

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
৯১, মতিবিল বা/এ, ঢাকা-১০০০
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নং-৩৬.০৮.০০০০.২০০.১৬.০০১.২২.৩০২৮

তারিখ: ১০/১২/২০২৫ খ্রি.

বিষয়: দাখিলকৃত পেটেন্ট আবেদনসমূহ ওয়েবসাইটে প্রকাশ।

বাংলাদেশ পেটেন্ট আইন, ২০২৩ এর খারা ১৭ অনুযায়ী ডিপিডিটিতে ২০২৪ সালে দাখিলকৃত পেটেন্ট আবেদন নং ৯১-১০০, ১০৬-১০৯, ১১২-১৩৭, ১৪২-১৪৪, ১৪৬-১৪৯, ১৫১-১৫২, ১৫৬-১৫৮, ১৬০ মোট ৫৩ (তিথান) টি আবেদন নিম্নবর্ণিত তথ্যাদি সহ অধিদপ্তরের ওয়েবসাইটে (www.dpdt.gov.bd) প্রকাশ করা হল।

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

সংযুক্তি: ৫৩ (তিথান) পাতা।


মোঃ হাবিবুর রহমান
১০/১২/২০২৫
উপ-পরিচালক (পেটেন্ট)

অন্তিমিপ্তি:

- 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: 26 & Date: 10 December 2025

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-91
(22) Filed: 01/04/2024
(23) Priority Data:
(71) Applicant: Md. Alomgir Hossain of Vill-panch Shato Kura Tiki Kata, P/o- Tiki Kata Madrasha U/Z-Mathbaria, Dist-Pirojpur, Nationality -Bangladesh
(72) Inventors: (0) Md. Alomgir Hossain of Vill-panch Shato Kura Tiki Kata, P/o- Tiki Kata Madrasha U/Z-Mathbaria, Dist-Pirojpur, Bangladesh Nationality -Bangladesh
(51) INT. CL. : A47C 1/028
(54) Invention Title: Ayesh Easy Clamp
(57) Abstract



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(11) Patent registration No and date .

(21) Appl. No. BD-P-2024-92

(22) Filed: 04/04/2024

(23) Priority Data:

European Patent Office (EPO). Number :231673252. Date : 11-04-2023.

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

(72) **Inventors:** (0) HARDMAN Daniel of Route des Areneys 13, 1806 St. Légier-La Chiésaz , Switzerland Nationality -United States of America

(74) Agent : Advanced IP Law Firm, Suite#9/C (9th Floor), Fahima Tower, 42-43, Purana Paltan, Dhaka-1000, Bangladesh

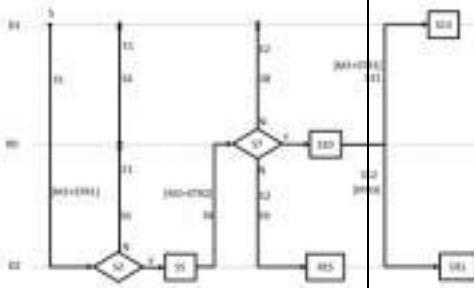
(51) INT. CL. : B65H 69/00
(54) Invention Title: METHOD AND SYSTEM FOR CONTROLLING INTERCONNECTED DEVICES

**(34) Invention Title: METH
OPERATING IN AN UNTP**

(57) Abstract

The invention

operations performed by a plurality of devices owned by different entities and operating in an untrusted, possibly hostile environment, in order to perform an assigned task, wherein the devices are equipped with processing and communication means and are operable to exchange data securely with each other via wired or wireless communication network so that intrusion in the process of execution of the operations necessary to perform the task and theft, or unauthorized use or removal, of critical data is prevented.

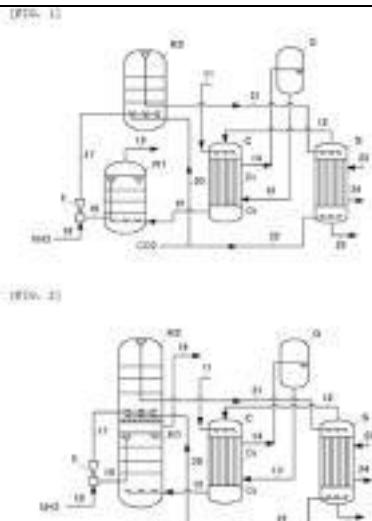




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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-93 (22) Filed: 04/04/2024 (23) Priority Data: Japan, Number :2023062999, Date : 07-04-2023.</p> <p>(71) Applicant: TOYO ENGINEERING CORPORATION of 1-1, Nishi-Shimbashi 1-chome, Minato-ku, Tokyo 105-0003, Nationality -Japan</p> <p>(72) Inventors: (0) Takahiro YANAGAWA of c/o Toyo Engineering Corporation, 2-8-1, Akanehama, Narashino-shi, Chiba 275-0024, Japan Nationality -Japan, (1) Yasuhiko KOJIMA of c/o Toyo Engineering Corporation, 2-8-1, Akanehama, Narashino-shi, Chiba 275-0024, Japan Nationality -Japan, (2) Hiroo KUNII of c/o Toyo Engineering Corporation, 2-8-1, Akanehama, Narashino-shi, Chiba 275-0024, Japan Nationality -Japan</p> <p>(74) Agent : REMFRY & SON LIMITED, 56, NEW ESKATON ROAD 4TH FLOOR, DHAKA-1000, DHAKA, Bangladesh</p> <p>(51) INT. CL. : C07C 273/04</p> <p>(54) Invention Title: UREA SYNTHESIS APPARATUS, UREA SYNTHESIS METHOD, AND METHOD FOR IMPROVING EXISTING UREA SYNTHESIS APPARATUS</p> <p>(57) Abstract Provided is a urea synthesis apparatus enabling the facilitation of apparatus maintenance, the facilitation of apparatus design or fabrication, and/or the acceleration of a urea reaction. The present invention is a urea synthesis apparatus for reacting ammonia and carbon dioxide to produce urea, and includes a first urea synthesis reactor (R1), a second urea synthesis reactor (R2), a condenser (C), a stripper (S) and means (E) for supplying a first urea synthesis liquid. The condenser (C) is a device for condensing a mixed gas into an absorbing medium to obtain a condensed liquid by allowing a process fluid to pass through a tube (Ct) and cooling it with a cooling medium passing through a shell (Cs) side, the condenser (C) being a device separate from the first urea synthesis reactor (R1) and the second urea synthesis reactor (R2), the first urea synthesis reactor (R1) is a device for obtaining the first urea synthesis liquid from the condensed liquid obtained in the condenser (C), and the second urea synthesis reactor (R2) is a device for obtaining a second urea synthesis liquid from the first urea synthesis liquid.</p>

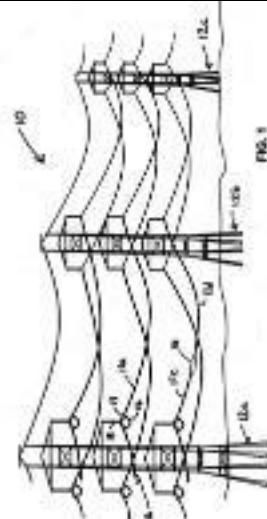




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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-94 (22) Filed: 04/04/2024 (23) Priority Data: United States of America, Number :63494455, Date : 05-04-2023.</p> <p>(71) Applicant: CTC GLOBAL CORPORATION of 2026 McGaw Avenue, Irvine, California 92614, Nationality - United States of America</p> <p>(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</p> <p>(74) Agent : MUNSHI & ASSOCIATES, Pritom Zaman Tower (Level-10), 37/2 Box Culvert Road, Purana Paltan, Dhaka-1000, Bangladesh</p> <p>(51) INT. CL. : B60L 50/53</p> <p>(54) Invention Title: SYSTEMS AND METHODS FOR OPERATING AN OVERHEAD ELECTRICAL LINE</p> <p>(57) Abstract Systems and methods for the operation of an electrical line, such as an electrical line in an electrical transmission or distribution grid. The systems and methods may include the use of sensors such as distributed sensors and non-distributed sensors to collect data about the electrical line and utilize that data for taking action with respect to the electrical line, such as to improve transmission efficiencies and to mitigate outages.</p>
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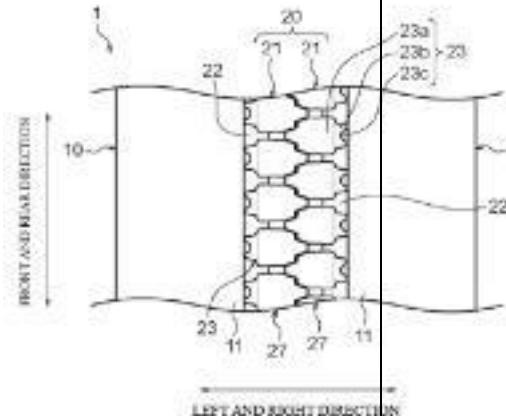
(11) Patent registration No and date , (21) Appl. No. BD-P-2024-95 (22) Filed: 04/04/2024 (23) Priority Data: India, Number :202311025504, Date : 04-04-2023. (71) Applicant: Sidhivinayak Chemtech Private Limited of Office no. 202, second floor, Shivlok house-1, Plot no. A-2, commercial complex, Karampura, New Delhi-110015, Nationality -India (72) Inventors: (0) Sahila Sethi of #415/5 Gali No.4, Kirti Nagar, Sirsa-125055, Haryana, India Nationality -India (74) Agent : Shahid & Alliance, 30/3 B C Das Street, Lalbagh, Dhaka-1205, Bangladesh (51) INT. CL. : C04B 14/02 (54) Invention Title: SYNERGISTIC GRANULAR INSECTICIDAL COMPOSITION (57) Abstract The present invention relates to a synergistic granular insecticidal composition and manufacturing method thereof. More specifically, it relates to a synergistic granular insecticidal composition comprising A) at least one anthranilic diamide insecticide or its agrochemically acceptable salts, esters and derivatives; B) Fipronil or its agrochemically acceptable salts, esters and derivatives and C) Emamectin or its agrochemically acceptable salts, esters and derivatives. The present invention also relates to a process for preparation of such synergistic granular insecticidal composition for foliar spray treatment of plants and soil application treatment for synergistic and efficacious control of insect pests and improved plant yield.
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(11) Patent registration No and date , (21) Appl. No. BD-P-2024-96 (22) Filed: 04/04/2024 (23) Priority Data: Japan, Number :2023026867, Date : 21-07-2023. (71) Applicant: YKK CORPORATION of 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 101-8642, Nationality -Japan (72) Inventors: (0) SHO, Yoshiyuki of C/o YKK CORPORATION KUROBE., 200, Yoshida, Kurobe-shi, Toyama 938-8601, Japan Nationality -Japan, (1) YASUDA, Nao of C/o YKK CORPORATION KUROBE., 200, Yoshida, Kurobe-shi, Toyama 938-8601, Japan Nationality -Japan (74) Agent : H & H COMPANY, Shareef Mansion (Second Floor), 56-57, Motijheel C/A, Dhaka-1000, Bangladesh (51) INT. CL. : B21F 45/08 (54) Invention Title: SLIDE FASTENER-ATTACHED PRODUCT AND FASTENER STRINGER
(57) Abstract A slide fastener-attached product includes a fastener stringer (21, 41) and a fastener-attached member (10). The fastener stringer (21, 41) is attached to a stringer attachment edge (11) with a sewn portion (12). The sewn portion (12) includes a plurality of interlaced portions (13) that penetrate through the stringer attachment edge (11) and a fastener tape (22) and in which an upper thread and a lower thread are interlaced. Each fastener element (23, 43) has an element recess portion (23c, 43c) having a shape recessed inward of the fastener element (23, 43). At least one of the interlaced portions (13) is disposed in at least a part of a formation area in which the element recess portion (23c, 43c) is formed and an adjacent area adjacent to the formation area. Thus, exposure of the fastener tape (22) in a region between the fastener-attached member (10) and the fastener elements (23, 43) can be prevented or reduced.

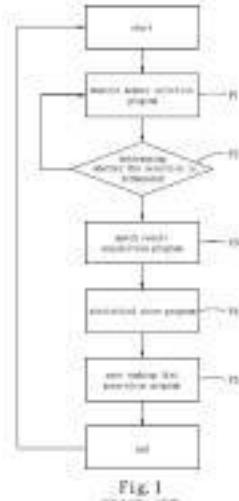




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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-97 (22) Filed: 04/04/2024 (23) Priority Data:</p> <p>(71) Applicant: Cloud Latitude Co., Ltd. of 12F.-1, No. 257, Sec. 1, Wuquan W. Rd., West Dist., Taichung City, Chinese Taipei, Nationality -China</p> <p>(72) Inventors: (0) WU, Hsien Cheng of 12F.-1, No. 257, Sec. 1, Wuquan W. Rd., West Dist., Taichung City, Chinese Taipei, China Nationality -China, (1) CHEN, Wei of 12F.-1, No. 257, Sec. 1, Wuquan W. Rd., West Dist., Taichung City, Chinese Taipei, China Nationality -China</p> <p>(74) Agent : Rana & Associates, Nipobon Asgar Garden, 462, Green Way, Flat No. A/2, (2nd Floor), Moghbazar, Dhaka-1217, Bangladesh</p> <p>(51) INT. CL. : B60R 25/30</p> <p>(54) Invention Title: VALUATION SYSTEM OF GAME EVENTS AND VALUATION METHOD PERFORMED THEREBY</p> <p>(57) Abstract The present invention is a valuation system of game events and a valuation method performed thereby, and in order to provide a contest game for a plurality of players to play, the valuation system includes a data storage unit, an item selection unit, a plurality of user units, a data calculation unit and a central processing unit; and a program of the valuation method includes a creating contest program, a joining contest program, a creating rating item program, a selecting member program, a waiting contest program, an acquiring data program, and a calculating ranking program.</p>
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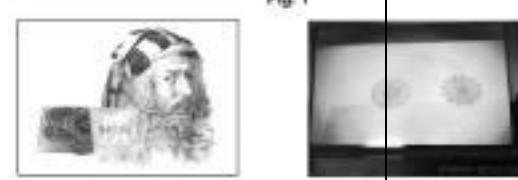




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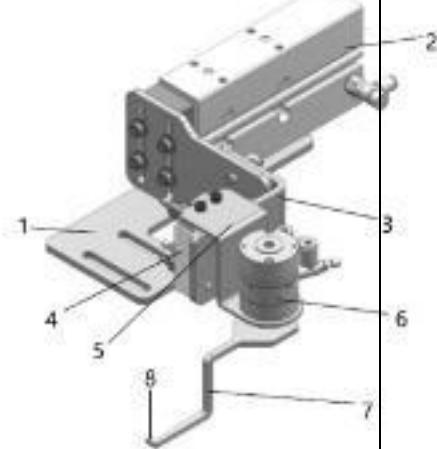
(11) Patent registration No and date , (21) Appl. No. BD-P-2024-98 (22) Filed: 08/04/2024 (23) Priority Data: European Patent Office (EPO), Number :231677550, Date : 13-04-2023. (71) Applicant: SICPA HOLDING SA of Avenue de Florissant 41 1008 Prilly, Nationality -Switzerland (72) Inventors: (0) VEYA, Patrick of Ruelle du Bout-du-Coin 6a, 1123 Aclens, Switzerland Nationality -Switzerland, (1) LOPEZ SANCHEZ, Lazaro of Rue des Fontaines 17, 1412 Valeyres-sous-Ursins, Switzerland Nationality - Switzerland (74) Agent : Advanced IP Law Firm, Suite#9/C (9th Floor), Fahima Tower, 42-43, Purana Paltan, Dhaka-1000, Bangladesh (51) INT. CL. : B60P 7/06 (54) Invention Title: SECURITY INKS AND MACHINE READABLE SECURITY FEATURES (57) Abstract The present invention relates to the field of security inks suitable for printing machine readable security features on substrate, security documents or articles as well as machine readable security feature made from said security inks, and security documents comprising a machine readable security feature made from said security inks. In particular, the invention provides security inks comprising one or more IR absorbing materials wherein said security ink allows the production of a machine readable security feature
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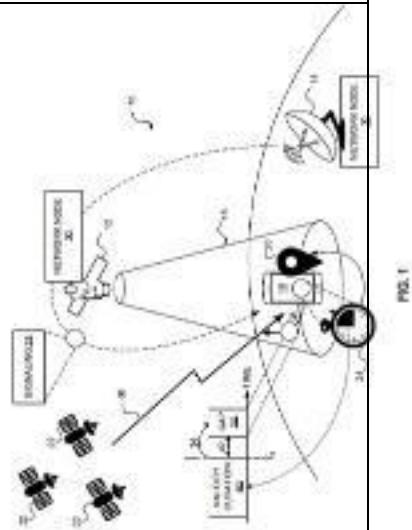
<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-99 (22) Filed: 08/04/2024 (23) Priority Data: China, Number :2023208330273, Date : 14-04-2023. (71) Applicant: LAKSHMI MACHINE WORKS LTD of Perianaickenpalayam, SRK Vidyalaya Post, Coimbatore-641020, Tamil Nadu, Nationality -India (72) 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, 56, NEW ESKATON ROAD 4TH FLOOR, DHAKA-1000, DHAKA, Bangladesh (51) INT. CL. : F16L 47/32 (54) Invention Title: A Yarn Lead-in Device for Automatic Piecing Units. (57) Abstract The present utility model discloses a yarn lead-in device for automatic piecing units, belongs to the field of textile equipment. The yarn lead-in device comprises a horizontal drive unit arranged on a mounting plate. The horizontal drive unit drives a vertical drive unit to move horizontally. The vertical drive unit drives a rotary drive unit to move vertically. The rotary drive unit drives a rocker arm to rotate. The yarn lead-in device designed in the present application can ensure that the rocker arm moves in the direction of the spindle through the horizontal drive unit during operation, while using the vertical drive unit to move in the vertical direction and using the rotary drive unit to piece yarns. At the same time, the improved installation layout of the rocker arm of the yarn lead-in device provides a higher positioning accuracy for automatic yarn piecing, and also provides an improved rigid support for the rocker arm without any overhang length, thus to piece yarns quickly and accurately through the device to improve the piecing efficiency of the automatic piecing unit.</p>
 <p>Figure 1</p>



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Publication No: 26 & Date: 10 December 2025

<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-100 (22) Filed: 08/04/2024 (23) Priority Data: United States of America, Number :63457914, Date : 07-04-2023. (71) Applicant: Telefonaktiebolaget LM Ericsson (Publ) of SE-164 83 Stockholm, Nationality -Sweden (72) Inventors: (0) Talha KHAN of 2755 Augustine Drive 95054 SANTA CLARA California, United States of America Nationality -Pakistan, (1) Johan RUNE of Terrängvägen 12 SE-181 29 LIDINGÖ, Sweden Nationality - Sweden (74) Agent : REMFRY & SON LIMITED, 56, NEW ESKATON ROAD 4TH FLOOR, DHAKA-1000, DHAKA, Bangladesh (51) INT. CL. : G01S 5/02 (54) Invention Title: GEOPositioning MEASUREMENT GAPS (57) Abstract A communication device (18) is configured for use in a communication network (10). The communication device (18) performs a geopositioning measurement (38) during a geopositioning measurement gap (50) triggered by expiration of a validity duration (40) for which a geopositioning fix (20) or timing advance of the communication device (18) is valid. The communication device (18) obtains a geopositioning fix (20) of the communication device (18) using a result of the geopositioning measurement (38).</p>
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গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-106 (22) Filed: 16/04/2024 (23) Priority Data: India, Number :202311027881, Date : 17-04-2023. (71) Applicant: CLICKZY CREATIVE TECHNOLOGIES PRIVATE LIMITED of B-92, Vallabh Nagar, Kota-324007, Rajasthan, Nationality -India (72) Inventors: (0) Jitender Singh of Clickzy Creative Technologies Pvt. Ltd, B-92, Vallabh Nagar, Kota-324007, Rajasthan, India Nationality -India, (1) Krupal Variya of Clickzy Creative Technologies Pvt. Ltd, B-92, Vallabh Nagar, Kota-324007, Rajasthan, India Nationality -India (74) Agent : REMFRY & SON LIMITED, 56, NEW ESKATON ROAD 4TH FLOOR, DHAKA-1000, DHAKA, Bangladesh (51) INT. CL. : G01P 3/50 (54) Invention Title: Communicable Linear Measurement Device with Precision (57) Abstract A linear measurement device (100) comprising a printed circuit assembly (180) having a plurality of navigation buttons (200), a display (155), a computer program residing in a micro-controller, the printed circuit assembly (180) disposed in a cover (160), a casing (110) having an integrated bobbin shaft (120) and a rim (119), a measuring strip (102), the linear measuring device (100) measures a linear dimension in a first measurement manner and in a second measurement manner, wherein, the first measurement manner is a linear measurement and the second measurement means is an angular measurement, the linear measurement device (100) is configured to display and communicate a linear measure by the first measurement manner between any two markers and an angular measure by the second measurement manner between every two markers, the linear measurement device (100) is configured for a 2-way communication and configurable to form a group mesh.</p>

Figure 1



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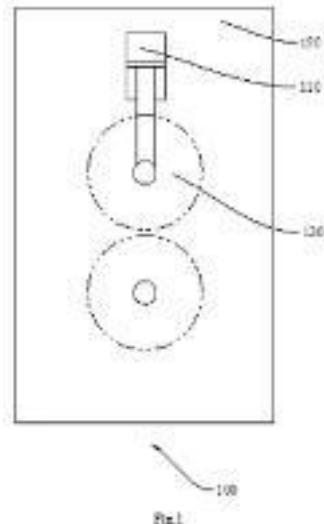
(11) Patent registration No and date , (21) Appl. No. BD-P-2024-107 (22) Filed: 16/04/2024 (23) Priority Data: Republic of Korea, Number :1020230051258, Date : 19-04-2023. (71) Applicant: CJ CHEILJEDANG CORPORATION of 330, Dongho-ro, Jung-gu, Seoul 04560, Nationality - Republic of Korea (72) Inventors: (0) PARK, Seul-Gi of 330, Dongho-ro, Jung-gu, Seoul 04560, Republic of Korea Nationality -Republic of Korea, (1) JUNG, Moo Young of 330, Dongho-ro, Jung-gu, Seoul 04560, Republic of Korea Nationality -Republic of Korea, (2) PARK, Soe-hee of 330, Dongho-ro, Jung-gu, Seoul 04560, Republic of Korea Nationality -Republic of Korea, (3) LEE, Sumin of 330, Dongho-ro, Jung-gu, Seoul 04560, Republic of Korea Nationality -Republic of Korea (74) Agent : Rana & Associates, Nipobon Asgar Garden, 462, Green Way, Flat No. A/2, (2nd Floor), Moghbazar, Dhaka-1217, Bangladesh (51) INT. CL. : C12P 13/22 (54) Invention Title: MICROORGANISM FOR PRODUCING L-TRYPTOPHAN AND METHOD FOR PRODUCING L-TRYPTOPHAN USING THE SAME (57) Abstract The present disclosure relates to a microorganism of the genus <i>Corynebacterium</i> having an L-tryptophan-producing ability, into which pyruvate, phosphate dikinase derived from <i>Komagataeibacter xylinus</i> or a polynucleotide encoding the same is introduced; a method for producing L-tryptophan, comprising culturing the microorganism in a medium; a composition for producing L-tryptophan, comprising the microorganism, a culture product of the microorganism, a fermented product of the microorganism, or a combination of two or more thereof; and the use of the microorganism for the production of L-tryptophan.



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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-108 (22) Filed: 18/04/2024 (23) Priority Data:</p> <p>(71) Applicant: FOSHAN HENGLITAI MACHINERY CO., LTD. of F4, No. 25, Zone C, Sanshui Central Hi-tech Industrial Park, Sanshui District Foshan, Guangdong 528137, Nationality -China</p> <p>(72) Inventors: (0) WEN, Yizhang of F4, No. 25, Zone C, Sanshui Central Hi-tech Industrial Park, Sanshui District Foshan, Guangdong 528137, China Nationality -China, (1) QIU, ZhaoWu of F4, No. 25, Zone C, Sanshui Central Hi-tech Industrial Park, Sanshui District Foshan, Guangdong 528137, China Nationality -China, (2) CHEN, Yanlin of F4, No. 25, Zone C, Sanshui Central Hi-tech Industrial Park, Sanshui District Foshan, Guangdong 528137, China Nationality -China, (3) LIU, ZhiYu of F4, No. 25, Zone C, Sanshui Central Hi-tech Industrial Park, Sanshui District Foshan, Guangdong 528137, China Nationality -China, (4) CHEN, ChangHua of F4, No. 25, Zone C, Sanshui Central Hi-tech Industrial Park, Sanshui District Foshan, Guangdong 528137, China Nationality -China</p> <p>(74) Agent : Best IP Law Associates, 253/E, Comisionar Road, West Agargong, Sher-e-Bangla Nogor Dhaka-1207, Bangladesh</p> <p>(51) INT. CL. : E01C 19/29</p> <p>(54) Invention Title: Structure for Applying Pressure on Pressing Rollers and Roll-press Apparatus</p> <p>(57) Abstract Provided in the present invention is a structure for applying pressure on pressing roller, including two pressing rollers, oppositely provided on the frame, at least one pressing roller being slidably provided relative to the frame; a first pressing-roller base and a second pressing-roller base, the first pressing-roller base provided on one pressing roller, the second pressing-roller base provided on another pressing roller; and a compacting cylinder, including a cylinder provided on the first pressing-roller base and a piston rod slidably provided on the cylinder, the piston rod extending out of the cylinder to connect to the second pressing-roller base. In such a setup, the structure may provide power for the movement of pressing rollers and apply a pressure to two pressing rollers; the pressure may not be transferred to the frame directly, which reduces the requirements of structural strength of the frame, so as to reduce the processing difficulty and the cost of the frame, thereby reducing the fluctuation of pressure between two pressing rollers, wherein the relative gap between two pressing rollers may also be adjusted. Provided further in the present invention is a roll-press apparatus, including a frame and the structure for applying pressure on pressing roller mentioned above, wherein the frame not adopting integral process also suffices the requirements of the structural strength, so as to lead to a more convenient installation of pressing rollers.</p>
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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-109
(22) Filed: 18/04/2024
(23) Priority Data:
(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-I-Khuda road, Dhanmondi, Dhaka-1205, Nationality -Bangladesh
(72) Inventors: (0) Md. Lutfor Rahman, Senior Scientific Officer of Institute of Glass and Ceramic Research and Testing (IGCRT), BCSIR, Dhanmondi, Dhaka-1205 , Bangladesh Nationality -Bangladesh, (1) Moksodur Rahman, Research Fellow of Institute of Glass and Ceramic Research and Testing (IGCRT), BCSIR, Dhanmondi, Dhaka-1205 , Bangladesh Nationality -Bangladesh, (2) Bristy Biswas, Scientific Officer of Institute of Glass and Ceramic Research and Testing (IGCRT), BCSIR, Dhanmondi, Dhaka-1205 , Bangladesh Nationality -Bangladesh, (3) Md. Farid Ahmed, Scientific Officer of Institute of Glass and Ceramic Research and Testing (IGCRT), BCSIR, Dhanmondi, Dhaka-1205 , Bangladesh Nationality -Bangladesh, (4) Shirin Akter Jahan, Principal Scientific Officer of Institute of Glass and Ceramic Research and Testing (IGCRT), BCSIR, Dhanmondi, Dhaka-1205 , Bangladesh Nationality -Bangladesh, (5) Nahid Sharmin, Chief Scientific Officer of BCSIR Dhaka Laboratories, BCSIR, Dhanmondi, Dhaka-1205 , Bangladesh Nationality -Bangladesh
(51) INT. CL. : G01N 21/81
(54) Invention Title: Fabrication of novel g-C3N4/Zn0.5Ni0.5Fe1.8Mn0.2O4/rGO ternary nanocomposite for humidity sensing
(57) Abstract This research focuses on the fabrication of novel g-C3N4/Zn0.5Ni0.5Fe1.8Mn0.2O4/rGO ternary nanocomposites with a weight ratio 3:10:1 for humidity sensing applications. The integration of graphene-based nanomaterials (rGO), mixed spinel ferrite nanoparticles (Zn0.5Ni0.5Fe1.8Mn0.2O4), and carbon nitride (g-C3N4) in a ternary configuration aims to exploit their distinct properties synergistically, enhancing humidity sensing capabilities. The study involves the synthesis process, structural characterization, and evaluation of humidity sensing performance. The fabricated nanocomposites exhibit promising results, showing sensitivity to varying humidity levels (RH 11-98%). The investigation into the nanoscale interactions between different components seeks to elucidate the mechanisms underlying the enhanced sensing properties, with potential applications in environmental monitoring, healthcare, and consumer electronics.



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(11) Patent registration No and date ,

(21) Appl. No. BD-P-2024-112

(22) Filed: 18/04/2024

(23) Priority Data:

India, Number :202341033306, Date : 11-05-2023.

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

(72) Inventors: (0) Nihar Ranjan JENA of 1007, C-Block, Desai Radian Apartment, 4th Cross Ambedkar Nagar, Whitefield, Bangalore, 560066, India Nationality -India, (1) Umur KARABULUT of Murnauer str. 122a, Munich, 81379, Germany Nationality -Turkey, (2) Srinivasan SELVAGANAPATHY of Manyata Embassy Business Park, Bangalore, 560045, India Nationality -India, (3) Prasna Kumar SAHU of House No 1, 3rd B Cross, Gururaja Layout, Doddanekkundi, Bangalore, 560037, India Nationality -India

(74) Agent : REMFRY & SON LIMITED, 56, NEW ESKATON ROAD 4TH FLOOR, DHAKA-1000, DHAKA, Bangladesh

(51) INT. CL. : H04W 48/18

(54) Invention Title: CELL CHANGE INCELLULAR COMMUNICATION NETWORKS

(57) Abstract

According to an example aspect of the present disclosure, there is provided a method comprising, receiving a reference configuration from a wireless network node, wherein the reference configuration is for an intra secondary node cell change and for an inter secondary node cell change, performing the intra secondary node cell change using the reference configuration and an intra secondary node cell change delta configuration and performing the inter secondary node cell change using the reference configuration and an inter secondary node cell change delta configuration.



FIG. 1



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(11) Patent registration No and date , (21) Appl. No. BD-P-2024-113 (22) Filed: 18/04/2024 (23) Priority Data: India, Number :202311028697, Date : 20-04-2023. (71) Applicant: KANIKA KHURANA of 418/8, Julaha Chowk, salara mohalla, Rohtak, Haryana 124001, Nationality - India (72) Inventors: (0) KANIKA KHURANA of 418/8, Julaha Chowk, salara mohalla, Rohtak, Haryana 124001, India Nationality -India (74) Agent : IP Conservator, Ka-211/1A, Boatghat Namapara, Khilkhet, Dhaka-1229, Bangladesh (51) INT. CL. : C09D 5/14 (54) Invention Title: SYNERGISTIC INSECTICIDAL COMPOSITION (57) Abstract The present invention relates to a synergistic insecticidal composition comprising (A) Isoxazoline insecticide selected from Fluxametamide or Isocycloseram or its agrochemically acceptable salts, esters or its derivatives; (B) Flonicamid or its agrochemically acceptable salts, esters or its derivatives; (C) Abamectin or its agrochemically acceptable salts, esters or its derivatives. The present invention further relates to process of preparing said synergistic insecticidal composition and formulations thereof.



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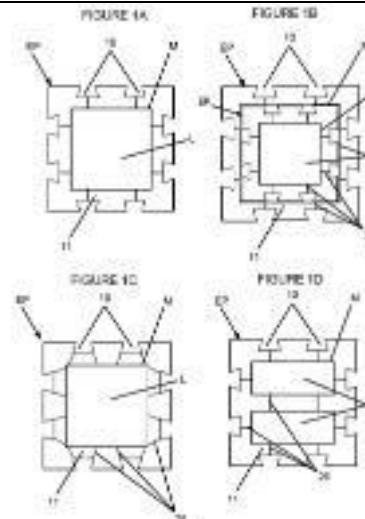
<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-114 (22) Filed: 21/04/2024 (23) Priority Data: United Kingdom, Number :23061575, Date : 26-04-2023. (71) Applicant: B Medical Systems S.à r.l. of 17, op der Hei, L - 9809 Hosingen, Nationality -Luxembourg (72) Inventors: (0) Simone Antonio BRUNO of 17, op der Hei, L - 9809 Hosingen, Luxembourg Nationality -Italy, (1) Mario LENTZ of 17, op der Hei, L - 9809 Hosingen, Luxembourg Nationality -Belgium (74) Agent : REMFRY & SON LIMITED, 56, NEW ESKATON ROAD 4TH FLOOR, DHAKA-1000, DHAKA, Bangladesh (51) INT. CL. : F25D 3/00 (54) Invention Title: COLD STORAGE DEVICE</p>
<p>(57) Abstract An RFID enabled cold storage device, notably a vaccine storage device, has a cold storage compartment separated from an ice lining by a thermal barrier. The thermal barrier comprises a layer of thermal insulation material and a planar temperature distributing metal sheet, with the planar temperature distributing metal sheet providing an RFID antenna.</p>



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(11) Patent registration No and date , (21) Appl. No. BD-P-2024-115 (22) Filed: 22/04/2024 (23) Priority Data: Switzerland, Number :4192023, Date : 22-04-2023. and Switzerland, Number :4382023, Date : 26-04-2023. (71) Applicant: UHCS Property SA of Ch de Champ-au-Rey 11Rue, 1673, Switzerland (72) Inventors: (0) Ustinov Igor of Champ-au-Rey 11,1673 Fribourg, Switzerland Nationality -Switzerland (74) Agent : H & H COMPANY, Shareef Mansion (Second Floor), 56-57, Motijheel C/A, Dhaka-1000, Bangladesh (51) INT. CL. : E04B 1/348 (54) Invention Title: Building construction system with assemblable hollow load-bearing elements and manufacturing method (57) Abstract The invention proposes a building construction system, with assemblable hollow load-bearing elements, comprising a plurality of load-bearing elements, as beams, posts, joists, each load-bearing element having a polyhedral shape, extending along a longitudinal axis between two open ends defining a peripheral wall comprising four side faces in the shape of parallelograms, two of the four side faces include two recesses longitudinal in the form of grooves extending parallel to the longitudinal axis between two open ends, said recesses having dimensions outside of said peripheral wall which are less than their dimensions inside the peripheral wall, to form female means capable of accommodating male means of another element of a construction system, said load-bearing element comprising a housing extending from one of said open ends to the other to form a sleeve capable of accommodating at least one other structural or reinforcing element of the construction system.
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(11) Patent registration No and date ,

(21) Appl. No. BD-P-2024-116

(22) Filed: 23/04/2024

(23) Priority Data:

China, Number :2023094061, Date : 12-05-2023.

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

(72) Inventors: (0) Lei DU of Xianglinjun 5-1-501, Haidian District., Beijing, 100085, China Nationality -China, (1) Lars DALSGAARD of Torpantie 56, Oulu, 90230, Finland Nationality -Denmark, (2) Petri Juhani VASENKARI of Vesivuotavantie 4, Turku, 20250, Finland Nationality -Finland, (3) Yue Ji CHEN of TaiyangGuoji Gongyu 3-1-710, Weiye Road, Binjiang District., Hangzhou, 310051, China Nationality -China

(74) Agent : REMFRY & SON LIMITED, 56, NEW ESKATON ROAD 4TH FLOOR, DHAKA-1000, DHAKA, Bangladesh

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

(54) Invention Title: USER EQUIPMENT ARCHITECTURE ADAPTATION FOR INTRA-BAND SCENARIOS.

(57) Abstract

Embodiments of the present disclosure relate to devices, methods, apparatuses and computer readable storage media of user equipment (UE) architecture adaptation for intra-band scenarios. The method comprises determining, at a terminal device, an operating architecture type of the terminal device, wherein the terminal device is served by a first cell and at least one second cell in an intra-band operation; and applying at least one Radio Resource Management (RRM) requirement based on the determined operating architecture type of the terminal device.

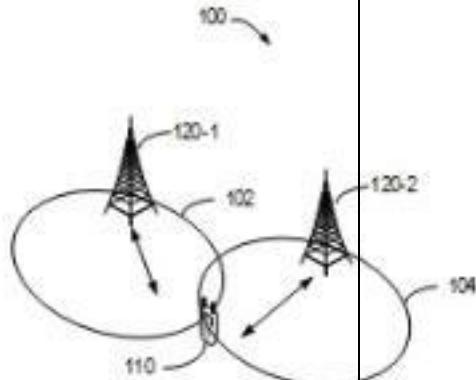


FIG. 1



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(22) Filed: 23/04/2024

(23) Priority Data:

(71) Applicant: BANGLADESH COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (BCSIR) of DR. QUDRAT-I-KHUDA ROAD, DHANMONDI, DHAKA-1205, Nationality -Bangladesh

(72) Inventors: (0) MD. RIPAJ UDDIN, SO of BCSIR KHANJANPUR, JOYPURHAT-3900, Bangladesh Nationality -Bangladesh, (1) MOHAMMAD NAZIM ZAMAN, CSO of BCSIR KHANJANPUR, JOYPURHAT-3900, Bangladesh Nationality -Bangladesh, (2) MD. AMINUR RAHMAN, PSO of BCSIR KHANJANPUR, JOYPURHAT-3900, Bangladesh Nationality -Bangladesh, (3) MD. MEHEDI HASAN, SO of BCSIR KHANJANPUR, JOYPURHAT-3900, Bangladesh Nationality -Bangladesh, (4) SHAHANAZ SULTANA, SO of BCSIR KHANJANPUR, JOYPURHAT-3900, Bangladesh Nationality -Bangladesh

(51) INT. CL. : A61K 9/00

(54) Invention Title: Production of Low-fat and Nutrient Rich Jam, Jelly and Pickle from S.apetala Fruit

(57) Abstract

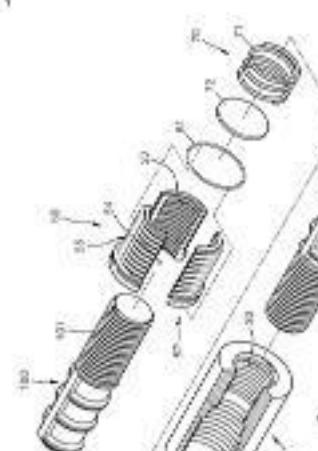
The invention reveal nutritional, vitamin, and mineral content in Sonneratia apetala's jam, jelly, and pickles from Nijhum Dwip in Hatiya upazila, Noakhali district. Jam, jelly, pickles, and S. apetala fruits products were analyzed using the APHA 2018 technique. The invention contained Na, Mg, K, Ca, Mn, Fe, Cu, and Zn. Minerals are vital for human nutrition. Each sample was evaluated for salinity, pH, and vitamin C. The taste and preservation of the products depend on salinity and pH. Trace quantities of Cd, Cr, Pb, and Hg were found to be substantially below safe consumption limits. The F-, Cl-, SO₄2-, soluble and total PO₄3-concentrations were found below safety limits. The moisture, ash, protein, fat, fiber, pectin, sugar, carbohydrate, and calories value reveal the dietary benefits and energy content of these products. The invention revealed higher vitamin C and mineral levels in Sonneratia apetala jam, jelly, and pickles compared to other citrus fruits. All parameters met safe consumption limits, ensuring the safety of the products. These products were tested for total coliform, faecal coliform, E. coli, Vibrio sp., Salmonella sp., and Shigella sp. to guarantee their safety. The one-year shelf life also improved product quality. Applying this technology to grassroots jam, jelly, and pickle making has the potential to boost the local economy by attracting many people.





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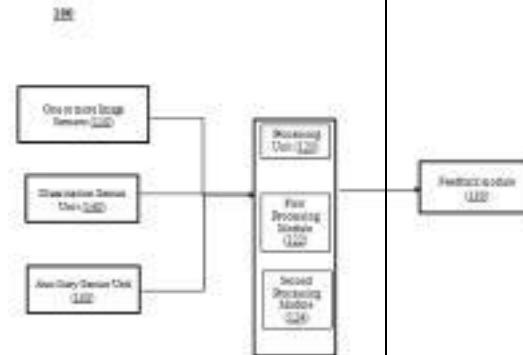
(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-118
(22) Filed: 24/04/2024
(23) Priority Data:
(71) Applicant: YANG, Hyun Min of 105-703, 11, Yulha 5-ro, Gimhae-si Gyeongsangnam-do 51023, Nationality - Republic of Korea, YANG, Ji Seong of 678-31, Gujeol-ro, Donghae-myeon, Goseong-gun, Gyeongsangnam-do 52918, Nationality -Republic of Korea, ROC CO., LTD of 100-74, Gwahaksandan 2-ro 19beon-gil, Gangseo- gu, Busan 45742, Nationality -Republic of Korea
(72) Inventors: (0) YANG, Hyun Min of 105-703, 11, Yulha 5-ro, Gimhae-si Gyeongsangnam-do 51023, Republic of Korea Nationality -Republic of Korea, (1) YANG, Ji Seong of 678-31, Gujeol-ro, Donghae-myeon, Goseong-gun, Gyeongsangnam-do 52918, Republic of Korea Nationality -Republic of Korea
(74) Agent : REMFRY & SON LIMITED, 56, NEW ESKATON ROAD 4TH FLOOR, DHAKA-1000, DHAKA, Bangladesh
(51) INT. CL. : B23G 3/10
(54) Invention Title: ONE-TOUCH THREADED REBAR COUPLER WITH THREAD PITCH ALIGNMENT
(57) Abstract A one-touch threaded rebar coupler capable of thread pitch alignment according to the present invention includes a coupler main body in which a first main body threaded portion is formed on an inner peripheral surface on one side of a hollow part formed in a longitudinal direction of the coupler main body and a second main body threaded portion is formed on an inner peripheral surface on the other side of the hollow part; and a first screw phase difference correction unit including a plurality of first phase difference correction pieces arranged in a circumferential direction, wherein a first rebar coupling portion in which a first rebar threaded portion of a first rebar is inserted and screw-engaged is formed by the first phase difference correction pieces, and wherein outer peripheral surfaces of the first phase difference correction pieces are formed with first outer correction threaded portions configured to couple with the first main body threaded portion and formed to have a pitch relatively larger than a pitch of threads of the first rebar threaded portion so that when coupling the first rebar coupling portion and the first rebar threaded portion, the first phase difference correction pieces are expanded to enable insertion by insertion of the first rebar threaded portion, and then, the first phase difference correction pieces are brought into close contact with the first rebar threaded portion for screw engagement by an elastic support means installed in the coupler main body.




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Publication of Filed Patent Application
Publication No: 26 & Date: 10 December 2025

<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-119 (22) Filed: 25/04/2024 (23) Priority Data: India, Number :202341045515, Date : 06-07-2023.</p> <p>(71) Applicant: TVS Motor Company Limited of Chaitanya, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai-600 006, Tamil Nadu, Nationality -India</p> <p>(72) Inventors: (0) SUMEET SHEKHAR of TVS Motor Company Limited, "Chaitanya", No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai - 600 006, Tamil Nadu, India Nationality -India, (1) RAJAN SIPPY of TVS Motor Company Limited, "Chaitanya", No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai - 600 006, Tamil Nadu, India Nationality -India, (2) NARESH ADEPU of TVS Motor Company Limited, "Chaitanya", No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai - 600 006, Tamil Nadu, India Nationality -India, (3) ATHARVA KADETHANKAR of TVS Motor Company Limited, "Chaitanya", No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai - 600 006, Tamil Nadu, India Nationality -India, (4) MANISH SHARMA of TVS Motor Company Limited, "Chaitanya", No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai - 600 006, Tamil Nadu, India Nationality -India, (5) SIDDAPURA NAGARAJU PRASHANTH of TVS Motor Company Limited, "Chaitanya", No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai - 600 006, Tamil Nadu, India Nationality -India</p> <p>(74) Agent : Rana & Associates, Nipobon Asgar Garden, 462, Green Way, Flat No. A/2 (2nd Floor), Moghbazar, Dhaka-1217., Bangladesh</p> <p>(51) INT. CL. : B60W 10/08</p> <p>(54) Invention Title: A System for Monitoring a Wearable Safety Gear in a Vehicle and a Method thereof</p> <p>(57) Abstract The present invention provides a system (100) and a method (200) for monitoring a wearable safety gear in a vehicle. The system (100) comprises one or more image sensors (110) configured to capture real time images of a user riding the vehicle; and a processing unit (120) configured to receive the real time images of the user. The processing unit has one or more processing modules configured to determine one or more conditions of a user in relation to the wearable safety gear. The system (100) has a feedback module (130) configured to receive an input from the processing unit (120) if any one of the conditions of the user in relation to the wearable safety gear is true, and the feedback module (130) being configured to generate an output command.</p>
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Publication No: 26 & Date: 10 December 2025

<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-120 (22) Filed: 25/04/2024 (23) Priority Data: Brazil, Number :1020230078532, Date : 25-04-2023. and Brazil, Number :1020240079035, Date : 22-04-2024. (71) Applicant: GAVEA TECH LTDA. of Rua JJ Seabra 14 casa 2, 22470-130, Rio de Janeiro, RJ, Nationality -Brazil (72) Inventors: (0) JOSE CARLOS D'ABREU of Av das Americas 8888, bl 9, 202, 22793-081, Rio de Janeiro, RJ, Brazil Nationality -Brazil, (1) MARCOS DE ALBUQUERQUE CONTRUCCI of Caminho do Sertão, 1140, 20531-550, Rio de Janeiro, RJ, Brazil Nationality -Brazil (74) Agent : Associate Intellectual Property Law Firm (AIPLF), Chameli bagh no-1, 9th floor, Romna, Shantinagar, Dhaka , Bangladesh (51) INT. CL. : F27B 1/00 (54) Invention Title: ORE REDUCTION AND SMELTING PROCESS, REACTOR, AND GAS DEFLECTOR AND LOAD DESCENT REGULATOR</p>
<p>(57) Abstract The present invention pertains to a reactor and a process for producing metals and alloys from their natural or residual compounds in the form of self-reducing briquettes of oxidized metallic compounds, such as those of the metals chromium, nickel, iron, copper, manganese, etc., plus appropriately dosed carbonaceous reducers, also containing fluxes for the gangue of metallic compounds, and binders to provide resistance to the reduction temperature of each metal or alloy. Carbonaceous briquettes of different degrees of carbonization, of fossil origin or biomass, planted or from industrial, agricultural, or urban waste, will generate energy for the process. The reactor has a cylindrical casing with a load distributor at the top. A vertical loading column takes the carbonaceous briquettes for burning through at least one lower circle of tuyeres, injecting preheated air or not, with up to 100% O₂ or not, plus solid, liquid, or gaseous fuels, or not, and may or not to inject solids, liquids, or gases of any nature.</p>

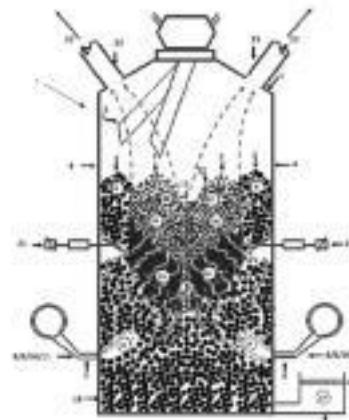


Fig. 1



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(11) Patent registration No and date , (21) Appl. No. BD-P-2024-121 (22) Filed: 28/04/2024 (23) Priority Data: United States of America, Number :63462699, Date : 28-04-2023. (71) Applicant: CleanKore, LLC of 616 Dover Center Road, Suite 104, Bay Village, Ohio 44140, Nationality -United States of America (72) Inventors: (0) Darryl J. COSTIN, JR of 186 Plymouth Drive Bay Village, OH 44140, United States of America Nationality -United States of America, (1) Alpesh PATEL of C 302, Sahjanand Avenue, Near A. E. C. Office Sola Road, Naranpura, Ahmedabad, Gujarat, 380013, India Nationality -India (74) Agent : REMFRY & SON LIMITED, 56, NEW ESKATON ROAD 4TH FLOOR, DHAKA-1000, DHAKA, Bangladesh (51) INT. CL. : D06P 1/22 (54) Invention Title: IMPROVED INDIGO AND RING DYEING PROCESS USING SULFUR DYE AS BARRIER, AND MATERIAL PRODUCED THEREBY. (57) Abstract A method of ring dyeing a yarn includes the steps of providing a cellulosic yarn chosen from the group consisting of open-end yarns and ring yarns. The yarn is immersed in only one sulfur dye box, the sulfur dye box having a sulfur concentration of 1 to 50 grams/liter. The yarn is skyed for less than 30 seconds after removal from the sulfur dye box. The yarn is rinsed in water after skying. The yarn is dyed in an indigo dye bath, with the indigo dye bath maintained at a pH of 10.8 and 12.8. The yarn is skyed after removal from the indigo dye box.
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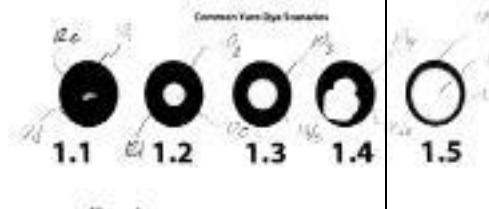


Figure 1



গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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(11) Patent registration No and date , (21) Appl. No. BD-P-2024-122 (22) Filed: 28/04/2024 (23) Priority Data: United States of America, Number :63462699, Date : 28-04-2023. (71) Applicant: CleanKore, LLC of 616 Dover Center Road, Suite 104, Bay Village, Ohio 44140, Nationality -United States of America (72) Inventors: (0) Darryl J. COSTIN, JR of 186 Plymouth Drive Bay Village, OH 44140, United States of America Nationality -United States of America, (1) Alpesh PATEL of C 302, Sahjanand Avenue, Near A. E. C. Office Sola Road, Naranpura, Ahmedabad, Gujarat, 380013, India Nationality -India (74) Agent : REMFRY & SON LIMITED, 56, NEW ESKATON ROAD 4TH FLOOR, DHAKA-1000, DHAKA, Bangladesh (51) INT. CL. : D06P 1/22 (54) Invention Title: IMPROVED INDIGO AND RING DYEING PROCESS USING HIGH CONCENTRATION OF CAUSTIC AND MATERIAL PRODUCED THEREOF (57) Abstract A method of ring dyeing a yarn comprises a series of steps, including providing a yarn chosen from the group consisting of open-end yarns and ring yarns. The yarn is immersed for between 7 to 40 seconds in a caustic bath having a caustic concentration of 50 to 175 g/l. The yarn is skinned after removal from the caustic bath. The yarn is rinsed in water after skinning. The yarn is chosen from one of open-end yarn and ring yarn and is dyed in only one sulfur dye box when the yarn is open-end yarn and ring yarn or is dyed at least one indigo dye box when the yarn is open-end yarn. The yarn is washed in water after the dyeing step and thereafter the dyed yarn is dried.

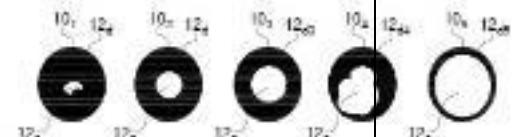
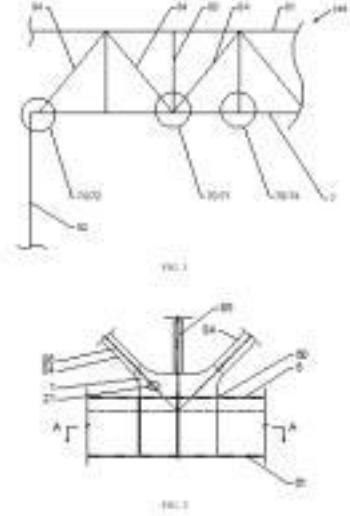


FIG. 1



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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-123 (22) Filed: 28/04/2024 (23) Priority Data: China, Number :2023104785128, Date : 28-04-2023. and China, Number :2023107988745, Date : 30-06-2023. (71) Applicant: MCC Capital Engineering & Research Incorporation Limited of No.7 Jian'an St., Beijing Economic-Technological Development Area, Beijing, Nationality -China (72) Inventors: (0) He ZHAO of No.7 Jian'an St., Beijing Economic-Technological Development Area, Beijing, China Nationality -China, (1) Chao DONG of No.7 Jian'an St., Beijing Economic-Technological Development Area, Beijing, China Nationality -China, (2) Zhongyan GUO of No.7 Jian'an St., Beijing Economic-Technological Development Area, Beijing, China Nationality -China, (3) Jiangtao FAN of No.7 Jian'an St., Beijing Economic-Technological Development Area, Beijing, China Nationality -China (74) Agent : BENGAL IP SERVICES, Ka-14/1,Kalachandpur,Gulshan,Dhaka-1212, Bangladesh (51) INT. CL. : E04H 5/06 (54) Invention Title: CRANE TRUSS, MILL BUILDING STRUCTURE, AND LARGE-COLUMN-SPACING MILL BUILDING STRUCTURE (57) Abstract The invention provides a crane truss, a mill building structure and a large-column-spacing mill building structure. The crane truss includes an upper chord, a lower chord and a diagonal web member. The lower chord has a box-shaped cross section. The lower chord with the box-shaped cross section includes a lower-chord box-shaped wall plate, an upper flange plate, and a lower flange plate. A lower end of the diagonal web member is connected to a web member joint of the lower chord, and the web member joint includes at least two vertical joint plates extending along the lower-chord box-shaped wall plate. The upper flange plate is provided with a joint slot, and the vertical joint plates are inserted into the joint slot. The at least two vertical joint plates are spaced apart and a joint connecting cavity is provided therebetween. An end of the diagonal web member is extended into and fixedly connected to the joint connecting cavity.</p>




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Publication No: 26 & Date: 10 December 2025

<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-124 (22) Filed: 02/05/2024 (23) Priority Data:</p> <p>(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka – 1205, Nationality -Bangladesh</p> <p>(72) Inventors: (1) Dr. Umme Sarmeen Akhtar, Senior Scientific Officer of IGCRT, BCSIR, Dhaka-1205, Bangladesh Nationality -Bangladesh, (2) Md. Sagirul Islam, Senior Scientific Officer of IGCRT, BCSIR, Dhaka-1205, Bangladesh Nationality -Bangladesh</p> <p>(51) INT. CL. : A41D 31/102 (54) Invention Title: Development of Waterproofing admixture for cement and concrete</p> <p>(57) Abstract The invention aims to develop waterproofing admixtures for cement and concrete to improve their water resistance and durability. Concrete's porous nature allows water to penetrate, leading to deterioration, corrosion, and damage from freeze-thaw cycles. Various methods exist to address water permeability, but these have limitations, environmental hazards, and increased costs. The ideal admixture should offer improved water resistance, durability, compatibility, cost -effectiveness, and sustainability. The invention presents a novel waterproofing admixture that employs a unique mechanism to reduce concrete permeability, providing superior water resistance and long-lasting durability. It is cost-efficient, compatible with various cement types and concrete mix designs, and uses environmentally friendly materials. The resulting waterproofing admixture exhibits excellent water resistance when integrated into concrete, reducing water absorption and penetration significantly. The process involves a polymerization process involving butyl acrylate, methyl methacrylate, methyl acrylate, and alkyl benzene polyether sodium sulphonate.</p>

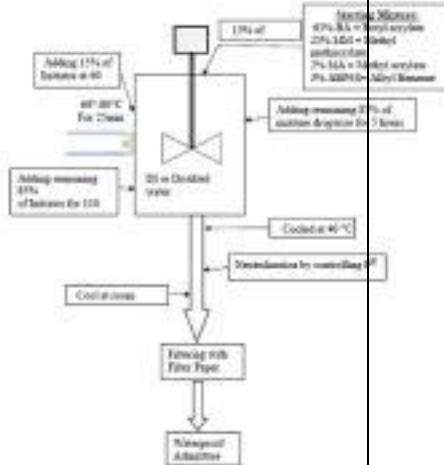


Fig. Flow diagram of production of waterproof admixture for the concrete mixture.



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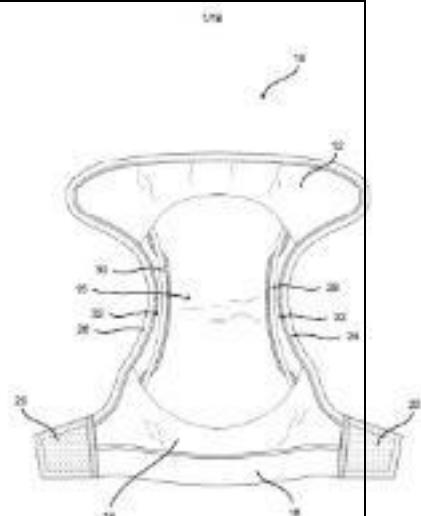
(11) Patent registration No and date ,	
(21) Appl. No. BD-P-2024-125	
(22) Filed: 02/05/2024	
(23) Priority Data:	
(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qrdarat-1-Khada Road, Dhaika-1205, Nationality -Bangladesh	
(72) Inventors: (1) Muhammad Ali Zinnah, Senior Engineer of Bangladesh Council of Scientific and Industrial Research, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (2) Rajata Suvra Chakrovorty, Senior Engineer, PP & PDC of Bangladesh Council of Scientific and Industrial Research, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (3) Md. Forhad Hossain, Senior Engineer, PP & PDC of Bangladesh Council of Scientific and Industrial Research, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (4) Md. Faruk Hossen, Senior Engineer, PP & PDC of Bangladesh Council of Scientific and Industrial Research, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (5) Dr. Most. Hosney Ara Begum, Director, PP & PDC of Bangladesh Council of Scientific and Industrial Research, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (6) Nahid Sharmin, Director of Laboratories, of Bangladesh Council of Scientific and Industrial Research, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (7) Md. Shofiqul Islam, Scientific Officer, PP & PDC of Bangladesh Council of Scientific and Industrial Research, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh	
(51) INT. CL. : G01N 30/16	
(54) Invention Title: Injection Mold for Metallic Memento	
(57) Abstract Metal craft is an ancient art-skill that has been handed down from generation to generation. It is a distinct kind of art where elegant and complex designs are made by shaping metals, which usually uses different metal crafting processes like forging, casting, enameling, etching, welding etc. Although these methods of metalworking to produce decorative and precious memento, souvenir, and other related products are still relevant today, they are however involved with a various number of drawbacks. For instance, to produce a high number of identical delicate components would results in less repeatability, provide less density which ultimately compromises the load-bearing capacity, provide poor dimensional consistency and accuracy, and poor working environment with high temperature, dust, and high labor intensity are some of the major limitations of these methods. As a matter of fact, any alternate but effective method that can eliminate these disbenefits would be a blessing for such kind of exquisite works. Bangladesh Council of Scientific and Industrial Research (BCSIR) has developed an injection mold that has some unique functionalities to produce flawless and accurate memento, souvenir, and related metal products. It allows to produce bulk quantities of identical products maintaining high accuracy, utmost density that provides a product to be rigid and durable, high repeatability which provides the guaranties of exact dimensional consistency and accuracy throughout the production process. The developed injection mold also drastically reduces the lead production time while it requires very limited human interactions due to its automatic injection, cooling and ejection processes manipulated by an automatic injection molding machine. After completing the production of each of the components from the developed mold, however, it is possible to enhance the quality and beautify them by implementing various methods of post processing.	



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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-126 (22) Filed: 02/05/2024</p> <p>(23) Priority Data: Australia, Number :2023901301, Date : 02-05-2023. and Australia, Number :2023051140, Date : 10-11-2023.</p> <p>(71) Applicant: Hanes Innerwear Australia Pty Ltd of Level 1, 115 Cotham Road, Kew, Victoria, 3101, Nationality - Australia</p> <p>(72) Inventors: (1) Kasey Doroszuk of C/O. Hanes Innerwear Australia Pty Ltd of Level 1, 115 Cotham Road, Kew, Victoria, 3101, Australia Nationality -Australia, (2) Phoebe Rofail of C/O. Hanes Innerwear Australia Pty Ltd, Level 1, 115 Cotham Road, Kew, Victoria, 3101, Australia Nationality -Australia, (3) Heidi Mellos of C/O. Hanes Innerwear Australia Pty Ltd of Level 1, 115 Cotham Road, Kew, Victoria, 3101, Australia Nationality -Australia, (4) Bronwyn Cheney of C/O. Hanes Innerwear Australia Pty Ltd of Level 1, 115 Cotham Road, Kew, Victoria, 3101, Australia Nationality -Australia</p> <p>(74) Agent : Bepary & Bapary , 68-69 Concept Tower, Suits # 5-B (4th Floor), Green Road, Dhaka-1205 , Bangladesh</p> <p>(51) INT. CL. : A41D 1/00</p> <p>(54) Invention Title: ABSORBENT GARMENT</p> <p>(57) Abstract A reusable absorbent garment (10) includes an absorbent substrate comprised of a plurality of absorbent layers (36) comprised substantially of a non-woven material of absorbent fibres, wherein each absorbent layer has a body region and a peripheral region bordering the body region. The body region of each absorbent layer (36) incorporates needleworked thread portions (55) formed from an absorbent material and distributed across at least the body region thereof, independently from the thread portions (55) in a body region of an adjacent absorbent layer (36).</p>

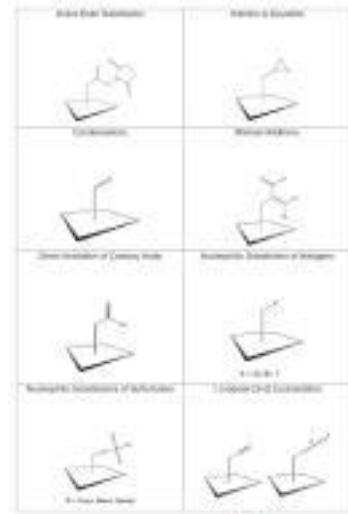




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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-127 (22) Filed: 02/05/2024 (23) Priority Data: European Patent Office (EPO), Number :231713157, Date : 03-05-2023. (71) Applicant: Eberhard Karls Universität Tübingen of Elfriede-Aulhorn-Str. 8, 72076 Tübingen, Nationality - Germany (72) Inventors: (0) HIRT, Mr. Bernhard of 72070 Tübingen, Germany Nationality -Germany, (1) FEIL, Mr. Gerhard of 72076 Tübingen, Germany Nationality -Germany, (2) KALBACHER, Mr. Hubert of 72070 Tübingen, Germany Nationality -Germany, (3) PIETRZIK, Mr. Nikolas of 72076 Tübingen, Germany Nationality -Germany, (4) GLEISER, Ms. Corinna of 72108 Rottenburg a. N., Germany Nationality -Germany, (5) JUST, Mr. Lothar of 72076 Tübingen, Germany Nationality -Germany (74) Agent : ADVOCATES INTELLECTUAL PROPERTY LAW ALLIANCE , 35/A Purana Paltan Line, VIP Road, Dhaka-1000, GPO Box No. 2500 Dhaka 1000, Bangladesh (51) INT. CL. : C07C 211/09 (54) Invention Title: Covalently bound diamines and their use (57) Abstract The invention provides a product of formula (I) with a diamine backbone, in particular a 1,3-diamino propane backbone, covalently bound to a substrate via a linker. The covalent bonding is via a primary or an acyclic secondary amino group of the diamine backbone, preferably of the 1,3-diamino propane backbone. The invention also relates to its preparation starting from a compound of formula (II) and the use of the product of formula (I) for interfering with the function and/or the structure of a polypeptide, preferably an enzyme. Preferably, the coupled diamine still provides biocidal activity. The products of formula (I) allow for an advantageous long-term stability and thus a reduced risk of leaching and undesired rinse-off of the diamine backbone and biocides, respectively.</p>
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পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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Publication of Filed Patent Application
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(11) Patent registration No and date ,

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Japan, Number :2023021417, Date : 08-06-2023.

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(74) Agent : REMFRY & SON LIMITED, 56, NEW ESKATON ROAD 4TH FLOOR, DHAKA-1000, DHAKA, Bangladesh

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

(54) Invention Title: FASTENER PART

(57) Abstract

A fastener part whose base material is pure zinc or a zinc alloy, which has practical corrosion resistance, has a small environmental burden, and is easy to recycle is provided. A fastener part includes a base material made of pure zinc or a zinc alloy, and a zirconium oxide coating covering at least a part of a surface of the base material.

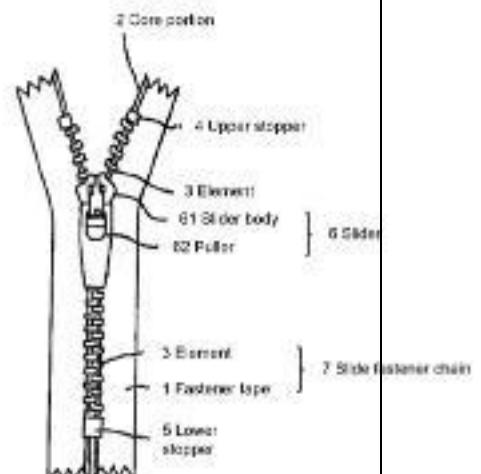


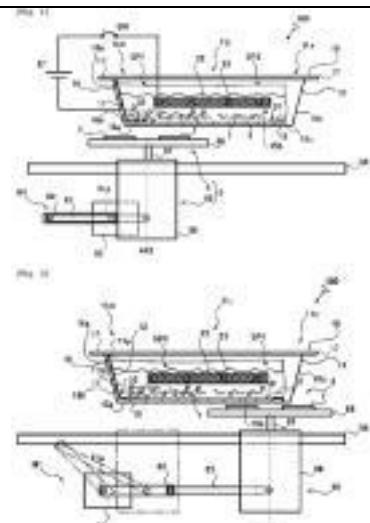
FIG. 1



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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-129 (22) Filed: 05/05/2024 (23) Priority Data: Japan, Number :2023033443, Date : 13-09-2023.</p> <p>(71) Applicant: YKK CORPORATION of 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Nationality -Japan (72) Inventors: (1) IIMORI, Masayuki of c/o YKK CORPORATION, 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Japan Nationality -Japan, (2) HAIZUKA, Yuhei of c/o YKK CORPORATION, 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Japan Nationality -Japan, (3) MURAKUSHI, Tomoya of c/o YKK CORPORATION, 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Japan Nationality -Japan (74) Agent : REMFRY & SON LIMITED, 56, NEW ESKATON ROAD 4TH FLOOR, DHAKA-1000, DHAKA, Bangladesh (51) INT. CL. : C25D 17/00 (54) Invention Title: ELECTROPLATING APPARATUS AND METHOD THEREOF, PRODUCTION METHOD OF PLATED ARTICLE, AND PLATING TANK</p> <p>(57) Abstract Electroplating apparatus (100) includes a plating tank (10) in which an insulating coat (12) is formed at least onto a top surface (15a) of a bottom portion (15) of a conductive tank body (11); and a magnetic polishing unit (5) that agitates and polishes a multiplicity of plated articles (1) in an electrolytic solution stored in the plating tank (10) by using a multiplicity of magnetic polishing members (2). The coat (12) includes a slit (31) formed like a thread and with a depth reaching the top surface (15a) of the bottom portion (15), and one or more magnetic polishing members (2) of the multiplicity of magnetic polishing members (2) are electrically connectable to the tank body (11) via an exposed surface (15b) of the top surface (15a) of the bottom portion (15) exposed by the slit (31).</p>
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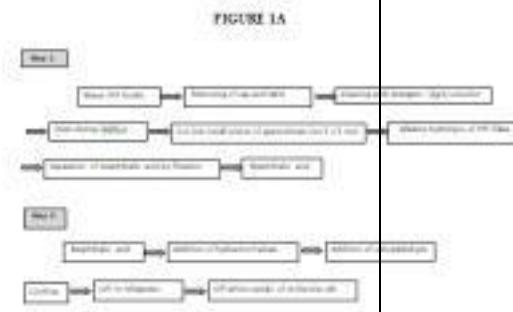




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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-130 (22) Filed: 07/05/2024 (23) Priority Data:</p> <p>(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Nationality -Bangladesh</p> <p>(72) Inventors: (1) SHYAMA PROSAD MOULICK, Scientific Officer of BCSIR Dhaka Laboratories, Dhaka-1205, Bangladesh Nationality -Bangladesh, (2) MAHCI AL BASHERA, Scientific Officer of BCSIR Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh, (3) MD. BADRUL ISLAM, Principal Scientific Officer of BCSIR Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh, (4) MD. AFTAB ALI SHAIKH, Chairman of BCSIR, Dhaka-1205, Bangladesh Nationality -Bangladesh, (5) MD. SALIM KHAN, CSO & DIRECTOR of BCSIR Rajshahi Laboratories, Bangladesh Nationality -Bangladesh, (6) MD. SABBIR HASAN, Scientific Officer of BCSIR Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh, (7) MD. SELIM REZA, Scientific Officer of ITTI, BCSIR Dhaka -1205, Bangladesh Nationality -Bangladesh</p> <p>(51) INT. CL. : C08G 63/183</p> <p>(54) Invention Title: A METHOD FOR PRODUCING NOVEL MOLECULAR SALT OF TEREPHTHALIC ACID RESULTING FROM RECYCLED PET BOTTLE</p> <p>(57) Abstract The invention discloses an 1:1 electrolytic salt of waste PET derived terephthalic acid (TA) with in-situ generated salicylaldehyde hydrazone (SALH) Schiff base obtained by crystallization methods in solution rather than evaporation. Mass spectroscopy (LCMS) of SALH:TA confirmed the formation of salt by the transfer of an acidic proton from one of the carboxylic acidic groups of terephthalic acid (TA) to the terminal amino group of the chain moiety (N2-nitrogen atom) of the SALH molecules. The molecular formula of the complex is , wherein TA refers to terephthalic acid, and C7H8N2O refers to a compound, salicylaldehyde hydrazone (SALH) Schiff base. Moreover, structural characterization of SALH:TA molecular salt was carried out using FTIR, powder X-ray diffraction techniques, elemental analysis, ¹³C & ¹H NMR spectroscopic technique. The synthesis of the new molecular salt in this invention is straightforward, convenient, reproducible, with excellent product crystallinity, and stable.</p>
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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-131 (22) Filed: 07/05/2024 (23) Priority Data:</p> <p>(71) Applicant: Leather Research Institute, BCSIR of Nayarhat, Savar, Dhaka-1350, Nationality -Bangladesh (72) Inventors: (1) Md. Abdur Razzaq, Senior Scientific Officer of BCSIR, Nayarhat, Savar, Dhaka -1350, Bangladesh Nationality -Bangladesh, (2) Dr. Md. Tushar Uddin, Senior Scientific Officer of BCSIR, Nayarhat, Savar, Dhaka -1350, Bangladesh Nationality -Bangladesh, (3) Md. Abul Kashem Azad, Principal Scientific Officer of BCSIR, Nayarhat, Savar, Dhaka -1350, Bangladesh Nationality -Bangladesh, (4) Md. Ashraful Alam, Scientific Officer of BCSIR, Nayarhat, Savar, Dhaka -1350, Bangladesh Nationality -Bangladesh, (5) Shashanka Shekhar Sarker, Scientific Officer of BCSIR, Nayarhat, Savar, Dhaka -1350, Bangladesh Nationality -Bangladesh</p> <p>(51) INT. CL. : C14C 9/02 (54) Invention Title: Extraction Rubber seed oil for retanning leather and develop a natural fatliquor having antimicrobial ability and application composition for leather processing</p> <p>(57) Abstract Fatliquor is one of the most important leather processing chemicals which plays an important role in making leather more flexible and protected against cracking. Seed oils are one of the prominent sources of leather fat liquors. Lab-extracted Hevea brasiliensis L. seed oil was studied. Both the unsulphonated and sulphonated oils were characterized by some physicochemical and spectrophotometric techniques such as FT-IR, 1H NMR, 13C NMR, and 13C NMR DEPT. Using conventional techniques, the sulphonated RSO fat liquor was applied to goatskin and contrasted with a commercial sulphated fat liquor in the manufacturing of shoe upper leather. The commercial and synthesized fat liquors had the following average results for tensile strength, double edge tear, elongation, and softness: 18.91 N/mm²; 18.71 N/mm², 60.82 N; 56.38 N, 44.68%; 38.62%, 1.87; 1.82. In addition, morphological texture of the treated leather was observed by the scanning electron microscope (SEM) images. Furthermore, the antimicrobial activity of sulphonated RSO and finished leather processed with the prepared fatliquored was investigated. The studied fatliquor showed better activity against <i>Staphylococcus aureus</i> compared to <i>Bacillus subtilis</i> and <i>Bacillus cereus</i>. The fatliquor applied finished leather also exhibited the similar findings.</p>
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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-132 (22) Filed: 07/05/2024 (23) Priority Data:</p> <p>(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-I-Khuda Road, Dhanmondi, Dhaka-1205, Nationality -Bangladesh</p> <p>(72) Inventors: (1) Dr. Md. Ahedul Akbor, Principal Scientific Officer of INARS, BCSIR, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (2) Dr. Muhammad Shahriar Bashar, Principal Scientific Officer of IERD, BCSIR, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (3) Munira Sultana, Senior Scientific Officer of IERD, BCSIR, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (4) Afrina Sharmin, Senior Scientific Officer of IERD , BCSIR, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (5) Md. Rashed Alam, Scientific Officer of IERD, BCSIR, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (6) Md. Abu Bakar Siddique, Senior Scientific Officer of INARS, BCSIR, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (7) Mahedi Hasan, Scientific Officer of INARS, BCSIR, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (8) Shamim Ahmed, Principal Scientific Officer of INARS, BCSIR, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (9) Professor Dr. Md. Aftab Ali Shaikh, Chairman, BCSIR of Professor, Department of Chemistry, University of Dhaka, Bangladesh Nationality -Bangladesh</p> <p>(51) INT. CL. : G01R 31/317 (54) Invention Title: BCSIR Digital Arsenic Test Kit</p> <p>(57) Abstract Drinking water or potable water is essential for survival and the basic needs of life. It should be arsenic and other toxic elements free that is directly benefits our health. But, water pollution is a common phenomenon around the world. Groundwater, the only source of potable water for millions of people in Bangladesh during dry season, is often contaminated with arsenic (As). A survey conducted in Bangladesh (BGS/DPHE, 2001) projected that nearly 27% of shallow tubewells are contaminated with arsenic above the Bangladesh drinking water limit of 50 µg/L. Approximately five million of an estimated 10–11 million tubewells in Bangladesh (and more are being constructed) have been tested using arsenic field test kits (FTKs) and millions more have yet to be tested. To diagnose the arsenic in water there are several processes available in the world. Arsenic field kit test one of them. In the context of Bangladesh commercial arsenic test kits are costly. Though, it's used only for qualitative analysis. On the other hand, quantitatively arsenic analysis techniques are too much costly. Based on the situation, developed low cost, dual system, robust and reliable arsenic test kit.</p>
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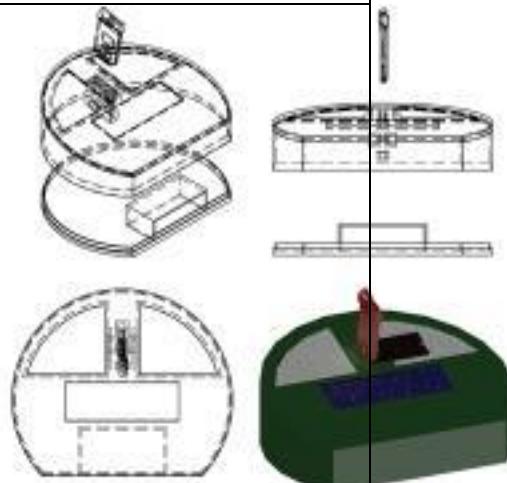


Figure 02: Schematic diagram of digital arsenic test kit



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(11) Patent registration No and date , (21) Appl. No. BD-P-2024-133 (22) Filed: 09/05/2024 (23) Priority Data: India, Number :202311033564, Date : 12-05-2023. (71) Applicant: SUNITA MALHOTRA of House No. 1989, Sector -1, Housing Board Rohtak, Rohtak, Haryana-124001, Nationality -India, SURENDER KUMAR of House No. 1989, Sector -1, Rohtak, Haryana-124001, Nationality -India (72) Inventors: (74) Agent : IP Conservator, Ka-211/1A, Boatghat Namapara, Khilkhet, Dhaka-1229, Bangladesh (51) INT. CL. : C04B 35/117 (54) Invention Title: SYNERGISTIC HERBICIDAL COMPOSITION FOR WEED CONTROL (57) Abstract The present invention relates to a synergistic herbicidal composition for weeds control in preemergence, early post emergence to late post emergence weed stage. More particularly, the present invention relates to a synergistic herbicidal composition comprising bioactive amounts of Haloxyfop or its agrochemically acceptable salts, ester or derivatives, Pyrithiobac or its agrochemically acceptable salts, ester or derivatives, and at least one another herbicide selected from Fenoxaprop, Oxyfluorfen and Propaquizafop or their agrochemically acceptable salts, ester or derivatives for control of undesirable vegetation including broad-leaved weeds, gramineous weeds, sedges and grasses in various crops. The present invention also relates to process for preparing the said composition and its use as herbicide.



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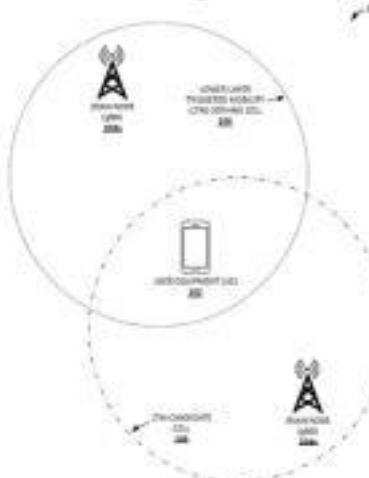
(11) Patent registration No and date ,
(21) Appl. No. BD-P-2024-134
(22) Filed: 12/05/2024
(23) Priority Data: India, Number :202321033309, Date : 11-05-2023.
(71) Applicant: MAHYCO PRIVATE LIMITED of 19, RAJ MAHAL, 84 VEER NARIMAN ROAD, CHURCHGATE, MUMBAI 400020, MAHARASHTRA, Nationality -India
(72) Inventors: (1) SMITHA V. KURUP of FLAT NO. 2BHK-B, MAHYCO HOUSING COLONY, DAWALWADI, JALNA - 431203, MAHARASHTRA, India Nationality -India, (2) S. D. MAGADI of #126, BEHIND HANUMAN TEMPLE, SHIRAHATTI TALUK, GADAG DISTRICT, BELLATTI POST, KARNATAKA 582112, India Nationality -India, (3) ABHIJEET B. SHILLAK of SWARAJYA, PLOT NO. 38, TORNAGADNAGAR, CIDCO N-2, OPP DHOOT HOSPITAL, AURANGABAD -431006, MAHARASHTRA, India Nationality -India, (4) BHARAT R. CHAR of RH -2D, MAHYCO HOUSING COLONY, DAWALWADI, JALNA- 431203, MAHARASHTRA, India Nationality -India, (5) PRASAD KUMAR H .M of 1BHK -C, MAHYCO HOUSING COLONY, DAWALWADI, JALNA - 431203, MAHARASHTRA, India Nationality -India
(74) Agent : REMFRY & SON LIMITED, 56, NEW ESKATON ROAD 4TH FLOOR, DHAKA-1000, DHAKA, Bangladesh
(51) INT. CL. : A21D 2/38
(54) Invention Title: SEED GERMINATION EVALUATION SYSTEM AND METHOD THEREOF
(57) Abstract The present invention provides an automated seedling evaluation system (100) that evaluates germination percentage for seeds/seedlings and categorizations the seeds/seedlings into normal, abnormal and other types of seeds/seedlings. The automated seedling evaluation system (100) includes a seed germination evaluation system (102) that receives an image of the seeds/seedlings, identifies features in the image, identifies one or more seeds/seedlings based on the identified features, labels the regions of interest, determines one or more bounding boxes around the identified seeds/seedlings based on the labels, calculates confidence scores for the bounding boxes, and determines a germination percentage based on the seed/seedling featured inside the bounding boxes and the corresponding confidence scores. Features facilitate estimation of vigor index (combination of average seedling length and germination percentage) and uniformity of the seed/seedlings. The seed germination evaluation system (102) operates independently without requiring any manual intervention. The seed germination evaluation system (102) provides consistent and reliable results with improved accuracy.



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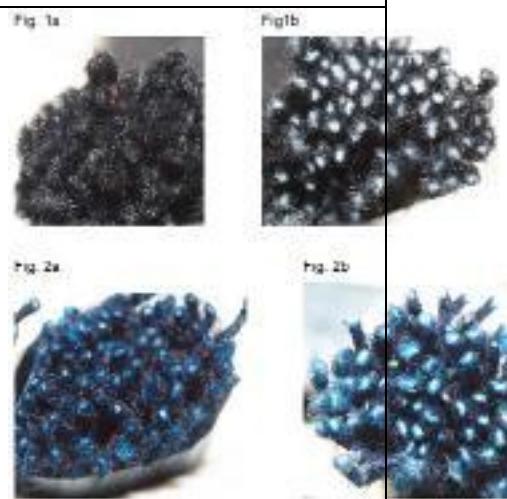




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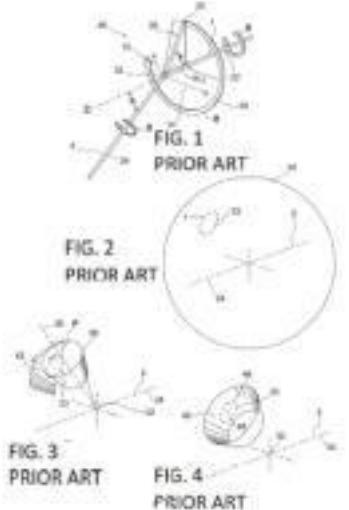
<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-136 (22) Filed: 14/05/2024 (23) Priority Data: European Patent Office (EPO), Number :233824606, Date : 17-05-2023. (71) Applicant: Archroma IP GmbH of Neuhofstr. 11, 4153 Reinach, Nationality -Switzerland (72) Inventors: (1) DE VITA, Umberto of Rambla de la pau 54, 4-4 08800 Vilanova I la geltru' Barcelona, Spain Nationality -Italy, (2) DOMINGO FARRÉ, Manuel José of Carrer de Còrsega, 493 08025 Barcelona, Spain Nationality -Spain, (3) LLORT COLELL, Albert of Carrer del Doctor Trueta 11-13 08243 Manresa, Barcelona, Spain Nationality - Spain (74) Agent : REMFRY & SON LIMITED, 56, NEW ESKATON ROAD 4TH FLOOR, DHAKA-1000, DHAKA, Bangladesh (51) INT. CL. : D06B 7/04 (54) Invention Title: Use of Polyelectrolytes in Textile treatment, and in the Mercerization and/or Dyeing operative phase.</p>
<p>(57) Abstract An aqueous polyelectrolyte composition for (pre-)treating textile material, its preparation and application as well as therefrom produced textiles, as for example denim textiles. It was found that textile material pre-treated with said aqueous polyelectrolyte composition possess improved properties in terms of subsequent steps as for example in mercerization or dyeing since said subsequent steps are more superficial on pre-treated textile material. This allows e.g. a ring-dyeing of pre-treated textile-material and thus more sustainable techniques.</p>





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(11) Patent registration No and date , (21) Appl. No. BD-P-2024-137 (22) Filed: 14/05/2024 (23) Priority Data: United States of America, Number :18478563, Date : 29-09-2023. and United States of America, Number :63502302, Date : 15-05-2023. (71) Applicant: Spherical Rotors Inc. of 391 Woodbriar Circle SW, Calgary Alberta, Canada T2W 5Y9, Nationality - Canada (72) Inventors: (1) Michael Justin Sereda-Mohr of 391 Woodbriar Circle SW, Calgary Alberta, Canada T2W 5Y9, Canada Nationality -Canada (74) Agent : APT IP LAW AGENCY BD., Darus Salam Arcade, 11th Floor, Suite # 1208, 14 Purana Paltan, Dhaka-1000 , Bangladesh (51) INT. CL. : F04D 11/00 (54) Invention Title: ROTARY POSITIVE DISPLACEMENT DEVICE (57) Abstract A rotary positive displacement device comprises a housing having low and high pressure ports; first and second rotors each having a frusto-spherical outer surface, an axial surface, a shaft and a rotational axis. The axial surfaces comprise a teardrop surface and an involute surface together defining a lobe and a corresponding valley. High and low pressure openings each extend between the first and second rotors and the corresponding high and low pressure ports. The first and second rotors intermesh so that the at least two chambers are separated by the axial surfaces of the first and second rotors, each chamber having a variable volume as the first and second rotors rotate about their respective rotational axes. A lower edge of the high pressure opening is positioned along an outer diameter of the outer surface of the second rotor and between the second rotor shaft and the first rotor valley.	
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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-142 (22) Filed: 19/05/2024 (23) Priority Data:</p> <p>(71) Applicant: Research and Innovation Centre for Science and Engineering (RISE) of 8th Floor, ECE Building West Palashi Campus, Nationality -Bangladesh, Bangladesh University of Engineering and Technology (BUET) of BUET, Dhaka 1205, Nationality -Bangladesh</p> <p>(72) Inventors: (2) Tonmoy Chandro Saha (SID: 1818003) of Department of Biomedical Engineering, BUET Dhaka-1000, Bangladesh Nationality -Bangladesh, (3) Shawkat Osman Shishir (SID: 1818018) of Department of Biomedical Engineering, BUET Dhaka-1000, Bangladesh Nationality -Bangladesh, (4) Maksudul Hoque Rafi (SID: 1818029) of Department of Biomedical Engineering, BUET Dhaka-1000, Bangladesh Nationality -Bangladesh</p> <p>(51) INT. CL. : A61N 1/39 (54) Invention Title: User Specified & Weight Based Manual And Automatic External Defibrillator</p> <p>(57) Abstract The present invention relates to an innovative external defibrillator system designed to enhance treatment efficacy and reliability in cardiac emergencies. The system comprises two primary components: a novel algorithm for shock delivery based on patient body weight and a dual-mode circuit design with uninterrupted power supply (UPS) integration. The algorithm dynamically adjusts shock intensity to deliver personalized treatment, improving patient outcomes and reducing risks associated with conventional fixed-shock algorithms. The dual-mode circuit design ensures seamless switching between power sources, enabling continuous operation during power disruptions. Overall, the invention offers a comprehensive solution for external defibrillation, addressing critical needs in medical emergency response and patient care.</p>

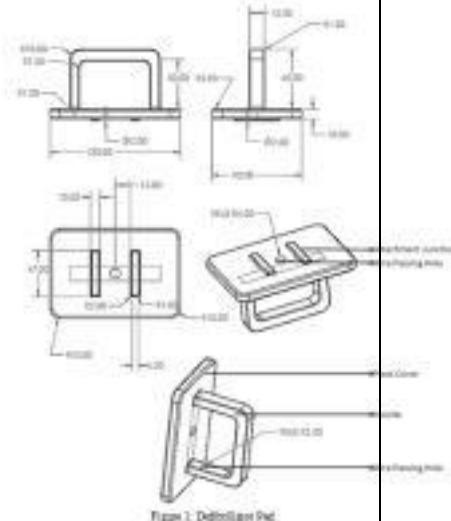


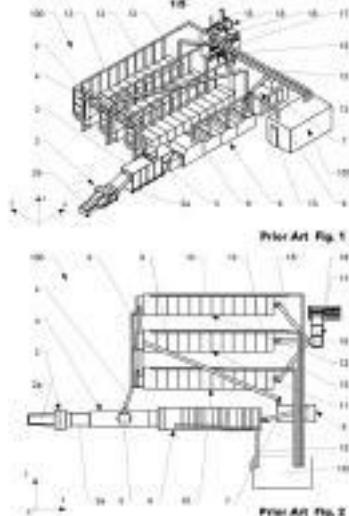
Figure 1: Defibrillator Pad



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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-143 (22) Filed: 20/05/2024 (23) Priority Data: Switzerland, Number :5422023, Date : 22-05-2023.</p> <p>(71) Applicant: Säntis Textiles AG of c/o Christian Eschler Europe AG, Bleichelistrasse 22, 9055 Bühler, Nationality - Switzerland</p> <p>(72) Inventors: (0) Stefan HUTTER (Mr.) of Säntis Textiles AG, c/o Christian Eschler Europe AG, Bleichelistrasse 22, 9055 Bühler, Switzerland Nationality -Switzerland, (1) Laszlo OLAH (Mr.) of c/o Swinsol AG, Bahnhofstrasse 8, 9434 Au SG, Switzerland Nationality -Romania, (2) Resul ISTREFI (Mr.) of c/o Swinsol AG, Bahnhofstrasse 8, 9434 Au SG, Switzerland Nationality -Switzerland</p> <p>(74) Agent : MUNSHI & ASSOCIATES, 194/D/1, Tejkunipara,Tejgaon, Dhaka-1215, Bangladesh</p> <p>(51) INT. CL. : B21D 22/14</p> <p>(54) Invention Title: Integrated Textile Recycling and Spinning Machine</p> <p>(57) Abstract The present invention relates to an integrated recycling and spinning machine (300) and method for manufacturing yarn directly from textile waste, comprising: a recycling unit (301) that is configured to recycle textile waste material into recycled fiber material and is integrated with a drawing unit (302) and spinning unit (303) that are configured to manufacture a recycled fiber sliver and therefrom a yarn containing the recycled fiber material. The invention also relates to a method for integrated recycling and spinning of textile waste materials into a yarn by using the integrated recycling and spinning machine (300) as disclosed herein.</p>
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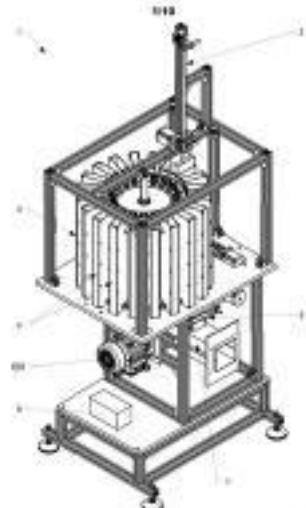


Fig. 1



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(11) Patent registration No and date , (21) Appl. No. BD-P-2024-146 (22) Filed: 23/05/2024 (23) Priority Data: Japan, Number :2023026849, Date : 21-07-2023. (71) Applicant: YKK CORPORATION of 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 101-8642, Nationality -Japan (72) Inventors: (1) SHO, Yoshiyuki of C/o YKK CORPORATION KUROBE., 200, Yoshida, Kurobe-shi, Toyama 938-8601, Japan Nationality -Japan, (2) TANAKA, Takayoshi of C/o YKK CORPORATION KUROBE., 200, Yoshida, Kurobe-shi, Toyama 938-8601, Japan Nationality -Japan, (3) YAMADA, Katsuya of C/o YKK CORPORATION KUROBE., 200, Yoshida, Kurobe-shi, Toyama 938-8601, Japan Nationality -Japan (74) Agent : H & H COMPANY, Shareef Mansion (Second Floor), 56-57, Motijheel C/A, Dhaka-1000, Bangladesh (51) INT. CL. : B21D 53/54 (54) Invention Title: SLIDE FASTENER-ATTACHED PRODUCT (57) Abstract A slide fastener-attached product (1) includes a fastener stringer (21) and a fastener-receiving member (10). The fastener stringer (21) is attached to a stringer attachment edge (11) of the fastener-receiving member (10) with a sewn portion (12). The stringer attachment edge (11) includes a double-layer portion (14) including a first strip portion (15), a bent portion (16), and a second strip portion (17). The sewn portion (12) is disposed away from a plurality of fastener elements (23), and the bent portion (16, 56, 76, 96) is disposed in contact with or closer to the fastener elements (23). A waterproof region is formed between the sewn portion (12) and the fastener elements (23). In the slide fastener-attached product (1), exposure of the fastener tape (22) in the region between the fastener-receiving member (10) and the fastener elements (23) can be prevented or reduced.



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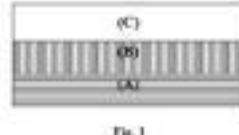
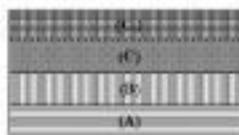
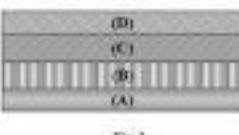
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(11) Patent registration No and date , (21) Appl. No. BD-P-2024-147 (22) Filed: 23/05/2024 (23) Priority Data: India, Number :202321037650, Date : 31-05-2023. (71) Applicant: CAN IMAGE MEDIA TECH LLP of 302, 3Rd Floor, Solitaire Building, 80 S V Road, Santacruz West, Mumbai -400054, Nationality -India (72) Inventors: (1) Ketan Arvind Desai of E-103, Amazon Building, Jayraj Nagar, Near Don Bosco school, Borivali(West) Mumbai - 400 091, Maharashtra, India Nationality -India, (2) Karunesh Kumar Mishra of 10/703, Brahmand Phase-5, Ghod Bunder Road, Azad Nagar, Thane (West) – 400 607, Maharashtra, India Nationality -India (74) Agent : Munshi & Associates, 194/D-1, Tejkunipara, Tejgaon, Dhaka-1215, Dhaka, Bangladesh (51) INT. CL. : B41B 21/32 (54) Invention Title: Multi-layered Device with Self-Adhering Film (57) Abstract The present invention relates to novel multi-layered device comprising environment friendly, PVC free and VOC free self-adhering film capable of being transferred onto diverse substrates, without the use of solvents and extensive pre-working of surfaces as is essential in conventional painting/printing applications. The multilayered device comprises at least four layers, a first “Base layer” (A), a second “Release Layer” (B) on the “Base Layer” (A), a third “Pressure Sensitive Adhesive (PSA) Layer” (C) on the “Release Layer” (B), followed by a fourth “Top Coat Layer” (D) on the “PSA Layer” (C). The combination of Layers (A) and (B) forms the Release Liner . The combination of Layers (C) and (D) forms the self-adhering film of 15GSM to 300 GSM and is separable from the Release liner [(A)(B)].	 Fig. 1
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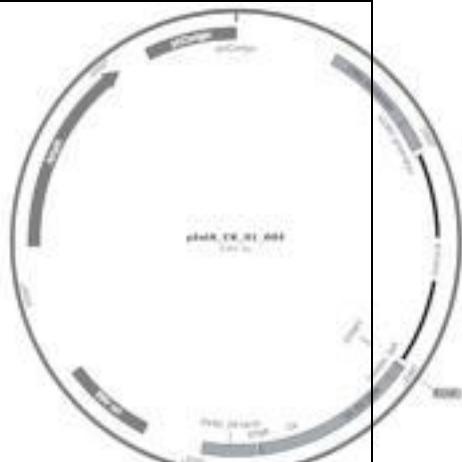
(11) Patent registration No and date , (21) Appl. No. BD-P-2024-148 (22) Filed: 23/05/2024 (23) Priority Data: India, Number :202321037651, Date : 31-05-2023. (71) Applicant: CAN IMAGE MEDIA TECH LLP of 302, 3Rd Floor, Solitaire Building, 80 S V Road, Santacruz West, Mumbai -400054, Nationality -India (72) Inventors: (1) Ketan Arvind Desai of E-103, Amazon Building, Jayraj Nagar, Near Don Bosco school, Borivali(West) Mumbai - 400 091, Maharashtra, India Nationality -India, (2) Karunesh Kumar Mishra of 10/703, Brahmand Phase-5, Ghod Bunder Road, Azad Nagar, Thane (West) – 400 607, Maharashtra, India Nationality -India (74) Agent : MUNSHI & ASSOCIATES, 194/D/1, Tejkunipara,Tejgaon, Dhaka-1215, Bangladesh (51) INT. CL. : B41B 21/32 (54) Invention Title: Multi-Layered Device with Water Activable Self-Adhering Film (57) Abstract The present invention relates to a multi-layered device of the present invention comprises at least three layers, a first “Base Layer” (A), a second “Release Layer” (B) on the “Base layer” (A), a third “Water-activable Base Coat Layer” (C) which is activable with water without the use of any co-solvent, optionally coated with additional layers on the “Water-activable Base Coat Layer” (C), wherein the combined layers (A) and (B) form the Release Liner and the combined layer (C) and the optionally coated additional layers to form a Film of 15 GSM to 300 GSM. The Film is separable from “Release Liner [(A)(B)]. The Layer (C) comprises hydrophilic & hydrophobic polymers wherein the ratio of hydrophilic to hydrophobic polymers is in the range of 1: 0 to 1:10. The Film is water activable, printable and may be pigmented, transferable, and self-adhering on any surface.
 Fig. 1  Fig. 2  Fig. 3



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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-151 (22) Filed: 27/05/2024 (23) Priority Data: United States of America, Number :18472814, Date : 22-09-2023. and United States of America, Number :63508791, Date : 16-06-2023. (71) Applicant: YAE, LLC of 1395 Brickell Avenue, suite 800, Miami, FL 33131, Nationality -United States of America (72) Inventors: (1) FISCHMANN, Fernando of 1395 Brickell Avenue, suite 800, Miami, FL 33131, United States of America Nationality -Chile (74) Agent : MUNSHI & ASSOCIATES, 194/D/1, Tejkunipara,Tejgaon, Dhaka-1215, Bangladesh (51) INT. CL. : H04L 67/06 (54) Invention Title: METHOD AND APPLICATION FOR FAST SHARING OF IMAGES BETWEEN MOBILE ELECTRONIC DEVICES USING AN INNOVATIVE PLATFORM AND ARTIFICIAL INTELLIGENCE (57) Abstract The present disclosure relates to a method and application for capturing, sharing, and uploading images and other media content from mobile electronic devices and between mobile electronic devices using an innovative platform and artificial intelligence. In particular, the present disclosure provides a method, software, e.g., an “application,” and/or a device that integrate the functionalities of media content capturing and fast sharing with a reduced set of required user actions, such as down to one touch, using artificial intelligence.</p>
<p>Figure 1</p> <p>Figure 2</p> <p>Figure 3</p> <p>Figure 4</p> <p>Figure 5</p> <p>Figure 6</p> <p>Figure 7</p> <p>Figure 8</p> <p>Figure 9</p> <p>Figure 10</p> <p>Figure 11</p> <p>Figure 12</p> <p>Figure 13</p> <p>Figure 14</p> <p>Figure 15</p> <p>Figure 16</p> <p>Figure 17</p> <p>Figure 18</p> <p>Figure 19</p> <p>Figure 20</p> <p>Figure 21</p> <p>Figure 22</p> <p>Figure 23</p> <p>Figure 24</p> <p>Figure 25</p> <p>Figure 26</p> <p>Figure 27</p> <p>Figure 28</p> <p>Figure 29</p> <p>Figure 30</p> <p>Figure 31</p> <p>Figure 32</p> <p>Figure 33</p> <p>Figure 34</p> <p>Figure 35</p> <p>Figure 36</p> <p>Figure 37</p> <p>Figure 38</p> <p>Figure 39</p> <p>Figure 40</p> <p>Figure 41</p> <p>Figure 42</p> <p>Figure 43</p> <p>Figure 44</p> <p>Figure 45</p> <p>Figure 46</p> <p>Figure 47</p> <p>Figure 48</p> <p>Figure 49</p> <p>Figure 50</p> <p>Figure 51</p> <p>Figure 52</p> <p>Figure 53</p> <p>Figure 54</p> <p>Figure 55</p> <p>Figure 56</p> <p>Figure 57</p> <p>Figure 58</p> <p>Figure 59</p> <p>Figure 60</p> <p>Figure 61</p> <p>Figure 62</p> <p>Figure 63</p> <p>Figure 64</p> <p>Figure 65</p> <p>Figure 66</p> <p>Figure 67</p> <p>Figure 68</p> <p>Figure 69</p> <p>Figure 70</p> <p>Figure 71</p> <p>Figure 72</p> <p>Figure 73</p> <p>Figure 74</p> <p>Figure 75</p> <p>Figure 76</p> <p>Figure 77</p> <p>Figure 78</p> <p>Figure 79</p> <p>Figure 80</p> <p>Figure 81</p> <p>Figure 82</p> <p>Figure 83</p> <p>Figure 84</p> <p>Figure 85</p> <p>Figure 86</p> <p>Figure 87</p> <p>Figure 88</p> <p>Figure 89</p> <p>Figure 90</p> <p>Figure 91</p> <p>Figure 92</p> <p>Figure 93</p> <p>Figure 94</p> <p>Figure 95</p> <p>Figure 96</p> <p>Figure 97</p> <p>Figure 98</p> <p>Figure 99</p> <p>Figure 100</p> <p>Figure 101</p> <p>Figure 102</p> <p>Figure 103</p> <p>Figure 104</p> <p>Figure 105</p> <p>Figure 106</p> <p>Figure 107</p> <p>Figure 108</p> <p>Figure 109</p> <p>Figure 110</p> <p>Figure 111</p> <p>Figure 112</p> <p>Figure 113</p> <p>Figure 114</p> <p>Figure 115</p> <p>Figure 116</p> <p>Figure 117</p> <p>Figure 118</p> <p>Figure 119</p> <p>Figure 120</p> <p>Figure 121</p> <p>Figure 122</p> <p>Figure 123</p> <p>Figure 124</p> <p>Figure 125</p> <p>Figure 126</p> <p>Figure 127</p> <p>Figure 128</p> <p>Figure 129</p> <p>Figure 130</p> <p>Figure 131</p> <p>Figure 132</p> <p>Figure 133</p> <p>Figure 134</p> <p>Figure 135</p> <p>Figure 136</p> <p>Figure 137</p> <p>Figure 138</p> <p>Figure 139</p> <p>Figure 140</p> <p>Figure 141</p> <p>Figure 142</p> <p>Figure 143</p> <p>Figure 144</p> <p>Figure 145</p> <p>Figure 146</p> <p>Figure 147</p> <p>Figure 148</p> <p>Figure 149</p> <p>Figure 150</p> <p>Figure 151</p> <p>Figure 152</p> <p>Figure 153</p> <p>Figure 154</p> <p>Figure 155</p> <p>Figure 156</p> <p>Figure 157</p> <p>Figure 158</p> <p>Figure 159</p> <p>Figure 160</p> <p>Figure 161</p> <p>Figure 162</p> <p>Figure 163</p> <p>Figure 164</p> <p>Figure 165</p> <p>Figure 166</p> <p>Figure 167</p> <p>Figure 168</p> <p>Figure 169</p> <p>Figure 170</p> <p>Figure 171</p> <p>Figure 172</p> <p>Figure 173</p> <p>Figure 174</p> <p>Figure 175</p> <p>Figure 176</p> <p>Figure 177</p> <p>Figure 178</p> <p>Figure 179</p> <p>Figure 180</p> <p>Figure 181</p> <p>Figure 182</p> <p>Figure 183</p> <p>Figure 184</p> <p>Figure 185</p> <p>Figure 186</p> <p>Figure 187</p> <p>Figure 188</p> <p>Figure 189</p> <p>Figure 190</p> <p>Figure 191</p> <p>Figure 192</p> <p>Figure 193</p> <p>Figure 194</p> <p>Figure 195</p> <p>Figure 196</p> <p>Figure 197</p> <p>Figure 198</p> <p>Figure 199</p> <p>Figure 200</p> <p>Figure 201</p> <p>Figure 202</p> <p>Figure 203</p> <p>Figure 204</p> <p>Figure 205</p> <p>Figure 206</p> <p>Figure 207</p> <p>Figure 208</p> <p>Figure 209</p> <p>Figure 210</p> <p>Figure 211</p> <p>Figure 212</p> <p>Figure 213</p> <p>Figure 214</p> <p>Figure 215</p> <p>Figure 216</p> <p>Figure 217</p> <p>Figure 218</p> <p>Figure 219</p> <p>Figure 220</p> <p>Figure 221</p> <p>Figure 222</p> <p>Figure 223</p> <p>Figure 224</p> <p>Figure 225</p> <p>Figure 226</p> <p>Figure 227</p> <p>Figure 228</p> <p>Figure 229</p> <p>Figure 230</p> <p>Figure 231</p> <p>Figure 232</p> <p>Figure 233</p> <p>Figure 234</p> <p>Figure 235</p> <p>Figure 236</p> <p>Figure 237</p> <p>Figure 238</p> <p>Figure 239</p> <p>Figure 240</p> <p>Figure 241</p> <p>Figure 242</p> <p>Figure 243</p> <p>Figure 244</p> <p>Figure 245</p> <p>Figure 246</p> <p>Figure 247</p> <p>Figure 248</p> <p>Figure 249</p> <p>Figure 250</p> <p>Figure 251</p> <p>Figure 252</p> <p>Figure 253</p> <p>Figure 254</p> <p>Figure 255</p> <p>Figure 256</p> <p>Figure 257</p> <p>Figure 258</p> <p>Figure 259</p> <p>Figure 260</p> <p>Figure 261</p> <p>Figure 262</p> <p>Figure 263</p> <p>Figure 264</p> <p>Figure 265</p> <p>Figure 266</p> <p>Figure 267</p> <p>Figure 268</p> <p>Figure 269</p> <p>Figure 270</p> <p>Figure 271</p> <p>Figure 272</p> <p>Figure 273</p> <p>Figure 274</</p>

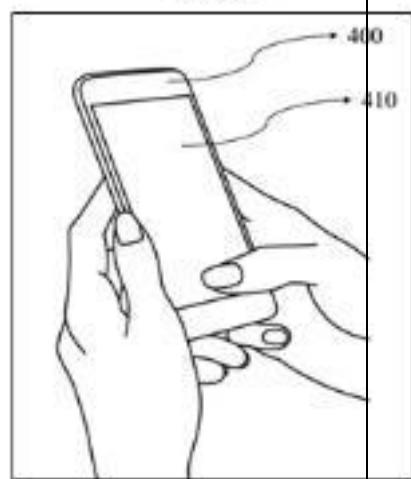


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Figure 1





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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-156 (22) Filed: 29/05/2024 (23) Priority Data:</p> <p>(71) Applicant: Prof. Dr. Md. Motaharul Islam of United International University, United City, Madani Avenue, Dhaka-1212, Nationality -Bangladesh, Iffat Binte Sorowar of United International University, United City, Madani Avenue, Dhaka-1212, Nationality -Bangladesh, Mahabub Alam Shawon of United International University, United City, Madani Avenue, Dhaka-1212, Nationality -Bangladesh, Md. Sadat Rahman of United International University, United City, Madani Avenue, Dhaka-1212, Nationality -Bangladesh, Sheikh Rakin of United International University, United City, Madani Avenue, Dhaka-1212, Nationality -Bangladesh, Md. Mahi Estiak Bin Humayun of United International University, United City, Madani Avenue, Dhaka-1212, Nationality -Bangladesh</p> <p>(72) Inventors: (0) Prof. Dr. Md. Motaharul Islam of United International University, United City, Madani Avenue, Dhaka-1212, Bangladesh Nationality -Bangladesh, (1) Iffat Binte Sorowar of United International University, United City, Madani Avenue, Dhaka-1212, Bangladesh Nationality -Bangladesh, (2) Mahabub Alam Shawon of United International University, United City, Madani Avenue, Dhaka-1212, Bangladesh Nationality -Bangladesh, (3) Md. Sadat Rahman of United International University, United City, Madani Avenue, Dhaka-1212, Bangladesh Nationality -Bangladesh, (4) Sheikh Rakin of United International University, United City, Madani Avenue, Dhaka-1212, Bangladesh Nationality -Bangladesh, (5) Md. Mahi Estiak Bin Humayun of United International University, United City, Madani Avenue, Dhaka-1212, Bangladesh Nationality -Bangladesh</p> <p>(51) INT. CL. : H05K 7/20 (54) Invention Title: Design of an Innovative Cooling Management System for a Data Center</p> <p>(57) Abstract Globally, there is an increasing demand for data processing and storage, which has a negative influence on the environment. We concentrate on cooling strategy for data centers. So, we have provided an innovative approach, conceptualized an environmentally conscious data center, including efficient cooling systems. Our cooling systems are based on the thermodynamics properties of the coolant being used to reduce heat and energy waste. Our cooling technology is 80% more effective than existing systems and our energy efficiency is 99%. Finally, the proposed innovative cooling approach for a green data center.</p>
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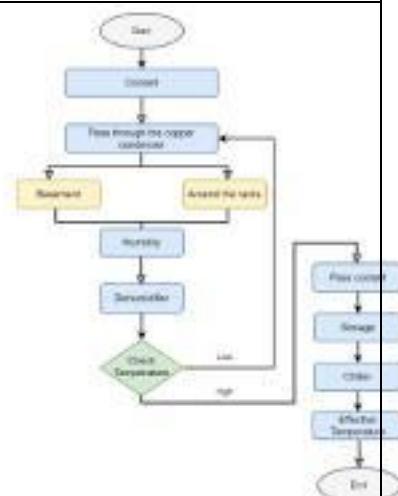
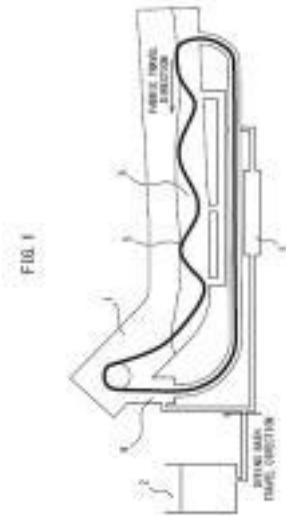


Figure 1: Flow chart of the system application



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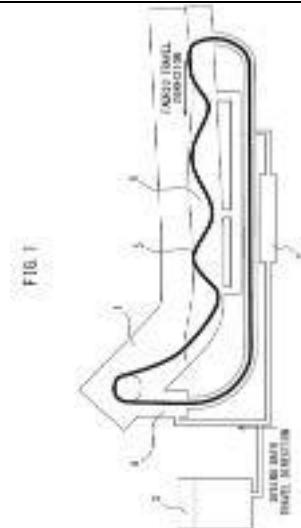
<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-157 (22) Filed: 29/05/2024 (23) Priority Data: Japan, Number :2023090262, Date : 31-05-2023.</p> <p>(71) Applicant: ASAHI KASEI KABUSHIKI KAISHA of 1-1-2 Yurakucho, Chiyoda-ku, Tokyo 100 0006, Nationality -Japan</p> <p>(72) Inventors: (1) Motoya Matsubara of c/o. ASAHI KASEI KABUSHIKI KAISHA, 1-1-2 Yurakucho, Chiyoda-ku, Tokyo 100 0006, Japan Nationality -Japan</p> <p>(74) Agent : MUNSHI & ASSOCIATES, 194/D/1, Tejkunipara, Tejgaon, Dhaka-1215, Bangladesh</p> <p>(51) INT. CL. : F28D 15/02</p> <p>(54) Invention Title: DYEING METHOD FOR CELLULOSE FIBER PRODUCT</p>
<p>(57) Abstract</p> <p>A dyeing method, including the steps of feeding water of a first temperature region of 5°C or higher and lower than 30°C or a second temperature region of 30°C or higher and lower than 40°C to a dyeing bath and introducing cellulose fibers or a fiber product containing cellulose fibers thereto, under the proviso that the water-feeding and the introducing are performed in any order, raising the temperature from the first temperature region to a second temperature region of 30°C or higher and lower than 40°C and from the second temperature region to a third temperature region of 40°C or higher and lower than 70°C, or alternatively, raising the temperature from the second temperature region to the third temperature region of 40°C or higher and 70°C or lower, maintaining a third temperature within the third temperature region for a predetermined period of time, introducing a reactive dye at a temperature higher than the first temperature region; and introducing a mixture of an inorganic salt and an alkaline agent in three or more divided portions separately from introducing the reactive dye at a temperature equal to or higher than the second temperature region.</p> 



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<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2024-158 (22) Filed: 29/05/2024 (23) Priority Data: Japan, Number :2023090292, Date : 31-05-2023. (71) Applicant: ASAHI KASEI KABUSHIKI KAISHA of 1-1-2 Yurakucho, Chiyoda-ku, Tokyo 100 0006, Nationality -Japan (72) Inventors: (1) Takuya Noaki of c/o. ASAHI KASEI KABUSHIKI KAISHA, 1-1-2 Yurakucho, Chiyoda-ku, Tokyo 100 0006, Japan Nationality -Japan (74) Agent : MUNSHI & ASSOCIATES, 194/D/1, Tejkunipara, Tejgaon, Dhaka-1215, Bangladesh (51) INT. CL. : F28D 15/02 (54) Invention Title: DYEING METHOD FOR CELLULOSE FIBER PRODUCT</p> <p>(57) Abstract Provided is a novel dyeing method with which it is possible to obtain cellulose fiber products dyed with a reactive dye that have high color fastness and do not undergo hydrolysis due to an alkali treatment while reducing CO₂ emissions by using an alkaline washing under specific temperature and pH conditions. The present invention relates to a dyeing method for cellulose fibers or a fiber product containing cellulose fibers, the dyeing method being batch type or continuous type and including: a dyeing reaction step in which cellulose fibers or a fiber product containing cellulose fibers are reacted with a reactive dye in a dyeing liquid; an alkaline washing step in which all or part of the dyeing liquid is discharged, and then the dyed fibers or fiber product are washed with an alkaline washing liquid having a pH of 10 to 14 and a temperature of 15 to 70°C; and a post-alkaline washing step of discharging the alkaline washing liquid and then washing with water.</p>
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