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পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
৯১,মতিঝিল বা/এ, ঢাকা-১০০০।
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নং-৩৬.০৮.০০০০.২০০.১৬.০০১.২২. ৬৮৪

তারিখঃ ০৬/০৯/২০২৬ খ্রি.

বিষয়ঃ মঞ্জুরকৃত পেটেন্ট আবেদনসমূহ প্রকাশ

উপর্যুক্ত বিষয়ের প্রেক্ষিতে জানানো যাচ্ছে যে, অধিদপ্তরে দাখিলকৃত পেটেন্ট আবেদনসমূহের মধ্যে ২৪ (চব্বিশ) টি পেটেন্ট (২০২১ সালের পেটেন্ট আবেদন নং-১৮২, ৪৩৮; ২০২২ সালের পেটেন্ট আবেদন নং-২৬, ১২০, ২৭৭, ৩২২, ৩২৫, ৩৭৯, ৪০৬, ৪১৪; ২০২৩ সালের পেটেন্ট আবেদন নং- ২, ১৪, ২৪, ৪২, ৬৬, ১৫৩, ১৬৫, ১৯৪, ২২১, ২৩৬, ২৭৪, ৩১৩; ২০২৫ সালের পেটেন্ট আবেদন নং- ২২৭, ৩৬৬) মঞ্জুর করা হয়েছে। মঞ্জুরকৃত উক্ত পেটেন্ট আবেদনসমূহ বাংলাদেশ পেটেন্ট আইন, ২০২৩ এর ধারা ২৪(২)(ক) মোতাবেক প্রকাশ করা হলো।

সংযুক্তিঃ ২৪ (চব্বিশ) পাতা।

০৬/০৯/২৬
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 of Granted Patent
No.: 16 & Date: September 6, 2026

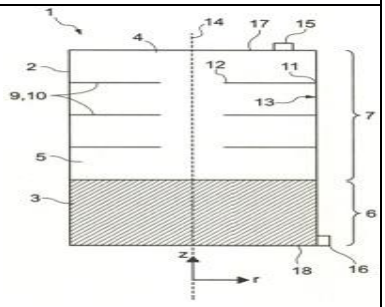
(11) Patent registration No and date 1007151, 17/08/2026
(21) Appl. No. BD-P-2021-182
(22) Filed: 10/06/2021
(23) Priority Data:
United Kingdom, Number :20089124, Date : 11-06-2020.

(71) Applicant: Katrick Technologies Limited of Flat 2/3, 54 Kingarth Street, Glasgow, G42 7RN, Nationality -United Kingdom
(72) Inventors: (1) Karthikeyan Velayutham of Flat 2/3, 54 KIngarth Sreet, Glasgow, G42 7RN, United Kingdom Nationality -United Kingdom
(74) Agent : APT IP LAW AGENCY BD., {app_representative_address}, Bangladesh

(51) INT. CL. : F02N 19/10

(54) Invention Title: Heat Engine and Method of Manufacture

(57) Abstract
A heat engine is disclosed. The heat engine comprises a housing, a first liquid and a second liquid located within the housing. The first liquid has a higher density and lower boiling point than the second liquid. The heat engine further comprises a heat exchanger which transfers heat to the first liquid to evaporate the first liquid to form a first liquid vapour. The heat engine also comprises at least one fluid flow member which to moves in response to a fluid flow created by the interaction of the first liquid vapour and the second liquid. The liquid-gas phase change of the first fluid provides an alternative mechanism for converting heat into work with numerous advantages. The heat engine has minimal moving parts, a relatively long lifetime, does not require a specific fuel, does not directly release toxic or un-environmentally friendly gases, and can be adapted to a specific source of waste heat.



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(11) Patent registration No and date 1007145, 26/07/2026
(21) Appl. No. BD-P-2021-438
(22) Filed: 22/12/2021

(23) Priority Data:
India, Number :202011056180, Date : 23-12-2020.

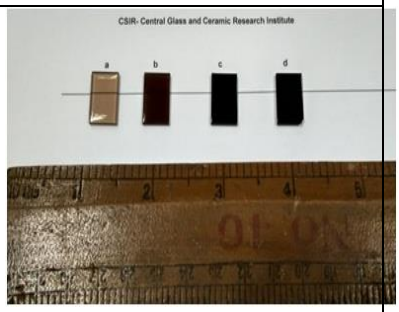
(71) Applicant: Council of Scientific & Industrial Research of Regn. of Soc. Act (Act XXI of 1860), AnusandhanBhawan, 2 Rafi Marg, New Delhi-110 001, India, Nationality -India

(72) Inventors: (0) Ashis Kumar, MANDAL of Central Glass & Ceramic Research Institute, 196, Raja S.C. Mullick Road, Jadavpur, Kolkata, West Bengal-700032, India Nationality -India, (1) Sourja, GHOSH of Central Glass & Ceramic Research Institute, 196, Raja S.C. Mullick Road, Jadavpur, Kolkata, West Bengal-700032, India, India Nationality -India

(74) Agent : M. A. KASHEM BHUIYAN, ADVOCATE, {app_representative_address}, Bangladesh

(51) INT. CL. : A01N 59/22

(54) Invention Title: A METHOD FOR SAFE DISPOSAL OF ARSENIC RICH SLUDGE OBTAINED FROM TREATMENT OF CONTAMINATED GROUNDWATER AND ITS UTILIZATION IN DEVELOPING HEAT PROTECTIVE GLASS



(57) Abstract

A METHOD FOR SAFE DISPOSAL OF ARSENIC RICH SLUDGE OBTAINED FROM TREATMENT OF CONTAMINATED GROUNDWATER AND ITS UTILIZATION IN DEVELOPING HEAT PROTECTIVE GLASS Present invention deals with the incorporation of As contaminated sludge obtained from water filtration into glass matrix to develop heat absorbing properties within the glass. The glass composition is optimized incorporating waste sludge in order to reduce near Infrared (NIR) transmission (~1000-1100 nm). A phosphate base glass composition has been melted incorporating different percentage (5-20 wt. %) of As contaminated sludge (up to 20 wt. %) to produce glass. Significant chemical durability has also been observed after 14 days of thermal cycle in distilled water at 75 oC for 8 h duration. No leaching of hazardous element (As, Fe etc.) is detected in distilled water from the glass containing 5 and 15 wt.% arsenic containing sludge by ICP AES. UV-Vis-NIR spectra suggest possibility of 30 % reduction in optical transmission at NIR region than visible region and this indicates feasibility of preparation heat shielding glass (due to low transmission at above 1000 nm). Thus, arsenic contaminated sludge can be trapped into the glass which has high heat protective properties. The potential use of this glass can be in window panel significantly reducing air-conditioning and lighting load in the building. Further, this glass can of use in glare cutting application and other application.

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Publication of Granted Patent
No.: 16 & Date: September 6, 2026

(11) Patent registration No and date 1007133, 30/06/2026
(21) Appl. No. BD-P-2022-26
(22) Filed: 30/01/2022

(23) Priority Data:
United Kingdom, Number :21011689, Date : 28-01-2021.

(71) Applicant: Tensar Technologies Limited of Sett End Road West, Shadsworth Business Park, Shadsworth, Blackburn, BB1 2PU, United Kingdom, Nationality -United Kingdom

(72) Inventors: (1) Andrew Curson of Tensar International Limited, Units 2 – 4 Cunningham Court, Shadsworth Business Park, Shadsworth, Blackburn, BB1 2PU, United Kingdom,, United Kingdom Nationality -United Kingdom, (2) Joe Cavanaugh of Tensar Holdings LLC, 2500 Northwinds Parkway, Suite 500,Alpharetta,Georgia 20009, United States of America, United States of America Nationality -United States of America, (3) Michal Golos of Tensar Polska Sp. z o.o., ul. Azymutalna 9, Gdansk 80-298, Poland,, Poland Nationality -Poland, (4) Jacek Kawalec of 43-190 Mikolow, Skalna 61, Poland, Nationality- Poland National., Poland Nationality -Poland

(74) Agent : MD. ZAHIRUL ISLAM, ADVOCATE, {app_representative_address}, Bangladesh

(51) INT. CL. : C10C 3/00

(54) Invention Title: Underpinning Asphalt with Multiaxial Geogrids

(57) Abstract
The present invention relates to an engineering construction comprising an integral multiaxial polymer geogrid at least partially embedded in a bound aggregate layer, wherein a geotextile is affixed to the geogrid, methods for producing such constructions, in embodiments the constructions having improved fatigue life or reduced depth, and the use of multiaxial polymer geogrids to improve the fatigue life and/or reduce the depth of an engineering construction.

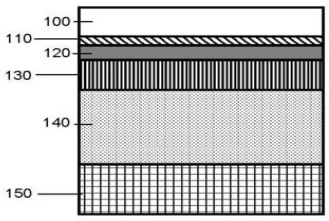


Fig. 1

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(11) Patent registration No and date 1007150, 17/08/2026
(21) Appl. No. BD-P-2022-120
(22) Filed: 24/03/2022

(23) Priority Data:
European Patent Office (EPO), Number :2021014210, Date : 01-04-2021.

(71) Applicant: EIKEN CO. LTD of 3-15, Tamagawa 4-chome, Setagaya-Ku, Tokyo 158-0094, Nationality -Japan, KEIHIN-BATTERY CO. LTD of 56-4, Onocho, Tsurumi-Ku, Yokohama-Shi, Kanagawa 230-0046, Nationality -Japan

(72) Inventors: (2) TAKEMURA HISAO of 19-5, Chuo 8-Chome, Ota-Ku, Tokyo 143-0024, Japan Nationality -Japan, (3) WAKISAKA YOSHIKI of c/o Clean Earth Technology Co. Ltd., 4-10, Shibadaimon 1-Chome, Minato-Ku, Tokyo, 105-0012, Japan Nationality -Japan, (4) HACHIYA HIDEAKI of c/o EIKEN CO. LTD, 3-15, Tamagawa 4-chome, Setagaya-Ku, Tokyo 158-0094, Japan Nationality -Japan, (5) TATSUNO MASATO of c/o KEIHIN-BATTERY CO. LTD, 56-4, Onocho, Tsurumi-Ku, Yokohama-Shi, Kanagawa 230-0046, Japan Nationality -Japan, (6) ICHIHASHI YUICHI of c/o One Rich International Inc., 3157-1, Kasagi, Nishi-Ku, Niigata-Shi, Niigata 950-2123, Japan Nationality -Japan

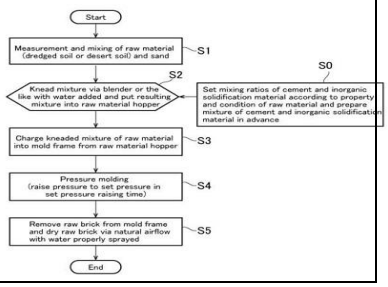
(74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh

(51) INT. CL. : E02D 3/12

(54) Invention Title: SOLIDIFICATION MATERIAL FOR NON-FIRED BRICK CONTAINING DESERT SOIL OR DREDGED SOIL AS RAW MATERIAL, AND METHOD AND MANUAL MANUFACTURING APPARATUS FOR MANUFACTURING NON-FIRED BRICK CONTAINING DESERT SOIL OR DREDGED SOIL AS RAW MATERIAL, USING SAME SOLIDIFICATION MATERIAL

(57) Abstract
A manual manufacturing apparatus for manufacturing a non-fired brick containing desert soil or dredged soil as a raw material using an inorganic solidification material, in accordance with a manufacturing method which is a mixing ratio of the desert soil or the dredged soil is 12 parts by mass, in a mixing ratio of a composition included in the kneaded mixture, the sand is 1 part by mass, the cement is 2 parts by mass, the inorganic solidification material is 0.002 parts by mass and the water is 2.6 parts by mass, and a tolerance range of the mixing ratio of the composition is □10%.

FIG. 1



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(11) Patent registration No and date 1007135, 26/07/2026
(21) Appl. No. BD-P-2022-277
(22) Filed: 17/08/2022
(23) Priority Data:
Republic of Korea, Number :1020210144053, Date : 26-10-2021.
(71) Applicant: GOO, JEI HYUN of 402, 3-5 Samjeonro8gil Songpagu, Seoul, Korea 05606,, Nationality -Republic of Korea
(72) Inventors:
(74) Agent : MentorIP, {app_representative_address}, Bangladesh
(51) INT. CL. : B60W 10/08
(54) Invention Title: APPARATUS FOR OPERATING SIMULTANEOUSLY AS DC (DIRECT CURRENT) MOTOR AND DC GENERATOR

(57) Abstract
An apparatus for operating simultaneously as DC (Direct Current) motor and DC generator is disclosed. Four permanent magnets (101, 102, 103, 104) are placed to be able to rotate with a shaft and two coils (201, 202) are placed outside the circumference of the permanent magnets and one secondary cell battery (301) is used to supply electric current to the coils. One device (501) for making electric current flow alternately in the coils is placed. If electric current flows in a first coil (201) by the secondary cell battery, the shaft rotates and the rotating permanent magnets generate electric power in a second coil (202). Electric current flows from the second coil to the first coil. Electric current always flows in one direction in the coils as the shaft rotates in one direction.

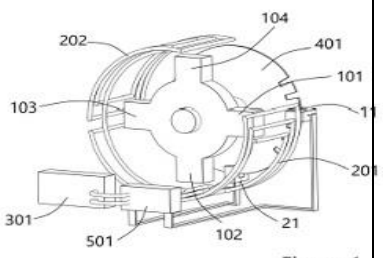


Figure 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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(11) Patent registration No and date 1007147, 17/08/2026
(21) Appl. No. BD-P-2022-322
(22) Filed: 03/10/2022

(23) Priority Data:
India, Number :202141047276, Date : 18-10-2021.

(71) Applicant: TVS MOTOR COMPANY LIMITED of "Chaitanya", No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, Nationality -India

(72) Inventors: (1) CHIPPA, Sunil Kumar of "Chaitanya", No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (2) KUMAR, Mahalingam Arun of "Chaitanya", No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (3) GANESAN, Ramya of "Chaitanya", No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India

(74) Agent : M/S. Remfry & Sons Ltd., Patent & Trade Mark Attorneys, {app_representative_address}, Bangladesh

(51) INT. CL. : B60P 7/08

(54) Invention Title: SECURING A COMMUNICATION COUPLER IN A VEHICLE

(57) Abstract

A vehicle (100) comprising a compartment (102) is described. The compartment (102) may have a slot (104) on a first compartment wall (206) of the compartment (102). The vehicle (100) may further include a cap (106) to at least partially cover the slot (104). The cap (106) may include a receiving unit (304) on a first side of the cap (106). The vehicle may also include a communication coupler unit (108). The communication coupler unit (108) may include a communication coupler (110) communicatively coupled with an electronic control unit (ECU) of the vehicle (100). The communication coupler unit (108) may further include a coupler housing (112) to house the communication coupler (110).

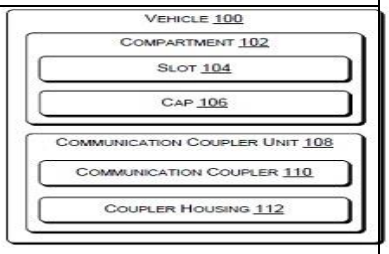


Figure 1

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(11) Patent registration No and date 1007140, 26/07/2026
(21) Appl. No. BD-P-2022-325
(22) Filed: 06/10/2022

(23) Priority Data:
Malaysia, Number :2022002707, Date : 25-05-2022.

(71) Applicant: Watertec (Malaysia) Sdn Bhd of Lot 3, Jalan Halba Satu 16/16A, Section 16, 40200 Shah Alam, Selangor, Nationality -Malaysia

(72) Inventors: (1) LOW, Han Sin of c/o Watertec (Malaysia) Sdn Bhd, Lot 3, Jalan Halba Satu 16/16A, Section 16, 40200 Shah Alam, Selangor , Malaysia Nationality -Malaysia

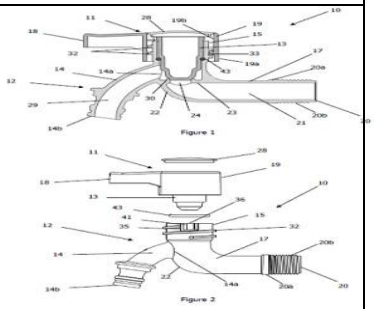
(74) Agent : MUNSHI & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : E03B 3/34

(54) Invention Title: Faucet with Self-Locking Threaded Engagement

(57) Abstract

A faucet (10) includes a faucet body (12) having an inlet member (17), an outlet member (14), and a fitting (15) connecting the inlet member (17) and the outlet member (14), and a handle assembly (11) rotatably securable to the faucet body (12), the handle assembly (11) includes a valve element (13) and a handle body (19) having a plurality of segmented threads (33) at angular positions at an inner surface (19b) of the handle body (19) for engaging with an external thread (32) of the fitting (15). Aself-locking mechanism is provided on the fitting (15) for rotation about an axis of the fitting (15) that permits rotation of the handle assembly relative to the faucet body (12) in one direction and prevents rotation of the handle assembly (11) relative to the faucet body in an opposite direction.



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(11) Patent registration No and date 1007138, 26/07/2026
(21) Appl. No. BD-P-2022-379
(22) Filed: 17/11/2022

(23) Priority Data:
Japan, Number :2021187457, Date : 18-11-2021.

(71) Applicant: JFE STEEL CORPORATION of 2-3, Uchisaiwai-Cho 2-Chome, Chiyoda-Ku, Tokyo 1000011, Nationality -Japan

(72) Inventors: (1) Kazuomi ICHIKAWA of c/o Intellectual Property Dept., JFE STEEL CORPORATION, 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 100-0011, Japan Nationality -Japan

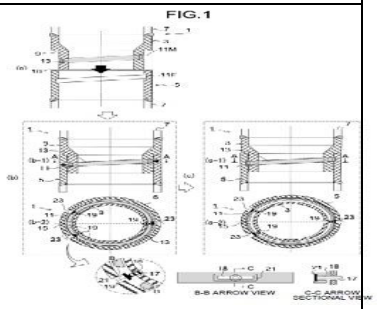
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : B23K 103/04

(54) Invention Title: MECHANICAL JOINT, STEEL PIPE, STRUCTURE, METHOD FOR INSTALLING STRUCTURE, METHOD FOR JOINING MECHANICAL JOINT, METHOD FOR REMOVING MECHANICAL JOINT, METHOD FOR DESIGNING MECHANICAL JOINT, AND METHOD FOR MANUFACTURING MECHANICAL JOINT

(57) Abstract

A mechanical joint 1 according to the present invention includes a tubular PIN joint 3 and a BOX joint 5 to be joined to the PIN joint 3. A step 9 is formed at a base end of the PIN joint 3, and a distal end 10 of the BOX joint 5 makes contact with the step 9 to be a fitting completion state. The mechanical joint 1 includes: one or more annular grooves 11 formed such that the annular grooves 11 in an outer circumferential face of the PIN joint 3 and an inner circumferential face of the BOX joint 5 to face each other in the fitting completion state and inclined with respect to a pipe axial direction; and a ring member 13 capable of being housed in the annular groove 11 of the PIN joint 3 or the BOX joint 5 so as not to interfere with insertion of the PIN joint 3 into the BOX joint 5 and capable of being placed so as to lie astride the PIN joint 3 and the BOX joint 5 in the annular groove 11 in the fitting completion state.



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(11) Patent registration No and date 1007149, 17/08/2026
(21) Appl. No. BD-P-2022-406
(22) Filed: 15/12/2022

(23) Priority Data:
United States of America, Number :63290773, Date : 17-12-2021.

(71) Applicant: LUBRIZOL ADVANCED MATERIALS, INC of 9911 Brecksville Road, Cleveland, Ohio 44141-3247, Nationality -United States of America

(72) Inventors: (1) MARK KACIK of AVON LAKE, OHIO, United States of America Nationality -United States of America, (2) ANDREW J. MEDLIK of PARMA, OHIO, United States of America Nationality -United States of America, (3) BRIAN GUHDE of ROCKY RIVER, OHIO, United States of America Nationality -United States of America, (4) CHRISTOPHER D. ZOOK of AKRON, OHIO, United States of America Nationality -United States of America

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

(51) INT. CL. : F16L 37/256

(54) Invention Title: PIPE APPARATUS, COUPLING DEVICES, AND METHODS

(57) Abstract

Pipe apparatus can include a coupling device with a seal circumscribing a central axis. The seal further includes a first circumferential pocket at least partially defined by a first and second circumferential flange. A fluid guide device positioned at least partially within the first circumferential pocket includes a plurality of segments that are radially arranged to circumscribe the central axis. The fluid guide device at least partially defines a fluid path.Methods can include using the coupling device to couple a first end portion of a first pipe segment to a second end portion of a second pipe segment. Methods of using the pipe apparatus can include passing fluid through the fluid path to cool the seal.

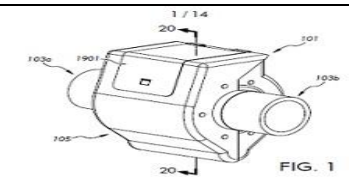


FIG. 1

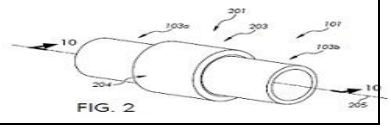


FIG. 2

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(11) Patent registration No and date 1007092, 09/03/2026
(21) Appl. No. BD-P-2022-414
(22) Filed: 22/12/2022

(23) Priority Data:
Finland, Number :20225010, Date : 07-01-2022.

(71) Applicant: Infinited Fiber Company Oy of Tekniikantie 14 , 02150 Espoo, Nationality -Finland

(72) Inventors: (1) SIREN, Sakari of c/o Infinited Fiber Company Oy, Tekniikantie 14 , 02150 Espoo, Finland Nationality -Finland, (2) MALANIN, Erkki of c/o of Infinited Fiber Company Oy, Tekniikantie 14 , 02150 Espoo, Finland Nationality -Finland, (3) VEIJOLA, Elias of c/o of Infinited Fiber Company Oy, Tekniikantie 14 , 02150 Espoo, Finland Nationality -Finland

(74) Agent : Islam & Co., {app_representative_address}, Bangladesh

(51) INT. CL. : D01F 1/10

(54) Invention Title: Method of producing cellulose carbamate filaments or fibres

(57) Abstract
According to an example aspect of the present invention, there is provided a method of producing cellulose carbamate filaments or fibres. The method comprising the steps of providing a cellulose carbamate dope, feeding the cellulose carbamate dope into a spinning unit exhibiting an aqueous spin bath containing sulphuric acid and a dissolved aluminium compound, coagulating the cellulose carbamate to form cellulose carbamate filaments and subjecting the cellulose carbamate filaments to stretching, optional cutting to form fibres, and optional washing. Further, the method comprises chemical recycling by withdrawing a portion of the spin bath to regeneration by removing at least a part of the sodium, water and zinc ions, and recycling at least part of the regenerated aqueous spin bath to the spinning unit, wherein the withdrawn aqueous spin bath preferably contains, at a temperature of at least 10 °C, before regeneration dissolved ammonium nitrogen in the form of ammonium sulphate in an amount of less than 20 g/l of the spin bath.

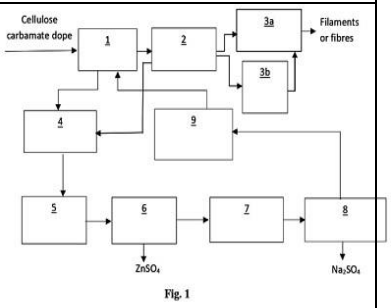


Fig. 1

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(11) Patent registration No and date 1007139, 26/07/2026
(21) Appl. No. BD-P-2023-2
(22) Filed: 04/01/2023
(23) Priority Data:
Finland, Number :2022050012, Date : 05-01-2022.

(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland
(72) Inventors: (0) Halit Murat GÜRSU of Mülhauser strasse 4, 81379 Munich, Germany Nationality -Turkey, (1) Philippe GODIN of 20 rue de la Chaumiere, 78000 Versailles, France Nationality -France, (2) György Tamás WOLFNER of Szérü utca 33, 1163 Budapest, Hungary Nationality -Hungary, (3) Muhammad NASEER-UL-ISLAM of Annette-Kolb-Anger 4, 81737 Munich, Germany Nationality -Germany, (4) Ömer BULAKCI of Glogauer Str. 42, 80997 Munich, Germany Nationality -Germany, (5) Alessio CASATI of 34 Molesham way, West Molesey, Surrey KT8 1NT, United Kingdom Nationality -Italy
(74) Agent : REMFRY & SON Limited., {app_representative_address}, Bangladesh

(51) INT. CL. : B28B 21/92

(54) Invention Title: METHOD AND APPARATUS FOR NETWORK SLICING

(57) Abstract
The disclosure inter alia relates to a user device for slice management, comprising at least one processor, wherein the at least one processor is configured to: obtain a slice group mapping (SGM) configuration, wherein the SGM configuration indicates a mapping between a slice group and a tracking area (TA); and perform cell reselection and/or random access operation, at least partially based on the obtained SGM configuration.

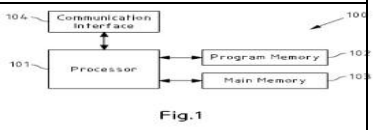


Fig.1

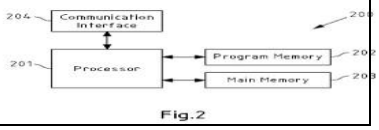


Fig.2

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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Publication of Granted Patent
No.: 16 & Date: September 6, 2026

(11) Patent registration No and date 1007134, 30/06/2026 **(21) Appl. No.** BD-P-2023-14 **(22) Filed:** 17/01/2023
(23) Priority Data: N/A
(71) Applicant: Berger Paints Bangladesh Limited of House 08, Road 02, Sector 03, Uttara Model Town, Dhaka, Nationality -Bangladesh
(72) Inventors: (0) Dr ASM Obaidullah Mahmud of Berger House, House 08, Road 02, Sector 03, Uttara , Dhaka, 1230, Bangladesh Nationality -Bangladesh, (1) Mofizur Rahman of Berger House, House 08, Road 02, Sector 03, Uttara, Dhaka, 1230, Bangladesh Nationality -Bangladesh, (2) Ali Shazzad Mohammad Morshed of Berger House, House 08, Road 02, Sector 03, Uttara , Dhaka, 1230, Bangladesh Nationality -Bangladesh
(51) INT. CL. : C07C 67/055
(54) Invention Title: method for quantification of hydroquinone content in vinyl acetate monomer using uv spectrophotometer
(57) Abstract This invention discloses a kind of method for quantification of Hydroquinone (HQ) Content in vinyl acetate monomer (VAM) using UV-Vis Spectrophotometer at λmax 293 nm. HQ is essential element as inhibitor for eliminating the risk of selfpolymerization of VAM which also ensure the stability of VAM during storage and transportation as well as assurance of a proper polymerization reaction of VAM. This invention describes a simple, cheap, time-saving, and easy method by which the HQ content in VAM can be measured quickly based on the measurement of UVVis absorbance of the HQ content at 293 nm using methanol as a blank. No color development is required for this quantification process, and the HQ content in the VAM can be measured directly without any further processing. The limit of detection, limit of quantification, linearity range, accuracy, precision, robustness, and measurement uncertainty of this method is measured and analyzed and found to be within the acceptable limit and range.

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(11) Patent registration No and date 1007144, 26/07/2026
(21) Appl. No. BD-P-2023-24
(22) Filed: 19/01/2023

(23) Priority Data:
Switzerland, Number :221531494, Date : 25-01-2022.

(71) Applicant: Archroma (Switzerland) GmbH, a company organized and existing under the laws of SWITZERLAND of Hardstrasse 1 4133 Pratteln, SWITZERLAND, Nationality -Switzerland

(72) Inventors: (0) CHRISTNACHER, Hubert (Mr.) of 4 Rue de l'Eglise, 68440 Dietwiller, France, France Nationality -France, (1) EHRET, Fanny (Ms.) of 2 Rue du 22 Janvier, 68950 Reiningue, France, France Nationality -France, (2) NICOLLET, Michael (Mr.) of 21 Rue des Orchidées, 68128 Village-Neuf , France, France Nationality -France, (3) GRACIET, Jean-Christophe (Mr.) of 35 Rue du Canal, 68128 Village-Neuf, France , France Nationality -France, (4) ROENTGEN, Georg (Mr.) of 38, 79108 Freiburg im Breisgau, Germany, Germany Nationality -Germany

(74) Agent : Remfry and Sons, {app_representative_address}, Bangladesh

(51) INT. CL. : C07F 9/54

(54) Invention Title: ISOMERICMIXTURE OF REACTIVE DYES AND THEIR USE FOR THE DYEING OR PRINTING OF TEXTILE FIBRE MATERIALS.

(57) Abstract

The present invention relates to the field ofisomeric mixture of reactive dyes that are suitable for the dyeing or printing of nitrogen-containing or hydroxy-group-containing fibre materials and yield on such materials dyeings or prints having a good build-up behaviour, a high fixation rate, good washing off properties of the unfixed dyes and good all-round fastness properties, as well as a good stability to various dyeing parameters such as a good bath stability. Furthermore, the present invention relates to a processfor dyeing or printing of nitrogen-containing or hydroxy-group-containing fibre materials, wherein the isomeric mixture of reactive dyes according to the invention isused.

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Publication of Granted Patent
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(11) Patent registration No and date 1007136, 26/07/2026
(21) Appl. No. BD-P-2023-42
(22) Filed: 05/02/2023

(23) Priority Data:
China, Number :2022075663, Date : 09-02-2022.

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

(72) Inventors: (1) Zhansheng Wei of 1068 Tianshan Road, 200335 SHANGHAI, China, China Nationality -China, (2) Jinyin Zhu of 1068 Tianshan Road, 200335 SHANGHAI, China, China Nationality -China, (3) Yingjiao He of 1068 Tianshan Road West, 200335 Shanghai, China, China Nationality -China, (4) Yong Yang of HeljeredsByväg 111B, 428 36 KÅLLERED, Sweden , Sweden Nationality -Sweden, (5) & Lin Shang of 1068 Tianshan Road, 200335 Shanghai China, China Nationality -China

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

(51) INT. CL. : H04W 68/02

(54) Invention Title: ENHANCEMENT TO DSCP BASED PAGING POLICY DIFFERENTIATION

(57) Abstract

A method for facilitating paging policy differentiation, performed by a Session Management Function (SMF) is provided. The method includes determining that a paging policy differentiation feature is supported by a User Plane Function (UPF) (325). The method includes sending, toward the UPF (325), a message instructing the UPF (325) to insert a Paging Policy Indicator (PPI) value (110) into downlink packets based on a Differentiated Services Code Point (DSCP) value (106). The message includes DSCP-to-PPI control information.

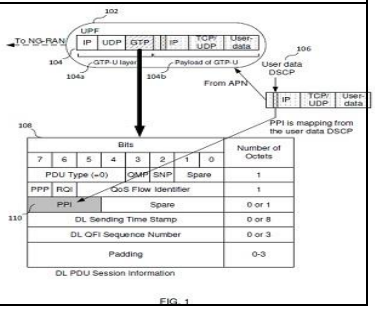


FIG. 1

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(11) Patent registration No and date 1007146, 17/08/2026
(21) Appl. No. BD-P-2023-66
(22) Filed: 27/02/2023

(23) Priority Data:
France, Number :2201804, Date : 02-03-2022.

(71) Applicant:

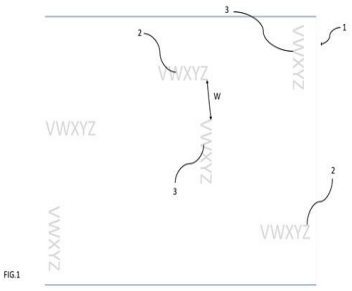
(72) Inventors:

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

(51) INT. CL. : B65H 45/24

(54) Invention Title: Strip or sheet of watermarked paper and method of manufacture

(57) Abstract
Watermarked paper strip or sheet (1) including at least two dissociated watermarks (2; 3) each formed of characters and having respective reading directions forming an angle of 90° between them, the watermarks being disposed on the velin (11) so that it is possible to connect at least one point on at least one of the watermarks to any character of the other watermark only over a non-watermarked area of the velin



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No.: 16 & Date: September 6, 2026

(11) Patent registration No and date 1007148, 17/08/2026
(21) Appl. No. BD-P-2023-153
(22) Filed: 07/06/2023

(23) Priority Data:
India, Number :202241032501, Date : 07-06-2022.

(71) Applicant: BIOMONETA RESEARCH PVT LTD of 1401, Railway Parallel Road, Sahakara Nagar Bangalore - 560092, Karnataka, India., Nationality -India

(72) Inventors: (0) ARINDAM GHATAK of 1401, Railway Parallel Road, Block A, Sahakarnagar, Bangalore 560092, Karnataka, India., India Nationality -India, (1) SRIVIDYA JANANI VENKATRAMAN of 1401, Railway Parallel Road, Block A, Sahakarnagar, Bangalore 560092, Karnataka, India., India Nationality -India, (2) SANTANU DATTA of 1401, Railway Parallel Road, Block A, Sahakarnagar, Bangalore 560092, Karnataka, India., India Nationality -India, (3) SUJIT KUMAR BISWAS of 1401, Railway Parallel Road, Block A, Sahakarnagar, Bangalore 560092, Karnataka, India., India Nationality -India, (4) KADAMBI SARANGAPANI RAMANUJAN of 1401, Railway Parallel Road, Block A, Sahakarnagar, Bangalore 560092, Karnataka, India., India Nationality -India, (5) DEBOSMITA KUNDU of 1401, Railway Parallel Road, Block A, Sahakarnagar, Bangalore 560092, Karnataka, India., India Nationality -India, (6) SUJITH RAJU of 1401, Railway Parallel Road, Block A, Sahakarnagar, Bangalore 560092, Karnataka, India., India Nationality -India

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

(51) INT. CL. : E21C 41/26

(54) Invention Title: “A METHOD TO DECONTAMINATE SOLID SURFACE”

(57) Abstract

The instant disclosure relates to microbial decontamination of solid surfaces. The disclosure provides method for reducing or eliminating microbes from a solid surface by employing a combination of quaternary ammonium compound coating onto the solid surface and electric field application. Particularly, the method comprises subjecting a solid surface to an electric field comprising a voltage of 2 kV/cm to 6 kV/cm and a capacitance of 0.002 µF to 0.06 µF, to reduce or eliminate the microbes from the solid surface, wherein said solid surface comprises a coating of quaternary ammonium compound. Corresponding products including kit and solid material/device are also provided. The present method has several advantages including but not limiting to high efficiency (>4log10 or >99.99%) in reducing/eliminating microbial load on solid surfaces; requirement of very low concentrations of quaternary ammonium compound [about 0.01% (w/v) to 1% (w/v)] to achieve said high efficiency; and shorter time-periods.

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No.: 16 & Date: September 6, 2026

(11) Patent registration No and date 1007128, 25/06/2026
(21) Appl. No. BD-P-2023-165
(22) Filed: 18/06/2023

(23) Priority Data:
China, Number :2022109983, Date : 03-08-2022.

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

(72) Inventors: (0) Hyun-Su CHA of 25 W Randolph St., 814, Chicago, 60601, United States of America Nationality - Republic of Korea, (1) Ryan KEATING of 1712 N. Wood St. Unit 3W, Chicago, 60622, United States of America Nationality -United States of America, (2) Tao TAO of 2-302, Jingao Road 988, Pudong, Shanghai, 200432, China Nationality -China

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

(51) INT. CL. : H04B 1/7136

(54) Invention Title: "LONG SRS SEQUENCE SUPPORT BY SRS FREQUENCY HOPPING AND STITCHING"

(57) Abstract

Various example embodiments relate to methods and apparatuses for uplink positioning reference signal transmission. An apparatus may be configured to receive from a network device in a radio access network configuration information indicative of a virtual uplink positioning reference signal resource associated with a plurality of uplink reference signal resources allocated to the terminal device; generate a positioning reference signal sequence corresponding to the virtual uplink positioning reference signal resource based on the configuration information; and transmit the positioning reference signal sequence on the plurality of uplink reference signal resources based on the configuration information.

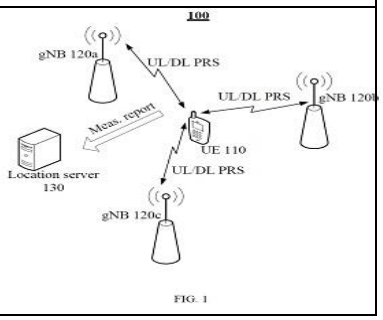


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(11) Patent registration No and date 1007143, 26/07/2026
(21) Appl. No. BD-P-2023-194
(22) Filed: 23/07/2023

(23) Priority Data:
United States of America, Number :63397696, Date : 12-08-2022.

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

(72) Inventors: (1) Antonino Orsino of Pranglintie 8 B, FI-02480 KIRKKONUMMI, Finland Nationality -Italy, (2) Icaro Leonardo Da Silva of BergshamraAllé 175, SE-170 77 SOLNA, Sweden Nationality -Brazil, (3) Claes Tidestav of Lillsjövägen 7, SE-746 31 BÅLSTA, Sweden Nationality -Sweden, (4) Venkatarao Gonuguntla of Gamla Enköpingsvägen 180, LGH 1004, SE-174 64 SUNDBYBERG, Sweden Nationality -India

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

(51) INT. CL. : H04W 36/00

(54) Invention Title: USER EQUIPMENT (UE) SELECTION OF CANDIDATE CELLS TO BE MEASURED FOR L1/L2 INTER-CELL MOBILITY

(57) Abstract
Embodiments include methods for a user equipment (UE) configured to communicate with a radio access network (RAN) node via a serving cell. Such methods include obtaining a configuration that defines one or more conditions that trigger lower layer measurements on one or more candidate cells for L1/L2 inter-cell mobility. Such methods include performing one or more of the following measurements: lower layer measurements of the serving cell, first L3 measurements of the serving cell, and second L3 measurements of at least one of the candidate cells. Such methods include, based on detecting that the performed measurements fulfil at least one of the conditions, initiating lower layer measurements of at least one candidate cell associated with the fulfilled at least one condition, and sending to the RAN node a lower layer measurement report that includes resultsof the lower layer measurements performed on the at least one candidate cell.

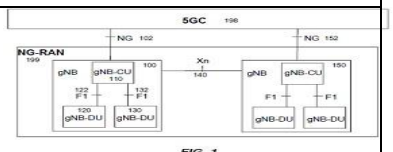


FIG. 1

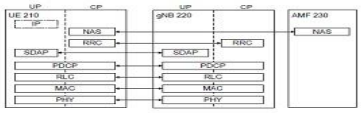


FIG. 2

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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শিল্প মন্ত্রণালয়
৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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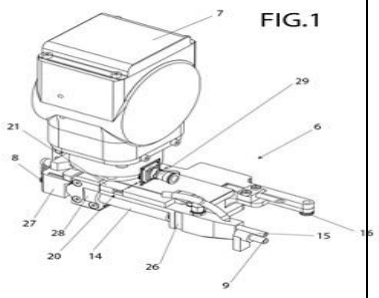
(11) Patent registration No and date 1007142, 26/07/2026
(21) Appl. No. BD-P-2023-221
(22) Filed: 29/08/2023
(23) Priority Data:
European Patent Office (EPO), Number :223828062, Date : 29-08-2022.

(71) Applicant: PINTER CAIPO, S.A.U. of Ctra. de Manresa a Santpedor, km 4,6 08251 SANTPEDOR, Nationality - Spain
(72) Inventors: (1) GABRIELE POLLONO of Via Della Blana n°23, 13857 , Ponderano (BI), Italy Nationality -Italy
(74) Agent : MUNSHI & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : B21D 22/14

(54) Invention Title: A Yarn Piecing System And Method For Piecing Auxiliary Yarn At A Spinning Station Of A Ring Spinning Machine Requiring Repairment

(57) Abstract
A yarn piecing system for threading and piecing auxiliary yarn (1), comprising a yarn handling tool (6) attached to a computer-controlled mechanical arm or robotic arm (7), a yarn nozzle (9) on the yarn outlet of the yarn handling tool (6), yarn holding means (16) arranged on the yarn handling tool (6) to be able to form a threading section of auxiliary yarn (1), and processing and control means configured to provide an activation signal to the drive means of the robotic arm (7) for the yarn handling tool (6) to carry out threading and piecing operations, wherein the system further comprises a yarn feeding device (10) arranged and configured for feeding a length (“L0”, “L1”) of auxiliary yarn (1) to a yarn conveying path outside the yarn handling tool (6) during operation of the yarn handling tool (6) by the robotic arm (7). Fig.4.



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৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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(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: (1) ITO, Nobuhisa of c/o YKK CORPORATION, 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Japan Nationality -Japan, (2) SHIMURA, Yuki of c/o YKK CORPORATION, 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Japan Nationality -Japan, (3) SUZUKI, Hiroyuki of c/o YKK CORPORATION, 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Japan Nationality -Japan, (4) ADACHI, Shunichi of c/o YKK CORPORATION, 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Japan Nationality -Japan, (5) 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.

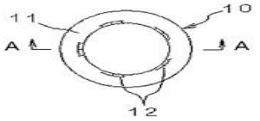


FIG. 1

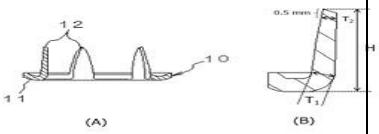


FIG. 2

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শিল্প মন্ত্রণালয়
৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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(11) Patent registration No and date 1007137, 26/07/2026
(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

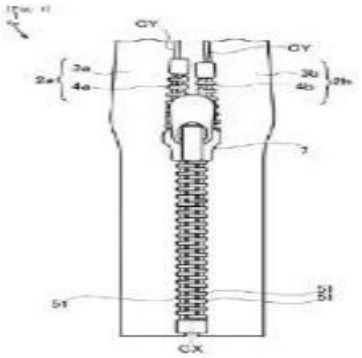
(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(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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৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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(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

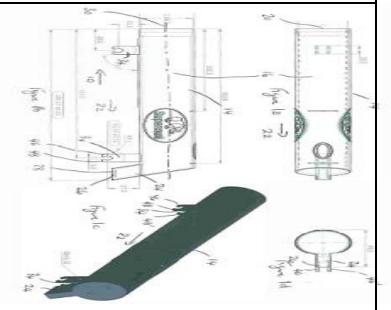
(72) Inventors: (0) Kenneth Houlbrook of Unit 5, The Moorings, Waterside Road, Leeds, LS10 1DG, United Kingdom Nationality -United Kingdom, (1) Shaun Carter of Unit 5, The Moorings, Waterside Road, Leeds, LS10 1DG, United Kingdom Nationality -United Kingdom

(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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(11) Patent registration No and date 1007105, 26/07/2026
(21) Appl. No. BD-P-2025-227
(22) Filed: 03/08/2025

(23) Priority Data:
N/A

(71) Applicant: Daffodil International University of Daffodil Smart City, Birulia, Savar, Dhaka-1216, 1216, Bangladesh

(72) Inventors: (1) Muha. Humayet Islam, Lecturer, CSE of , Bangladesh Nationality -Bangladesh, (2) Dewan Mamun Raza, Assistant Professor, CSE, DIU of , Dhaka, Bangladesh Nationality -Bangladesh, (3) Md. Ali Hossain, Associate Professor, CSE, DIU of , Dhaka, Bangladesh Nationality -Bangladesh, (4) Sheak Rashed Haider Noori, Professor, CSE, DIU of , Dhaka, Bangladesh Nationality -Bangladesh

(74) Agent : bd_daffodilinternationaluniversity9ba14, {app_representative_address}, Bangladesh

(51) INT. CL. : A61B 5/01;G07D 11/20

(54) Invention Title: IoT-Based Fever Monitoring and Control Device with Antipyretic Functionality

(57) Abstract

This invention presents a smart, IoT-based healthcare device that continuously monitors body temperature and automatically initiates cooling when fever is detected. The system incorporates a digital thermometer for real-time temperature tracking and a pulse oximeter to measure blood oxygen saturation. When the body temperature exceeds a predefined threshold, an antipyretic mechanism is activated, consisting of a submersible water pump that sprays water onto the patient's forehead. A servo motor adjusts the position of the spray pipe to ensure uniform cooling. All functions are managed via a smartphone application, enabling remote monitoring, control, and data visualization. This invention offers a practical, automated solution for fever management, especially useful in home quarantine, rural healthcare, and emergency or pandemic situations where medical supervision may be limited.



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(21) Appl. No. BD-P-2025-366
(22) Filed: 02/12/2025

(23) Priority Data:
N/A

(71) Applicant: Bangladesh Agricultural University (BAU), the organization organized under the laws of Bangladesh, of Sub Project Manager, Bangladesh Agricultural University Technology Transfer Office, Mymensingh, Bangladesh Agricultural University, 2202, Bangladesh

(72) Inventors: (1) Professor DR. A. K. M. Ahsan Kabir of Professor, Department of Animal Science, Faculty of Animal Husbandry, Bangladesh Agricultural University, Mymensingh, Bangladesh Agricultural University, 2202, Bangladesh, (2) Md. Jahid Hasan of PhD Fellow, Department of Animal Science, Mymensingh, Bangladesh Agricultural University, 2202, Bangladesh

(74) Agent : bd_profdrakmahsankabir53912, {app_representative_address}, Bangladesh

(51) INT. CL. : C05F 17/60;C30B 7/10

(54) Invention Title: Hydrothermal treatment process for making cow dung compost

(57) Abstract
The present invention discloses a novel hydrothermal-treated composting process for efficient, large-scale management of cattle manure, transforming raw cow dung and biodegradable farm residues into stable, nutrient-rich, pathogen-free compost within a significantly shortened timeframe. Unlike conventional hydrothermal systems that terminate with solid–liquid separation, this innovation integrates hydrothermal pre-treatment with direct microbial composting, allowing treated manure to exit the chamber as a homogeneous semi-solid mass, ready for immediate composting. Fresh cow dung mixed with straw bedding is conveyed and mechanically treated in a specially designed hydrothermal chamber equipped with single-screw extruders while being exposed to pressurized steam at 150–220 °C and 150 psi for 15 minutes, effectively breaking down complex lignocellulose fibers, proteins, and fats into simpler, biodegradable forms. Following thermal treatment, the material is cooled uniformly, inoculated with Indigenous Microorganisms (IMOs) adapted from the local soil environment, and formed into windrows under a roofed shed. Daily mechanical turning ensures uniform aeration, microbial activity, and temperature regulation. The process induces an immediate thermophilic phase, reaching 90–100 °C within the first seven days, enabling rapid pathogen reduction, accelerated organic matter decomposition, and reduced composting time from 90 days to 21–30 days. The resulting compost exhibits a C: N ratio of 10–15:1, near-neutral pH (~7.1), Germination Index (GI) > 120%, enhanced nitrogen retention, increased phosphorus solubility, and safe heavy metal levels, confirming maturity and agronomic suitability. This hydrothermal composting system is already scalable, capable of handling 30 tons of cow dung per month and 360 tons annually, making it suitable for both industrial-scale and on-farm manure management. The innovation addresses the challenges of conventional manure handling, including long processing times, nutrient loss, pathogen load, and environmental pollution, while producing a high-quality, nutrient-enriched organic fertilizer that supports sustainable agriculture, soil fertility improvement, and the circular bio economy.