গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
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নং-৩৬.০৮.০০০০.২০০.১৬.০০১.২২. ৭২৮ তারিখঃ ২৯/১০/২০২৬ খ্রি.

বিষয়ঃ দাখিলকৃত পেটেন্ট আবেদনসমূহ ওয়েবসাইটে প্রকাশ।

বাংলাদেশ পেটেন্ট আইন, ২০২৩ এর ধারা ১৭(২) অনুযায়ী ডিপিডিটিতে ২০২৫ সালে দাখিলকৃত পেটেন্ট আবেদন নং ১০২-১১২, ১১৪, ১২৩-১২৭, ১২৯, ১৩১-১৩৩ এবং ধারা ১৭(৪) অনুযায়ী ২০২৫ সালের পেটেন্ট আবেদন নং ৩৭৪ ও ২০২৬ সালের পেটেন্ট আবেদন নং ২৩, ২৮, ১২২, ২০৬, ২৩৬, ২৪২, ২৯৮, ৩১৬-৩১৮, ৩২০-৩২১, ৩২৩-৩২৫, ৩২৭-৩৩৫, ৩৩৮-৩৪০, ৩৪২, ৩৪৬, ৩৫২, ৩৫৪, ৩৫৬-৩৫৮, ৩৬০, ৩৬৫, ৩৬৬ — সর্বমোট ৫৯ (উনষাট) টি আবেদন নিম্নবর্ণিত তথ্যাদি সহ অধিদপ্তরের ওয়েবসাইটে (www.dpdt.gov.bd) প্রকাশ করা হল।

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

সংযুক্তিঃ ৫৯ (উনষাট) পাতা।

২৯/১০/২৬
মোঃ হাবিবুর রহমান
উপ-পরিচালক (পেটেন্ট)

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

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Publication No: 38 & Date: 29 October 2026

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2025-102
(22) Filed: 05/03/2025

(23) Priority Data:
United States of America, Number :18600533, Date : 08-03-2024.

(71) Applicant: Cannon Coccellato of 15411 Camarillo St., Sherman Oaks, California 91403, Nationality -United States of America

(72) Inventors:

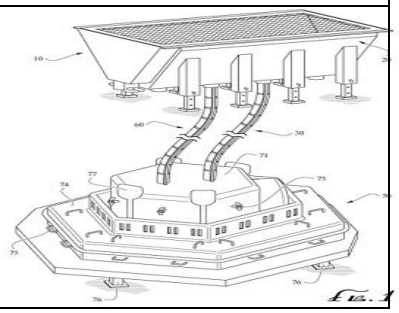
(74) Agent : Advocates IP Law Alliance , {app_representative_address}, Bangladesh

(51) INT. CL. : E03B 3/03

(54) Invention Title: Rain Water Collection, Filtration, and Life Boat System

(57) Abstract

The invention provides a rain water collection, filtration, and life boat system. The system comprises a rain catcher unit with a life boat having a water tank, and a connecting hose. The connecting hose connects the rain catcher to the water tank of the lifeboat to allow a flow of collected rain water from the rain catcher to the water tank. The connecting hose comprises a flexible tube and a plurality of liquid filters, wherein the plurality of liquid filters are positioned in predetermined distances from each other throughout the flexible tube.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2025-103
(22) Filed: 05/03/2025

(23) Priority Data:
N/A

(71) Applicant: ADIENNE PHARMA & BIOTECH S.A. of Via Zurigo N. 46, 6900 Lugano, Nationality -Switzerland

(72) Inventors: (1) Antonio Francesco Di Naro of 7 Via Sanbartolomee, 6922, Morcote, Switzerland Nationality -Italy

(74) Agent : Advocates IP Law Alliance , {app_representative_address}, Bangladesh

(51) INT. CL. : G11B 23/107

(54) Invention Title: LYOPHILIZATION CASSETTE

(57) Abstract

The present disclosure provides a cassette for housing a plurality of flexible bags and/or semi-rigid containers in a freeze dryer. The flexible bags and semi-rigid containers include a chamber holding a pharmaceutical product that is lyophilized by the freeze dryer. The cassette includes a frame and a plurality of partition walls disposed within the frame. The cassette includes a plurality of compartments disposed within the frame and separated by the plurality of partition walls. Each of the compartments receives a respective flexible bag and/or semi-rigid container. The cassette includes a plurality of stands disposed in the plurality of compartments. Each stand upholds a chamber of a respective flexible bag or semi-rigid container at a tilted position such that the chamber of the respective flexible bag or semi-rigid container is oriented in a vertical direction with respect to a base of the frame.

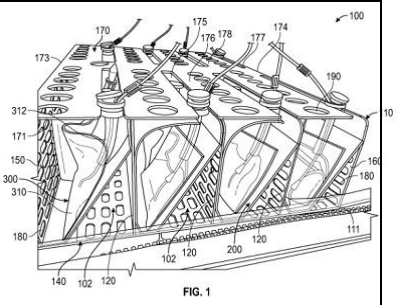


FIG. 1

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Publication of Filed Patent Application
Publication No: 38 & Date: 29 October 2026

(11) Patent registration No and date , **(21) Appl. No.** BD-P-2025-104 **(22) Filed:** 18/03/2025
(23) Priority Data: N/A
(71) Applicant: Dr. Mubarak Ahmad Khan of Khan Bari, House No-305/A. Road No-4, Tilpapara, Khilgaon, Dhaka 1219, Nationality -Bangladesh, Shafiqul Hassan of 110-112, Parkway, London, NW1 7SX, Nationality -United Kingdom
(72) Inventors: (0) Dr. Mubarak Ahmad Khan of Khan Bari, House No-305/A. Road No-4, Tilpapara, Khilgaon, Dhaka 1219, Bangladesh Nationality -Bangladesh
(51) INT. CL. : D06B 23/24
(54) Invention Title: DEOXIDATION AND DECONTAMINATION OF TEXTILE EFFLUENT AND ITS POTENTIAL APPLICATIONS
(57) Abstract

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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Publication No: 38 & Date: 29 October 2026

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2025-105
(22) Filed: 18/03/2025

(23) Priority Data:
N/A

(71) Applicant: Dr. Mubarak Ahmad Khan of Khan Bari, House No-305/A. Road No-4, Tilpapara, Khilgaon, Dhaka 1219, Nationality -Bangladesh, Shafiqul Hassan of 110-112, Parkway, London, NW1 7SX, Nationality -United Kingdom

(72) Inventors: (0) Dr. Mubarak Ahmad Khan of Khan Bari, House No-305/A. Road No-4, Tilpapara, Khilgaon, Dhaka 1219 , Bangladesh Nationality -Bangladesh

(51) INT. CL. : D06P 5/22

(54) Invention Title: ECO-FRIENDLY DYEING: AN ENVIROMENTAL APPROACH FOR SUSTAINABLE TEXTILES

(57) Abstract
Cellulosic fabrics dyeing with reactive dyes require a large amount of salt and alkali. During dyeing, the hydrolysis of reactive dyes results in dyeing effluent containing large amounts of hydrolyzed dye, necessitating a high volume of water for removal in the washing process. Conventional dyeing methods for cotton fabrics demand high concentrations of electrolytes for dye exhaustion and alkali for fixation, contributing to highly colored effluent with elevated salt content, lead to significant environmental pollution issues, particularly in freshwater courses, regarding wastewater and sludge generation. This issue has been mitigated by enhancing the dye substantivity of cellulosic fabrics through salt-free dyeing facilitated by fabric cationization. In this process, cotton fabrics are cationized with a developed coupling agent through a conventional pretreatment process followed by a fixing process in exhaust dyeing method. The results indicate significantly increased dye uptake up to 99%, deepened color yield (KiS value) compared to exhaust dyed fabric, and improved fastness to 4-5 in wash and rubbing. Additionally, the process enhanced fiber-dye affinity, reducing the toxicity of effluent by lowering BOD, COD, and TDS values about 60%, 80% and 86% respectively. These findings demonstrate that the developed coupling agent is an effective fabric cationic agent for salt-free dyeing, offering uses ofless water and prevents harmful chemicals from entering the environment. The textile industry can protect water sources, reduce waste, create eco- friendly products, and balance the tradition with environmental responsibility.

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2025-106
(22) Filed: 18/03/2025

(23) Priority Data:
Japan, Number :2024056121, Date : 29-03-2024.

(71) Applicant: JFE STEEL CORPORATION of 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 1000011, Nationality -Japan

(72) Inventors: (0) Yuto OHBA of c/o Intellectual Property Dept., JFE STEEL CORPORATION, 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 1000011, Japan Nationality -Japan

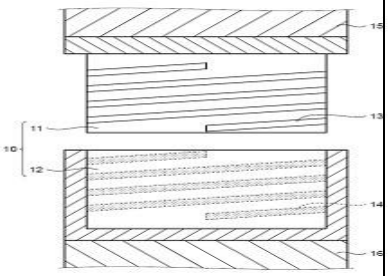
(51) INT. CL. : G01B 21/16

(54) Invention Title: CLEARANCE MEASUREMENT METHOD, CLEARANCE MEASUREMENT DEVICE, THREADED JOINT MEASUREMENT METHOD, THREADED JOINT MEASUREMENT SYSTEM, MEASUREMENT TERMINAL, THREADED JOINT MANUFACTURING METHOD, AND THREADED JOINT QUALITY MANAGEMENT METHOD

(57) Abstract

A clearance measurement method for measuring, for a set of threaded joints including a male joint and a female joint corresponding to the male joint, a clearance between a thread of the male joint and a thread of the female joint includes an initial state setting step of setting an initial state of the male joint and the female joint based on data on a thread shape of each of the male joint and the female joint; a clearance measurement step of measuring the clearance between the thread of the male joint and the thread of the female joint corresponding to the thread of the male joint in the initial state; and a rotation state setting step of setting a state rotated by a predetermined angle in a direction in which joining is performed in a case where the joining between the male joint and the female joint is not completed after the clearance measurement step, in which processing from the clearance measurement step to the rotation state setting step is repeatedly executed until the joining is completed.

FIG.1



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(21) Appl. No. BD-P-2025-107
(22) Filed: 19/03/2025

(23) Priority Data:
Finland, Number :20245482, Date : 16-04-2024.

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

(72) Inventors: (1) SELENIUS, Pasi of c/o Spinnova Oyj, Palokärjentie 2-4, 40320 Jyväskylä, Finland Nationality -Finland, (2) SALMELA, Juha of c/o Spinnova Oyj, Palokärjentie 2-4, 40320 Jyväskylä, Finland Nationality -Finland, (3) NISSINEN, Matias of c/o Spinnova Oyj, Palokärjentie 2-4, 40320 Jyväskylä, Finland Nationality -Finland

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

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

(54) Invention Title: A method of producing an aqueous suspension for manufacturing a fibrous monofilament, a method of manufacturing a fibrous monofilament, and a system for manufacturing a fibrous monofilament.

(57) Abstract

The specification relates to an improved method for producing an aqueous suspension for manufacturing a fibrous monofilament. The method comprises mixing water, natural fibrous material and dispersing agent so as to form a mixture, and exposing the mixture to homogenization in a homogenizer so as to form the aqueous suspension. Further, a method and a system for manufacturing a fibrous monofilament are provided.

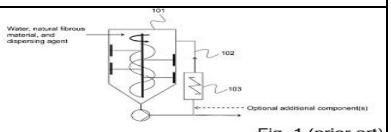


Fig. 1 (prior art)

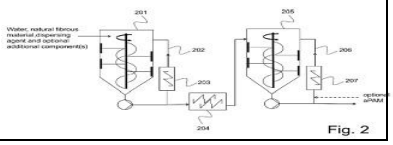


Fig. 2

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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2025-108
(22) Filed: 19/03/2025

(23) Priority Data:
United Kingdom, Number :24050072, Date : 08-04-2024.

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

(72) Inventors: (0) Jani-Pekka KAINULAINEN of 3 Peacock Close, Cottenham, CB24 8BA, United Kingdom Nationality -Finland, (1) Riikka Karoliina DIMNIK of Lohansuontie 7 L, Kirkkonummi, 02880, Finland Nationality -Finland, (2) Tero HENTTONEN of Joupinkuja 4 A 5, Espoo, 02760, Finland Nationality -Finland, (3) Lars DALSGAARD of Torpantie 56, Oulu, 90230, Finland Nationality -Denmark, (4) Matti Juhani KANGAS of Pöllitie 6, Oulu, 90570, Finland Nationality -Finland, (5) Jarkko Tuomo KOSKELA of Kajuuttapiha 3, Oulu, 90510, Finland Nationality -Finland, (6) Ali KARIMIDEHKORDI of Rabenkopfstr. 41, Munich, 81545, Germany Nationality -Iran (Islamic Republic of)

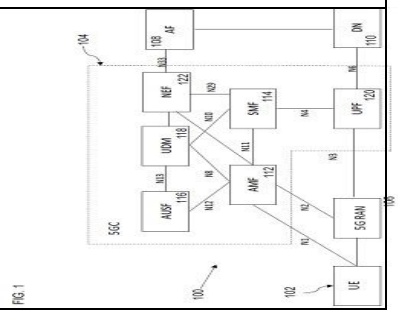
(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : G06G 7/06

(54) Invention Title: METHOD, APPARATUS AND COMPUTER PROGRAM

(57) Abstract

There is provided a communication device comprising: means for obtaining a value for an uncertainty time, andmeans for performing at least one measurement on at least one reference signal. The communication device also comprises:means for determining whether to include the at least one measurement in a report based on a value for a validity time and the value for the uncertainty time, and means for, based on the determining, providing, to a network node, the report comprising the at least one measurement.



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(11) Patent registration No and date ,
(21) Appl. No. BD-P-2025-109
(22) Filed: 19/03/2025

(23) Priority Data:
N/A

(71) Applicant: Mujtaba Fidaul Haq, adorsho praniSheba Ltd of Level-9), J-28/8/D, Mohakhali C/A, Dhaka-1212, Nationality -Bangladesh

(72) Inventors: (1) Mujtaba Fidaul Haq, adorsho praniSheba Ltd of Level-9), J-28/8/D, Mohakhali C/A, Dhaka-1212, Bangladesh Nationality -Bangladesh

(51) INT. CL. : E21C 45/08

(54) Invention Title: Pranisheba Prohori an IoT-Based Remote Cowshade Monitoring System(RCMS)

(57) Abstract
The invention relates to a real time detection, cloud monitoring and call-to-action system for Methane, Ammonia, LPG, Smoke, Temperature and Humidity in the ambient air of any place. This system comprises three sensor units on a single PCB, a humidity and temperature unit, a single main microcontroller unit, a wireless transmitter unit, a LED panel, a power backup and supply unit. The main controller unit receives power from the power backup and supply unit and it distributes the power supply to all other units including the wireless transmitter unit. The wireless transmitter module is a GSM module and a 2.4 GHz Radio frequency module. This remote environment monitoring system has the following features, remote 24*7 data logging in server, custom monitoring panel for user, real time data analysis in the server, emergency alarm and analysis based alarm and call-to-action notification, built-in backup power supply for emergency back-up.

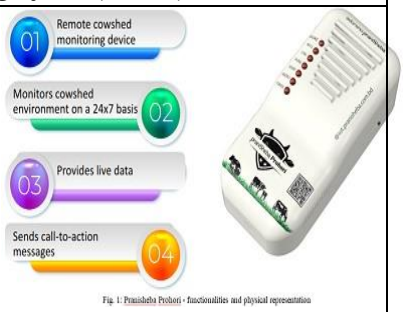


Fig. 1: Pranisheba Prohori - functionalities and physical representation

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Publication of Filed Patent Application
Publication No: 38 & Date: 29 October 2026

(11) Patent registration No and date ,
(21) Appl. No. BD-P-2025-110
(22) Filed: 19/03/2025

(23) Priority Data:
Switzerland, Number :2024103158171, Date : 19-03-2024.

(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, Nationality -China

(72) Inventors: (0) YIN, Jianfeng of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (1) DAI, Wenguang of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (2) LI, Fangneng of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (3) ZHONG, Shuming of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (4) JIANG, Ziyu of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China

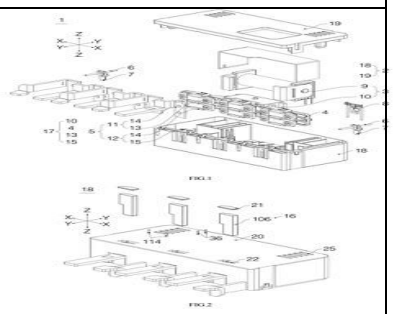
(74) Agent : SUPREMEiP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : G01R 11/04

(54) Invention Title: MOVABLE PART, MAGNETIC LATCHING RELAY AND ELECTRIC METER

(57) Abstract

The present disclosure provides a movable part, a magnetic latching relay and an electric meter. The movable part includes an armature assembly, a push card and a movable contact group; the armature assembly is driven by two magnetic drive ends to move linearly along a Y-axis direction, the push card and the armature assembly are integrally formed by insert injection molding, and the movable contact group is mounted on the push card and born by the push card to abut against or be away from the static contact group. The magnetic latching relay and the electric meter include the above movable part. Compared with the prior art, it is more beneficial to arrange the movable contact group perpendicular to the moving direction of the movable part in a limited space.



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৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, Nationality -China

(72) Inventors: (0) DAI, Wenguang of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (1) YIN, Jianfeng of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (2) LI, Fangneng of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (3) ZHONG, Shuming of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (4) JIANG, Ziyu of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China

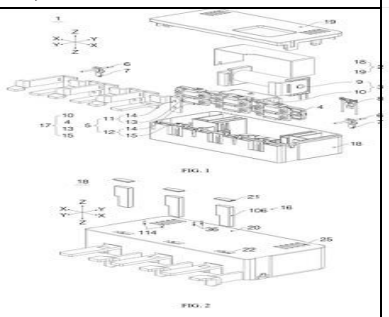
(74) Agent : SUPREMEiP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : G01R 11/04

(54) Invention Title: MAGNETIC CIRCUIT PART, MAGNETIC LATCHING RELAY, AND ELECTRIC METER

(57) Abstract

This application discloses a magnetic circuit part, a magnetic latching relay, and an electric meter. The magnetic circuit part includes an armature assembly and a coil assembly. The armature assembly includes a permanent magnet and two armatures. The two armatures are respectively fixedly connected to two magnetic poles of the permanent magnet. The projections of the two armatures on a first projection plane perpendicular to the Z-axis direction intersect with each other, and intersecting parts that intersect with each other are spaced apart in the Z-axis direction. The coil assembly is provided with two magnetic driving ends arranged in the X-axis direction. The coil assembly is excited by a pulsed electrical signal to reverse the polarities temporarily formed by the two magnetic driving ends, so as to drive the armature assembly to move in the Y-axis direction. The magnetic latching relay and the electric meter include the above magnetic circuit part. By adopting the above technical solutions, compared with the related art, more favorable conditions are created for increasing the safety distance between the movable contact member and the stationary contact member in a limited space.



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(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, Nationality -China

(72) Inventors: (0) YIN, Jianfeng of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (1) LI, Fangneng of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (2) ZHONG, Shuming of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (3) JIANG, Ziyu of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China

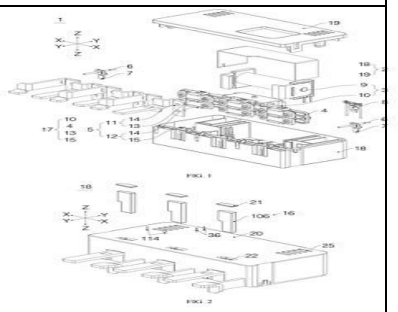
(74) Agent : SUPREMEiP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : G01R 11/04

(54) Invention Title: CONTACT PART, RELAY AND ELECTRIC METER

(57) Abstract

The present disclosure provides a contact part, a relay and an electric meter. The contact part includes a static contact group, a movable contact component and an anti-short circuit unit, the static contact group is provided with a reverse current-carrying part; the movable contact group abuts against or is away from the static contact group along a Y-axis direction, wherein an current-carrying direction of the movable contact group is opposite to that of the reverse current-carrying part along a X-axis direction; and the anti-short circuit unit includes a first magnetizer group fixed relative to the movable contact group and a second magnetizer group fixed relative to the static contact group, wherein the first magnetizer group and the second magnetizer group form a magnetic circuit when the movable contact group carries current; the second magnetizer group is at least partially located between the movable contact group and the reverse current-carrying part along the Y-axis direction. By adopting above technical solution, compared with the contact part in the prior art, the movable contact group and the static contact group are less likely to be separated under a large fault current.



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(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, Nationality -China

(72) Inventors: (0) DAI, Wenguang of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (1) YIN, Jianfeng of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (2) LI, Fangneng of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (3) ZHONG, Shuming of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China, (4) JIANG, Ziyu of No. 93, Yinong Road, Haicang District, Xiamen, Fujian Province 361027, China Nationality -China

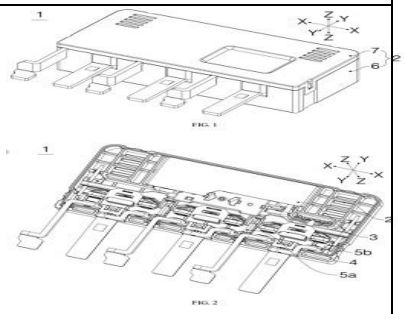
(74) Agent : SUPREMEiP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : H01H 1/58

(54) Invention Title: CONTACT UNIT, ELECTRICAL CONTROL PART AND RELAY

(57) Abstract

This application provides a contact unit, an electrical control part, and a relay. The contact unit includes at least two contact element groups arranged in X-axis direction; the contact element groups include movable contact element groups and stationary contact element groups arranged opposite to each other in Y-axis direction; each movable contact element group includes at least two movable contact elements that are arranged in Z-axis direction and suitable for parallel connection. Some of the movable contact elements are arc-controlling movable contact elements. The arc-controlling movable contact elements have a shorter contact travel in the Y-axis direction compared to other movable contact elements, so that they separate from the stationary contact element group later than the other movable contact elements. Positions of the arc-controlling movable contact elements in the Z-axis direction in adjacent movable contact element groups are different from each other. The electrical control part and the relay include the aforementioned contact unit. By adopting the above technical solution, short circuit problems between different phases are less likely to occur.



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(22) Filed: 24/03/2025

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

(72) Inventors: (0) Yusuke HOSOKAWA of c/o YKK CORPORATION KUROBE, 200, Yoshida, kurobe-shi, Toyama, 938-8601, Japan Nationality -Japan, (1) Ryuji TANOUE of c/o YKK CORPORATION KUROBE, 200, Yoshida, kurobe-shi, Toyama, 938-8601, Japan Nationality -Japan

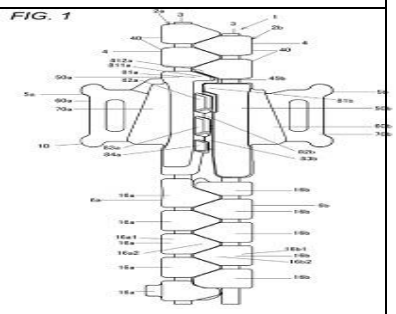
(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : E05C 3/00

(54) Invention Title: REVERSE OPENING DEVICE FOR SLIDE FASTENER AND SLIDE FASTENER

(57) Abstract

The present invention relates to a reverse opening device for a slide fastener in which, when an separable pin as a pin member and a retainer pin as another pin member are accommodated in a pair of sliders, the separable pin can be removed. The pin members each include a pin body that is configured to be fixed to a rear end portion of a string member and that can be accommodated in each of the sliders, a fin that protrudes outward in the width direction from the pin body and on which a cloth is to be placed, and a cloth guide that is configured to guide an edge of the cloth. The cloth guide is raised lower than an upper surface of the pin body from an upper surface of the fin at an inner portion of the fin in the width direction.



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(21) Appl. No. BD-P-2025-124
(22) Filed: 24/03/2025

(23) Priority Data:
Japan, Number :2024016496, Date : 26-04-2024.

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

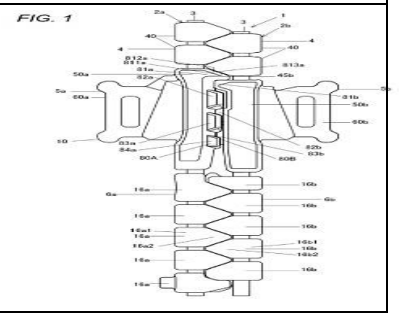
(72) Inventors: (0) Yusuke HOSOKAWA of c/o YKK CORPORATION KUROBE, 200, Yoshida, Kurobe-shi, Toyama, 938-8601, Japan Nationality -Japan

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

(51) INT. CL. : E05B 63/00

(54) Invention Title: SLIDE FASTENER

(57) Abstract
A slide fastener includes a pair of element rows, a reverse opening device that includes a pair of pin members, a pair of string members that separately fix the pair of element rows, and a pair of sliders. The pin member each include a pin body that is fixed to the string member, a fin that protrudes outward in a width direction from the pin body and on which a cloth is to be placed, and a tooth row that includes three or more teeth protruding inward in the width direction from the pin body at intervals in a front-rear direction. In the tooth row, an amount of inward protrusion in the width direction from the string member becomes smaller as the tooth is located more rearward.



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(22) Filed: 24/03/2025

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

(72) Inventors: (1) Yusuke HOSOKAWA of c/o YKK CORPORATION KUROBE, 200 Yoshida, Kurobe-shi, Toyama, 938-8601, Japan Nationality -Japan, (2) Kazuki KATSUKI of c/o YKK CORPORATION KUROBE, 200 Yoshida, Kurobe-shi, Toyama, 938-8601, Japan Nationality -Japan

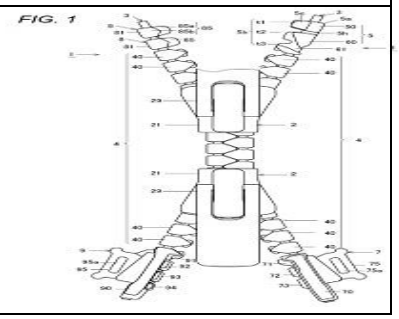
(74) Agent : Remfry & Son Limited , {app_representative_address}, Bangladesh

(51) INT. CL. : E05C 9/04

(54) Invention Title: SLIDE FASTENER STOPPER

(57) Abstract

A slide fastener stopper includes:a guide body portion configured to guide the slider to be movable front and rear; anda stopper body portion configured to stop the forward movement of the slider. The guide body portion includes a passing groove. The stopper body portion includes a stopper portion. The stopper body portion and the guide body portion cooperate to form three or more teeth, on the inner side in the width direction, that are configured to engage with a conveying gear when the fabric is sewn along the element row. At least one of an upper surface and a lower surface at a boundary portion between the guide body portion and the stopper body portion is provided with a sewing thread groove.



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(23) Priority Data:
N/A

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

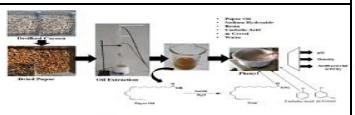
(72) Inventors: (1) DR. MST. SARMINA YEASMIN, Principal Scientific Officer of BCSIR, Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh, (2) MD. MAHMUDUR RAHMAN, Scientific Officer of BCSIR, Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh, (3) TAHMINA AKTER CHOWDHURY, Scientific Officer of BCSIR, Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh, (4) G. M. MASUD RANA, Scientific Officer of BCSIR, Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh, (5) JAYTIRMOY BARMON, Scientific Officer of BCSIR, Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh, (6) BIJOY CHANDRA GHOS, Scientific Officer of BCSIR, Rajshahi Laboratories, Binodpur, Rajshahi-6206, Bangladesh Nationality -Bangladesh

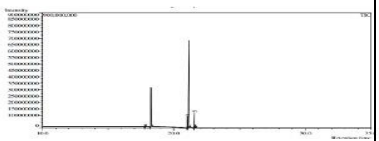
(51) INT. CL. : A23K 10/28

(54) Invention Title: Production of phenyl from sericulture waste

(57) Abstract

The mulberry silkworm (Bombyx mori) pupae obtained from silk industry discarded as waste is good source of oil. The Soxhlet extraction method was used to recover oil (30.4%) from the pulverized dried pupae. The oil was found to have a predominant iodine value of 120±1.14 gI2/100g and saponification value of 201± 1.08 mg KOH/g, which qualified it for soap making in phenyl. Gas Chromatography Mass Spectrophotometer (GCMS) identified five different fatty acids were: palmitoleic acid (C16:1), linoleic acid (C18:2), oleic acid (C18:1), stearic acid (C18:0), and palmitic acid (C16:0). Saturated fatty acid (SFA) was 38.798%, mono-unsaturated fatty acids (MUFA) 46.007%, and poly-unsaturated fatty acid (PUFA) was 15.195%. Disinfectant liquid as phenyl was prepared by utilizing the oil based on its higher oleic acid (45.103%) as major fatty acid and favorable physicochemical characteristics. All eight harmful bacterial strains were susceptible to the antibacterial action of phenol. Phenyl shown substantial suppression against all gram-negative bacteria (20.25±2.99–28.0±2.16 mm) as compared to the positive control, chloramphenicol (15.45±1.75-19.40±1.14 mm), and gram positive bacteria (14.25±2.22-22.5±1.29 mm). The phenyl had highest activity against Pseudomonas aeruginosa followed by Escherichia coli with a zone of inhibition of 28.0±2.16 mm and 23.5±2.08 mm respectively. Phenyl has a maximum minimum inhibitory concentration (MIC) of 110 µL/mL for Pseudomonas aeruginosa and Escherichia coli, as well as 115 µL/mL for Staphylococcus aureus. Prepared disinfectant liquid phenyl was more or less efficient against all bacteria that can be used to kill germs on different surfaces, for a particular length of time. The present invention is totally new not only in Bangladesh but in the whole world.


Figure 1


Figure 2

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৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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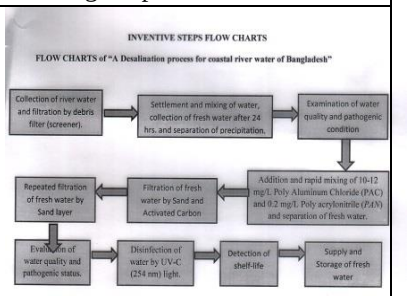
(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Nationality -Bangladesh

(72) Inventors: (1) MD. RIPAJ UDDIN, SO of INARS, BCSIR, DHAKA-1205, Bangladesh Nationality -Bangladesh, (2) SHAHANAZ SULTANA, SO of INARS, BCSIR, DHAKA-1205, Bangladesh Nationality -Bangladesh, (3) SARKER KAMRUZZAMAN, CSO of INARS, BCSIR, DHAKA-1205, Bangladesh Nationality -Bangladesh, (4) Dr. MUHAMMAD ABDULLAH AL MANSUR, PSO of INARS, BCSIR, DHAKA-1205, Bangladesh Nationality -Bangladesh, (5) Dr. MD. AHEDUL AKBOR, PSO of INARS, BCSIR, DHAKA-1205, Bangladesh Nationality -Bangladesh, (6) AHM SHOFIUL ISLAM MOLLA JAMAL, SSO of INARS, BCSIR, DHAKA-1205, Bangladesh Nationality -Bangladesh

(51) INT. CL. : B01J 20/20

(54) Invention Title: Desalination Process of Coastal River Water in Bangladesh for Drinking Purpose.

(57) Abstract
Bangladesh's coastal regions face severe water scarcity due to saline intrusion from rising sea levels, climate change, and groundwater overuse. To address this, an advanced desalination system purifies coastal river water through a five-stage process: screening, coagulation with polyaluminum chloride (PAC), sand filtration, activated carbon filtration, and UV -C disinfection. The sand filter uses layered grains for efficient sediment removal, while activated carbon adsorbs organic pollutants and heavy metals. UV-C light at 254 nm ensures microbial safety, meeting regulatory standards for drinking water. This system significantly reduces salinity, turbidity, and dissolved solids, producing water suitable for consumption. Additionally, sustainable features like activated carbon regeneration and scalable design enhance efficiency. By offering a cost-¬effective solution, this approach improves freshwater availability, addressing vital public health and environmental challenges in Bangladesh's coastal areas.



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৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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(71) Applicant: Shenzhen Earchon Bio- Technique Co. Ltd. of 1702, building a, No. 9, Furong Road, Tantou community, Songgang street, Baoan District, Shenzhen, Nationality -China

(72) Inventors: (1) Rongfeng Huang of 64 Duishang Formation, Fenglin Village, Dianxia Town, Zhangshu City, Jiangxi Province , China Nationality -China, (2) Wei Chen of Annex 1, No. 166 Forest Avenue, Hongshan District, Wuhan, China Nationality -China, (3) Dongmei Liu of 64 Duishang Formation, Fenglin Village, Dianxia Town, Zhangshu City, Jiangxi Province , China Nationality -China, (4) Xianglei Zhang of Room 2110, Block A, Phase III, Lianhua Road, Futian District, Shenzhen, Guangdong, China Nationality -China, (5) Hongji Xie of No.7 Shangkeng, Xintian Village, Shangping Town, Kianping County, Guangdong Province , China Nationality -China, (6) Shumei Chen of 9-14 / F, 17- 20 / F, Tianhong Building, 3019 Shenzhen Bay Section, Zhongxin Road, Nanshan District, Shenzhen, Guangdong , China Nationality -China

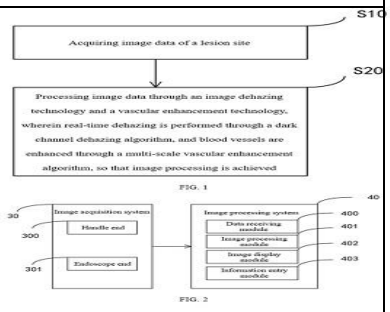
(74) Agent : Md Atiqur Rahman , {app_representative_address}, Bangladesh

(51) INT. CL. : A61B 1/005

(54) Invention Title: ELECTRONIC FLEXIBLE AND RIGID ENDOSCOPE SYSTEM AND METHOD APPLICABLE TO GENE RAL PRACTICE

(57) Abstract

The present invention relates to an electronic flexible and rigid endoscope system and method applicable to general practice. The system comprises: a data acquisition system, configured to acquire image data of a lesion site, and a data processing system, configured to process the image data from the data acquisition system. The data acquisition system comprises a handle end and an endoscope end, the endoscope end comprises an imaging insertion end and an operating end, the imaging insertion end enters the lesion site to acquire images of the lesion site, the operating end controls the action of the imaging insertion end, the handle end sends the image data acquired by the endoscope end to the data processing system, the data processing system comprises a data receiving module and an image processing module, and the data receiving module receives the image data acquired by the data acquisition system.



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Republic of Korea, Number :1020240044881, Date : 02-04-2024.

(71) Applicant: CJ CHEILJEDANG CORPORATION of 330, Dongho-ro, Jung-gu, Seoul 04560, Nationality - Republic of Korea

(72) Inventors: (1) SON, Byung-sam of 330, Dongho-ro, Jung-gu, Seoul 04560, Republic of Korea Nationality - Republic of Korea, (2) CHOI, Eun Jung of 330, Dongho-ro, Jung-gu, Seoul 04560, Republic of Korea Nationality - Republic of Korea, (3) SAGONG, Hye Young of 330, Dongho-ro, Jung-gu, Seoul 04560, Republic of Korea Nationality -Republic of Korea

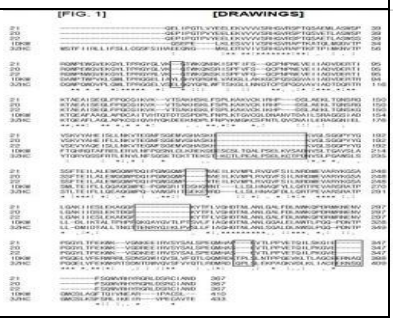
(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : C12N 9/16

(54) Invention Title: NOVEL PHYTASE AND USE THEREOF

(57) Abstract

The present disclosure relates to a method for hydrolysis of phytic acid, comprising: treating a polypeptide having an amino acid sequence, which has an identity of 90% or more to any one or more amino acid sequences of SEQ ID NOS: 20 to 22, on a substrate; a method for preparing a hydrolysate of phytic acid; a composition for reaction with phytic acid, comprising any one or more of the polypeptide; and a host cell comprising the polypeptide, a polynucleotide encoding the polypeptide, or a combination thereof; a composition for hydrolysis of a substrate comprising phytic acid; and use of the polypeptide and host cell for hydrolysis of phytic acid.



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Republic of Korea, Number :1020240044882, Date : 02-04-2024.

(71) Applicant: CJ CHEILJEDANG CORPORATION of 330, Dongho-ro, Jung-gu, Seoul 04560, Nationality - Republic of Korea

(72) Inventors: (1) SON, Byung-sam of 330, Dongho-ro, Jung-gu, Seoul 04560, Republic of Korea Nationality - Republic of Korea, (2) CHOI, Eun Jung of 330, Dongho-ro, Jung-gu, Seoul 04560, Republic of Korea Nationality - Republic of Korea

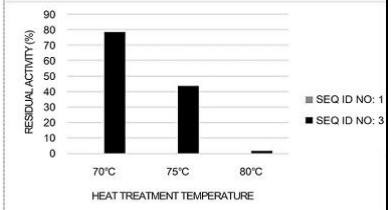
(74) Agent : Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : C12P 13/18

(54) Invention Title: PHYTASE VARIANT

(57) Abstract
Provided are a phytase variant and use thereof.

[DRAWINGS]
[FIG. 1]



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China, Number :2024087349, Date : 11-04-2024.

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

(72) Inventors: (0) Nhat-Quang NHAN of 66, Rue de Venise, Reims, 51100, France Nationality -France, (1) Marco MASO of 20, Avenue Pasteur, Issy les, Moulineaux, 92130, France Nationality -France, (2) Karim KASAN of Lebanese national, 2 Bis Rue Galvani, Massy, 91300, France Nationality -France, (3) Alessio MARCONE of Werinherstrasse 91, Munich, 81541, Germany Nationality -Italy, (4) Jing Yuan SUN of 1601, Building No 4, Block 6 Hepingli, Dongcheng District, Beijing, China Nationality -China, (5) Jie GAO of Hetian Shangcheng 63-1001, No. 365 Liuhe Road, Binjiang District, Hangzhou, 310059, China Nationality -China, (6) Guillermo POCOVI of Spanish national, Øster Sundby vej 18, Aalborg, 9000, Denmark Nationality -China, (7) Youngsoo YUK of 105-1102, 306 Dogok-ro, Gangnam-gu, Seoul, 06275, Republic of Korea Nationality -Republic of Korea, (8) Sheyam Lal DHOMEJA of Peuramaentie 2 i 53, Espoo, 02750, Finland Nationality -Finland

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

(51) INT. CL. : G01R 31/08

(54) Invention Title: DETERMINATION FOR UPLINK REPETITIONS

(57) Abstract

Example embodiments of the present disclosure relate to a solution for determining a set of physical random access channel (PRACH) occasions. In the solution, a first apparatus receives, from a second apparatus, configuration information indicating a plurality of PRACH occasions comprising PRACH occasions in uplink resource and PRACH occasions in sub-band non-overlapping full-duplex (SBFD) resource; determines, based on the configuration information, and for each frequency resource index for frequency multiplexed PRACH occasions, a starting PRACH occasion of a set of PRACH occasions for a PRACH transmission with preamble repetitions from the PRACH occasions in uplink resource and the PRACH occasions in SBFD resource, and performs, to the second apparatus, the PRACH transmission based at least in part on the starting PRACH occasion of the set.

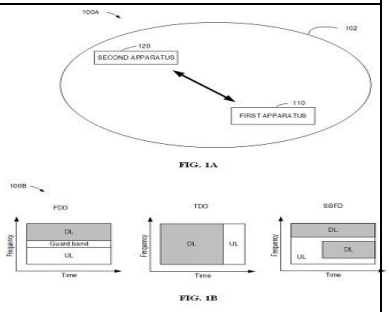


FIG. 1A
FIG. 1B

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N/A

(71) Applicant: LABAID CANCER HOSPITAL AND SUPER SPECIALITY CENTER of 26, Green Road, Dhaka-1205, Nationality -Bangladesh

(72) Inventors: (0) LABAID CANCER HOSPITAL AND SUPER SPECIALITY CENTER of 26, Green Road, Dhaka-1205, Bangladesh Nationality -Bangladesh

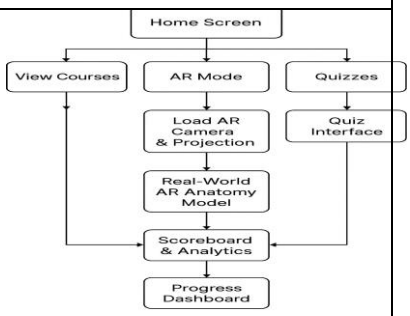
(74) Agent : Labaid , {app_representative_address}, Bangladesh

(51) INT. CL. : G09B 23/28;G09B 5/06

(54) Invention Title: VirtuED: A Device-Based Interactive Augmented Reality-Based Human Anatomy Learning System

(57) Abstract

This invention relates to an interactive device-based learning system integrating 3D anatomy visualization, augmented reality (AR), and gamified assessment mechanisms for enhanced study of human anatomy. The system enables learners to explore anatomical structures layer by layer, perform self-assessment through interactive quizzes, and visualize full-scale anatomical models in real-world environments via AR. The invention improves medical education by combining immersive visualization, dynamic interaction, and progress-driven learning pathways.



Technical Field:

The invention pertains to educational technology (EdTech) and medical education, specifically focusing on interactive anatomy learning systems utilizing 3D visualization, AR-based spatial projection, and gamified evaluation techniques. It resides at the intersection of computing, virtual/augmented reality, and interactive learning systems.

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China, Number :2025201286724, Date : 20-01-2025.

(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China

(72) Inventors: (0) Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, China Nationality -China

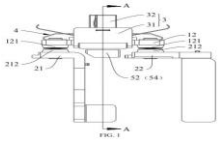
(74) Agent : A.B.M. Sohailud Doulah, Trademark Agent., {app_representative_address}, Bangladesh

(51) INT. CL. : G01R 11/16

(54) Invention Title: RELAY AND ELECTRIC METER

(57) Abstract

The present disclosure relates to the technical field of electronic control devices, in particular to a relay and an electric meter. The relay includes a static contact assembly, a pushing member, a movable contact assembly and an elastic assembly, and a position of the static contact assembly is fixed; the pushing member reciprocates along a first direction. The movable contact assembly as a whole is mounted on the pushing member and is in guided fit with the pushing member along the first direction, the movable contact assembly has an open position and a closed position, and includes a first movable contact member and a second movable contact member, which are arranged along a second direction perpendicular to the first direction and is capable of being connected in parallel. The elastic assembly acts between the pushing member and the movable contact assembly along the first direction. In the closed position, the elastic assembly undergoes deformation to enable contact pressures to be formed both between the first movable contact member and the static contact assembly and between the second movable contact member and the static contact assembly. When moving towards the open position, the pushing member drives the first movable contact member and the second movable contact member to separate sequentially, thereby reducing the contact resistance in an overall loop and ensuring the balance of contact pressures.
(FIG. 1)



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(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China

(72) Inventors: (0) Xiamen Hongfa Electric Power Controls Co., Ltd. of 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, China Nationality -China

(74) Agent : A.B.M. Sohailud Doulah, Trademark Agent., {app_representative_address}, Bangladesh

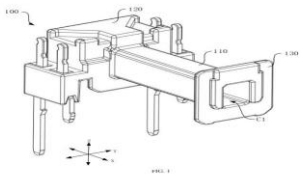
(51) INT. CL. : G01R 15/18

(54) Invention Title: COIL FRAME AND RELAY

(57) Abstract

The present disclosure relates to the technical field of electronic control devices, in particular to a coil frame and a relay. The coil frame includes: a first portion, the first portion is provided with a first cavity extending through two opposite ends of the first portion; along a first direction, the first cavity has a first opening end and a second opening end opposite to each other; an outer contour of the first portion is configured to be smooth; and the outer contour of the first portion is closed to form a first closed region in each plane perpendicular to the first direction, and areas of the first closed region increases sequentially along a direction from the first opening end to the second opening end. Through the optimized structure, the coil frame can reduce the occupied space to reserve more space for coil winding.

(FIG. 4)



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(22) Filed: 02/04/2026

(23) Priority Data:
N/A

(71) Applicant: ALHAZ GK MUSHAHID of Umed Nagor, Agla Bari, Habiganj , Habiganj Sadar, 3300, Bangladesh

(72) Inventors: (0) ALHAZ GK MUSHAHID of Umed Nagor, Agla Bari, Habiganj , Habiganj Sadar, 3300, Bangladesh

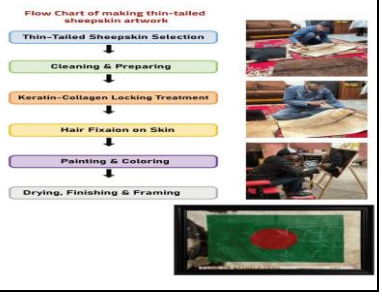
(74) Agent : bd_alhazgkmushahide2ce8, {app_representative_address}, Bangladesh

(51) INT. CL. : B44D 3/18

(54) Invention Title: A Process for Creating Long-Lasting Artistic Canvases Using Thin-Tailed Sheepskin with Keratin-Collagen Locking Technology

(57) Abstract

This invention relates to a novel method for creating long-lasting artistic canvases using thin-tailed sheep or goat skins. In this process, the natural keratin-collagen protein structure of the skin is selectively locked, allowing direct application of color onto the hair surface while preserving the structural integrity of the skin. The method overcomes the durability and structural limitations of conventional canvases or fabrics, providing a stable, long-lasting medium for artwork. This technique is technically novel in the fields of fine arts and materials science and effectively prevents time-dependent degradation of the artwork.



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(23) Priority Data:
N/A

(71) Applicant: Golam Rabbany, Proprietor, WINGS Institute of Research, Innovation, Incubation and Commercialization of G/A, 718/1, West nakhalpara (Lucas more, Battery goli), Tejgaon, Dhaka, 1215, Bangladesh

(72) Inventors: (1) Engr. Golam Rabbany of Department of Computer Science & Engineering, FSIT, Daffodil International University, Daffodil Smart City, Birulia, Savar, Dhaka, 1216, Bangladesh, (2) Md. Rifat Ansari of 29 Ghatarchar,, Keraniganj, , Khalpar,, Dhaka- 1310, Bangladesh, (3) Yousuf Sharker of Shadubari,, Bogra, Sherpur,, Sherpur-5840, Bangladesh, (4) Raisul Islam of Vill: Fatiamari, Union: Puratanpara, P.O. Rouha, District: Sherpur Sadar, Sherpur, 2151, Bangladesh, (5) Rayan Hossain of 100/2 Siddique Bazar, Dhaka, Bangshal,Dhaka, 1000, Bangladesh

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

(51) INT. CL. : B60Q 1/48

(54) Invention Title: Parktally – A Vision-Based AIoT-Integrated device for Automated Parking Operation

(57) Abstract

This invention is a device, which is a vision-based, AI-integrated IoT architecture designed tofully automate vehicle access control and revenue management in gated facilities. The system replaces inefficient manual parking operations with an autonomous, three-layer framework comprising a Sensing Layer for automatic vehicle detection via high-speed break-beam sensors, an Intelligence Layer for real-time license plate recognition and multi-tiered database cross-checking (Authorized, VIP, or Blacklisted), and an Automation Layer managed by a dedicated hardware controller. The custom controller integrates an ESP32-based processor with a W5500 Ethernet module to ensure synchronized, low-latency gate actuation and real- time security logging. A critical innovation is the automated duration matching algorithm for fee calculation, which effectively eliminates revenue leakage and cash handling manipulation. Furthermore, a centralized live monitoring dashboard provides management with full visibility into real-time occupancy, daily revenue metrics, and instant security alerts from any remote location. Designed for modularity and scalability in high-traffic environments like hospitals, corporate offices, and shopping malls, this solution modernizes property management by reducing administrative burden and transforming parking areas into controlled security layers.



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(71) Applicant: OHIO UNIVERSITY of Technology Transfer Office, 340 West State Street – Unit 14 Athens, Ohio 45701, Nationality -United States of America

(72) Inventors: (2) John KOPCHICK of Technology Transfer Office, 340 West State Street – Unit 14 Athens, Ohio 45701, United States of America Nationality -United States of America, (2) Stephen BERGMEIER of Technology Transfer Office, 340 West State Street – Unit 14 Athens, Ohio 45701, United States of America Nationality -United States of America, (3) Reetobrata BASU of Technology Transfer Office, 340 West State Street – Unit 14 Athens, Ohio 45701, India Nationality -India

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

(51) INT. CL. : A61P 5/06

(54) Invention Title: COMPOUNDS FOR THE INHIBITION OF GROWTH HORMONE ACTIVITY AND METHODS OF TREATMENT USING THE SAME

(57) Abstract

A compound having a structure according to Formula (I), Formula (II), or Formula (III):

(I)

(II)

(III)

or a pharmaceutically acceptable salt of any of the foregoing,

where:

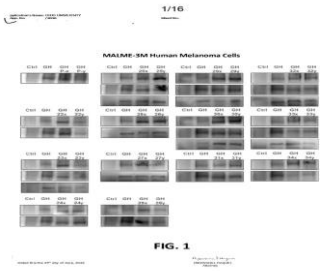
R^1, R^2, R^3, and R^4 are independently selected from (C_1–C_{30})hydrocarbyl, (C_1–C_{30})heterohydrocarbyl, and −H;

Y is −O− or −N(H)−;

X is −CO− or −SO_2−;

Z is −O−, −N(H)−, (C_1–C_{20})hydrocarbylene, or (C_1–C_{20})heterohydrocarbylene; and

R^5 is (C_1–C_{20})hydrocarbyl or (C_1–C_{20})heterohydrocarbyl.



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(22) Filed: 01/07/2026

(23) Priority Data:
China, Number :2025109082448, Date : 02-07-2025.

(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China

(72) Inventors: (0) Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, China Nationality -China

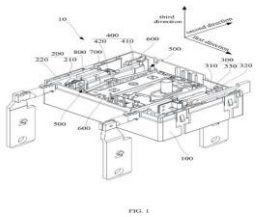
(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : F28D 7/00

(54) Invention Title: RELAY

(57) Abstract

The present disclosure relates to a relay, including: a housing; a stationary spring assembly having a stationary contact; a movable spring assembly having a movable contact opposite to the stationary contact; an armature assembly movably disposed in the housing; and a self-locking assembly including a push card, a connecting shaft and a supporting member, in which an end of the push card is connected to the movable spring assembly and is movably engaged with the supporting member. The armature assembly is capable of driving the connecting shaft to drive the push card and the supporting member to move so that the push card pushes the movable contact and the stationary contact to be closed or opened, and the supporting member is capable of supporting the push card, so that the push card is fixed relative to the connecting shaft to keep the movable contact and the stationary contact closed. In this way, the supporting force provided by the supporting member can resist the action force applied to the push card, so that the supporting member can support the push card to avoid the situation where the movable contact and the stationary contact are opened during a short circuit, thereby improving the reliability of the relay, and reducing a safety hazard of the relay.
(FIG. 5)



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N/A

(71) Applicant: WINGS Institute of Research, Innovation, Incubation and Commercialization (IRIIC) of House: 133, Road: 4, Flat C-G,, Tejgaon, , West Nakhalpara,, 1215, Bangladesh

(72) Inventors: (0) MD MASUM BILLAH of Khirashar Mohonpur, Chandina, Barakoit, Cumilla-3510, Bangladesh, (1) ENGR. GOLAM RABBANY of House: 133, Road: 4,, West Nakhalpara, Flat D-G, Dhaka-1215, Bangladesh, (2) MUHA. HUMAYET ISLAM of Village/Road: Shomospur Purba Para,, Khoksa, Shomospur, Khoksa-7021, Bangladesh

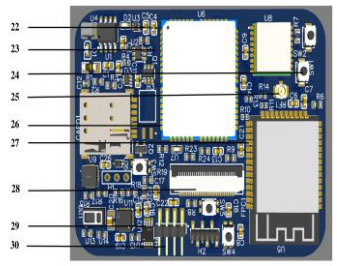
(74) Agent : Golam, {app_representative_address}, Bangladesh

(51) INT. CL. : G04D 3/06

(54) Invention Title: Health Watch: An auto-notifiable Healthcare Watch Using Real-Time Patient Data Monitoring and Doctor Notification

(57) Abstract
The present invention discloses a wrist-worn, Internet of Things (IoT)-based health watch apparatus for real-time patient health monitoring and doctor notifications using a GSM cellular and GPRS network. The apparatus comprises a sensing subsystem for acquiring heart rate, blood oxygen saturation, body temperature, electrocardiogram, and motion data; a wearable processing core configured to execute an onboard Health Severity Evaluation Engine that computes a weighted cumulative Health Severity Index and classifies the patient's condition into discrete severity tiers; a dual-path communication subsystem comprising a GSM or GPRS module and a Wi-Fi module, between which the apparatus autonomously selects for alert transmission according to real-time network availability; an integrated GPS module for patient location tracking; and a local non-volatile memory for historical health-record logging. Upon detection of a critical physiological condition, or upon manual actuation of an onboard emergency button, the apparatus autonomously initiates a coordinated, multi-level notification sequence directed to the patient, a registered caregiver, and the attending physician, defaulting to GSM-based SMS and voice-call alerting where internet connectivity is unavailable, thereby ensuring reliable, infrastructure-light emergency notifications suitable for deployment across both urban and rural healthcare environments.

Figure 3: Three-Dimentional (3D) assembly view of the Health Watch



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N/A

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

(72) Inventors: (1) Md. Reaz Mahamud of Department of Nutrition and Food Engineering FHLS, DIU, Birulia, Savar, Dhaka-1216, Bangladesh Nationality -Bangladesh, (2) DR. NIZAM UDDIN of Department of Nutrition and Food Engineering (NFE), Faculty of Health and Life Sciences (FHLS), Daffodil International University, Daffodil Smart City, Birulia, Savar, Dhaka, 1216, Bangladesh, (3) Dr. Jer-An Lin of , Taiwan Nationality -Taiwan, (4) Md. Safin Ahmed Sami of , Bangladesh Nationality -Bangladesh, (5) Raian Rai of , Bangladesh Nationality -Bangladesh

(74) Agent : Faculty of Graduate Studies , {app_representative_address}, Bangladesh

(51) INT. CL. : A23L 33/105

(54) Invention Title: Hepato-Protective Functional Food Composition Using Fermented Plant Bio-actives and Prebiotic Matrix

(57) Abstract

The Hepato-Protective Functional Food Composition Using Fermented Plant Bioactives and Prebiotic Matrix is a novel fermented plant-based functional food formulation developed by combining bioactive-rich ingredients, prebiotic dietary fibers, plant proteins, natural antioxidants, and functional polysaccharides into a single nutrient-dense food matrix. By integrating fermented black rice, green banana flour, jackfruit seed flour, chickpea and mung bean protein mixture, rice bran, moringa leaf powder, turmeric, ginger, and oyster mushroom-derived β-glucan, the formulation provides a balanced source of nutrients, bioactive compounds, dietary fiber, and antioxidant components to support overall nutritional wellness.

This invention introduces an innovative whole-food-based nutritional approach by utilizing controlled fermentation technology and synergistic interactions among plant-derived ingredients to enhance bioactive compound availability, functional properties, and consumer acceptability. The combination of resistant starch, β-glucan polysaccharides, polyphenols, plant proteins, and naturally occurring micronutrients creates a unique prebiotic-rich functional food matrix designed to promote dietary quality and overall metabolic balance.

Furthermore, this invention emphasizes the utilization of locally available agricultural resources through sustainable processing approaches, creating a clean-label functional food product without dependency on synthetic additives. With its optimized nutritional composition, natural ingredient profile, acceptable sensory characteristics, and shelf-stable formulation, the developed product is suitable for health-conscious consumers seeking convenient and nutrition-focused dietary options.

It is therefore claimed as a unique fermented plant-based functional food innovation with strong potential for patentability, commercial-scale production, and future applications in preventive nutrition, wellness-oriented food markets, and sustainable functional food development.

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(22) Filed: 01/09/2026

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

(72) Inventors: (1) Md. Reaz Mahamud of Department of Nutrition and Food Engineering FHLS, DIU, Birulia, Savar, Dhaka-1216, Bangladesh Nationality -Bangladesh, (2) DR. NIZAM UDDIN of Department of Nutrition and Food Engineering (NFE), Faculty of Health and Life Sciences (FHLS), Daffodil International University, Daffodil Smart City, Birulia, Savar, Dhaka, 1216, Bangladesh, (3) Tony Thomas Nokrek of Department of Nutrition and Food Engineering(NFE),Faculty of Health and Life Sciences(FHLS), Daffodil International University, Daffodil Smart City, Birulia, Savar, Dhaka-1216, 1216, Bangladesh, (4) Mst. Kaifa Akter of , Bangladesh Nationality -Bangladesh, (5) Ummay Kulsom Ema of , Bangladesh Nationality -Bangladesh, (6) Milan Hossain of , Bangladesh Nationality -Bangladesh

(74) Agent : Faculty of Graduate Studies , {app_representative_address}, Bangladesh

(51) INT. CL. : A23L 33/16

(54) Invention Title: Iron-Bioavailability Enhanced Functional Food Bar Using Natural Chelation Technology from Indigenous Plant Sources

(57) Abstract
The Iron-Bioavailability Enhanced Functional Food Bar Using Natural Chelation Technology from Indigenous Plant Sources is a novel plant-based functional food formulation developed by combining natural iron-rich ingredients, vitamin C-containing components, plant proteins, dietary fibers, antioxidants, and essential micronutrients into a single nutrient-dense food matrix. By integrating date paste, germinated black rice powder, chickpea and mung bean protein mixture, black sesame seed powder, pumpkin seeds, peanuts, moringa leaf powder, amla, and guava powder, the formulation provides a balanced source of plant-based nutrients, minerals, and bioactive compounds designed to enhance overall nutritional quality.

This invention introduces an innovative whole-food-based nutritional approach by utilizing natural chelation principles and synergistic interactions among plant-derived minerals, organic acids, antioxidants, and bioactive compounds. The application of germination, roasting, and pretreatment technologies improves nutrient availability, reduces nutritional limitations associated with plant-based ingredients, and enhances the functional characteristics of the final product. The combination of naturally occurring iron, vitamin C, plant proteins, dietary fibers, and antioxidant compounds creates a unique micronutrient-rich functional food bar.

Furthermore, this invention emphasizes the utilization of locally available agricultural resources through sustainable processing approaches, creating a clean-label functional food product without dependency on synthetic additives or artificial fortification. With its optimized nutrient composition, natural ingredient profile, acceptable sensory characteristics, convenient ready-to-eat format, and shelf-stable formulation, the developed product is suitable for health-conscious consumers seeking balanced and nutrient-focused dietary options.

It is therefore claimed as a unique plant-based iron bioavailability-enhanced functional food innovation with strong potential for patentability, commercial-scale production, and future applications in preventive nutrition, wellness-oriented food markets, and sustainable functional food development.

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(23) Priority Data:
N/A

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

(72) Inventors: (1) EASIR ARAFAT PRIME, Student, Dept. of Computer Science & Engineering, FSIT of Daffodil International University, Daffodil Smart City, Birulia, Savar, Dhaka – 1216, Bangladesh Nationality -Bangladesh, (2) Dr. OMAR FARUK, Assistant Professor, Dept. of Management, FBE of Daffodil International University, Daffodil Smart City, Birulia, Savar, Dhaka – 1216, Bangladesh Nationality -Bangladesh, (3) Dr. Mohamed Emran Hossain of , Bangladesh Nationality -Bangladesh, (4) Prof. Dr. M. A. Rahim of , Bangladesh Nationality -Bangladesh, (5) Khalid Been Md. Badruzzaman Biplob of DSC, DIU, Birulia, Savar, Dhaka, Bangladesh., Bangladesh Nationality -Bangladesh

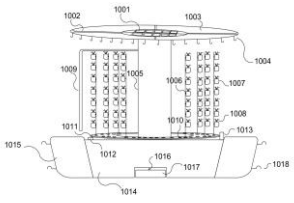
(74) Agent : Faculty of Graduate Studies , {app_representative_address}, Bangladesh

(51) INT. CL. : F03G 6/00

(54) Invention Title: Solar Powered Autonomous Agricultural Cultivation Device with AIoT Driven Monitoring, Sunlight Optimization and Climate Adaptation

(57) Abstract

The present invention is an autonomous agricultural cultivation device which can be used in a soilless cultivation system under flood prone and rainy environments. The device is formed from a base structure and a rotatable cultivation assembly mounted therefor, which is configured to enhance the sunlight's ability to reach the plant's growth areas. A further feature of the device is buoyant support mechanism for maintaining flotation and stability when the device is flooded, and protective cover arrangement for plants to protect them against excessive rainfall and other adverse weather. Solar cells provide power to the device, which further decreases the use of external power. The device also comprises a nutrient delivery system having a nutrient solution and water delivery mechanism directly to plant roots, an environmental monitoring system, comprising sensors and a camera module, for monitoring plant health and environmental conditions around plant roots. A control unit that tracks plant health, identifies diseases, pests, nutrient deficiencies, rotation, nutrient delivery, and more, all based on the environment and crop conditions, with AI and image processing. The device also offers Internet of Things communication for live data transmission and remote monitoring. It is therefore an object of the invention to provide an integrated cultivation device which utilizes resources more effectively, more resilient towards operation and improves agricultural productivity in a soilless cultivation environment while it is adapted to climate. The invention provides an integrated soilless cultivation device with improved utilization of resources, increased ability to withstand operation, and increased agricultural productivity which is adapted to climate.



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৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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China, Number :202521892220, Date : 02-09-2025.

(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China

(72) Inventors: (0) Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, China Nationality -China

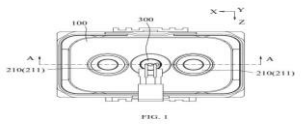
(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : B25D 17/24

(54) Invention Title: RELAY

(57) Abstract

The present application discloses a relay including a stationary contact member, a movable assembly and a disconnecting assembly. The movable assembly includes a movable contact member that can be in contact with the stationary contact member to form at least one conductive path. The disconnecting assembly includes an actuator and an impact member. The actuator is configured to drive the impact member to move in response to an actuation signal, such that the impact member to impact the movable assembly to disconnect at least one of the at least one conductive path, where one of the impact member and the movable assembly has a protrusion and the other of the impact member and the movable assembly has an accommodating portion, and when the impact member impacts the movable assembly, at least a portion of the protrusion can be inserted into the accommodating portion.
(FIG. 2)



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(22) Filed: 01/09/2026

(23) Priority Data:
China, Number :2025218924135, Date : 02-09-2025.

(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China

(72) Inventors: (0) Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, China Nationality -China

(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : B61L 1/08

(54) Invention Title: ACTUATOR AND RELAY

(57) Abstract

The present application discloses an actuator and a relay. The actuator includes a housing and an internal assembly. The housing has a body and a first flange. The first flange is integrally connected with an outer peripheral side surface of the body. The internal assembly is disposed in the body, and the internal assembly is configured to generate an impact force in response to an actuation signal.
(FIG. 2)

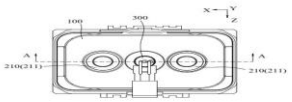


FIG. 1

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China, Number :2025126260, Date : 02-10-2025.

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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

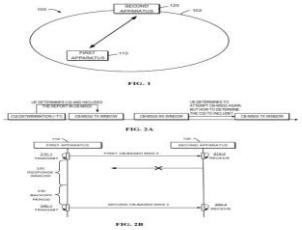
(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : H04W 24/10

(54) Invention Title: CHANNEL QUALITY MEASUREMENT AND REPORTING DURING A TRANSMISSION OF CONTENTION-BASED MESSAGE 3

(57) Abstract

The present disclosure is directed to channel quality measurement and reporting during a transmission of contention-based (CB) Message 3. A method comprises transmitting, to a second apparatus, a first contention-based (CB) Message 3 comprising a first result of channel quality measurement based on a first measurement period; and based on that a CB Message 4 comprising a contention resolution identity of the first apparatus is not successfully received, transmitting to the second apparatus, a second CB Message 3 comprising at least one of the following: the first result of channel quality measurement, or a second result of channel quality measurement based on a second measurement period.



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(22) Filed: 03/09/2026

(23) Priority Data:
Finland, Number :20253519, Date : 16-09-2025.

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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : H04N 19/00

(54) Invention Title: AN APPARATUS, A METHOD AND A COMPUTER PROGRAM FOR VIDEO CODING AND DECODING

(57) Abstract

A method comprising: encoding a payload of a bitstream unit; determining whether the bitstream unit applies across layers of a bitstream; encoding a header of the bitstream unit, wherein the header comprises a layer identifier; and setting, when the bitstream unit applies across the layers, the layer identifier equal to a first layer identifier value indicating that the bitstream unit applies across the layers.

Fig. 2b

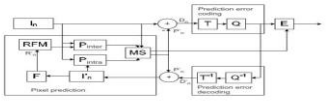


Fig. 1a

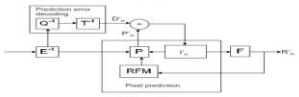


Fig. 1b

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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : H04N 19/00

(54) Invention Title: AN APPARATUS, A METHOD AND A COMPUTER PROGRAM FOR VIDEO CODING AND DECODING

(57) Abstract

A method comprising: obtaining an input bitstream, and parameters for an output sub-bitstream, said parameters comprising an indication of target layers to be included in the output sub-bitstream; setting an output bitstream identical to the input bitstream; and removing from the output bitstream all bitstream units with layer identifier values that are not among layer identifier values of the target layers and not equal to a first layer identifier value to provide the output sub-bitstream.

Fig. 2a

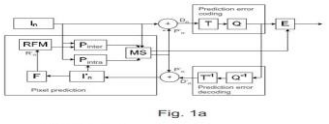


Fig. 1a

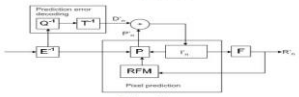


Fig. 1b

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৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China

(72) Inventors: (0) Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, China Nationality -China

(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : H01H 45/00

(54) Invention Title: RELAY

(57) Abstract

The present disclosure relates to a relay including a base, a stationary contact assembly, a movable contact assembly and an elastic member. The stationary contact assembly is mounted to the base and includes a stationary contact. The movable contact assembly is mounted to the base and includes a first lead-out member, a flexible conductive member and a movable contact, the flexible conductive member is provided with a first end and a second end, the first end is connected to the first lead-out member, the movable contact is fixedly disposed with respect to the second end and is electrically connected to the flexible conductive member for contacting with or separating from the stationary contact. An elastic member is mounted to the base for providing contact pressure between the movable contact and the stationary contact.
(FIG. 1)

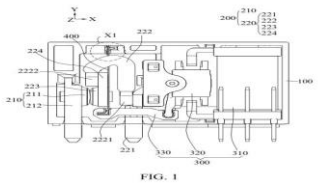


FIG. 1

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

(72) Inventors: (1) Dr. Md. Bellal Hossain of DSC, Birulia, Savar, Dhaka., 1216, Bangladesh, (2) Dr. Arif Chowdhury Apou, Assistant Professor of Department of Public Health, FHLS, DIU, Birulia, Savar, Dhaka-1216, 1216, Bangladesh, (3) Dr. ABM Alauddin Chowdhury of Professor and Head Public Health (FAHS), DIU, DSC, Birulia, Savar, Dhaka., 1216, Bangladesh, (4) Mst. Suraya Akter of Department of Nutrition and Food Engineering, FHLS, DIU, 1216, Bangladesh, (5) Md. Maruf Khan of Department of Nutrition and Food Engineering, FHLS, DIU., 1216, Bangladesh

(74) Agent : Faculty of Graduate Studies , {app_representative_address}, Bangladesh

(51) INT. CL. : A23L 2/39

(54) Invention Title: Development of Coco Golden Milk Powder

(57) Abstract
The present invention relates to Coco Golden Milk Powder, a plant-based, dairy-free functional beverage formulated from coconut milk powder, maca root, amla, ashwagandha, cinnamon, ginger, turmeric, Boswellia, black pepper, saffron, and food-grade excipients. The formulation is developed as a ready-to-use, shelf-stable powdered beverage that is readily dispersible in 200 mL of hot water to produce a smooth and homogeneous functional drink. The product is formulated to provide naturally occurring bioactive compounds, including approximately 120 mg of curcumin, 5 µg of gingerol, and 0.2 µg of total polyphenols per 100 g, together with essential minerals such as 2 mg zinc, 8 mg calcium, and 1.5 mg magnesium. These bioactive constituents impart antioxidant and anti-inflammatory properties, while the inclusion of 1 g black pepper enhances the bioavailability of curcumin. The formulation also provides 0.7 g dietary fiber, 0.5 g protein, 3 g total carbohydrate, and 0.6 g fat per 100 g, contributing to its nutritional value. The manufacturing process involves quality inspection of raw materials, drying, grinding, sieving, blending, moisture adjustment, and hygienic packaging to produce a homogeneous powder with extended shelf stability under ambient storage conditions. The product is free from dairy ingredients and is intended as a convenient functional beverage suitable for regular consumption. Owing to its balanced combination of plant-derived ingredients and functional bioactive compounds, Coco Golden Milk Powder supports general health and wellness by providing antioxidant activity, anti-inflammatory properties, and nutritional supplementation, while offering a convenient, ready-to-prepare beverage for health-conscious consumers.

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৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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India, Number :202511093843, Date : 30-09-2025.

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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

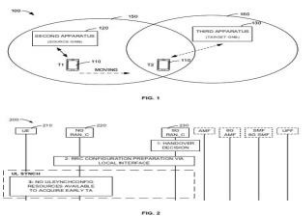
(74) Agent : A.B.M. Sohailud Doulah, Trademark Agent, {app_representative_address}, Bangladesh

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

(54) Invention Title: INTER-RAT MOBILITY

(57) Abstract

The present disclosure is directed to inter-radio access technology (RAT) mobility. In a method, a first apparatus receives, from a second apparatus supporting a first RAT, a message for a mobility from the second apparatus. The message comprises a first container including synchronization information associated with at least one candidate cell supporting a second RAT different from the first RAT and a second container including configuration information associated with the at least one candidate cell. The first apparatus decodes the first container to obtain the synchronization information and performs synchronization with one or more of the at least one candidate cell based on the synchronization information. After completion of the synchronization, the first apparatus decodes the second container to obtain the configuration information and performs a cell switch to a target candidate cell of the one or more of the at least one candidate cell based on the configuration information.



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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

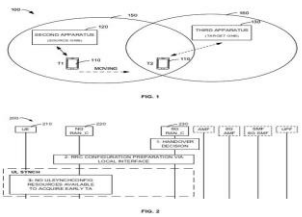
(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

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

(54) Invention Title: INTER-RAT MOBILITY

(57) Abstract

The present disclosure is directed to inter-radio access technology (RAT) mobility. In a method, a first apparatus receives, from a second apparatus supporting a first RAT, synchronization information associated with at least one candidate cell supporting a second RAT different from the first RAT. The first apparatus performs synchronization with one or more of the at least one candidate cell based on the synchronization information. In response to completion of the synchronization, the first apparatus transmits an indication of the completion of the synchronization to the second apparatus. The first apparatus then receives, from the second apparatus, configuration information of the one or more of the at least one candidate cell; and perform a cell switch to a target candidate cell of the one or more of the at least one candidate cell based on the configuration information of the target candidate cell.



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(22) Filed: 10/09/2026

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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

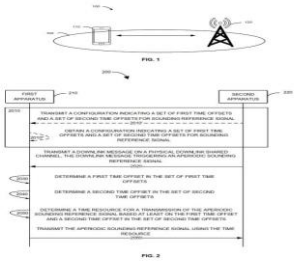
(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : G01R 29/08

(54) Invention Title: PHYSICAL DOWNLINK SHARED CHANNEL TRIGGERED APERIODIC REQUEST

(57) Abstract

The present disclosure is directed to physical downlink shared channel triggered aperiodic request. A method comprises obtaining a configuration indicating a set of first time offsets and a set of second time offsets for sounding reference signal; receiving, from a second apparatus, a downlink message on a physical downlink shared channel, the downlink message triggering an aperiodic sounding reference signal; determining a first time offset in the set of first time offsets; determining a second time offset in the set of second time offsets; determining a time resource for a transmission of the aperiodic sounding reference signal based at least on the first time offset and the second time offset; and transmitting, to the second apparatus, the aperiodic sounding reference signal using the time resource



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(22) Filed: 10/09/2026

(23) Priority Data:
United States of America, Number :63891631, Date : 01-10-2025.

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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

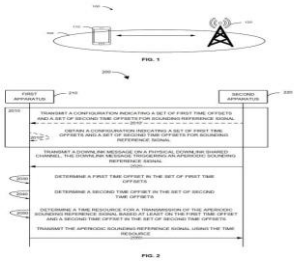
(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : G01R 31/00

(54) Invention Title: PHYSICAL DOWNLINK SHARED CHANNEL TRIGGERED APERIODIC REQUEST

(57) Abstract

The present disclosure is directed to physical downlink shared channel triggered aperiodic request. A method comprises obtaining a configuration indicating a set of time offsets for sounding reference signal; receiving, from a second apparatus, a downlink message on a physical downlink shared channel, the downlink message triggering an aperiodic sounding reference signal; determining a time resource for a transmission of the aperiodic sounding reference signal based at least on a time offset in the set of time offsets; and transmitting, to the second apparatus, the aperiodic sounding reference signal using the time resource.



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(22) Filed: 10/09/2026

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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

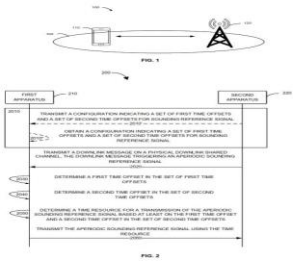
(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : G01R 31/00

(54) Invention Title: PHYSICAL DOWNLINK SHARED CHANNEL TRIGGERED APERIODIC REQUEST

(57) Abstract

The present disclosure is directed to physical downlink shared channel triggered aperiodic request. A method comprises obtaining a configuration indicating a set of first time offsets and a set of second time offsets for channel state information reference signal; receiving, from a second apparatus, a downlink message on a physical downlink shared channel, the downlink message triggering an aperiodic channel state information reference signal; determining a first time offset in the set of first time offsets; determining a second time offset in the set of second time offsets; determining a time resource for an activation of the aperiodic channel state information reference signal based at least on the first time offset and the second time offset; and receiving, from the second apparatus, the aperiodic channel state information reference signal using the time resource



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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

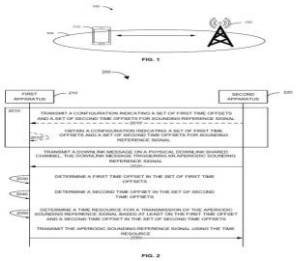
(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : G08C 17/02

(54) Invention Title: PHYSICAL DOWNLINK SHARED CHANNEL TRIGGERED APERIODIC REQUEST

(57) Abstract

The present disclosure is directed to physical downlink shared channel triggered aperiodic request. A method comprises obtaining a configuration indicating a set of time offsets for channel state information reference signal; receiving, from a second apparatus, a downlink message on a physical downlink shared channel, the downlink message triggering an aperiodic channel state information reference signal; determining a time resource for an activation of the aperiodic channel state information reference signal based at least on a time offset in the set of time offsets; and receiving, from the second apparatus, the aperiodic channel state information reference signal using the time resource



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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

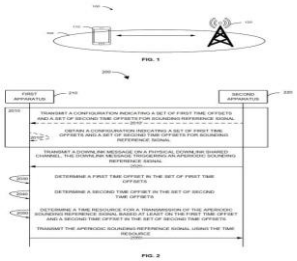
(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : G08C 17/02

(54) Invention Title: PHYSICAL DOWNLINK SHARED CHANNEL TRIGGERED APERIODIC REQUEST

(57) Abstract

The present disclosure are directed to physical downlink shared channel triggered aperiodic request. A method comprises obtaining a configuration indicating a set of time offsets for channel state information report; receiving, from a second apparatus, a downlink message on a physical downlink shared channel, the downlink message triggering an aperiodic channel state information report; determining a time offset in the set of time offsets; determining a time resource for a transmission of the aperiodic channel state information report based at least on the time offset; and transmitting, to the second apparatus, the aperiodic channel state information report using the time resource.



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China, Number :2025113077334, Date : 12-09-2025.

(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China

(72) Inventors: (0) Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, China Nationality -China

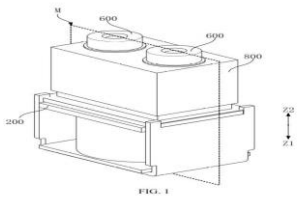
(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : G10L 21/0208

(54) Invention Title: NOISE REDUCTION WASHER AND RELAY

(57) Abstract

The present disclosure relates to the technical field of electronic control devices, and more particularly to a noise reduction washer and a relay. The present disclosure provides a noise reduction washer, including: a fixing portion; a first flexible deformation portion, in which the first flexible deformation portion is connected to the fixing portion, and in a first state, the first flexible deformation portion undergoes deformation for buffering and noise reduction along a first branch direction in a first direction; and a second flexible deformation portion, in which the second flexible deformation portion is connected to the fixing portion, and in a second state, the second flexible deformation portion undergoes deformation for buffering and noise reduction along a second branch direction in the first direction, the second branch direction is opposite to the first branch direction, and the second state is different from the first state. The noise reduction washer can reduce noise generation, suppress noise propagation, and improve a noise reduction effect.
(FIG. 3)



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৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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(22) Filed: 14/09/2026

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N/A

(71) Applicant: University of Global Village (UGV) of 874/322 C & B Road, Barishal, Barishal - 8200, Nationality - Bangladesh

(72) Inventors: (0) University of Global Village (UGV) of 874/322 C & B Road, Barishal, Barishal - 8200, Bangladesh Nationality -Bangladesh

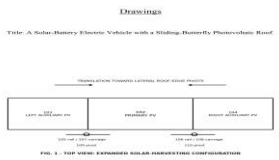
(74) Agent : Md. Imran Chowdhury, Owner, {app_representative_address}, Bangladesh

(51) INT. CL. : B60J 7/20

(54) Invention Title: A Solar-Battery Electric Vehicle with a Sliding-Butterfly Photovoltaic Roof.

(57) Abstract

A reconfigurable photovoltaic roof assembly for a vehicle includes a primary photovoltaic panel and first and second auxiliary photovoltaic panels positioned at opposite lateral sides of a roof frame. Each auxiliary panel is supported by a guide mechanism that permits constrained translation toward a lateral roof-edge pivot. The pivot rotates the auxiliary panel approximately 90 degrees between a substantially horizontal laterally deployed solar-harvesting position and a fully upward substantially vertical running position. A positive locking mechanism retains each auxiliary panel in the running position. In a preferred embodiment, position sensors and a traction interlock withhold propulsion unless both auxiliary panels satisfy a predetermined locked-running-state condition. In one implementation, the primary panel and the two auxiliary panels are each rated at approximately 550 W, providing approximately 1.65 kW combined nameplate photovoltaic capacity in the expanded state. The assembly increases stationary photovoltaic collection area while reducing lateral photovoltaic projection for vehicle movement.



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(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China

(72) Inventors: (0) Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, China Nationality -China

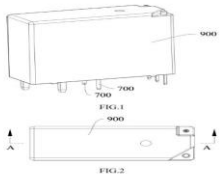
(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : G01R 33/00

(54) Invention Title: RELAY AND ASSEMBLING METHOD THEREOF

(57) Abstract

The present disclosure relates to the technical field of electronic control devices, and in particular, to a relay and an assembling method thereof. The relay includes a magnetic rotary member and an auxiliary movable contact member. The magnetic rotary member is provided with an assembling structure, the assembling structure includes a connecting section and a limiting portion; one end of the connecting section is connected to the magnetic rotary member, the other end of the connecting section is connected to the limiting portion, and a gap is formed between the limiting portion and the magnetic rotary member. The auxiliary movable contact member is provided with an assembling hole, the assembling hole includes a first through hole and a second through hole, and the first through hole is in communication with the second through hole. The limiting portion is capable of passing through the first through hole, so that the connecting section is movable to the second through hole along a direction away from the first through hole relative to the auxiliary movable contact member, and the auxiliary movable contact member is limited between the limiting portion and the magnetic rotary member. The assembling process is simple, which is beneficial to improving assembling efficiency.



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৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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(71) Applicant: Daffodil International University of Daffodil Smart City, Birulia, Savar, Dhaka, 1216, Bangladesh

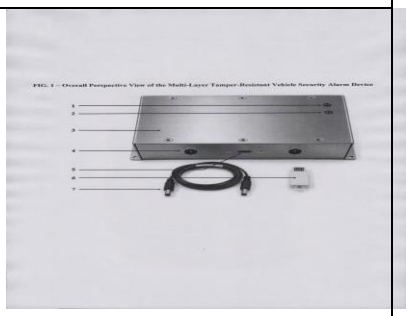
(72) Inventors: (1) Muha. Humayet Islam of , Dhaka, Senior Lecturer, Dept. of CSE, FSIT, DIU, 1216, Bangladesh, (2) Khandakar Arif Mahmud Bokul of , Researcher, Idea Electronics and Microelectronics, Bangladesh Nationality - Bangladesh, (3) Engr. Golam Rabbany of Department of Computer Science & Engineering, FSIT, Daffodil International University, Daffodil Smart City, Birulia, Savar, Dhaka, 1216, Bangladesh, (4) Md Masum Billah of , Dhaka, Assistant Professor Computer Science & Engineering (FSIT), DIU, 1216, Bangladesh, (5) Md. Hasanuzzaman Dipu of , Dhaka, Assistant Professor Computer Science & Engineering (FSIT), DIU, 1216, Bangladesh, (6) Md. Shihab Uddin of , Dhaka, Lecturer (Senior Scale) Computer Science & Engineering (FSIT), DIU, 1216, Bangladesh, (7) Dr. Fernaz Narin Nur of , Dhaka, Professor Computer Science & Engineering (FSIT), DIU, 1216, Bangladesh, (8) M.M. Alam of , Professor, EEE, IU, 1216, Bangladesh

(74) Agent : Faculty of Graduate Studies , {app_representative_address}, Bangladesh

(51) INT. CL. : B60R 25/10

(54) Invention Title: Multi-Layer Tamper-Resistant Vehicle Security Alarm System

(57) Abstract
The present invention is directed to a multi-layer vehicle security alarm device to prevent unauthorized access and theft of low voltage vehicles such as battery operated vehicles, including electric rickshaws, easy bikes, auto-rickshaws, electric vans, motorcycles, etc. It consists of a tamper-proof stainless steel enclosure which contains a printed circuit board (PCB), a Central Control Unit (CCU), a wire integrity monitoring circuit, a vibration detection module, a power supply guard, a USB authentication interface, a rechargeable back-up battery, LED status indicators, and an audible alarm unit. A dedicated security wire is installed between two connector sockets and creates a continuous electrical circuit which is monitored around the vehicle or a protected part of the vehicle. The control unit is constantly monitoring if there is any damage in the security wire, vibration of the vehicle and power supply conditions. Excessive vibrations, tampering, interruption of the primary power supply or disconnections of the wires are immediately detected and automatically trigger a high-intensity audible alarm. If the vehicle battery fails or is disconnected, the security device automatically powers on from its built-in rechargeable battery so that security functions are not interrupted. The USB based authentication allows only the authorized user to enable/disable the security system. The invention provides a reliable, low cost, compact, robust, standalone, and broad range of operation anti-theft security solution that operates from 9-24 V DC and does not require wireless communication, GPS or an external monitoring infrastructure with the vehicle.



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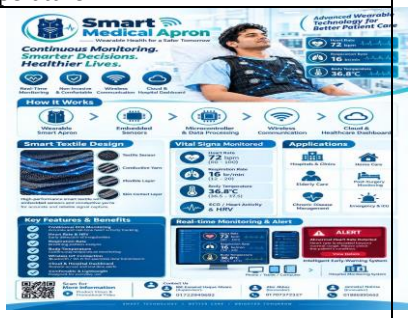
(71) Applicant: Md. Eanamul Haque of Department of Textile Engineering, Southeast University, Dhaka, Tejgaon, Dhaka-, 1213, Bangladesh

(72) Inventors: (0) Md. Eanamul Haque of Department of Textile Engineering, Southeast University, Dhaka, Tejgaon, Dhaka-, 1213, Bangladesh, (1) Md. Abir of Department of Textile engineering, Southeast University, Dhaka, Tejgaon, Dhaka, 1213, Bangladesh, (2) Ms Jannatul of Department of Textile engineering, Southeast University, Dhaka, Tejgaon, Dhaka, 1213, Bangladesh

(74) Agent : Md. Eanamul Haque , {app_representative_address}, Bangladesh

(51) INT. CL. : H04W 12/33

(54) Invention Title: A Sensor-Embedded Smart Medical Monitoring Vest in Apron-Style Configuration for Continuous and Wireless Monitoring of Heart Rate, Respiration Rate, and Body Temperature



(57) Abstract

Purpose: Smart healthcare textiles have emerged as an effective approach for continuous and non-invasive monitoring of vital physiological parameters. The purpose of this study is to design, develop, and evaluate a smart medical patient apron integrated with textile-based sensors for the real-time monitoring of heart rate, respiration rate, and body temperature. The research aims to examine whether textile-integrated sensing systems can deliver clinically reliable biosignals while ensuring user comfort, durability, and suitability for long-term healthcare applications.

Methods: The smart apron was fabricated using a breathable cotton-polyester blended fabric and treated with antimicrobial finishing to enhance hygiene, comfort, and prolonged clinical usability. Flexible textile electrodes and conductive yarns were embedded within the garment structure to enable stable biosignal acquisition without restricting user mobility. A low-power microcontroller-based electronic unit was developed for signal conditioning, noise reduction, and IoT-enabled wireless data transmission using Bluetooth Low Energy. System performance was evaluated through comparative testing with standard medical devices, washability and durability assessments, power consumption analysis, and user-centered wearability trials.

Results: Experimental validation demonstrated strong agreement between the proposed system and reference medical instruments, with mean absolute errors of 1.8-2.3 bpm for heart rate, 1.2-1.6 breaths/min for respiration rate, and ±0.3 °C for body temperature. The system retained more than 85% functional performance after 20 laundering cycles. Power analysis confirmed continuous monitoring capability exceeding 30 hours, while user trials reported satisfactory thermal comfort, flexibility, and overall wearability during extended use.

Conclusion: The proposed Smart Medical Monitoring Vest (Apron-Style Configuration) provides a reliable, non-invasive, and durable solution for continuous physiological monitoring. The system delivers AI-ready, real-time health data, supporting remote patient monitoring, IoT-enabled telemedicine, and future smart healthcare applications.

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

(72) Inventors: (1) Professor Dr. A.K.M. FAZLUL HAQUE of DIU, Birulia, Ashulia, Dhaka, Professor Information & Communication Engineering (FEngr), Bangladesh Nationality -Bangladesh, (2) Joy Shil of , Dhaka, DIU, 1216, Bangladesh, (3) Afsara Tasnim of , DIU, 1216, Bangladesh, (4) Tasikul Islam of , Dhaka, Information & Communication Engineering (FEngr), 1216, Bangladesh

(74) Agent : Faculty of Graduate Studies , {app_representative_address}, Bangladesh

(51) INT. CL. : G07C 9/00

(54) Invention Title: Smart Personnel Identification Mechanism Using Deep Learning Approach.

(57) Abstract
This invention presents a smart personnel identification mechanism using a deep learning approach for real-time security monitoring in campuses, offices, industrial facilities, and other restricted environments. The system captures facial images from live video streams, detects facial regions, extracts facial landmarks, converts facial features into numerical embeddings, and compares the generated embeddings with an authorized personnel database. The invention uses a structured multi-angle personnel dataset containing frontal, left-side, and right-side facial images to improve recognition under varied face orientations. The system applies threshold-based face matching to classify individuals as authorized or unknown. When an unknown person is detected, the system automatically sends an SMS alert to the designated security personnel, enabling rapid response. The system is modular, scalable, cost-effective, and compatible with standard webcams, CCTV cameras, and IP camera infrastructure. The invention reduces the dependency on manual surveillance, improves real-time identity verification, and provides an efficient smart security solution for institutional and professional environments.

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৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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(71) Applicant: LABAID CANCER HOSPITAL AND SUPER SPECIALITY CENTER of 26, Green Road, Dhaka-1205, Nationality -Bangladesh

(72) Inventors: (0) LABAID CANCER HOSPITAL AND SUPER SPECIALITY CENTER of 26, Green Road, Dhaka-1205, Bangladesh Nationality -Bangladesh

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

(51) INT. CL. : G09C 1/00

(54) Invention Title: System and Method for a Portable Offline-Verifiable Signed Clinical Record with Separated Identity Digests and Fail-Closed Decisioning.

(57) Abstract

A portable clinical record file carries a signed prescription together with its lifecycle events inside a bounded chunked container. A fixed bootstrap header enables a reader to compute its complete decode-memory budget from the first fifty-six bytes and to refuse malformed input at a deterministic byte position. Clinical payloads employ a float-free deterministic encoding in which every quantity is represented as an exact decimal or reduced fraction bound to a mandatory unit code. A signed manifest of decoded-payload hashes maintains the signed-state identity distinct from the artifact, disclosure-view, revision, and fold identities, thereby permitting authorized chunks to be removed without a signing key while the signatures remain valid. Offline trust resolution derives per-role assurance from a locally cached, signed trust list. Dispensability is evaluated fail-closed by a fixed decision ladder that never substitutes default values for missing time, policy, or event evidence. Individually signed lifecycle events are admitted through a causally directed acyclic graph and reduced under a bound fold contract. A pre-composed, source-mapped display list renders the legally authoritative view without invoking a layout engine at read time. Provenance-bound text projections render the record searchable and retrievable while ensuring that model-generated output is never granted clinical authority.



Figure 1. File anatomy and chunk frame

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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

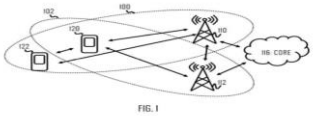
(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : G01R 29/08

(54) Invention Title: SYSTEMS, METHODS, AND APPARTUSES FOR CHANNEL STATE INFORMATION REPORTING IN CONTENTION BASED RANDOM ACCESS PROCEDURES

(57) Abstract

A user equipment (UE) includes at least one memory and at least one processor. The at least one memory is configured to store instructions. The at least one processor is configured to execute the instructions to cause the UE to: receive a handover command from a first cell triggering a cell switch to a candidate cell; perform a random access procedure with the candidate cell; and transmit a CSI report to the candidate cell on a first physical uplink shared channel (PUSCH) transmission, the first PUSCH transmission being based on a grant message received in response to at least one of a preamble message in a 2-step random access procedure or a scheduled transmission message in a 4-step random access procedure.



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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

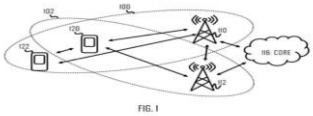
(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

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(54) Invention Title: SYSTEMS, METHODS, AND APPARTUSES FOR CHANNEL STATE INFOMRATION REPORTING IN CONTENTION BASED RANDOM ACCESS PROCEDURES

(57) Abstract

A user equipment (UE) includes at least one memory and at least one processor. The at least one memory is configured to store instructions. The at least one processor is configured to execute the instructions to cause the UE to: receive a handover command from a first cell triggering a cell switch to a candidate cell, perform a random access procedure with the candidate cell, receive, from the candidate cell, a physical downlink control channel (PDCCH) transmission during the random access procedure, the PDCCH transmission including scheduling information for a physical uplink shared channel (PUSCH) transmission to the candidate cell, and transmit a channel state information (CSI) report to the candidate cell on the PUSCH transmission based on the scheduling information.



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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

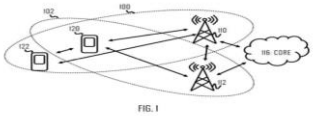
(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : G01R 29/08;G01S 3/00

(54) Invention Title: SYSTEMS, METHODS, AND APPARTUSES FOR CHANNEL STATE INFORMATION REPORTING IN CONTENTION BASED RANDOM ACCESS PROCEDURES

(57) Abstract

A user equipment (UE) includes at least one memory and at least one processor. The at least one memory is configured to store instructions. The at least one processor is configured to execute the instructions to cause the UE to: receive a handover command from a first cell triggering a cell switch to a candidate cell, perform a random access procedure with the candidate cell, and transmit a channel state information (CSI) report to the candidate cell on a first uplink transmission after completion of the random access procedure.



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(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-ken 938-8601, Japan Nationality -Japan, (2) NAKATA, Yoshifumi of c/o YKK CORPORATION KUROBE. 200, Yoshida, Kurobe-shi, Toyama-ken 938-8601, Japan Nationality -Japan, (3) KURAMOTO, Taku of c/o YKK CORPORATION KUROBE. 200, Yoshida, Kurobe-shi, Toyama-ken 938-8601, Japan Nationality -Japan

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

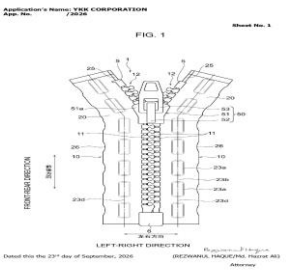
(51) INT. CL. : B21F 45/18

(54) Invention Title: FASTENER TAPE, FASTENER STRINGER, AND SLIDE FASTENER

(57) Abstract

A B S T R A C T

A fastener tape (20) of the present invention has an element attachment region (21), an adjacent region (22) adjacent to the element attachment region (21), a selvedge region (24), and an intermediate region (23) disposed between the adjacent region (22) and the selvedge region (24) in a tape width direction, in which the intermediate region (23) has a plurality of processed recess portions (23a) formed by a pressing process, in which a first tape surface at each processed recess portion (23a) is disposed to be depressed relative to the first tape surface at the adjacent region (22) and the selvedge region (24) while a second tape surface thereof is disposed to protrude relative to the second tape surface at the adjacent region (22) and the selvedge region (24), or the first tape surface at each processed recess portion (23a) is disposed to protrude relative to the first tape surface at the adjacent region (22) and the selvedge region (24) while the second tape surface thereof is disposed to be depressed relative to the second tape surface at the adjacent region (22) and the selvedge region (24). Consequently, it is possible to reduce the likelihood of generation of an undulating corrugated shape in the element attachment region (21) when the fastener tape (20) is sewn to a fabric or the like.



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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : H04B 7/06

(54) Invention Title: Channel State Information

(57) Abstract

Methods, apparatus and systems for enabling channel state information are disclosed.

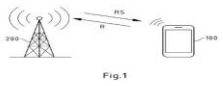


Fig.1

Fig. 1

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

(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, Espoo 02610, Finland Nationality -Finland

(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, {app_representative_address}, Bangladesh

(51) INT. CL. : H04B 7/06

(54) Invention Title: Channel State Information

(57) Abstract

Methods, apparatus and systems for enabling channel state information are disclosed.

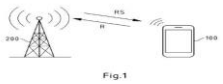


Fig.1

Fig. 1