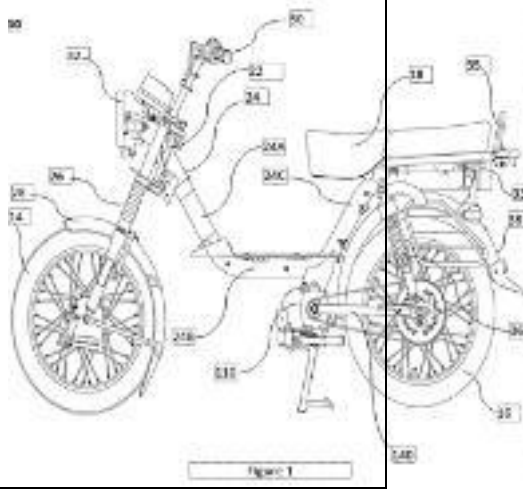
(74) Agent : RANA & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : B60N 2/40

(54) Invention Title: A Saddle Type Vehicle

(57) Abstract

The present invention relates to a saddle type vehicle (10). The saddle type vehicle (10) comprising of a head pipe (22) and a main frame (24). A traction motor (110) which provide traction force to the rear wheel (16). A traction motor mounting bracket (120) extending downwardly from the main frame (24). The traction motor mounting bracket (120) configured to support the traction motor (110). A pivot member (130) provided on the traction motor mounting bracket (120). The pivot member (130) extending in a vehicle width direction. A swing arm (140) configured to swingably support the rear wheel (16). The swing arm (140) being pivotally mounted on the pivot member (130) and a drive sprocket (150) configured for transmitting traction force from the traction motor (110) to the rear wheel (16). The drive sprocket (150) being rotatably supported on the pivot member (130).



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-313
(22) Filed: 18/12/2023

(23) Priority Data:
United Kingdom, Number :22192728, Date : 20-12-2022.

(71) Applicant: Supercrease Limited of Unit 5, The Moorings, Waterside Road, Leeds, LS10 1DG, Nationality -United Kingdom

(72) Inventors: (0) Kenneth Houlbrook of Unit 5, The Moorings, Waterside Road, Leeds, LS10 1DG, United Kingdom Nationality -United Kingdom, (1) Shaun Carter of Unit 5, The Moorings, Waterside Road, Leeds, LS10 1DG, United Kingdom Nationality -United Kingdom

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : B05C 17/015

(54) Invention Title: Improvements to apparatus for the application of resin along a crease line of a garment.

(57) Abstract

The invention relates to applicator apparatus for the application of a resin material along a crease line of a garment, said applicator apparatus including a body in, or to, which said resin material is provided and the body includes, or is connected to, a dispensing aperture to allow the supply of said resin through the dispensing aperture onto said crease line as the applicator apparatus is moved along said crease line. The applicator apparatus includes a plurality of guide means provided at spaced locations with respect to said body so as to contact with the crease line at spaced apart locations in advance of the said dispensing aperture. At least one of the said guide means includes location means and a rotatable member and it is the rotatable member which rotates and contacts with the said crease line, during the application of the resin therealong so as to improve the accuracy of application of the resin material to the base of the crease line on the surface of the garment which faces inwardly towards the wearer when the garment is worn.

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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-315
(22) Filed: 20/12/2023

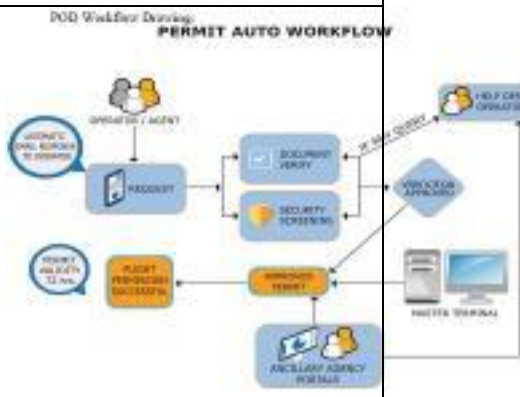
(23) Priority Data:

(71) Applicant: ASL SYSTEMS LIMITED of House 1&3, Level 2&3, Road 21/C, Nikunja 2, Khilkhet Dhaka 1229, Nationality -Bangladesh

(72) Inventors:

(51) INT. CL. : F42B 6/00

(54) Invention Title: brief description of our Invention a fully automated permit issuance technology for ANSP to issue flight permits for operators. The transmission from legacy systems to automated infrastructure.



(57) Abstract
Permit Operations Database (POD). The invention pertains to an automated flight permit management system designed to optimize processing flight permits for non-scheduled flights by foreign registered aircraft. At its core, the system incorporates a novel permit operation database (POD) that revolutionizes the traditional approach to permit issuance and management. The permit operation database (POD) is characterized by a cloud-based architecture, ensuring scalability, flexibility, and accessibility. Unlike conventional databases, the POD dynamically adjusts decision-making processes based on real-time data and changing conditions, enhancing adaptability and responsiveness in permit processing. Security and access controls are paramount in the invention, with the POD implementing a role-based access control (RBAC) system for fine-grained permissions management. Predictive analytics using machine learning algorithms are integrated into the database, allowing for the estimation of permit processing times and optimization of resource allocation. In a groundbreaking move, the invention incorporates blockchain technology into the permit operation database, ensuring immutable record-keeping. This feature enhances transparency and trust in the permit issuance process. The user interfaces associated with the permit operation database are designed with an intuitive dashboard, catering specifically to the needs of aviation professionals involved in the permit issuance and management process. This ensures a user-friendly experience and streamlined interaction with the system. The automated flight permit management system, coupled with the innovative permit operation database, aims to improve operational efficiency, collaboration among stakeholders, and overall financial performance for Air Navigation Service Providers (ANSPs) and Civil Aviation Authorities in the Asia Pacific region. This abstract provides a brief yet comprehensive overview of the key features of the invention, emphasizing the novel aspects of the permit operation database and its role in transforming the traditional permit processing workflow.

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শিল্প মন্ত্রণালয়
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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-316
(22) Filed: 21/12/2023

(23) Priority Data:
Spain, Number :202231090, Date : 21-12-2022.

(71) Applicant: Cristóbal Javier ROSA MORALES of Av. Da Aldeia Nova 308, 4770-178 Cruz, Vila Nova de Famalicão, Nationality -Portugal

(72) Inventors:

(74) Agent : MUNSHI & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : H04L 9/08

(54) Invention Title: Device for encrypting private keys/seeds of cryptoasset wallets and storage on nfc cards and method for such a device

(57) Abstract

Device (1) for encrypting private keys/seeds of cryptoasset wallets and storage on NFC cards, comprising: - a first microcontroller (2), with a first microprocessor (20) with embedded operating system, memory (22) for operation and storage of firmware, and interfaces (23) with the rest of the elements of the device, - a secure hardware element (21), with a second microcontroller (21a) with a second microprocessor (21b) and firmware physically separated from the first microcontroller (2) and first microprocessor (20), for the functions of cryptogram generation and management of any sensitive process data, - an NFC card (4) reader/writer (3), - a screen (5), - a keyboard (6), - readers (7) of biometric variables, and - a power supply (8); - and wherein the hardware secure element (21), comprises a secure memory (21c), separate from the general operating memory (22). The invention also comprises a method for such a device.

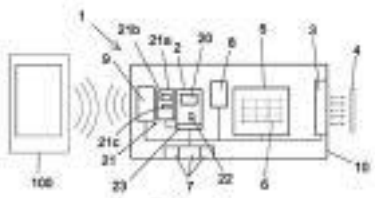

Fig 1

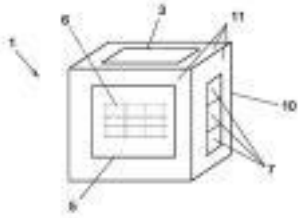

Fig 2

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date , **(21) Appl. No.** BD-P-2023-317 **(22) Filed:** 28/12/2023
(23) Priority Data: Korea, Number :1020220187715, Date : 28-12-2022.
(71) Applicant: CJ CHEILJEDANG CORPORATION of 330, Dongho-ro, Jung-gu, Seoul 04560, Nationality -Korea
(72) Inventors: (0) PARK, Soe-hee of 330, Dongho-ro, Jung-gu, Seoul 04560, Korea Nationality -Korea, (1) JUNG, Moo Young of 330, Dongho-ro, Jung-gu, Seoul 04560, Korea Nationality -Korea, (2) PARK, Seul-Gi of 330, Dongho-ro, Jung-gu, Seoul 04560, Korea Nationality -Korea, (3) SHIM, Jihyun of 330, Dongho-ro, Jung-gu, Seoul 04560, Korea Nationality -Korea, (4) LEE, Sumin of 330, Dongho-ro, Jung-gu, Seoul 04560, Korea Nationality -Korea
(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh
(51) INT. CL. : C12P 13/22
(54) Invention Title: MICROORGANISM INTRODUCED WITH FOREIGN GLUTAMINE SYNTHETASE AND METHOD OF PRODUCING L-TRYPTOPHAN USING THE SAME
(57) Abstract The present disclosure relates to a microorganism, into which a foreign glutamine synthetase is introduced, and a method of producing L-tryptophan using the same.

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date , **(21) Appl. No.** BD-P-2023-318 **(22) Filed:** 28/12/2023
(23) Priority Data: Korea, Number :1020220187716, Date : 28-12-2022.
(71) Applicant: CJ CHEILJEDANG CORPORATION of 330, Dongho-ro, Jung-gu, Seoul 04560, Nationality -Korea
(72) Inventors: (0) PARK, Soe-hee of 330, Dongho-ro, Jung-gu, Seoul 04560, Korea Nationality -Korea, (1) JUNG, Moo Young of 330, Dongho-ro, Jung-gu, Seoul 04560, Korea Nationality -Korea, (2) PARK, Seul-Gi of 330, Dongho-ro, Jung-gu, Seoul 04560, Korea Nationality -Korea, (3) KIM, Sang Jun of 330, Dongho-ro, Jung-gu, Seoul 04560, Korea Nationality -Korea, (4) LEE, Sumin of 330, Dongho-ro, Jung-gu, Seoul 04560, Korea Nationality -Korea
(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh
(51) INT. CL. : C12N 15/70
(54) Invention Title: MICROORGANISMS INTRODUCED WITH EXOGENOUS SOLUBLE PYRIDINE NUCLEOTIDE TRANSHYDROGENASE AND METHOD FOR PRODUCING L-TRYPTOPHAN USING THE SAME
(57) Abstract The present disclosure relates to a microorganism of the genus Escherichia into which an exogenous soluble pyridine nucleotide transhydrogenase is introduced, and a method for producing L-tryptophan using the same.

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www.dpdt.gov.bd

Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date , **(21) Appl. No.** BD-P-2023-319 **(22) Filed:** 28/12/2023
(23) Priority Data: Korea, Number :1020220187717, Date : 28-12-2022.
(71) Applicant: CJ CHEILJEDANG CORPORATION of 330, Dongho-ro, Jung-gu, Seoul 04560, Nationality -Korea
(72) Inventors: (0) PARK, Soe-hee of 330, Dongho-ro, Jung-gu, Seoul 04560, Korea Nationality -Korea, (1) JUNG, Moo Young of 330, Dongho-ro, Jung-gu, Seoul 04560, Korea Nationality -Korea, (2) PARK, Seul-Gi of 330, Dongho-ro, Jung-gu, Seoul 04560, Korea Nationality -Korea, (3) KIM, Sang Jun of 330, Dongho-ro, Jung-gu, Seoul 04560, Korea Nationality -Korea
(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh
(51) INT. CL. : C12P 13/22
(54) Invention Title: MICROORGANISMS INTRODUCED WITH EXOGENOUS SOLUBLE PYRIDINE NUCLEOTIDE TRANSHYDROGENASE AND METHOD FOR PRODUCING L-TRYPTOPHAN USING THE SAME
(57) Abstract The present disclosure relates to a microorganism of the genus Corynebacterium, into which an exogenous soluble pyridine nucleotide transhydrogenase is introduced, and a method for producing L-tryptophan using the same.

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www.dpdt.gov.bd

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2023-320
(22) Filed: 31/12/2023

(23) Priority Data:
China, Number :2023073479, Date : 26-01-2023.

(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland

(72) Inventors: (0) Samuli Heikki TURTINEN of Salongintie 15, Ii, 91100, Finland Nationality -Finland, (1) Jussi-Pekka KOSKINEN of Kipinäkuja 10, Oulu, 90420, Finland Nationality -Finland, (2) Chunli WU of No. 1 Wangjng East Road, Beijing, 100102, China Nationality -China

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : H04N 7/025

(54) Invention Title: ATTACKER IDENTIFICATION DURING SMALL DATA TRANSMISSION

(57) Abstract

According to an aspect, there is provided a terminal device for performing the following. The terminal device obtains, when the terminal device is in an inactive state while a small data transmission, SDT, procedure is ongoing, information that in-dicates transmission of a data unit over a radio bearer to the terminal device. The ter-minal device checks whether or not the radio bearer is configured for the SDT proce-dure. The terminal device determines whether or not to avoid further processing and/or decoding of the data unit based at least on the checking.

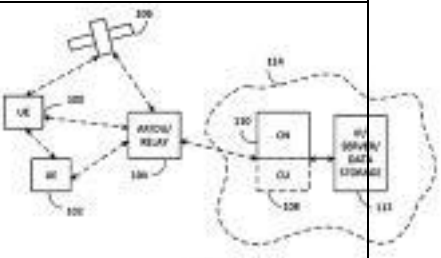

Fig. 1

Fig. 2

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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শিল্প মন্ত্রণালয়
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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-1
(22) Filed: 01/01/2024

(23) Priority Data:
India, Number :202341001230, Date : 05-01-2023.

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(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : B60K 35/00

(54) Invention Title: A System for Integration of a Speedometer Unit in a Vehicle and a Method thereof

(57) Abstract

The present invention relates to a system (100) and method (200) for integration of a speedometer unit (110) in a vehicle (10). The system (100) has a plurality of control units (130) that are configured to store at least a vehicle identification number (VIN) corresponding to the vehicle (10). Further, the system (100) has a speedometer unit (110) configured to store a set of prestored VIN corresponding to a plurality of vehicle types, and a plurality of sets of preloaded features. The speedometer unit (110) requests and receives the VIN from at-least one of the plurality of the control units (130). The speedometer unit (110) maps the received VIN with the prestored set of VIN and identifies and selects a set of preloaded features which correspond to identified vehicle type and displays the selected prestored set of information.

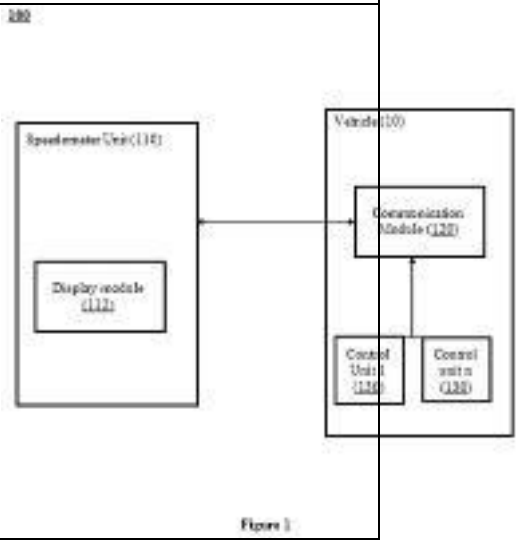

Figure 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
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www.dpdt.gov.bd

Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date , **(21) Appl. No.** BD-P-2024-3 **(22) Filed:** 03/01/2024
(23) Priority Data: European Patent Office (EPO), Number :231609595, Date : 09-03-2023. and India, Number :202311001461, Date : 07-01-2023.
(71) Applicant: SYNGENTA CROP PROTECTION AG of Rosentalstrasse 67, 4058 Basel, Nationality -Switzerland
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(74) Agent : Advanced IP Law Firm, {app_representative_address}, Bangladesh
(51) INT. CL. : C07C 233/03
(54) Invention Title: NOVEL CARBOXAMIDE COMPOUNDS
(57) Abstract Compounds of formula (I) (I) wherein the substituents are as defined in claim 1, and the agrochemically acceptable salts, stereoisomers, enantiomers, tautomers and N-oxides of those compounds, can be used as insecticides.

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-5
(22) Filed: 08/01/2024

(23) Priority Data:
United States of America, Number :63437376, Date : 06-01-2023.

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(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : H04N 19/597

(54) Invention Title: ENCODING POINT DATA INDICATING A PLURALITY OFPOINTS IN A THREE-DIMENSIONAL SPACE

(57) Abstract

There is provided a method of encoding point data that indicates a plurality of points in a three-dimensional, 3D, environment. The method comprises obtaining the point data and grouping the plurality of points into a plurality of slices which includes a first slice and a second slice, wherein i) the first slice includes a first set of points and a second set of points, and ii) the second slice includes the first set of points and the second set of points. The method further comprises encoding the point data using the plurality of slices. Encoding the point data using the plurality of slices comprisesfor the first slice, encoding first point data indicating the first set of points, thereby generating a first encoding point; andfor the second slice, encoding second point data indicating the second set of points, thereby generating a second encoding point, and the first encoding point and the second encoding point are the same.

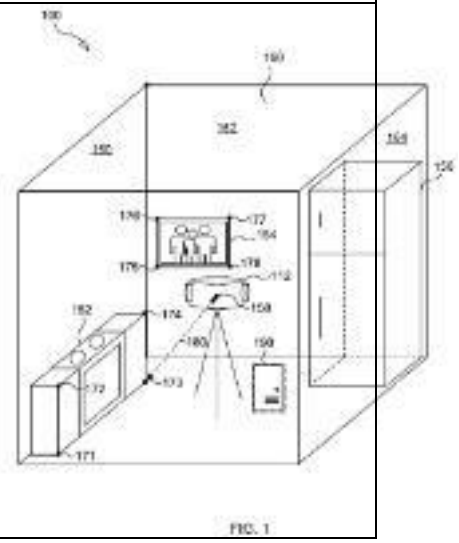

FIG. 1

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-6
(22) Filed: 09/01/2024

(23) Priority Data:
India, Number :202341001855, Date : 09-01-2023.

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(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : B60K 35/00

(54) Invention Title: A VEHICLE

(57) Abstract

The present invention relates to a vehicle (100) comprising a single display unit (102). The single display unit (102) is a heads up display unit angularly projected at a line of sight (A) of a rider of the vehicle (100). The single display unit (102) is configured for displaying one or more first information and one or more second information. The one or more first information is related to parameters of the vehicle (100) and the one or more second information is received from one or more devices communicatively coupled to the vehicle (100). In the present invention, the conventionally used speedometer is absent which reduces the overall cost of the vehicle (100), simplifies design of the vehicle (100) and also provides additional space on the handlebar assembly (108) of the vehicle which can be used as a storage compartment.

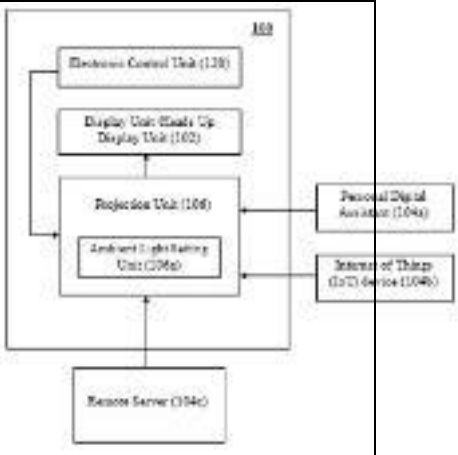

Figure 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-7
(22) Filed: 10/01/2024

(23) Priority Data:
India, Number :202321002061, Date : 10-01-2023.

(71) Applicant: Bhagat Textile Engineers of Plot No. B13/10 Hojiwala Ind. Estate, Road No. 13, Village Vanz, Sachin Palsana Road, Sachin, Surat - 394230, Gujarat, Nationality -India

(72) Inventors: (0) BHAGAT, Lalitbhai of 54, Nehru Nagar Soc., Nr. Icchhanath Mandir, Dumas Rd, Parle Point, Surat, Gujarat - 395007, India Nationality -India, (1) BHAGAT, Jiteshbhai of 54, Nehru Nagar Soc., Nr. Icchhanath Mandir, Dumas Rd, Parle Point, Surat, Gujarat - 395007, India Nationality -India

(74) Agent : Shahid & Alliance, {app_representative_address}, Bangladesh

(51) INT. CL. : F23J 15/08

(54) Invention Title: PRIMARY HEATER IN DRAWN TEXTURING YARN PRODUCTION

(57) Abstract
The present disclosure provides for a heater in drawn texturing yarn production, may include a heating element configured on to the heater to generate and apply heat to a yarn passing through the heater. The heater may also include an inlet and an outlet configured at a first end of the heater, configured to allow the yarn to enter into the heater and said outlet configured to allow the yarn to exit the heater. Further, the heater may include a reversing guide configured at second end of the heater to reverse the direction of the yarn passing through the heater, said inlet, said outlet and said reversing guide are configured such that the yarn enters into the heater from the inlet and passes through the length of the heater to the reversing guide, where said reversing guide reverses direction of the yarn to allow said yarn to pass through the length of the heater from the reversing guide to the outlet.

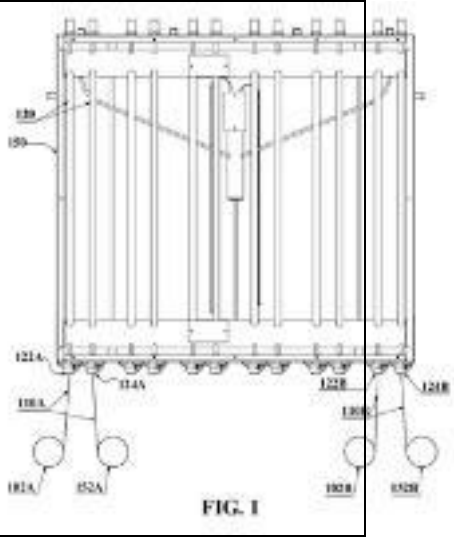

FIG. 1

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শিল্প মন্ত্রণালয়
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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-8
(22) Filed: 11/01/2024

(23) Priority Data:
Mexico, Number :2023014983, Date : 13-12-2023.

(71) Applicant: MYCASHLESS SAPI DE CV of Puebla 75 Int. 3, Roma Norte, Cuauhtémoc 06700, Ciudad de México, Nationality -Mexico

(72) Inventors: (0) Enrico Becerra Morales of Puebla 75 Int 3, Roma Norte, Cuauhtémoc 06700, Ciudad de México, Mexico Nationality -Mexico

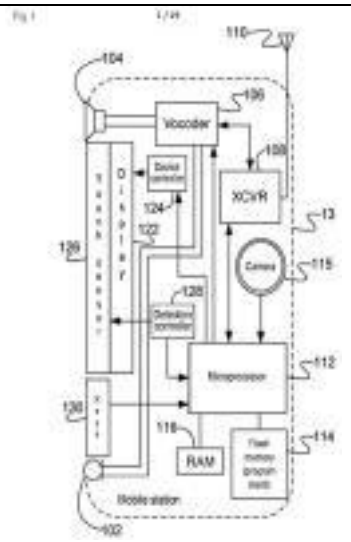
(74) Agent : APT IP LAW AGENCY BD., {app_representative_address}, Bangladesh

(51) INT. CL. : H04W 8/08

(54) Invention Title: METHOD, APPARATUS, AND SYSTEM FOR TRANSFERING DATA

(57) Abstract

A method and system for transferring encrypted data from a first electronic device to a second electronic device, each of the electronic devices including an input/output interface, a memory and a processor. The method can be carried out without the first and/or second electronic device having an active data signal. The method includes the steps of displaying a first encrypted two-dimensional code at the output interface of the first electronic device, reading the first encrypted two-dimensional code with the input interface of the second electronic device, and decrypting the first two-dimensional code with the processor and memory of the second electronic device, generating a second encrypted two-dimensional code with the processor and memory of the second electronic device in response to the first decrypted two-dimensional code, and displaying the second encrypted two-dimensional code on the output interface of the second electronic device, reading the second encrypted two-dimensional code with the input interface of the first electronic device and decrypting the second two-dimensional code with the processor of the first electronic device and generating an action on the first electronic device based on the second decrypted two-dimensional code. The second two-dimensional code is a plurality of two-dimensional codes.



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-9
(22) Filed: 14/01/2024

(23) Priority Data:

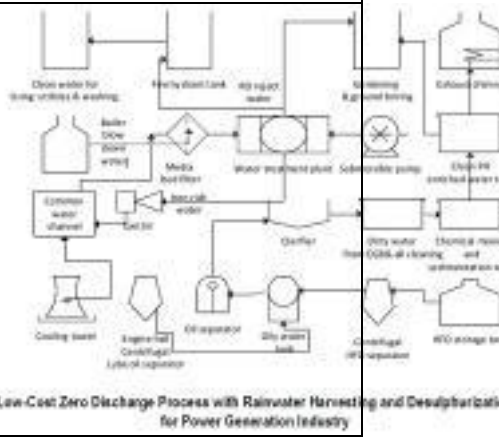
(71) Applicant: Md. Hasan Zahir of Girls College road, Professorpara, Holding no-1276, Noapara, Guakhula, House-48, Abohynagar, Jessore, Khulna, 7460, Nationality -Bangladesh

(72) Inventors: (0) Md. Hasan Zahir of Girls College road, Professorpara, Holding no-1276, Noapara, Guakhula, House-48, Abohynagar, Jessore, Khulna, 7460, Bangladesh Nationality -Bangladesh

(51) INT. CL. : C02F 1/04

(54) Invention Title: Low-Cost Zero Discharge Process with Rainwater Harvesting and Desulphurization for Power Generation Industry

(57) Abstract
The Low-Cost Zero Discharge Process with Rainwater Harvesting and Desulphurization for Power Generation Industry introduces an integrated approach for achieving sustainable water management and emissions control. The process combines cost-effective zero discharge principles with rainwater harvesting and desulphurization techniques to provide a holistic solution for the power generation industry. The invention emphasizes water sustainability, reduced reliance on external water sources, and emissions control in a financially viable manner.



Low-Cost Zero Discharge Process with Rainwater Harvesting and Desulphurization for Power Generation Industry

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date , **(21) Appl. No.** BD-P-2024-10 **(22) Filed:** 14/01/2024
(23) Priority Data:
(71) Applicant: Md Hasan Zahir of Girls College road, Professorpara, Holding no-1276, Noapara,Guakhula, House-48, Abohynagar, Jessore, Khulna, 7460, Nationality -Bangladesh
(72) Inventors: (0) Md Hasan Zahir of Girls College road, Professorpara, Holding no-1276, Noapara,Guakhula, House-48, Abohynagar, Jessore, Khulna, 7460, Bangladesh Nationality -Bangladesh
(51) INT. CL. : E02F 1/00
(54) Invention Title: Sustainable Energy Generation and Soil Enrichment through Eco-Friendly Waste-to-Energy converter.
(57) Abstract

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
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(11) Patent registration No and date , **(21) Appl. No.** BD-P-2024-11 **(22) Filed:** 16/01/2024
(23) Priority Data:
(71) Applicant: Khan Mohammad Golarn Maola, PhD of House no, 47, Sheba 110. 130, Block A, Mokter Bari Road, Moddo Auchpara, PO: NishatNagar, Tongi, Gazipur, Nationality -Bangladesh
(72) Inventors: (0) Khan Mohammad Golarn Maola, PhD of House no, 47, Sheba 110. 130, Block A, Mokter Bari Road, Moddo Auchpara, PO: NishatNagar, Tongi, Gazipur, Bangladesh Nationality -Bangladesh, (1) Md. Nasir Uddin of House no, 98, Mokter Bari Road, Moddo Auchpara, PO: NishatNagar, Tongi, Gazipur, Bangladesh Nationality -Bangladesh
(51) INT. CL. : A61P 25/04
(54) Invention Title: Formulation of Liquid Organic Acids and a Method for pH Control Utilizing the Same
(57) Abstract The present innovation involves a method that employs organic acids, encompassing monocarboxylic, dicarboxylic, or tricarboxylic saturated aliphatic carboxylic acids, and their combinations, to regulate pH levels in textile processing. Various liquid and solid acids have undergone testing, and two prerened formulations are detailed herein. Their advantages over conventional acid, such as acetic acid and inorganic acids, are discussed. The formulations demonstrate the capability to adjust pH of a standard industry textile processing bath within a range of 4-6, with no discernible, impact on fabric integrity, as evidenced by the required force for fabric bursting and the time taken to burst.

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-12
(22) Filed: 17/01/2024

(23) Priority Data:

(71) Applicant: Dhana Inc. of One Habor Drive, Suite 300, Sausalito, CA 94965, Nationality -United States of America

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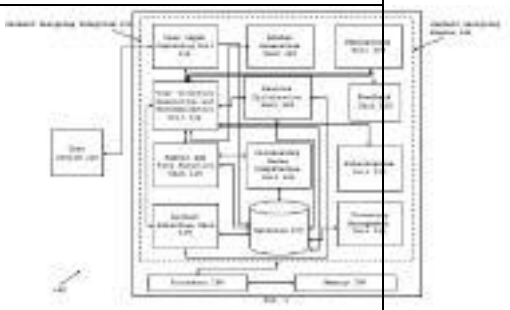
(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : B25J 9/16

(54) Invention Title: SYSTEM AND METHOD FOR DIGITIZED GARMENT CREATION

(57) Abstract
A system (100) and method for digitized garment creation is provided. Inputs are received via actionable User Interface (UI) for designing garments and analyzed for determining requirements for designing garments. Analyzed inputs are in the form of first set of instructions. Multiple fabric pieces data is fetched and rendered in graphical format based on second set of instructions. Circulatory score is computed for metadata associated with each of multiple fabric pieces data. Size of garment type is tagged on actionable UI using tagged fabric piece data. Garment types are fetched and rendered in template form on UI. Designs are rendered for selection for designing garment type. Tagged garment type template is split into fixed number of panels, panels are configurable for being embedded with images. Avatar of user is generated for displaying designed garment type on user from different sides of user as virtual try-on technique.



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www.dpdt.gov.bd

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-13
(22) Filed: 17/01/2024

(23) Priority Data:
United Kingdom, Number :23008204, Date : 19-01-2023.

(71) Applicant: Global Health Mam Ltd. of 2nd Floor College House, 17 King Edwards Road, Ruislip London HA4 7AE, Nationality -United Kingdom

(72) Inventors: (0) Muhammed Abdul Malik of 68 Bigland Street, London E1 2ND, United Kingdom Nationality - United Kingdom

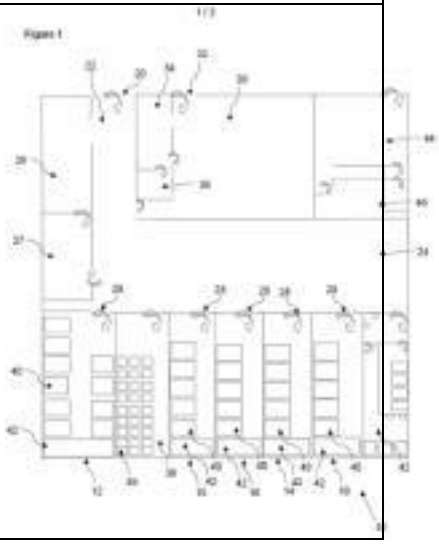
(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : G16H 10/00

(54) Invention Title: Integrated Healthcare System and Associated Method

(57) Abstract

An integrated healthcare system including at least one general practitioner 12, at least one optician 14, at least one dentist 15, at least one ear, nose and throat specialist 16, and at least one diagnostics centre 18. A healthcare-system on-boarding method of identifying a healthcare package for a patient to an integrated healthcare system. The method comprises assessing a patient's geographical history data and application data via a patient electronic device to determine whether a threshold level is reached. Proposed package data is then displayed to a prospective patient based on whether a threshold level is reached.



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(21) Appl. No. BD-P-2024-14
(22) Filed: 17/01/2024

(23) Priority Data:
India, Number :202341007108, Date : 03-02-2023.

(71) Applicant: TVS Motor Company Limited of Chaitanya, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai, Tamil Nadu -600 006, Nationality -India

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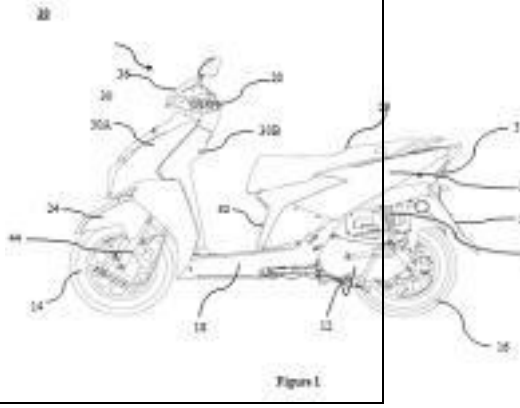
(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : B60K 6/543

(54) Invention Title: A Continuously Variable Transmission System

(57) Abstract
The present invention relates to a Continuously Variable Transmission (CVT) System (100). The CVT system (100) comprising of a continuously variable transmission (CVT) drive assembly (110) having a fixed drive sheave (112) and a movable drive sheave (114), a CVT driven assembly (120) which is configured to be driven by the CVT drive assembly (110). A cam member (130) provided abutting to the movable drive sheave (114) and configured to restrict the movement of the movable drive sheave (114), wherein the cam member (130) being moveable between a plurality of positions. A cam member shaft (140) being configured to support the cam member (130). An actuator mechanism (150) being configured to rotate the cam member shaft (140), thereby moving the cam member (130) between the plurality of positions to restrict the movement of the movable drive sheave (114) at a plurality of gaps from the fixed drive sheave (112).



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শিল্প মন্ত্রণালয়
৯১, মতিঝিল বা/এ, ঢাকা-১০০০
www.dpdt.gov.bd

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-16
(22) Filed: 18/01/2024

(23) Priority Data:
United Kingdom, Number :23009053, Date : 20-01-2023.

(71) Applicant: Nicoventures Trading Limited of Globe House, 1 Water Street, London WC2R 3LA, Nationality - United Kingdom

(72) Inventors: (0) Anuradha Bansal of c/o Nicoventures Trading Limited, Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -United Kingdom

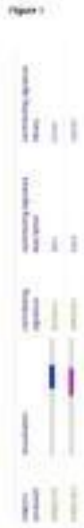
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : A01H 6/82

(54) Invention Title: METHOD

(57) Abstract

The present invention provides a method for modulating the alkaloid content of a plant (e.g. a tobacco plant), the method comprising modifying said plant by modulating the activity or expression of a HNH endonuclease domain containing peptide. The present invention also provides for the use of a HNH endonuclease domain containing peptide for modulating the alkaloid content of a plant, as well as tobacco cells, plants, plant propagation materials, harvested leaves, processed tobaccos, or tobacco products obtainable in accordance with the invention.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-17
(22) Filed: 18/01/2024

(23) Priority Data:
United Kingdom, Number :2023050091, Date : 19-01-2023.

(71) Applicant: James Kwok of U10D, 28 Bayview Street Runaway Bay Queensland 4216, Nationality -Australia

(72) Inventors: (0) James Kwok of U10D, 28 Bayview Street Runaway Bay Queensland 4216, Australia Nationality -Australia

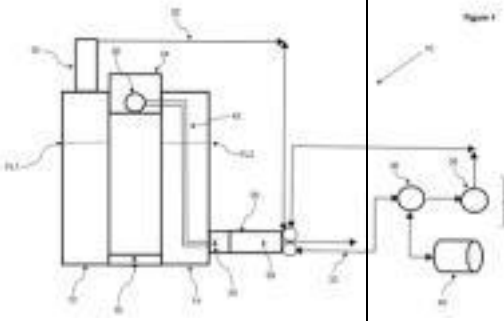
(74) Agent : SUPREMEiP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : B60L 53/50

(54) Invention Title: Hydrodynamic Energy Storage and Electricity Generator

(57) Abstract

A hydrodynamic energy storage and electricity generator (10) is provided which comprises first and second fluid storage columns (12, 14), and an openable and closable conversion valve (16) therebetween. A return conduit (42) connects the first and second fluid storage columns (12, 14), with a turbine and generator assembly (26) being positioned on a fluid flow path of the return conduit (42). There is at least one energy storage device (36) associated with at least one hydrostatic cylinder (20) connected to the second fluid storage column (14). On opening of the conversion valve (16), fluid in the first fluid storage column (12) is permitted to flow into the second fluid storage column (14) to drive the at least one energy storage device (36) to store energy, and upon closing the conversion valve (16), fluid in the second fluid storage column (14) is hydromechanically directed via the return conduit (42) to the first fluid storage column (10), thereby driving the turbine and generator assembly (26) to generate electricity.



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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-18
(22) Filed: 21/01/2024

(23) Priority Data:
United States of America, Number :63480697, Date : 20-01-2023.

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(72) Inventors: (0) Oskar Myrberg of Långängsgatan 17, SE-603 61 NORRKÖPING, Sweden Nationality -Sweden, (1) Andreas Höglund of Igelbacken 39, SE-170 62 SOLNA, Sweden Nationality -Sweden, (2) Revathy Narayanan of Rudbecksväg 147, SE-192 51 SOLLENTUNA, Sweden Nationality -India, (3) Jan Christoffersson of Stenåsvägen 13, SE-975 61 LULEÅ, Sweden Nationality -Sweden

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : H04W 84/18

(54) Invention Title: WIRELESS DEVICE, NETWORK NODE, AND METHODS PERFORMED THEREBY,FOR HANDLING ABSENCE OF AN ACTIVE CONNECTION

(57) Abstract
A method, performed by a wireless device (130), for handling absence of an active connection to a network node (110). The wireless device (130) and the network node (110) operate in a wireless communications network (100). The wireless device (130) obtains (201) a first indication from the network node (110)indicating that the wireless device (130) is to perform an estimation, of a quality of a radio channel between the wireless device (130) and the network node (110), during a random access procedure in the absence of an active connection to the network node (110) and prior to receiving data from the network node (110). The wireless device (130) estimates (203), in the absence of the active connection, the quality of the radio channel and then sends (204), still in the absence of the active connection, another indication to the network node (110)indicating the estimated quality of the radio channel.

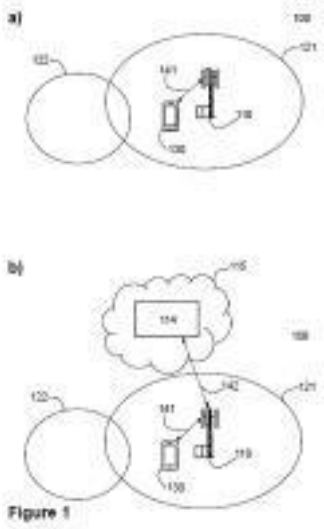

Figure 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-19
(22) Filed: 21/01/2024

(23) Priority Data:
India, Number :202341004194, Date : 20-01-2023.

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(72) Inventors: (0) AVINASH RAMANI of 19/10, Xavier Street, 1st Floor, Off. Gemini, Teynampet, Chennai-600006, Tamil Nadu, India Nationality -India, (1) AGRAGESH RAMANI of 19/10, Xavier Street, 1st Floor, Off. Gemini, Teynampet, Chennai-600006, Tamil Nadu, India Nationality -India, (2) BAPATLA KESAVA PAVAN KUMAR of 19/10, Xavier Street, 1st Floor, Off. Gemini, Teynampet, Chennai-600006, Tamil Nadu, India Nationality -India, (3) BHAVANI GUNASEKARAN of 19/10, Xavier Street, 1st Floor, Off. Gemini, Teynampet, Chennai-600006, Tamil Nadu, India Nationality -India, (4) GEETHA KANNAN of 19/10, Xavier Street, 1st Floor, Off. Gemini, Teynampet, Chennai-600006, Tamil Nadu, India Nationality -India, (5) TEJESWINI KATILA of 19/10, Xavier Street, 1st Floor, Off. Gemini, Teynampet, Chennai-600006, Tamil Nadu, India Nationality -India

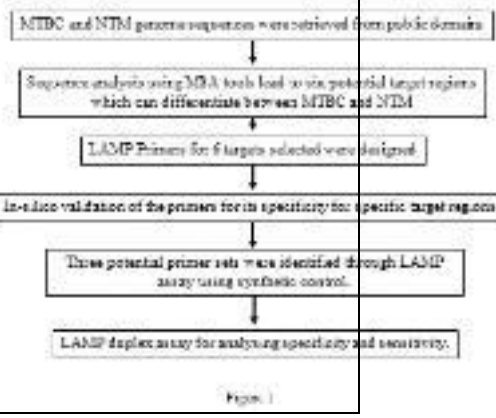
(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : A61P 31/06

(54) Invention Title: COMPOSITION, SYSTEM AND METHOD FOR DNA AMPLIFICATION OF MYCOBATERIUM TUBERCULOSIS COMPLEX

(57) Abstract

The present invention discloses a composition for amplification of specific DNA sequences of Mycobacterium tuberculosis complex from different biological samples. The present invention also discloses a system for rapid and accurate detection of Mycobacterium tuberculosis complex from different biological samples using naked eye, comprising means for DNA extraction, DNA amplification, DNA visualization. The present invention also discloses a method for rapid and accurate detection of Mycobacterium tuberculosis complex from different biological samples using naked eye, comprising DNA extraction, DNA amplification and DNA visualization.



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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-20
(22) Filed: 21/01/2024

(23) Priority Data:
United States of America, Number :63482875, Date : 02-02-2023.

(71) Applicant: Crystal Lagoons Technologies, Inc. of 1395 Brickell Avenue, Suite 800, Miami, FL 33131, Nationality -United States of America

(72) Inventors: (0) FISCHMANN, Fernando of 1395 Brickell Avenue, Suite 800, Miami, FL 33131, United States of America Nationality -Chile

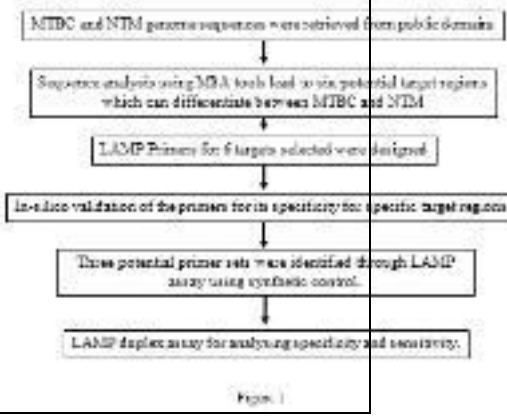
(74) Agent : MUNSHI & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : B01D 21/00

(54) Invention Title: METHOD FOR CREATING GEOMETRIC FRESHWATER SANITARY AREAS WITHIN LARGE WATER BODIES

(57) Abstract

The present invention discloses a system for creating geometric freshwater sanitary areas within large water bodies.



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-21
(22) Filed: 24/01/2024

(23) Priority Data:
Italy, Number :2023000001539, Date : 01-02-2023.

(71) Applicant: LONATI S.P.A of Via Francesco Lonati, 3 25124 Brescia, Nationality -Italy

(72) Inventors: (0) Ettore LONATI of Via Sott'acqua, 32 – 25082 BOTTICINO, Italy Nationality -Italy, (1) Fausto LONATI of Via Mediana, 12 – 25123 BRESCIA, Italy Nationality -Italy, (2) Francesco LONATI of Via San Giovanni, 23 – 25010 SAN FELICE DEL BENACO, Italy Nationality -Italy

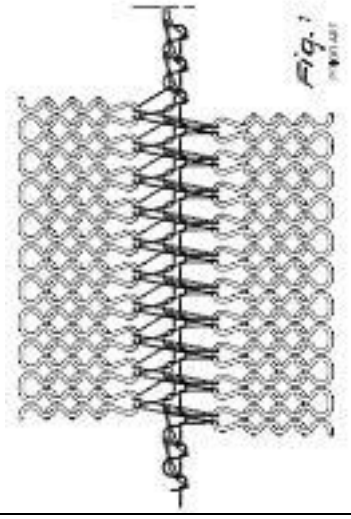
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : D05B 7/00

(54) Invention Title: LINKING METHOD, PARTICULARLY FOR CLOSING AN AXIAL END OF A TUBULAR MANUFACTURE

(57) Abstract

A linking method, particularly for closing an axial end of a tubular manufacture, comprising a step of holding loops of knitting (10) to be linked which comprise a first plurality of loops of knitting (11) formed at the last course of knitting (21) and a second plurality of loops of knitting (12) formed at a course of knitting other than the last course of knitting (21), a step of linking that consists in joining, in each instance, by means of at least one sewing thread (30), two loops of knitting (10) to be linked.



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-22
(22) Filed: 24/01/2024

(23) Priority Data:
China, Number :2023103680449, Date : 08-04-2023.

(71) Applicant: Xingyi Wen of No. 8, Group 6, Dazhai Village, Nangao Township, Danzhai County, Guizhou, Nationality -China

(72) Inventors:

(51) INT. CL. : E02D 29/09

(54) Invention Title: METHOD FOR CONSTRUCTING BUSINESS MANAGEMENT MODEL

(57) Abstract

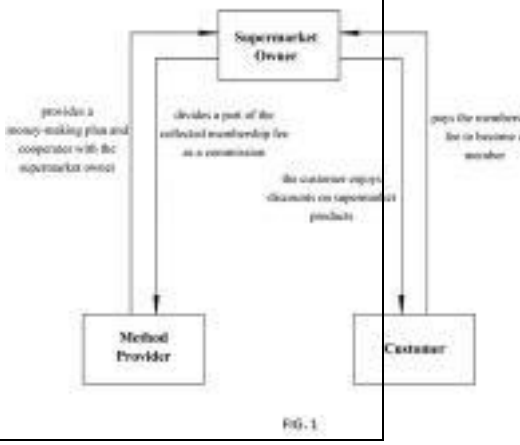

FIG. 1

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-25
(22) Filed: 25/01/2024

(23) Priority Data:
United Kingdom, Number :23011687, Date : 27-01-2023.

(71) Applicant: Nicoventures Trading Limited of Globe House, 1 Water Street, London WC2R 3LA, Nationality - United Kingdom

(72) Inventors: (0) Howard Rothwell of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -United Kingdom

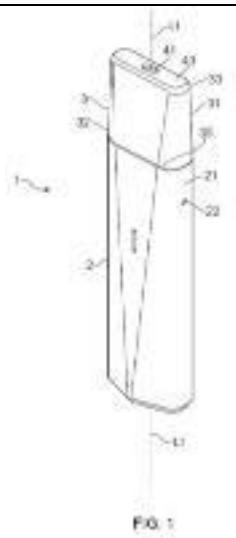
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : F04B 39/14

(54) Invention Title: AEROSOL PROVISION SYSTEM, HEATER ASSEMBLY AND METHOD

(57) Abstract

Described is an aerosol provision system, the aerosol provision system including an aerosol-generating material storage portion for storing aerosol-generating material, a heater assembly, where the heater assembly includes a substrate; a heater layer configured to generate heat when supplied with energy, the heater layer provided on a first surface of the substrate; and one or more capillary tubes extending from another surface of the substrate through the heater layer provided at the first surface of the substrate; and a heat-sink layer. The heater assembly is arranged such that at least the another surface is in fluid communication with the aerosol-generating material storage portion. The heat-sink layer extends across at least a part of the another surface of the substrate and is configured to allow aerosol-generating material to pass through the heat-sink layer to the one or more capillary tubes of the heater assembly. The heat-sink layer is configured to absorb heat energy generated by the heater layer and transmitted through the substrate and distribute the absorbed heat energy through the heat-sink layer. Also described is a heater assembly and a method for manufacturing a heater assembly and heat-sink layer.



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-26
(22) Filed: 25/01/2024

(23) Priority Data:
United Kingdom, Number :23011695, Date : 27-01-2023.

(71) Applicant: Nicoventures Trading Limited of Globe House, 1 Water Street, London WC2R 3LA, Nationality - United Kingdom

(72) Inventors: (0) Howard Rothwell of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -United Kingdom

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : F24H 4/04

(54) Invention Title: HEATER ASSEMBLY AND METHOD

(57) Abstract

Described is a heater assembly for an aerosol provision system, the heater assembly including: a substrate, having a first end and a second end; a heater layer configured to generate heat when supplied with energy, the heater layer provided on a first surface of the substrate; and one or more capillary tubes extending from a second surface of the substrate through the heater layer provided at the first surface of the substrate, the second surface opposite the first surface. The substrate is arranged such that at least a part of at least one of the first surface and second surface of the substrate is curved along a curved path defined between the first end and the second end of the substrate. Also described is an aerosol provision system comprising the heater assembly and a method for manufacturing a heater assembly.

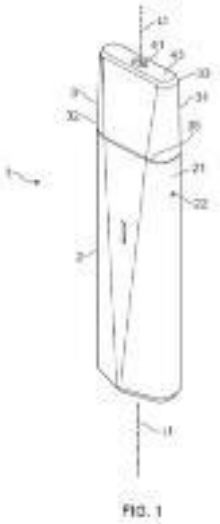
FIG. 1

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-29
(22) Filed: 30/01/2024

(23) Priority Data:
Finland, Number :20235134, Date : 09-02-2023.

(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland

(72) Inventors: (0) Matha DEGHEL of 5 rue Radiguey, Montrouge, 92120, France Nationality -France, (1) Keeth Saliya Jayasinghe LADDU of Antreantie 22 C, Espoo, 02140, Finland Nationality -Sri Lanka

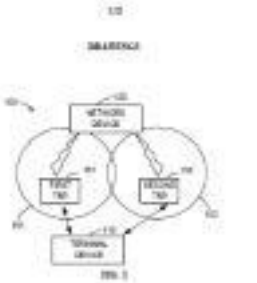
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

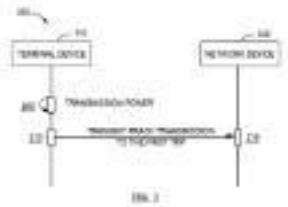
(51) INT. CL. : H05B 7/148

(54) Invention Title: POWER CONTROL FOR MULTI-TRP

(57) Abstract

Example embodiments of the present disclosure relate to power control for multi-TRP. A terminal devicedetermines a transmission power corresponding to a first transmission reception point, TRP, for a physical random access channel, PRACH, transmission to the first TRP. The PRACH transmission is triggered via a physical downlink control channel, PDCCH, order from a second TRP to the terminal device. The terminal device transmits the PRACH transmission to the first TRP using the transmission power.





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India, Number :202341006591, Date : 01-02-2023.

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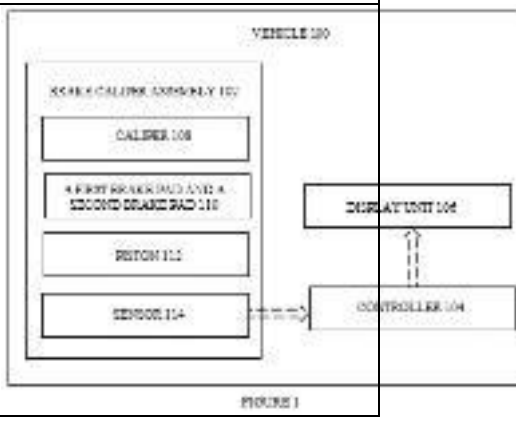
(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : F16D 55/225

(54) Invention Title: PREDICTING BRAKE PAD WEAR

(57) Abstract

A vehicle (100), a brake caliper assembly (102), and a method (400) for prediction of wear in a brake pad. The vehicle (100) includes a display unit (106), a controller and a brake caliper assembly (102). The brake caliper assembly (102) includes a caliper (108), a first brake pad (200) and a second brake pad (202), where the first brake pad (200) and the second brake pad (202) is mounted to the caliper (108), and is movable with respect to the caliper (108). The brake caliper assembly (102) has a piston (112) movably disposed in the caliper (108) and operably coupled to at least one of the first brake pad (200) and the second brake pad (202). At least one sensor (114) of the brake caliper assembly (102) is mounted on the caliper (108) to sense the movement of the piston (112).



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(22) Filed: 01/02/2024

(23) Priority Data:
Japan, Number :2023016425, Date : 06-02-2023.

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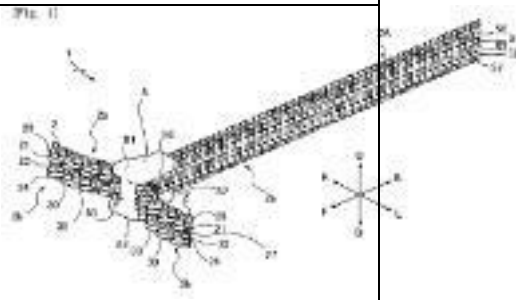
(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : B21D 53/50

(54) Invention Title: FASTENING PART, SLIDE FASTENER, AND METHOD OF PRODUCING FASTENING-PART-ATTACHED GROUND FABRIC.

(57) Abstract

Fastening part (2,2') is attachable to an edge portion (91) of an article (9) directly or via an intervening member. The fastening part (2,2') includes: an attachment surface (2a) disposed on one side in a thickness direction of the fastening part (2,2'), the thickness direction being orthogonal to an elongation direction of the fastening part (2,2'); and an engagement structure (2b) disposed on an opposite side of the attachment surface (2a) in the thickness direction of the fastening part (2,2'). The engagement structure (2b) includes one or more lines (21-24) of engagement elements including engagement elements (30) arranged along the elongation direction of the fastening part (2,2'). Each engagement element (30) being provided to stand on the opposite side of the attachment surface (2a).



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(22) Filed: 04/02/2024

(23) Priority Data:
United States of America, Number :63445945, Date : 15-02-2023.

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(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : H04L 5/00

(54) Invention Title: CARRIER AGGREGATION BASED DOWNLINK POSITIONING FOR OUTSIDE OF A MEASUREMENT GAP

(57) Abstract
Carrier aggregation-based downlinkpositioning for outside of a measurement gapis provided.A method for carrier aggregation-based downlinkpositioning may includereceiving, from a location management function, a request to report positioning measurement reporting by carrier aggregation across a plurality of positioning frequency layers. The method may also include transmitting, to the location management function according to provided rules, a positioning measurement report indicating at least one of the plurality of positioning frequency layers that the apparatus successfully measures or failed to measure

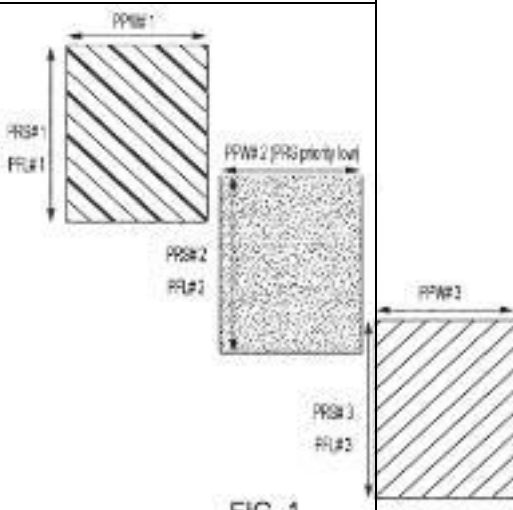

FIG. 1

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(22) Filed: 06/02/2024

(23) Priority Data:
Japan, Number :2023016535, Date : 26-04-2023.

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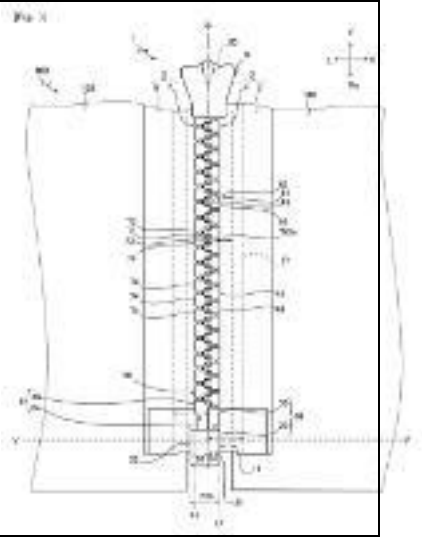
(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : B60R 21/2338

(54) Invention Title: METHOD OF SEWING FASTENER STRINGER TO FABRIC, ARTICLE AND SLIDE FASTENER

(57) Abstract

Fastener tape (3) and fabric (101) are sewn along a second imaginary line (G2) that is parallel to a first imaginary line (G1) established by direct contact between two or more fastener elements (4) and a presser foot (200). The fastener tape (3) and the fabric (101) are sewn along a fourth imaginary line (G4) that is parallel to a third imaginary line (G3) established by direct contact between a plastic member (10) and a presser foot (200). The plastic member (10) has a guiding surface (11) with which the presser foot (200) comes into contact such that the first and third imaginary lines (G1,G3) extend collinearly so as to form one guiding line (L1) and the second and fourth imaginary lines (G2,G4) extend collinearly so as to form one projected sewing line (F2).



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(21) Appl. No. BD-P-2024-35
(22) Filed: 06/02/2024

(23) Priority Data:
China, Number :2023075398, Date : 10-02-2023.

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(74) Agent : REMFRY & SON LIMITED , {app_representative_address}, Bangladesh

(51) INT. CL. : H04W 64/00

(54) Invention Title: MITIGATION OF POSITIONING MEASUREMENT IMPACT ON RLF PROCEDURE.

(57) Abstract

Example embodiments of the present disclosure relate to apparatuses, methods, and computer readable storage medium for mitigation of positioning measurement impact on a radio link failure (RLF) procedure. In a method, an apparatus performs a RLF process and performs a positioning measurement process. At least one of the RLF process or the positioning measurement process is adjusted to mitigate collision between the processes.

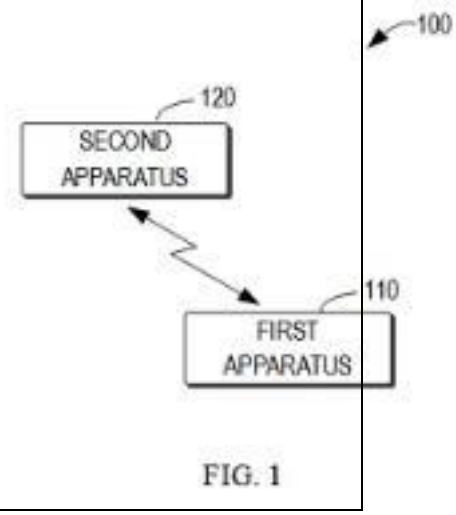

FIG. 1

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(21) Appl. No. BD-P-2024-36
(22) Filed: 06/02/2024

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Finland, Number :20235125, Date : 08-02-2023.

(71) Applicant: Spinnova Oyj of Palokärjentie 2-4, 40320 Jyväskylä, Nationality -Finland

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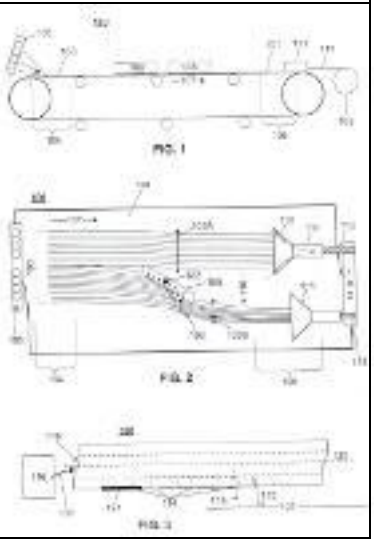
(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : B65D 5/42

(54) Invention Title: AN ARRANGEMENT FOR ARRANGING NUMBER OF FILAMENTS TO A BUNDLE AND A METHOD THEREOF.

(57) Abstract

An arrangement (100) for arranging number of filaments (103) transferred by a transferring device (101) to at least two separate subsets of said filaments comprises at least one fluid flow providing device (108) for providing fluid flow (109) towards at least one portion of the filaments (103) transferred by a transferring device (101), thereby deflecting a path of said portion of the filaments in a second direction (110) differing from a first direction (107) said filaments being transferred by said transferring device (101). The filaments are thus separated to at least two filament subsets (103A, 103B) of the filaments. The filament subsets may then be arranged to at least two separate and advantageously separately reopenable bundles (113).



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(22) Filed: 06/02/2024

(23) Priority Data:
Finland, Number :20235124, Date : 08-02-2023.

(71) Applicant: Spinnova Oyj of Palokärjentie 2-4, 40320 Jyväskylä, Nationality -Finland

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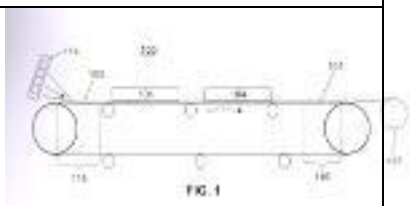
(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

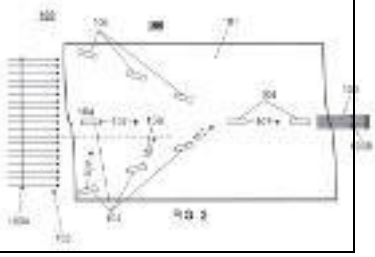
(51) INT. CL. : B64C 3/14

(54) Invention Title: AN ARRANGEMENT FOR CONTROLLING A PATH OF A MATERIAL DURING TRANSFERRING AND A METHOD THEREOF.

(57) Abstract

An arrangement (100) for controlling a path (102) of material, such as filaments (103) comprisesat least one fluid flow providing device (104). The one fluid flow providing device (104) comprises an input (105) for receiving pre-fluid flow, and an output (106) for providing and focusing a high-speed fluid flow (107) towards the material (103) during the transportation of the material. The speed of the high-speed fluid flow (107) is higher than a transferring speed of the material (103), whereupon a velocity gradient of the high-speed fluid flow (107) induces a force (109), which drags the material (103) towards a maximum of said velocity gradient and thereby change the path (102) of the material (103).





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(71) Applicant: Bajaj Auto Limited of Mumbai-Pune Road, Akurdi, Pune, 411035, India

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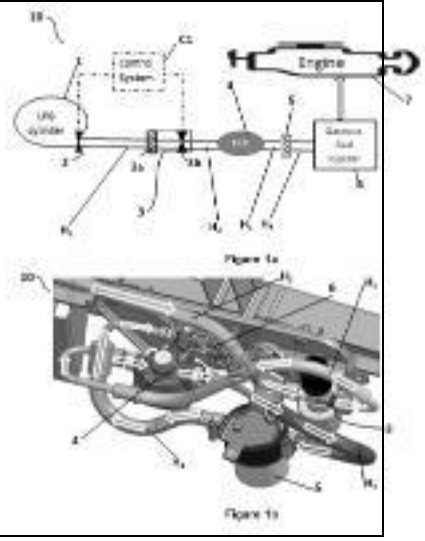
(74) Agent : ISLAM & CO., {app_representative_address}, Bangladesh

(51) INT. CL. : F02M 21/02

(54) Invention Title: A FUEL SUPPLY SYSTEM WITH AN INTEGRATED DEVICE AND METHOD THEREOF FOR AN AUTOMOTIVE VEHICLE

(57) Abstract

A fuel supply system (100) is disclosed for an automotive vehicle, including a storage cylinder (101) to store gaseous fuel; an electronic gate valve (102) to control and supply gaseous fuel from the storage cylinder(101); and an integrated device (103) to control and supply the gaseous fuel to an engine (106) of the automotive vehicle. The integrated device (103) includes a primary filter (103a), a pressure reducer (103b) and an integrated electronic gate valve (103c) in single fabrication, making the fuel supply system (100) compact, clean and simple, by reducing requirement of hoses and additional brackets for mounting. Further, the assembly, dismantling, as well as servicing of the primary filter (103a), and the pressure reducer (103b) of the integrated device (103) becomes easy. The integrated device (103) reduces fuel flooding and improves cold-start of the automotive vehicle.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-40
(22) Filed: 08/02/2024

(23) Priority Data:

(71) Applicant: Md. Akram Hossain, Lecturer of Department of Food Processing and Preservation (FPP), Hajee Mohammed Danesh Science and Technology University, Dinajpur, Nationality -Bangladesh, Dr. Md. Amdadul Haque, Professor of Department of Agro-processing, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur, Nationality -Bangladesh

(72) Inventors: (0) Dr. Md. Amdadul Haque, Professor of Department of Agro-processing, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur, Bangladesh Nationality -Bangladesh, (1) Md. Akram Hossain, Lecturer of Department of Food Processing and Preservation (FPP), Hajee Mohammed Danesh Science and Technology University, Dinajpur, Bangladesh Nationality -Bangladesh

(51) INT. CL. : A23L 25/00

(54) Invention Title: Preparation of Jackfruit Seed Mineral Concentrate

(57) Abstract
The innovative chemical process introduced by the invention aims to extract food minerals from plant sources naturally abundant in minerals, addressing micronutrient deficiencies, particularly in regions like Bangladesh. The process was specifically tested using jackfruit seed flour. Initially, it separates protein from JFS flour through alkaline protein extraction. Subsequently, the remaining starchy portion undergoes unit operations like filtration and spray drying to achieve a concentrated mineral form. The process demonstrates a remarkable concentration capability, with minerals from JFS flour being concentrated nearly 10 times. This effectiveness is evident in the comparison of ash content, where JFS flour had 2.10%, and the concentrated mineral reached 33.45%. With the applicability in food fortification and sustainability benefits, this invention holds significant potential for being used in the food and allied industries. As a case study, a food item cake was successfully enriched with mineral using the prepared mineral concentrate.

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(22) Filed: 11/02/2024

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China, Number :2023076219, Date : 15-02-2023.

(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland

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(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : H04N 5/60

(54) Invention Title: BANDWIDTH PART FREE SOUNDING REFERENCE SIGNAL FOR POSITIONING FREQUENCY HOPPING

(57) Abstract

The disclosure includes an apparatus, having:means for receiving, from a network entity, configuration information to indicate a window which is bandwidth-part free; and means for transmitting, to the network entity, a sounding reference signal in frequency hopping within the indicated window. The disclosure also includes a method which may include receive, from a network entity, configuration information to indicate a window which is bandwidth-part free. The method may also include transmitting, to the network entity, a sounding reference signal in frequency hopping within the indicated window.

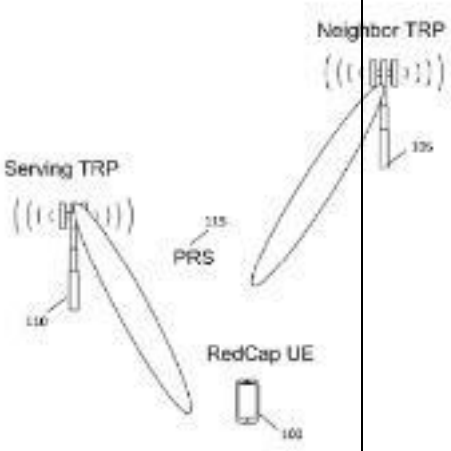

FIG. 1

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পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-42
(22) Filed: 11/02/2024

(23) Priority Data:
Finland, Number :20235152, Date : 14-02-2023.

(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland

(72) Inventors: (0) Keeth Saliya Jayasinghe LADDU of Antreantie 22 C, Espoo, 02140, Finland Nationality -Sri Lanka, (1) Matha DEGHEL of 5 rue Radiguey, Montrouge, 92120, France Nationality -France

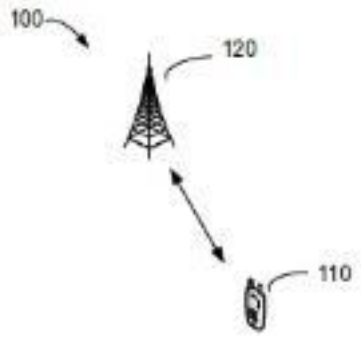
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : H03G 11/08

(54) Invention Title: LIMITED BUFFER RATE MATCHING CALCULATION

(57) Abstract

Embodiments of the present disclosure relate to devices, methods, apparatuses and computer readable storage media of limited buffer rate matching (LBRM) calculation for simultaneous multi-panel transmission. The method comprises: receiving, by a terminal device and from a network device, one or more maximum rank values for at least one BWP of one or more serving cells of the terminal device, wherein the one or more maximum rank values are associated with one or more PUSCH transmission schemes;determining, by the terminal device,based at least on the one or more maximum rank values, a maximum number of layers for LBRM; anddetermining, by the terminal device, a TBS for LBRM using the maximum number of layers.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-43
(22) Filed: 11/02/2024

(23) Priority Data:
United Kingdom, Number :23045222, Date : 28-03-2023. and United Kingdom, Number :23123417, Date : 11-08-2023.

(71) Applicant: Harwich Haven Authority of Navigation House, Angel Gate, Harwich, Essex, CO12 3EJ, Nationality - United Kingdom

(72) Inventors: (0) Jeremy David WARNER of c/o Harwich Haven Authority, Navigation House, Angel Gate, Harwich, Essex, CO12 3EJ, United Kingdom Nationality -United Kingdom

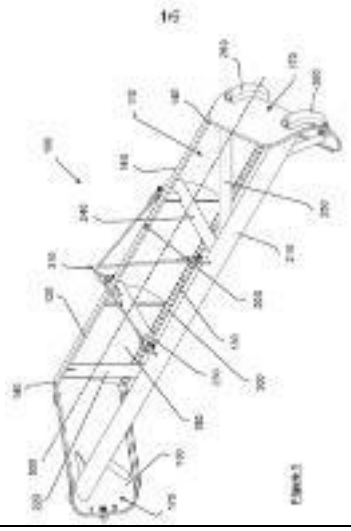
(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : E02F 5/10

(54) Invention Title: PLOUGH APPARATUS AND METHOD

(57) Abstract

Plough apparatus for use underwater to displace sediment above a waterbed. The plough apparatus 100 comprises an elongate blade 110 comprising a concave leading face 150 to contain and move sediment and a connector 310 at a highermost point on the plough apparatus 100 for attachment to a vehicle for suspending the plough apparatus 100 underwater. The plough apparatus 100 further comprises a pair of plough wings 170 which extend forwardly from side edges 140 of the elongate blade 110 at an angle between coaxial and perpendicular with respect to the leading face 150. The method comprises suspending the plough apparatus 100 from a vehicle, moving the plough to contain sediment and drawing the sediment into an area of water whereby the sediment may be washed away by the natural movement of the water.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-44
(22) Filed: 11/02/2024

(23) Priority Data:
India, Number :202341010212, Date : 15-02-2023.

(71) Applicant: TVS Motor Company Limited of Chaitanya, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, Nationality -India

(72) Inventors: (0) KUMAR SURENDIRAN of TVS Motor Company Limited, Chaitanya, No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai - 600 006, Tamil Nadu, India Nationality -India, (1) SORNAPPAN BANU SHARMANATH of TVS Motor Company Limited, Chaitanya, No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai - 600 006, Tamil Nadu, India Nationality -India

(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : B60K 6/40

(54) Invention Title: ELECTRICAL COMPONENTS ASSEMBLY FOR A VEHICLE

(57) Abstract

The present subject matter relates to an electrical component assembly (200) for a vehicle (100). The electrical components assembly (200) comprises electrical components (201) and a support member (300). The support member (300) is configured to support the electrical components (201). The support member (300) is mounted on a rear frame member (400R) of a frame assembly (400) of the vehicle (100). The rear frame member (400R) is extended in a lateral direction of the vehicle (100). The rear frame member (400R) is attached to a portion of the frame assembly (400).

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-45
(22) Filed: 12/02/2024

(23) Priority Data:
Finland, Number :20235176, Date : 16-02-2023.

(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland

(72) Inventors: (0) Timo KOSKELA of Suojuoksuntie 2 B 7, Oulu, 90670, Finland Nationality -Finland, (1) Sami-Jukka HAKOLA of Peikontie 7, Kempele, 90450, Finland Nationality -Finland, (2) Juha Pekka KARJALAINEN of Sapsoperäntie 55B, Sotkamo, 88600, Finland Nationality -Finland

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : H04W 74/00

(54) Invention Title: METHODS AND DEVICES FORTIMING ADVANCE

(57) Abstract

Embodiments of the present disclosure relate to methods and apparatus fortiming advance (TA) in a radio access network, in particular, through random access preamble transmission for TA maintenance. A terminal device receives, from a network device, a transmission mode configuration which indicates to the terminal device a transmission mode of a random access preamble. The transmission mode comprises a periodical mode or a one-shot mode. The terminal device transmits, to a targetnetwork device, the random access preamble based on the transmission mode. In this way, the terminal device can transmit the random access preamble based on the indicated transmission mode, thereby avoiding unnecessary transmissions of the random access preamble forTA maintenance.

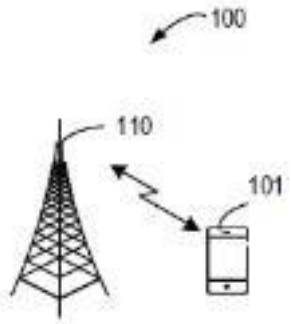

Fig. 1

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-48
(22) Filed: 15/02/2024

(23) Priority Data:
United States of America, Number :63485011, Date : 15-02-2023.

(71) Applicant: Telefonaktiebolaget LM Ericsson (publ) of SE-164 83 Stockholm, Nationality -Sweden

(72) Inventors: (0) Luca Lunardi of Via Lanfranconi 1, IT-16121 GENOVA, Italy Nationality -Italy, (1) Ali Parichehrehteroujeni of Tegskiftesgatan 39, SE-583 34 LINKÖPING, Sweden Nationality -Iran (Islamic Republic of), (2) Johan Rune of Terrängvägen 12, SE-181 29 LIDINGÖ, Sweden Nationality -Sweden, (3) Angelo Centonza of Calle Mariem 4c, 18008 GRANADA, Spain Nationality -Italy, (4) Reem Karaki of Schagenstrasse 184, DE-52078 AACHEN, Germany Nationality -Lebanon

(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : H04L 47/265

(54) Invention Title: Network nodes and methods performed therein

(57) Abstract

Embodiments herein may relate to a method performed by afirst network node (12) for handling communication in a communication network. The first network node (12) obtains a request indication for providing information associated with a LBT procedure carried out by the first network node (12) for a HO of one or more UE. The first network node (12) then sends to a second network node (13), information related to LBT procedure carried out by the first network node (12) for a HO of a UE between one or more network nodes and one or more cells of the first network node (12) operating in a shared spectrum.

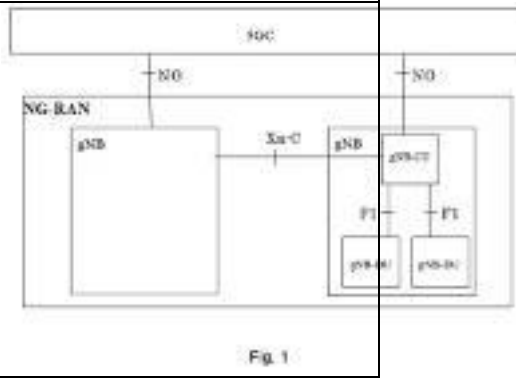

Fig. 1

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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date , **(21) Appl. No.** BD-P-2024-49 **(22) Filed:** 15/02/2024
(23) Priority Data: European Patent Office (EPO), Number :23157311, Date : 17-02-2023.
(71) Applicant: Huntsman Textile Effects (Switzerland) GmbH of Klybeckstr.200, 4057 Basel, Nationality - Switzerland
(72) Inventors: (0) Ralf Petermann of St. Johanns-Ring 34 CH-4056 Basel, Switzerland Nationality -Germany, (1) Urs Lauk of Mainzerstr. 13 DE-80804 München, Germany Nationality -Switzerland, (2) Simon Pfister of Im Thal 13 CH-4145 Gempen, Switzerland Nationality -Switzerland, (3) Patric Nowack of Neuteichstrasse. 17 DE-79585 Steinen, Germany Nationality -Germany, (4) Murer Kevin of Richenmattweg 5 CH-4107 Ettingen, Switzerland Nationality -Switzerland, (5) Romeo Dreier of Schwilochstrasse. 200 CH-4232 Fehren, Switzerland Nationality -Switzerland, (6) Anton Andreoli of Rosenweg 3 CH-4452 Itingen, Switzerland Nationality -Switzerland, (7) Kaja Dorota Sitkowska of Spitzwaldstrasse 211 CH-4123 Allschwil, Switzerland Nationality -Poland
(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh
(51) INT. CL. : C09B 29/08
(54) Invention Title: NEW CLASS OF DISPERSE AZO DYES, A PROCESS FOR THE PREPARATION THEREOF AND THE USE THEREOF.
(57) Abstract The instant invention relates to azo dye of formula (1) (1), to dye mixtures comprising said azo dye, to a process for preparing said azo dyes, to specific uses of said azo dyes and tosemi-synthetic or synthetic hydrophobic fiber material, dyed or printed by said azo dyes or said dye mixtures.

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date , **(21) Appl. No.** BD-P-2024-50 **(22) Filed:** 15/02/2024
(23) Priority Data:
(71) Applicant: K. M. Zahidur Rahman of House # 120, Flat # D1, Road # 05, Blcok # C, Kamarpara, P.S- Turag, Dhaka-1230, Nationality -Bangladesh
(72) Inventors: (0) K. M. Zahidur Rahman of House # 120, Flat # D1, Road # 05, Blcok # C, Kamarpara, P.S- Turag, Dhaka-1230, Bangladesh Nationality -Bangladesh
(51) INT. CL. : D06P 1/22
(54) Invention Title: Sustainable Denim Lean Washing Recipe Technology (SDLWRT) compared to the Conventional denim washing recipe method/technology, including the SDLWRT analysis tool.
(57) Abstract The Sustainable Denim Lean Washing Recipe Technology (SDLWRT), developed by denim washing technologist & Inventor – Mr. K. M. Zahidur Rahman, presents a pioneering approach to revolutionize denim washing practices. SDLWRT aims to minimize environmental impact and production costs while maintaining high-quality aesthetic outcomes in denim garments. By optimizing washing processes and reducing resource consumption, SDLWRT offers significant savings in water, chemicals, energy, steam, and time compared to conventional methods. Thirdparty audits & internal SDLWRT analyzing - assessment tool validate its effectiveness, showcasing substantial environmental and economic benefits. Moreover, SDLWRT prioritizes worker safety by eliminating hazardous chemicals like PP spray. This innovative technology not only enhances sustainability in denim manufacturing but also positions brands as leaders in environmental stewardship and innovation. SDLWRT represents a paradigm shift towards a more sustainable and efficient future for the denim industry.

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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-51
(22) Filed: 19/02/2024

(23) Priority Data:
Japan, Number :2023007029, Date : 27-02-2023.

(71) Applicant: YKK CORPORATION of 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642 , Nationality -Japan

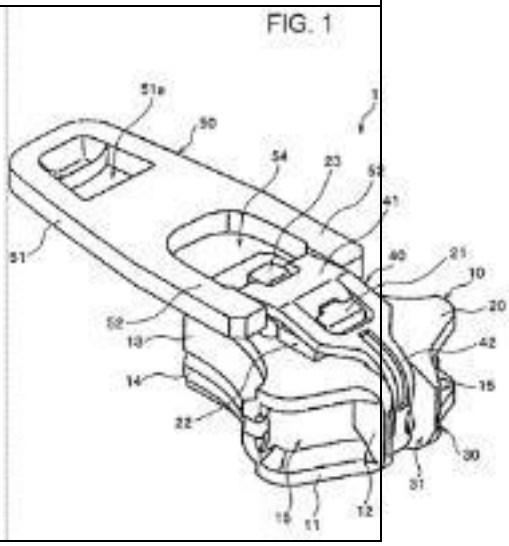
(72) Inventors: (0) YOSHITA, Ryosuke of C/o YKK Corporation Kurobe., 200, Yoshida, Kurobe-shi, Toyama 9388601, Japan Nationality -Japan, (1) YAMAGATA, Masamichi of c/o YKK Corporation Kurobe., 200, Yoshida, Kurobe-shi, Toyama 9388601, Japan Nationality -Japan, (2) HASEGAWA, Itaru of c/o YKK Corporation Kurobe., 200, Yoshida, Kurobe-shi, Toyama 9388601 , Japan Nationality -Japan, (3) KUMEI, Takanori of c/o YKK Corporation Kurobe., 200, Yoshida, Kurobe-shi, Toyama 9388601 , Japan Nationality -Japan, (4) KATSUMI, Tetsuya of c/o YKK Corporation Kurobe., 200, Yoshida, Kurobe-shi, Toyama 9388601, Japan Nationality -Japan, (5) KOIZUMI, Takuya of c/o YKK Corporation Kurobe., 200, Yoshida, Kurobe-shi, Toyama 9388601, Japan Nationality -Japan

(74) Agent : Rahman IP Solutions, {app_representative_address}, Bangladesh

(51) INT. CL. : A44B 19/30

(54) Invention Title: SLIDER

(57) Abstract
A slider (1, 2) of the present invention includes a slider body (10, 70), an elastic member (40, 100), and a pull (50, 110), the slider body (10, 70) is made of an aluminum alloy that has a composition represented by a general expression: AlaMgbMncCrd (a, b, c, and d are in mass%, a is a remainder, $3.9 \leq b \leq 6.5$, $0 < c \leq 0.4$, $0 < d \leq 0.3$, an unavoidable impurity element may be contained) or a general expression: AleMgfSigCuhCri (e, f, g, h, and i are in mass%, e is a remainder, $0.8 \leq f \leq 2.0$, $0.4 \leq g \leq 0.9$, $0.15 \leq h \leq 0.8$, $0 < i \leq 0.45$, an unavoidable impurity element may be contained), a member accommodation portion (30, 90) including an insertion concave groove portion (31, 91) is provided at a coupling column (12, 72) of the slider body (10, 70), and the average Vickers hardness of the coupling column (12, 72) is higher than or equal to 100 Hv. Consequently, it is possible to cause the slider body (10, 70) not to be deformed to become unusable, even when a sliding operation of the slider is repeated.



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-52
(22) Filed: 20/02/2024

(23) Priority Data:
Pakistan, Number :1142023, Date : 22-02-2023.

(71) Applicant: Afzaal Mustafa of Resident of House No. 2 Street No. 39, F-8/1, Islamabad, Nationality -Pakistan

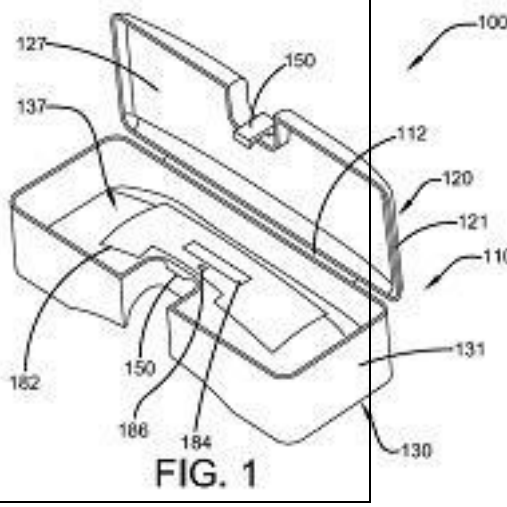
(72) Inventors:

(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : E21C 37/10

(54) Invention Title: MULTI-PURPOSE GLASSES CASE DEVICE.

(57) Abstract
A multi-purpose glasses case device is provided.The device is used for securely storing and accessing personal items like eyeglasses. This device is composed of two halves connected by a hinge, wherein each half is comprised of a sidewall forming an interior space with various fasteners and storage areas. The device also incorporates a customizable decorative cap that can attach to either half and may include additional functionalities like a battery bank or a charger. The cap and both halves can be adorned with decorative elements and have attachment points for easy carrying. Additionally, the device may include a phone receiving structure that can display a phone in various positions and may include charging capabilities.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-53
(22) Filed: 22/02/2024

(23) Priority Data:

(71) Applicant: Li Xingbing of No.13, Group 3, Dongbao Village, Motou Town, Rugao City, Jiangsu Province, Nationality -China

(72) Inventors: (0) Li Xingbing of No.13, Group 3, Dongbao Village, Motou Town, Rugao City, Jiangsu Province, China Nationality -China

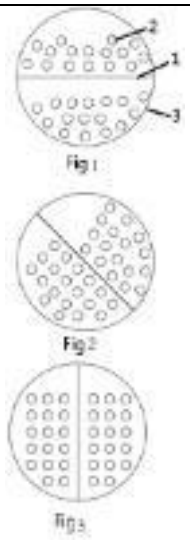
(74) Agent : Advanced IP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : B24B 11/02

(54) Invention Title: A Multi Chamber and Multi-stage Grinding ball mill

(57) Abstract

The present invention belongs to the field of ball mill design and manufacturing, and specifically relates to a novel energy-saving grinding material treatment process ball mill design. A multi chamber and multi stage grinding ball mill is disclosed, which mainly includes a frame, multiple drum groups with separated compartments, feeding and discharging ports, rotating steel rings and supporting wheels, gear transmission steel rings, and/or supporting rotating shafts and bearing seats, and transmission devices. Mainly through the combination of at least two or more individual two compartment cylinders, and the connection of each individual compartment cylinder is arranged in a regular distribution according to a 360 degree circumferential division, that is, in the same rotation direction, the projection of all partition plates along the centerline of the drum rotation axis overlaps concentrically and evenly divides the circumference, eliminating as much as possible the deviation of the gravity center of the ball mill from the upward direction of rotation, so that the weight on both sides of the center of the ball mill is almost equal, It can save electricity, efficiently and quickly grind, efficiently dry grind and wet grind, as well as feed and grind 500 tons and 1000 tons of ultra large tonnage, providing a



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-54
(22) Filed: 25/02/2024

(23) Priority Data:

(71) Applicant: Li Xingbing of No.13, Group 3, Dongbao Village, Motou Town, Rugao City, Jiangsu Province, Nationality -China

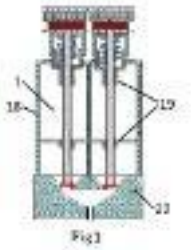
(72) Inventors:

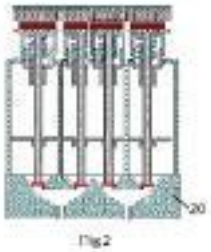
(74) Agent : Advanced IP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : E01C 19/16

(54) Invention Title: A digital control device for color changing slurry liquid spray printing

(57) Abstract
The present invention belongs to the field of production technology for ceramic wall and floor tiles, and specifically relates to a digital and intelligent equipment for spraying glaze and slurry with multiple color combinations. A digital color changing liquid spray printing device of the present invention, mainly comprising a fixed frame, a storage hopper for storing sprayed ceramic slurry, multiple sets of unit orifice plates for spraying slurry at the bottom of the storage hopper, a top collision needle device for controlling the opening and closing of the spraying slurry unit hole, and a top collision needle lifting device, integrated circuit control panel, etc., characterized in that the storage hopper has at least 2 slurry slots, The unit hole of the injection slurry unit orifice plate at the bottom of the storage hopper has a multi pass hole structure, at least a three-way hole structure.





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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-55
(22) Filed: 25/02/2024

(23) Priority Data:

(71) Applicant: Li Xingbing of No.13, Group 3, Dongbao Village, Motou Town, Rugao City, Jiangsu Province, Nationality -China

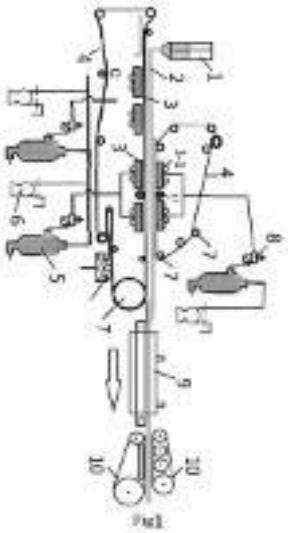
(72) Inventors:

(74) Agent : Advanced IP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : F27D 1/06

(54) Invention Title: A wet production process and equipment design scheme for brick billets without granulation process

(57) Abstract
The invention belongs to the technical field of ceramic wall and floor tile production, and in particular relates to a process and equipment design scheme for directly producing ceramic brick blanks without dry granulation and wet granulation processes, which is particularly suitable for the design scheme of direct and efficient wet low-carbon production of ceramic rock slabs with whole texture. The invention relates to a wet production process and equipment design scheme of a green brick without granulation process, which is characterized in that the equipment mainly comprises a digital slurry jet printing device, a suction filter, an extrusion filter press device, a drying kiln device, a high-pressure press and a device for interconnecting and conveying the equipment, and the process flow scheme of the equipment device is that high-concentration ceramic slurry is spray-molded through a digital ceramic slurry jet printing device, Then it is quickly dewatered into a wet brick with a water content of 8%-18% by suction filtration, extrusion filter pressing and punching filter press devices, and then the wet brick is dried and dried to make the wet brick become a brick with a homogenized humidity of 6-13%, and then it is further pressed into a more compact brick by high pressure.



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(21) Appl. No. BD-P-2024-56
(22) Filed: 25/02/2024

(23) Priority Data:
United States of America, Number :63448197, Date : 24-02-2023.

(71) Applicant: Telefonaktiebolaget LM Ericsson (publ) of SE-164 83 Stockholm, Nationality -Sweden

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(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : H04W 24/10

(54) Invention Title: REPORTING ERROR GROUP CONSISTENCY FOR JOINT CARRIER PHASE MEASUREMENT REPORTING

(57) Abstract

A communication device can measure (520) a downlink, DL, reference signal time difference, RSTD, and a corresponding DL carrier phase measurement on a DL positioning reference signal, PRS, received from the first network node. The communication device further transmits (570) a joint report to second network node, the joint reporting including at least one of: 1) an indication of the DL RSTD and the corresponding DL carrier phase measurement andan indication of an error group identifier for the DL RSTD and the corresponding DL carrier phase measurement; and 2) an indication of a reference time and a reference phase corresponding to a third network node andan indication of an error group identifier of the reference time and the reference phase.

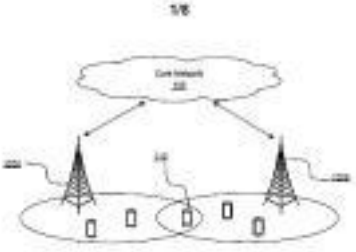

FIG. 1

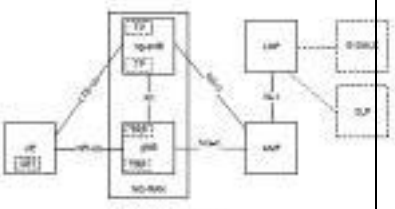

FIG. 2

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-57
(22) Filed: 27/02/2024

(23) Priority Data:
Russian Federation, Number :2023105130, Date : 06-03-2023.

(71) Applicant: BIOCAD of 198515, Saint Petersburg, vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89, Nationality -Russian Federation

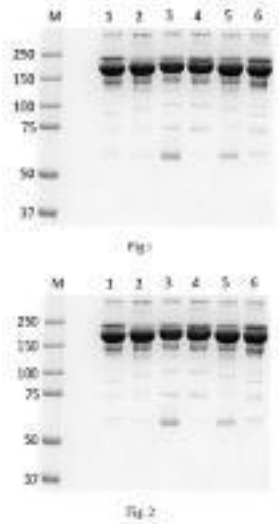
(72) Inventors: (0) Poliakov Dmitrii Nikolaevich of 198510 Saint-Petersburg, Petrodvorcovyi r-n, g. Petergof, ul. Parkovaya, d.14, korp.5, str. 1, kv. 104, Russian Federation Nationality -Russian Federation, (1) Legotskii Sergei Aleksandrovich of 111675, Moscow, ul. Tatyany Makarovoj, d. 6, kv.140, Russian Federation Nationality -Russian Federation, (2) Danilov Maksim Andreevich of 198516, Saint-Petersburg, g. Petergof, bulvar Razvedchika, d.2, korp.2, kv.77, Russian Federation Nationality -Russian Federation, (3) Baranovskaia Marianna Dmitrievna of 198510 g. Sankt-Peterburg, Saint-Petersburg, g. Petergof, ul. Parkovaya, d.14, korp.5, str.1, kv.103, Russian Federation Nationality -Russian Federation, (4) Ivanova Kseniia Vitalievna of 195273, Saint-Petersburg, ul. Karpinskogo, d. 21, kv.24, Russian Federation Nationality -Russian Federation, (5) Nazarenko Olga Viktorovna of 188663 Leningradskaya obl., Vsevolozhskij r-n, gp Kuzmolovskij, ul. Zheleznodorozhnaya, d. 26, kv. 59, Russian Federation Nationality -Russian Federation, (6) Iakovlev Pavel Andreevich of 190068, Saint Petersburg, ul. Bolshaya Podiacheskaya, d. 29, kv. 16, Russian Federation Nationality -Russian Federation, (7) Morozov Dmitry Valentinovich of 190000, Saint-Petersburg, Admiraltejskij r-on, ul. Pochtamtskaya, d. 20, kv. 3, Russian Federation Nationality -Russian Federation

(74) Agent : SUPREMEiP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : C07K 16/28

(54) Invention Title: ANTIBODY-LIKE MOLECULE COMPRISING HETERODIMER OF HUMAN CD1B (CLUSTER OF DIFFERENTIATION 1) PROTEIN

(57) Abstract
The present invention relates to the field of biotechnology, specifically to antibody-like molecules that comprise a heterodimer of membrane-proximal domains of human CD1b (cluster of differentiation 1) protein, as well as to a process for producing said antibody-like molecules. The invention further relates to a nucleic acid encoding said antibody-like molecule, an expression vector, a host cell for producing said antibody-like molecule and to a method for producing said cell.



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Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date , **(21) Appl. No.** BD-P-2024-58 **(22) Filed:** 28/02/2024
(23) Priority Data:
(71) Applicant: Md. Monjurul Haq of Village: Birrampur charpara, Post: Gafarquri PS/Upazila: Trishal, District: Mymensingh, Nationality -Bangladesh
(72) Inventors: (0) Md. Monjurul Haq of Village: Birrampur charpara, Post: Gafarquri PS/Upazila: Trishal, District: Mymensingh, Bangladesh Nationality -Bangladesh
(51) INT. CL. : C11B 9/00
(54) Invention Title: Perfume (Attar) As Mosquito Repellent
(57) Abstract The present invention discloses a novel perfume composition having significant mosquito repellent activity without compromising on aesthetic appeal and user experience. The composition combines the pleasant fragrances of traditional perfumes with carefully selected ingredients known for their mosquito repellent properties. This unique blend offers protection against mosquito bites while delivering a delightful aroma.

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-59
(22) Filed: 29/02/2024

(23) Priority Data:
Finland, Number :20235251, Date : 02-03-2023.

(71) Applicant: Abloy Oy of Wahlforssinkatu 20, 80100 Joensuu, Nationality -Finland

(72) Inventors: (0) AITTOKOSKI, Pyry of Turkkipolku 4B, 80230 Joensuu, Finland Nationality -Finland

(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : E05B 29/00

(54) Invention Title: CYLINDER LOCK AND KEY COMBINATION

(57) Abstract

The invention relates to a combination of a cylinder lock and a key.The cylinder lock (1) comprises an inner structure arrangement. It has a key profile opening (21). The key (2) comprises a moveable element (5). The key (2) comprises a slot (16), which is transverse in relation to a longitudinal axis of a shaft of the key (2) and also through the shaft of the key. The moveable element (5) is arranged to move along the slot (16).

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-60
(22) Filed: 29/02/2024

(23) Priority Data:
China, Number :2023101841925, Date : 01-03-2023.

(71) Applicant: Hunan Lier Biotech Co., Ltd. of No. 10 Shan Yan Road, Jia Shan Street, Jinshi, Hunan 415400, Nationality -China

(72) Inventors: (0) LAI, Fan of No. 10 Shan Yan Road, Jia Shan Street, Jinshi, Hunan 415400, China Nationality -China, (1) REN, Jie of No. 10 Shan Yan Road, Jia Shan Street, Jinshi, Hunan 415400, China Nationality -China, (2) YANG, Pingping of No. 10 Shan Yan Road, Jia Shan Street, Jinshi, Hunan 415400, China Nationality -China, (3) FAN, Qian of No. 10 Shan Yan Road, Jia Shan Street, Jinshi, Hunan 415400, China Nationality -China

(74) Agent : MUNSHI & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : C07D 213/803

(54) Invention Title: A process preparing L-glufosinate directly from L-homoserine

(57) Abstract

Provided is a process for preparing L-glufosinate by enzymatic catalysis reaction of homoserine and methylphosphonic acid. The process according to the present disclosure does not comprise a step of generating O-acyl -L-homoserine, and O-acyl-L-homoserine is not sued in the process.

Fig. 1

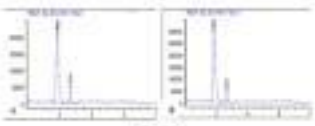

Fig. 2

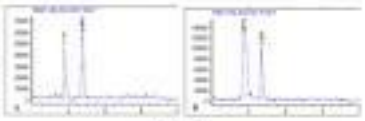

Fig. 3

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-61
(22) Filed: 29/02/2024

(23) Priority Data:
China, Number :2023101867658, Date : 01-03-2023.

(71) Applicant: Hunan Lier Biotech Co., Ltd. of No. 10 Shan Yan Road, Jia Shan Street, Jinshi, Hunan 415400, Nationality -China

(72) Inventors: (0) LAI, Fan of No. 10 Shan Yan Road, Jia Shan Street, Jinshi, Hunan 415400, China Nationality -China, (1) FAN, Qian of No. 10 Shan Yan Road, Jia Shan Street, Jinshi, Hunan 415400, China Nationality -China, (2) DAI, Yonghua of No. 10 Shan Yan Road, Jia Shan Street, Jinshi, Hunan 415400, China Nationality -China, (3) YANG, Pingping of No. 10 Shan Yan Road, Jia Shan Street, Jinshi, Hunan 415400, China Nationality -China, (4) REN, Jie of No. 10 Shan Yan Road, Jia Shan Street, Jinshi, Hunan 415400, China Nationality -China

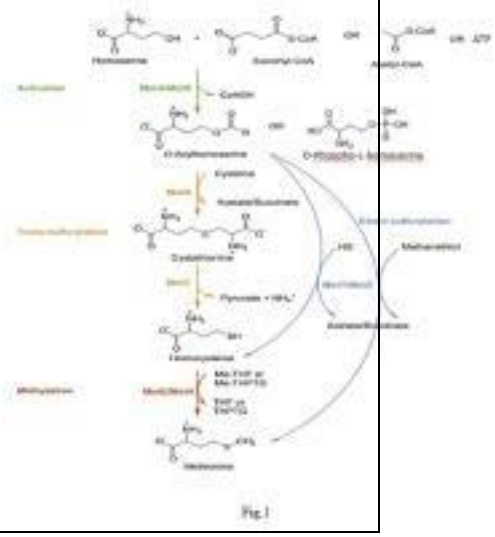
(74) Agent : MUNSHI & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : C07K 1/00

(54) Invention Title: A process of preparing L-methionine directly from L-homoserine

(57) Abstract

Provided is a process for preparing L-methionine by enzymatic catalysis reaction of homoserine and methanthiol. The process according to the present disclosure does not comprise a step of generating O-acyl-L-homoserine, and/or O-acyl-L-homoserine is not sued in the process.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-63
(22) Filed: 03/03/2024

(23) Priority Data:
European Patent Office (EPO), Number :231621160, Date : 15-03-2023.

(71) Applicant: OceanSafe AG of Stauffacherstrasse 72, 3014 Bern, Nationality -Switzerland

(72) Inventors: (0) Schweizer Manuel of 3063 lttigen, Switzerland Nationality -Switzerland

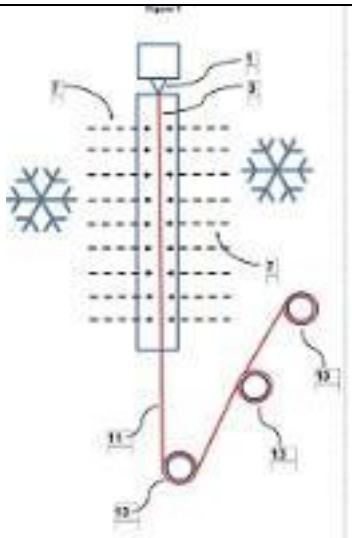
(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : D01F 9/14

(54) Invention Title: FIBERAND FILAMENT FOR THREE-DIMENSIONAL PRINTING

(57) Abstract

The present invention relates to a fiber being made from a mixture comprising an aliphatic polyester, an aliphatic-aromatic polyester, and a polyhydroxyalkanoate, and methods of preparing such fiber. The present invention also relates to a filament suitable for three-dimensional printing being made from a mixture comprising an aliphatic polyester, an aliphatic-aromatic polyester, and a polyhydroxyalkanoate, and methods of preparing such filament.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-64
(22) Filed: 03/03/2024

(23) Priority Data:
United States of America, Number :18117308, Date : 03-03-2023. and United States of America, Number :18117313, Date : 03-03-2023.

(71) Applicant: EnhancedGEO Holdings, LLC of 136 4th St. N., #344St. Petersburg, FL 33701 , Nationality -United States of America

(72) Inventors: (0) LINDBERG Greg of C/o EnhancedGEO Holdings, LLC, 136 4th St. N., #344, St. Petersburg, FL 33701, United States of America Nationality -United States of America, (1) CONNER Kimberly C. of C/o EnhancedGEO Holdings, LLC, 136 4th St. N., #344, St. Petersburg, FL 33701, United States of America Nationality -United States of America

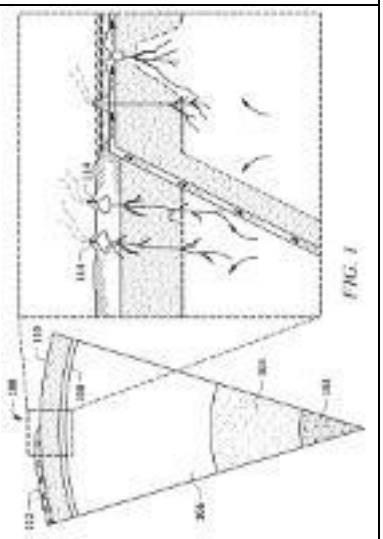
(74) Agent : H & H Company, {app_representative_address}, Bangladesh

(51) INT. CL. : F24S 60/20

(54) Invention Title: THERMOCHEMICAL REACTIONS USING GEOTHERMAL ENERGY

(57) Abstract

A first aspect is directed to a method for producing hydrogen by thermochemical splitting of water includes injecting one or more feed streams of water into a reaction chamber. The method further includes using heat from a subterranean heat source to carry out the thermochemical splitting of water to form hydrogen and oxygen in the reaction chamber. The formed products are subsequently removed from the reaction chamber. A second aspect is directed to a reaction system includes a wellbore extending from a surface into a subterranean heat source. The reaction system further includes a reaction chamber configured to be maintained at a reaction temperature., using heat from the subterranean heat source. The reaction system further includes one or more inlet conduits. The inlet conduits are configured to provide one or more feed streams to the reaction chamber. The reaction system also includes outlet conduits configured to allow flow of one or more product streams.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-65
(22) Filed: 04/03/2024

(23) Priority Data:
China, Number :2023086366, Date : 05-04-2023.

(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland

(72) Inventors: (0) Timo Erkki LUNTTILA of Karakaari 13, Espoo, 02610, Finland Nationality -Finland, (1) Jari Olavi LINDHOLM of Hallasuontie 87, Palojoki, 01940, Finland Nationality -Finland, (2) Torsten WILDSCHEK of 8 Kimberland Way, Gloucester, GL4 5TW, United Kingdom Nationality -Austria, (3) Naizheng ZHENG of Room-404, Building-3, No.60 GuangAnMen NanJie, XichengDistrict,Beijing, 100054, China Nationality -China, (4) Renato Barbosa ABREU of Godsbanen 25, 3 lejl 6, Aalborg, 9000, Denmark Nationality -Brazil, (5) Nuno Manuel KIILERICH PRATAS of Alfred Nobels Vej 27, Aalborg, 9220, Denmark Nationality -Portugal, (6) Jian Guo LIU of 42-602, Lane 373 Xindong Road, Minhang,, Shanghai, China Nationality -China, (7) Yong LIU of 30-201, Pujian Road 1288,, Shanghai, 200134, China Nationality -China, (8) Thomas Haaning JACOBSEN of Nymarksvej 3, Nørresundby, 9400, Denmark Nationality -Denmark

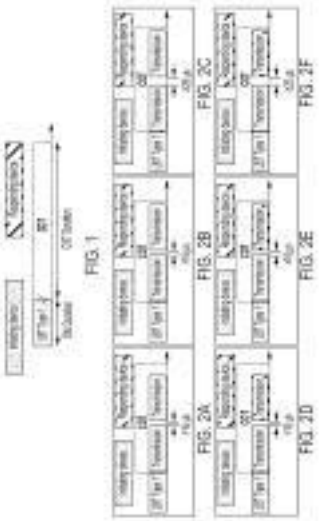
(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : H04N 19/164

(54) Invention Title: POWER CONTROL FOR SIDELINK PHYSICAL SIDELINK FEEDBACK CHANNEL TRANSMISSION.

(57) Abstract

Systems, methods, apparatuses, and computer program products for determining the transmit power for a common interlace and RBs. One method may include a UE determining a PSFCH allocation for at least one dedicated RB, calculating a corresponding transmission power of the PSFCH allocation for the at least one dedicated RB, and determining an allocation of common PSFCH RBs. The method further include,based upon the transmission power for the dedicated resource blocks and the determined number of common resource block, calculating transmission power for the common RBs.



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(22) Filed: 04/03/2024

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(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-i-Khuda Road, Dhaka-1205, Nationality -Bangladesh

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(51) INT. CL. : C25B 1/01

(54) Invention Title: A Production process of multi-functional lip care product

(57) Abstract
Natural plant ingredients that are readily available in the area were used to design the ‘Production of multi-functional lip care product’ procedure. We employed UK-grade white petroleum jelly as a base material due to process development, and we also used Olive oil (Olea europaea L.), Palmarosa essential oil (Cymbopogon martinii (Roxb.) Will.Watson), Turmeric leaf oil (Curcuma longa L.), and Sandalwood oil (Santalum album L.) as active components. Palmarosa essential oil was the only one of the four to exhibit antibacterial and antifungal properties. Turmeric leaf oil and Sandalwood oil are utilized for aesthetic purposes. Sandalwood oil was also applied to the skin as an emollient. In addition to serving as a preservative, Olive oil was put on the skin to make it more emollient. Since the four oils release their aroma gradually when combined, no artificial chemicals were required. Finally, by constricting the pores, we were able to seal the moisture in the lip skin by using mint crystal in the perfect mix with the right components. It also soothes dry lip skin and itchy scalp conditions. Mint's abundant antioxidant content can maintain healthy, damage-free lip skin, reviving drab, damaged lip.

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(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-I-Khuda Road, Dhanmondi, Dhaka-1205, Nationality -Bangladesh

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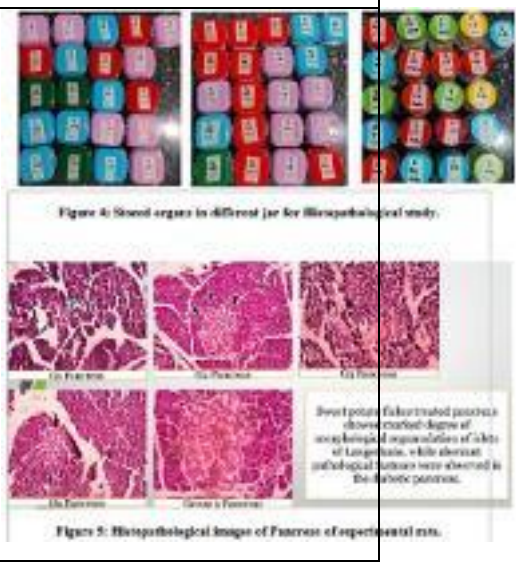
(51) INT. CL. : A23G 9/04

(54) Invention Title: A process for the production of Antidiabetic sweet potato flakes

(57) Abstract
Ipomoea batatas (L.) (commonly known as sweet potato in Bangladesh) has been shown to have many medicinal importance. It is a functional foods. A food is said to be functional food if it provides preventive, protective and/or curative function against one or more diseases, in addition to its adequate nutritional benefits. Hence, this study was undertaken to assess the anti-diabetic effect of sweet potato flakes in rat model through hematological, biochemical and histopathological parameters. For this study, a formulation of sweet potato derived flakes was designed and its effective role of ameliorating diabetic conditions was evaluated in the Streptozotocin-nicotinamide-induced diabetic rats. As hyperglycemia in Wistar male rats was reduced in a significant way on 2, 3, 4 and 5 weeks after starting sweet potato flakes derived functional diet. At the same time, antioxidative notion of sweet potato flakes was ensured by the high degree of SOD, CAT measurements. Additionally, In the histopathological examinations, especially of the pancreas of Wistar diabetic rats, remarkable regranulation of pancreatic islets β-cells was observed in the sweet potato flakes group after the long experimental study. This study stipulated that Sweet potato flakes could be used as anti-diabetic component in case of diabetes mellitus.



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(21) Appl. No. BD-P-2024-68
(22) Filed: 06/03/2024

(23) Priority Data:
Russian Federation, Number :2023105614, Date : 10-03-2023.

(71) Applicant: BIOCAD of 198515, Saint Petersburg, vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89, Nationality -Russian Federation

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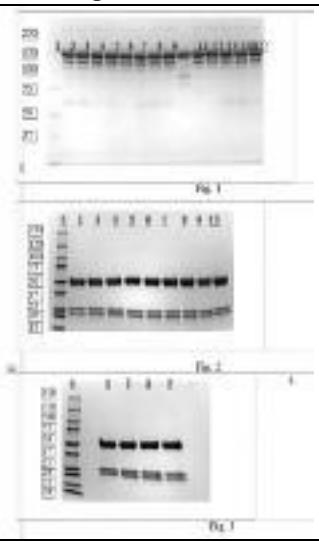
(74) Agent : SUPREMEiP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : C07K 16/28

(54) Invention Title: Isolated bispecific antibody that specifically binds to CD3 and tumor antigen, and use thereof

(57) Abstract

The present invention relates to the field of biotechnology and medicine, in particular to a bispecific antibody that specifically binds to CD3 and a tumor antigen. The invention further relates to a nucleic acid encoding the subject bispecific antibody, an expression vector, a host cell for producing the subject bispecific antibody and a method for producing said cell, pharmaceutical compositions comprising the bispecific antibody according to the invention, pharmaceutical compositions comprising the bispecific antibody according to the invention and other therapeutically active compounds, methods for treating diseases or disorders mediated by a tumor antigen, use of the bispecific antibody or pharmaceutical compositions thereof for treating diseases or disorders mediated by a tumor antigen, and the use of the bispecific antibody according to the invention and other therapeutically active compounds for treating diseases or disorders mediated by a tumor antigen.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-69
(22) Filed: 07/03/2024
(23) Priority Data:

(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Nationality -Bangladesh

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(51) INT. CL. : C40B 50/08

(54) Invention Title: GREEN SYNTHESIS OF 3-(2-HYDROXYPHENYL)-1-PHENYLPROP-2-EN-1-ONE

(57) Abstract

3-(2-Hydroxyphenyl)-1-phenylprop-2-en-1-one chalcone derivative was synthesized by aldol condensation reactions of acetophenone with 2-hydroxy benzaldehydes in green solvent (water) instead of organic solvents (methanol, ethanol, propanol etc). The structure of 3-(2-hydroxyphenyl)-1-phenylprop-2-en-1-one was confirmed by their FT-IR, Uv-Vis, 1H-NMR and 13C-NMR spectra. A density functional theory (DFT) computational study was undertaken to investigate the energy minimized structures and optimized energy with consideration of all possible E/Z and s-cis/s-trans geometrical and regioisomers. The DFT computational data show that the s-cis-(E) isomer, is thermodynamically more stable than those of the corresponding s-cis-(Z)– and s-trans-(E/Z) isomers. Furthermore, time dependent-DFT calculations were conducted to generate vertical excitation energies, absorption wavelengths and the oscillator strengths of the chalcone derivatives. The HOMO–LUMO results and some other physicochemical parameters of the 3-(2-hydroxyphenyl)-1-phenylprop-2-en-1-one are also calculated.

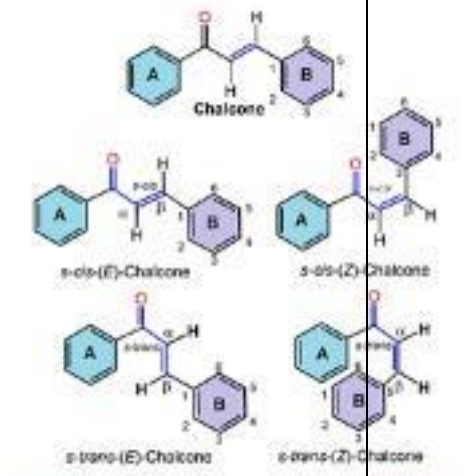

Figure. 1: The four possible stereoisomers of chalcone

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(23) Priority Data:
(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka – 1205, Nationality -Bangladesh
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(51) INT. CL. : C11C 3/08
(54) Invention Title: Development of omega -3 fatty acid enriched Nannochloropsis sp. powder
(57) Abstract Spray dryer: A spray dryer takes a liquid stream and separates the solute or suspension as a solid and the solvent into a vapor. The solid is usually collected in a drum or cyclone. The liquid input stream is sprayed through a nozzle into a hot vapor stream and vaporized. Solids form as moisture quickly leaves the droplets.

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(22) Filed: 10/03/2024

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(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : C11D 3/00

(54) Invention Title: FLUORESCENT WHITENING AGENTS.

(57) Abstract
The invention provides a fluorescent whitening agent or optical brightener of formula (I) or (II) having the structure: (I) (II) wherein Y is Z or X'L;wherein: A is CR1R2(CH2)n wherein R1 is H, CH2OH or COZ, R2 is H or CH2OH and wherein n is 1 or 2, or wherein A is an optionally substituted aromatic or heteroaromatic ring fused with N and X wherein N and X are respectively bound to adjacent carbon atoms on the ring; X is O, S or N-H; Y is Z or X'L; the or each Z is independently OM, OR3, O(CH2)qSO3M, NH2, NHOH, NHR4, NR42, wherein M is selected from hydrogen, an alkali metal or an alkaline earth metal; R3represents a linear or branched alkyl, an aryl, an alkaryl, an aralkyl, a linear or branched alkyl alcohol, a linear or branched alkyl alcohol polyol, a hydroxyalkylamine, a polyhydric alcohol, a sugar, a linear or branched alkyl ether,a polyester having from 2 to 1000 repeat units, or a polyoxyalkylene chain having from 2 to 1000 repeating units; q is 1 to 5; R4isindependently selected from methyl, ethyl, propyl, C4 to C12 alkyl, benzyl, 2-hydroxyethyl, 1-hydroxy-2-propanyl, 1,3-dihydroxy-2-propanyl, 2,3-dihydroxypropyl, cyanomethyl or 2-aminoethyl; alternatively, NR42represents a heterocyclic ring, e.g. morpholine; and wherein when Y is X'L; X' is O, S or N-H; and L represents a linker moiety connecting m repeating units of formula I or II having X' as defined above in place of Y; R is H, CHR5R6, R5, R6, an alkylsulphonate, a polyether, CH2COZ or CH(COZ)((CH)nCOZ) in which each Z may be the same or different, R5and R6independently represent hydrogen, alkyl (such as methyl, ethyl, propyl, isopropyl), vinyl, phenyl, hydroxymethyl, 1-hydroxyethyl, 2-hydroxyethyl, 1,2-dihydroxyethyl, aminomethyl, (dimethylamino)methyl, 5-aminopentyl, or cyano, optionally wherein R5and R6are the same or different, and n is 1 or 2.

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(22) Filed: 10/03/2024

(23) Priority Data:
European Patent Office (EPO), Number :231619826, Date : 15-03-2023.

(71) Applicant:

(72) Inventors: (0) SCHWEIZER Manuel of 3063 lttigen, Switzerland Nationality -Switzerland

(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : C08L 67/04

(54) Invention Title: INJECTION MOLDED ARTICLE

(57) Abstract

The present invention relates to an injection molded article comprising an aliphatic polyester, an aliphatic-aromatic polyester and a polyhydroxyalkanoate, and methods for preparing such injection molded article.

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(22) Filed: 11/03/2024

(23) Priority Data:
India, Number :202311019990, Date : 22-03-2023.

(71) Applicant: PI INDUSTRIES LTD. of Udaisagar Road, Udaipur, Rajasthan 313001, Nationality -India

(72) Inventors: (0) MALVIYA, Nitin of PI Industries Ltd., Post Box No.20, Udaisagar Road, Udaipur, Rajasthan 313001, India Nationality -India, (1) SHAH, Jigarkumar Harkishandas of PI Industries Ltd., Post Box No.20, Udaisagar Road, Udaipur, Rajasthan 313001, India Nationality -India, (2) SINGH, Vipender of PI Industries Ltd., Post Box No.20, Udaisagar Road, Udaipur, Rajasthan 313001, India Nationality -India, (3) KLAUSENER, Alexander G.M. of Schiffgesweg 18, 50259 Pulheim, Germany Nationality -Germany

(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : E21D 1/02

(54) Invention Title: A METHOD FOR THE PREPARATION OF ANTHRANILIC DIAMIDES

(57) Abstract

The present invention provides a novel method for preparing the anthranilic diamides of Formula 1, its intermediates, N-oxides or salts thereof, and their intermediates, preferably compounds of Formula 3, its intermediates, N-oxides or salts thereof, in good yields on a commercial scale. Formula 1 Formula 3 wherein R1, R2, R3, R4 and n are as defined in the description.

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(21) Appl. No. BD-P-2024-74
(22) Filed: 12/03/2024

(23) Priority Data:
United Kingdom, Number :23036395, Date : 13-03-2023.

(71) Applicant: Nicoventures Trading Limited of Globe House, 1 Water Street, London WC2R 3LA, Nationality - United Kingdom

(72) Inventors: (0) Ugurhan Yilmaz of Globe House, 1 Water Street, London WC2R 3LA, United Kingdom Nationality -United Kingdom

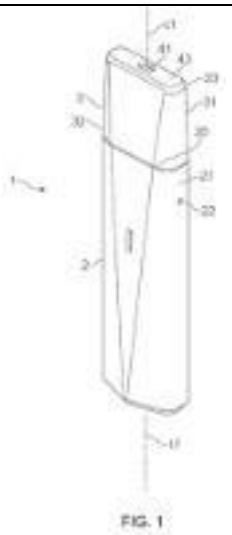
(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : A24F 40/42

(54) Invention Title: AEROSOL PROVISION SYSTEM, CONSUMABLE, AND METHOD

(57) Abstract

Described is an aerosol provision system for generating aerosol from an aerosol-generating material for inhalation, including a heater assembly comprising a substrate having a first surface on which a heater layer is provided, a second surface opposite the first surface, and one or more capillary tubes extending from the second surface through the heater layer provided on the first surface. The distance from at least one side surface of a first region of an aerosol-generating material storage portion that shares a surface with one or more side walls of the aerosol-generating material storage portion to the centre of an exposed part of a second surface of the heater assembly is greater than the distance from the at least one side surface that has an open surface with the second region of the aerosol-generating material storage portion to the centre of the exposed part of the second surface of the heater assembly. Also described is a consumable and a method for manufacturing a component of aerosol provision system.



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United Kingdom, Number :23036403, Date : 13-03-2023.

(71) Applicant: Nicoventures Trading Limited of Globe House, 1 Water Street, London WC2R 3LA, Nationality - United Kingdom

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(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : A24F 40/42

(54) Invention Title: HEATER ASSEMBLY, AEROSOL PROVISION SYSTEM, AND METHOD

(57) Abstract

Described is a heater assembly for an aerosol provision system, the heater assembly defining a three-dimensional object having a plurality of outer surfaces. The heater assembly includes a substrate; a heater layer configured to generate heat when supplied with energy, the heater layer provided on the substrate at a first outer surface of the heater assembly; one or more capillary tubes extending from a second outer surface of the heater assembly through the heater layer provided on the first outer surface of the heater assembly, the one or more capillary tubes for supplying aerosol-generating material to the heater layer for vaporisation, the second outer surface substantially opposite the first outer surface; and one or more distribution channels extending from a third outer surface of the substrate to at least one capillary tube for supplying aerosol-generating material to the one or more capillary tubes. The third outer surface is a side surface of the heater assembly, the side surface sharing an edge with at least one of the first outer surface and the second outer surface, and wherein the distance from the centre of the third outer surface to the centre of the heater assembly is shorter than a distance between the centre of any other side surface of the heater assembly to the centre of the heater assembly. Also described is an aerosol provision system, and a method for manufacturing a heater assembly.

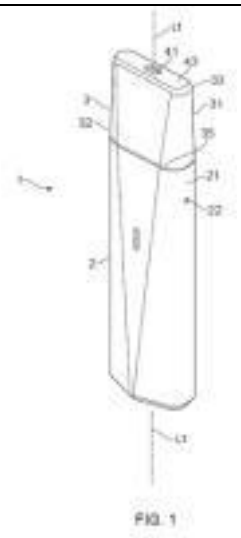


FIG. 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
৯১, মতিঝিল বা/এ, ঢাকা-১০০০
www.dpdt.gov.bd

Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-77
(22) Filed: 18/03/2024

(23) Priority Data:
European Patent Office (EPO), Number :231655739, Date : 30-03-2023.

(71) Applicant: Archroma IP GmbH of Neuhofstr. 11, 4153 Reinach, Nationality -Switzerland

(72) Inventors: (0) NUSSER, Rainer of Hörnle 1, 79395 Neuenburg am Rhein, Germany Nationality -Germany, (1) SARODE, Santosh of 369/528, Muaeng Ake, Bangpu,10280, Samutprakan, Thailand Nationality -India, (2) SCHUMACHER, Christian of Kreuzmattweg 15, 4144 Arlesheim BL, Switzerland Nationality -Switzerland, (3) CATLOW, Paul Geoffrey of Bahnhofstr. 22, 4144, Arlesheim, Switzerland Nationality -United Kingdom

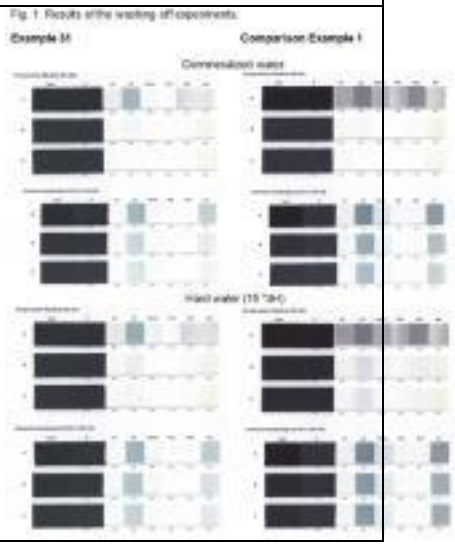
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : A61P 37/02

(54) Invention Title: New metal free bisazo grey dye compounds

(57) Abstract

Bisazo reactive compounds of formula (1) and salts thereof (1) and mixtures thereof, a process for preparation and use of said compounds.



গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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www.dpdt.gov.bd

Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date , **(21) Appl. No.** BD-P-2024-79 **(22) Filed:** 21/03/2024
(23) Priority Data:
(71) Applicant: Dr. Munawar Sultana, Professor of Department of Microbiology, University of Dhaka, Dhaka-1000, Nationality -Bangladesh, Dr. Md. Anwar Hossain, Vice Chancellor of Jashore University of Science and Technology (JUST), Nationality -Bangladesh, Anamica Hossain, Lecturer of Department of Microbiology, University of Dhaka, Dhaka-1000, Nationality -Bangladesh, Dr. Salma Akter, Associate Professor of Department of Microbiology, Jahangirnagar University, Savar, Nationality -Bangladesh, K.M. Mazharul Alam of Department of Microbiology, BRAC University, Dhaka, Nationality -Bangladesh
(72) Inventors: (0) Dr. Munawar Sultana, Professor of Department of Microbiology, University of Dhaka, Dhaka-1000, Bangladesh Nationality -Bangladesh, (1) Dr. Md. Anwar Hossain, Vice Chancellor of Jashore University of Science and Technology (JUST), Bangladesh Nationality -Bangladesh, (2) Anamica Hossain, Lecturer of Department of Microbiology, University of Dhaka, Dhaka-1000, Bangladesh Nationality -Bangladesh, (3) Dr. Salma Akter, Associate Professor of Department of Microbiology, Jahangirnagar University, Savar, Bangladesh Nationality -Bangladesh, (4) K.M. Mazharul Alam of Department of Microbiology, BRAC University, Dhaka, Bangladesh Nationality -Bangladesh
(51) INT. CL. : A61P 31/14
(54) Invention Title: Easy to use diagnostic kit for on- the- spot detection of Foot-and-Mouth Disease Virus (FMDV)
(57) Abstract

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
৯১, মতিঝিল বা/এ, ঢাকা-১০০০
www.dpdt.gov.bd

Publication of Filed Patent Application
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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-80
(22) Filed: 27/03/2024

(23) Priority Data:
European Patent Office (EPO), Number :231663246, Date : 03-04-2023.

(71) Applicant: SICPA HOLDING SA of Avenue de Florissant 41 1008 Prilly, Nationality -Switzerland

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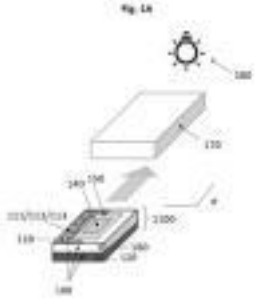
(74) Agent : Advanced IP Law Firm, , {app_representative_address}, Bangladesh

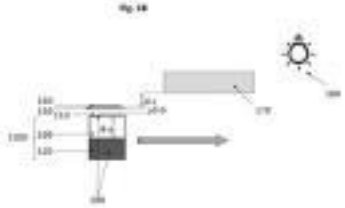
(51) INT. CL. : B28B 1/16

(54) Invention Title: APPARATUSES AND PROCESSES FOR PRODUCING OPTICAL EFFECTS LAYERS

(57) Abstract

The invention relates to the field of the protection of security documents such as for example banknotes and identity documents against counterfeit and illegal reproduction. In particular, the present invention provides apparatuses and processes for producing optical effect layers (OELs) comprising magnetically oriented, said optical effect layers (OELs) exhibiting not only a dynamic movement but also an eye-catching relief and/or 3D effect upon tilting and may be as anti-counterfeit means on security documents or security articles or for decorative purposes.





গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-81
(22) Filed: 27/03/2024

(23) Priority Data:
United States of America, Number :63595211, Date : 01-11-2023.

(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland

(72) Inventors: (0) Filippo TOSATO of 37, Avenue du Général de Gaulle, Villebon sur Yvette, 91140, France Nationality -Italy, (1) Mihai ENESCU of Haukilahdenkatu 1A 164, Espoo, 02200, Finland Nationality -Romania

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : H04B 7/024

(54) Invention Title: METHOD AND APPARATUS FOR POWER CONTROL OFFSET SCALING FOR COHERENT JOINT TRANSMISSION.

(57) Abstract

In accordance with an exampleembodiment of the present invention, provided are methods, apparatuses and computer program products configured at least to: select an integer number N0 of channel state information reference signal (CSI-RS) resources out of an integer number of NTRP network configured CSI-RS resources to a resource set associated with a CSI report configuration, wherein N < NTRP; determine a scaling factor for the resource set; determine at least one CSI component, based at least in part on an assumption that a ratio of a transmitted energy per resource element (EPRE) of a PDSCH signal and a transmitted EPRE of the nth CSI-RS resource is equal to the scaling factor times a power control offset configured for the nth CSI-RS resource of the resource set, wherein n ∈ ; and transmit a CSI report to a network comprising the determined at least one CSI component.

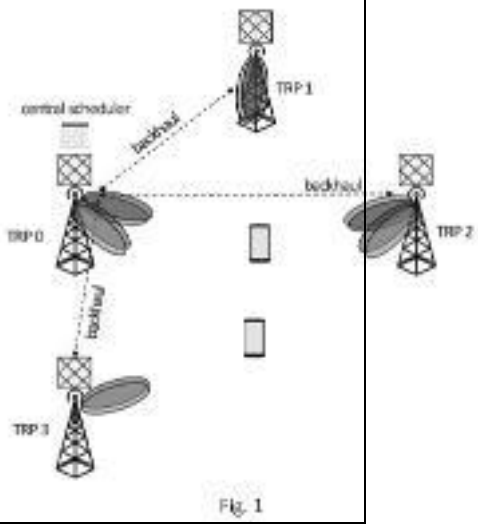

Fig. 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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www.dpdt.gov.bd

Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-82
(22) Filed: 27/03/2024

(23) Priority Data:
Japan, Number :2023034577, Date : 22-09-2023.

(71) Applicant: YKK CORPORATION of 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Nationality -Japan

(72) Inventors: (0) HIROMI, Chikako of c/o YKK CORPORATION Kurobe, 200,Yoshida,Kurobe-shi, Toyama, 9388601, Japan Nationality -Japan, (1) IKEGUCHI, Yoshito of c/o YKK CORPORATION Kurobe, 200,Yoshida,Kurobe-shi, Toyama, 9388601, Japan Nationality -Japan, (2) KIRITA, Miyuki of c/o YKK CORPORATION Kurobe, 200,Yoshida,Kurobe-shi, Toyama, 9388601, Bangladesh Nationality -Bangladesh

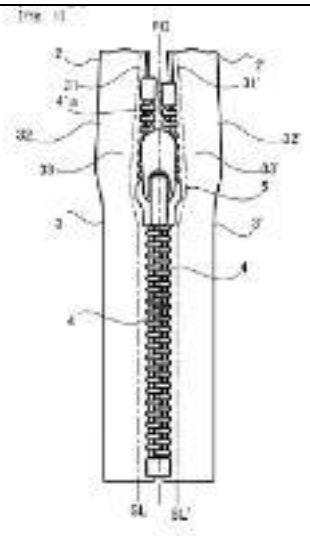
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : B21F 45/18

(54) Invention Title: FASTENER STRINGER AND METHOD OF COLLECTING FASTENER ELEMENT

(57) Abstract

Fastener tape (3,3') includes one or more water-soluble threads (6). The fastener tape (3,3') is dividable at least into a first tape portion (3a) including a first side-edge portion (31,31') and a second tape portion (3b) including a second side-edge portion (32,32') as the one or more water-soluble threads (6) dissolve.



গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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www.dpdt.gov.bd

Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-85
(22) Filed: 27/03/2024

(23) Priority Data:
India, Number :202321021935, Date : 27-03-2023.

(71) Applicant: SERUM INSTITUTE OF INDIA PRIVATE LIMITED of 212/2, Off Soli Poonawalla Road, Hadapsar, Pune, 411028 Maharashtra, Nationality -India

(72) Inventors: (0) DHERE RAJEEV MHALASAKANT of c/o SERUM INSTITUTE OF INDIA PRIVATE LIMITED, 212/2, Off Soli Poonawalla Road, Hadapsar, Pune Maharashtra 411 028, India Nationality -India, (1) VAIDYA VIVEK BALWANT of c/o SERUM INSTITUTE OF INDIA PRIVATE LIMITED, 212/2, Off Soli Poonawalla Road, Hadapsar, Pune Maharashtra 411 028, India Nationality -India, (2) MULEY RAVINDRA GANPATRAO of c/o SERUM INSTITUTE OF INDIA PRIVATE LIMITED, 212/2, Off Soli Poonawalla Road, Hadapsar, Pune Maharashtra 411 028, India Nationality -India, (3) PATIL SANJAY LAXMAN of c/o SERUM INSTITUTE OF INDIA PRIVATE LIMITED, 212/2, Off Soli Poonawalla Road, Hadapsar, Pune Maharashtra 411 028, India Nationality -India, (4) PANSE ARVIND VASUDEO of c/o SERUM INSTITUTE OF INDIA PRIVATE LIMITED, 212/2, Off Soli Poonawalla Road, Hadapsar, Pune Maharashtra 411 028, India Nationality -India, (5) JADHAV RAMAKANT SHRIMANTRAO of c/o SERUM INSTITUTE OF INDIA PRIVATE LIMITED, 212/2, Off Soli Poonawalla Road, Hadapsar, Pune Maharashtra 411 028, India Nationality -India, (6) BHOSALE JAYANT HANAMANT of c/o SERUM INSTITUTE OF INDIA PRIVATE LIMITED, 212/2, Off Soli Poonawalla Road, Hadapsar, Pune Maharashtra 411 028, India Nationality -India, (7) POONAWALLA CYRUS SOLI of c/o SERUM INSTITUTE OF INDIA PRIVATE LIMITED, 212/2, Off Soli Poonawalla Road, Hadapsar, Pune Maharashtra 411 028, India Nationality -India, (8) POONAWALLA ADAR CYRUS of c/o SERUM INSTITUTE OF INDIA PRIVATE LIMITED, 212/2, Off Soli Poonawalla Road, Hadapsar, Pune Maharashtra 411 028, India Nationality -India

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : A61K 39/42

(54) Invention Title: METHOD FOR MANUFACTURING VIRAL VACCINES AND COMPOSITIONS THEREOF

(57) Abstract

Present invention provides a method of producing clarified virus pool of virus to obtain a lyophilized/freeze-dried live attenuated virus immunogenic composition/ formulation comprising atleast one or more than one antigens/immunogens. Present invention provides a method of producing a clarified virus pool of viruses such as measles, mumps, rubella. It provides the improved large scale affordable /safe manufacturing processes (encompassing cultivation, purification & formulation stages) that utilize minimum animal origin components, provide high virus yield, ensure virus integrity/stability preservation across manufacturing & storage.

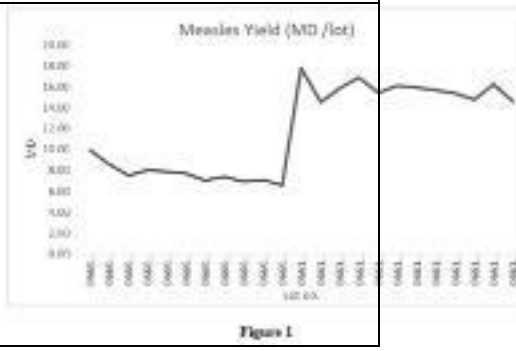

Figure 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-86
(22) Filed: 28/03/2024

(23) Priority Data:
China, Number :2023206911258, Date : 31-03-2023.

(71) Applicant: LAKSHMI MACHINE WORKS LTD of Perianaickenpalayam, SRK Vidyalaya Post, Coimbatore-641020, Tamil Nadu, Nationality -India

(72) Inventors: (0) Pasupathy, Jeganathan of No.19, Karumariamman Layout, Ondipudur, Coimbatore - 641016, Tamil Nadu, India Nationality -India, (1) Ashwin, Venkataraman of No. 27, Vasantha Nagar Road, Sowripalayam, Coimbatore-641028 Tamil Nadu, India Nationality -India

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : F16D 66/02

(54) Invention Title: A Yarn Inserting Device for Automatic Piecing Units

(57) Abstract

The present utility model discloses a yarn inserting device for automatic piecing units, belongs to the field of textile equipment. The yarn inserting device comprises: a base plate; an actuator and a holding arm that are arranged on the base plate; a linear guide assembly that is arranged on the base plate; the linear guide assembly is connected to the base plate and drives the base plate for linear movement, besides, the linear guide assembly is also connected to the device through a connecting plate. The yarn inserting device designed in the present application can ensure the movement of the holding arm in the horizontal plane. There is no overhanging length in the vertical plane, ensuring the stability of the holding arm in the movement process. Therefore, this enables a ring spinning machine to quickly and accurately piece a broken yarn together when yarn breakage occurs through the present device, thus improving the piecing efficiency of the automatic piecing unit.

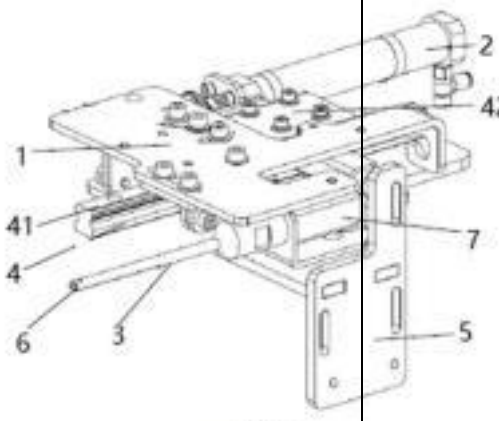

Figure 1

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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-87
(22) Filed: 28/03/2024

(23) Priority Data:
Japan, Number :2023055131, Date : 30-03-2023.

(71) Applicant: TOYO ENGINEERING CORPORATION of 1-1, Nishi-Shimbashi 1-chome, Minato-ku, Tokyo 105-0003, Nationality -Japan

(72) Inventors: (0) Keishi SANO of c/o Toyo Engineering Corporation, 2-8-1, Akanehama, Narashino-shi, Chiba 275-0024, Japan Nationality -Japan, (1) Masaki HIGAKI of c/o Toyo Engineering Corporation, 2-8-1, Akanehama, Narashino-shi, Chiba 275-0024, Japan Nationality -Japan, (2) Yuichiro WAKASHIMA of c/o Toyo Engineering Corporation, 2-8-1, Akanehama, Narashino-shi, Chiba 275-0024, Japan Nationality -Japan

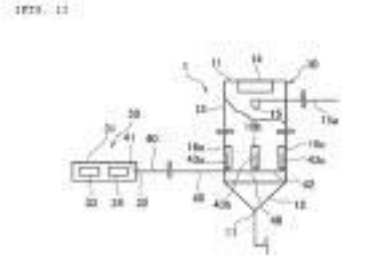
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

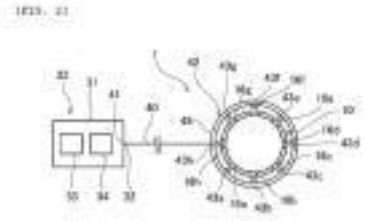
(51) INT. CL. : C05C 9/02

(54) Invention Title: METHOD FOR GRANULATING UREA AND UREA GRANULATION APPARATUS

(57) Abstract

The present invention provides a method for prilling urea whereby urea particles of stable quality are obtained. The present invention relates to a method for prilling urea using a urea prilling tower including an exhaust port provided at a tower top, a spraying portion for molten urea, a plurality of atmosphere inlet ports and a collection portion for prilled urea particles. The urea prilling tower is configured such that the spraying portion for molten urea is disposed on an upper side of the urea prilling tower, the plurality of atmosphere inlet ports are disposed on a lower side of the urea prilling tower, the collection portion is disposed at a tower bottom on a further lower side of the atmosphere inlet ports, and the plurality of atmosphere inlet ports are disposed at intervals in a circumferential direction. In the method for prilling urea of the present invention, in a process of spraying the molten urea in an interior of the urea prilling tower and taking in an atmosphere at an ambient temperature of the urea prilling tower through the atmosphere inlet ports upwardly from below to cool and solidify the molten urea to form the urea particles, heating air at a temperature higher than the ambient temperature is supplied in addition to the atmosphere at the ambient temperature to heat the interior of the urea prilling tower.





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Publication of Filed Patent Application
Publication No: 25 & Date: 23 October 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-89
(22) Filed: 31/03/2024

(23) Priority Data:
United Kingdom, Number :23050040, Date : 04-04-2023.

(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland

(72) Inventors: (0) Matha DEGHEL of 5 rue Radiguey, Montrouge, 92120, France Nationality -France, (1) Klaus HUGL of Kaiserstrasse 71/1/12, Vienna, A-1070, Austria Nationality -Austria

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : G06G 7/06

(54) Invention Title: METHOD, APPARATUS AND COMPUTER PROGRAM

(57) Abstract

There is provided an apparatus. The apparatus comprises:means for obtaining information of one or more non-active periods of a cell that is in discontinuous transmission;means for receiving at least one resource allocation for the apparatus;means for determining one or more resources of the at least one resource allocation that overlap fully or in part with the one or more non-active periods of the cell; andmeans for configuring a hybrid automatic repeat request acknowledgement codebook based at least in part on the determining one or more resources of the at least one resource allocation that overlap fully or in part with the one or more non-active periods of the cell.

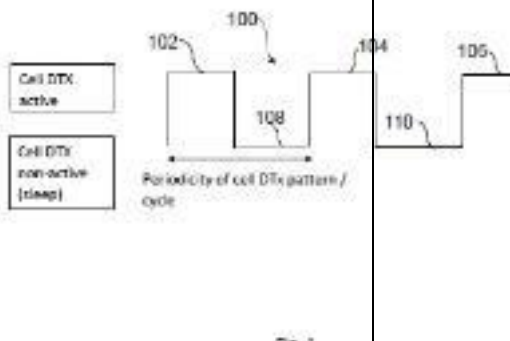

Fig. 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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(54) Invention Title: Internet Protocol Multimedia Subsystem node, Packet Switched Core Network nodeand methods in a wireless communications network

(57) Abstract

Amethod performed by an Internet Protocol Multimedia Subsystem (IMS) node is provided. The method is for handling a failure of setting up voice Quality of Service, QoS, resources relating to an incoming voice call to a User Equipment (UE) in a wireless communications network. The wireless communications network supports a Packet Switched (PS) access domain. The IMS node sends (201) a first request to a PS Core Network (CN) node. The first request will trigger the PS CN node to setup of the voice QoS resources via the PS access domain. The IMS node receives (202) a first indication from the PS CN node. The first indication is indicating a first failure of setting up the voice QoS resources via the PS access domain according to the first request. The which first failure is a temporary failure. The IMS node sends (203) a second request to the PS CN node. The second request will retrigger the PS CN node to again setup the voice QoS bearer via the PS access domain. The IMS node receives a second indication from the PS CN node. The second indication is indicating any one out of: (i) a second failure with a cause, or (ii) a success, of setting up the voice QoS resources via the PS access domain, retriggered according to the second request.

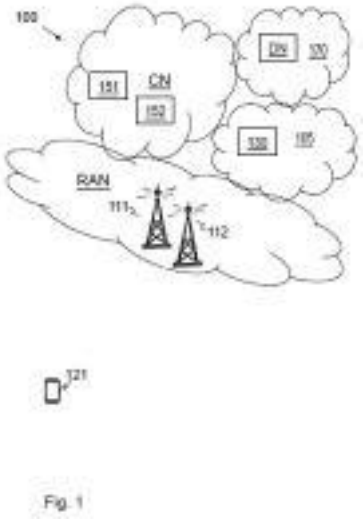

Fig. 1