

# PATENT JOURNAL

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MAY 2021

VOL 54 • No. 05



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## Part II of II

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ISSUED MONTHLY

DATE OF ISSUE: 26 MAY 2021

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ISSN 2223-4837

# PATENT JOURNAL

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**VOL. 54 No. 05**

**Date of Issue: 26 MAY 2021**

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## 2. PATENTS

## PATENTS

## APPLICATIONS FOR PATENTS

Copies of these specifications cannot be supplied until the applications have been accepted and advertised, or in the case of convention applications, until 18 months from the date of the application in the convention

## THE PARTICULARS APPEAR IN THE FOLLOWING SEQUENCE:

The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(DA)** Date of acceptance. **(51)** Class. **(71)** Name of applicant(s). **(72)** Name of all inventors. **(33)** Country. **(31)** Number and **(32)** Date of convention application. **(54)** Title of invention. **(00)** Number of sheets.

- APPLIED ON 4/26/2021 -

2021/02763 ~ Provisional ~54:BARBEQUE STAND ~71:GIDEON HITCHCOCK, 10 Strand Street, South Africa ~72: GIDEON HITCHCOCK;GIDEON HITCHCOCK~

2021/02764 ~ Provisional ~54:A STABILISING ASSEMBLY ~71:NELL, Johannes, 471 QUEENS CRESCENT, LYNNWOOD, PRETORIA, 0081, South Africa ~72: NELL, Johannes~

2021/02769 ~ Complete ~54:BILE ACID DERIVATIVES AS FXR/TGR5 AGONISTS AND METHODS OF USE THEREOF ~71:ENANTA PHARMACEUTICALS, INC., 500 ARSENAL STREET, WATERTOWN, MASSACHUSETTS 02472, USA, United States of America ~72: DAI, Peng;GRANGER, Brett;HE, Jing;LONG, Jiang;OR, Yat, Sun;SHEN, Ruichao;WANG, Guoqiang;XING, Xuechao~ 33:US ~31:62/140,927 ~32:31/03/2015;33:US ~31:62/287,267 ~32:26/01/2016

2021/02767 ~ Provisional ~54:CELLSAVE ~71:Phillip van Heerden, 59 Rietkol, South Africa ~72: Phillip van Heerden~

2021/02773 ~ Complete ~54:NOVEL CD47 ANTIBODIES AND METHODS OF USING SAME ~71:I-MAB BIOPHARMA US LIMITED, 9801 Washingtonian Blvd., Suite 710, United States of America ~72: CAO, Wei;FANG, Lei;GUO, Bingshi;WANG, Zhengyi~ 33:CN ~31:PCT/CN2018/113126 ~32:31/10/2018

2021/02854 ~ Provisional ~54:VIREACT ~71:Tshehofatso Meagan Chauke Adonis, 30 Middelton Mooikloof,, South Africa ~72: Tshehofatso Meagan Chauke Adonis~

2021/02850 ~ Provisional ~54:POWER-SELF DIRECT CURRENT MOTOR (PSDC MOTOR) ~71:MELUSI CHRISTOPHER NTULI, B889 GAXANKULU STREET,, South Africa ~72: MELUSI CHRISTOPHER NTULI~

2021/02778 ~ Complete ~54:MONOACYLGLYCEROL LIPASE MODULATORS ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: AMERIKS, Michael K.;CHEN, Gang;HUANG, Chaofeng;LAFORTEZA, Brian Ngo;RAVULA, Suchitra;SOUTHGATE, Emma Helen;ZHANG, Wei~ 33:US ~31:62/738,600 ~32:28/09/2018

2021/02781 ~ Complete ~54:AEROSOLISABLE FORMULATION ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CABOT, Ross~ 33:GB ~31:1817865.7 ~32:01/11/2018

2021/02782 ~ Complete ~54:GEL AND CRYSTALLINE POWDER ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CABOT, Ross~ 33:GB ~31:1817861.6 ~32:01/11/2018

2021/02786 ~ Complete ~54:CAN BODY DECORATOR HAVING A MANDREL PRE-SPIN ASSEMBLY AND INFEED IMPROVEMENTS ~71:Crown Packaging Technology, Inc., 11535 South Central Avenue, ALSIP 60803, IL, USA, United States of America ~72: BAILEY, Damien;BLAKE, Daren;COATES, Michael Jonathan;EGERTON, Daniel;HALSTEAD, Michael~ 33:US ~31:62/753,818 ~32:31/10/2018

2021/02789 ~ Complete ~54:KLK5 INHIBITORY PEPTIDE ~71:Daiichi Sankyo Company, Limited, 3-5-1, Nihonbashi Honcho, Chuo-ku, TOKYO 103-8426, JAPAN, Japan ~72: NISHIMIYA, Daisuke;OFUCHI, Shiho;TAKAHASHI, Hidenori;YAMAGUCHI, Shinji;YANO, Hidenori~ 33:JP ~31:2018-209729 ~32:07/11/2018

2021/02793 ~ Complete ~54:IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang'an Dongguan, Guangdong, 523860, People's Republic of China ~72: BAE KEUN LEE~ 33:KR ~31:10-2018-0136256 ~32:08/11/2018;33:KR ~31:10-2018-0148948 ~32:27/11/2018

2021/02796 ~ Complete ~54:TELECOMMUNICATIONS TERMINAL WITH STUB CABLE ~71:COMMSCOPE TECHNOLOGIES LLC, 1100 CommScope Place SE, Hickory, North Carolina, 28602, United States of America ~72: JOHAN GEENS;PHILIPPE COENEGRACHT;PIETER DOULTREMONT~ 33:US ~31:62/747,810 ~32:19/10/2018

2021/02774 ~ Complete ~54:ACTIVATION OF GROUND GRANULATED BLAST FURNACE SLAG ~71:SIKA TECHNOLOGY AG, ZUGERSTRASSE 50, CH-6340 BAAR, SWITZERLAND, Switzerland ~72: DUPOUY, Lissa;HAUGUEL, Lolita;LIARD, Maxime;LOOTENS, Didier~ 33:EP ~31:18198197.8 ~32:02/10/2018

2021/02776 ~ Complete ~54:LOCKING MECHANISM FOR A WEAR ASSEMBLY ~71:TALON ENGINEERING SDN BHD, No. 10A and 10B, Jalan Pengkalan Putra 1, Pusat Perniagaan Pengkalan Putra, Jalan Pasir Puteh Ipoh, Malaysia ~72: DENNIS, Neil Robert~ 33:AU ~31:2018904293 ~32:09/11/2018

2021/02784 ~ Complete ~54:CHIMERIC ANTIGEN RECEPTORS TARGETING B-CELL MATURATION ANTIGEN AND METHODS OF USE THEREOF ~71:Allogene Therapeutics, Inc., 210 E. Grand Avenue, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: BALAKUMARAN, Arun;CHANG, David;KONTO, Cyril Alkis~ 33:US ~31:62/774,209 ~32:01/12/2018;33:US ~31:62/816,187 ~32:10/03/2019;33:US ~31:62/931,487 ~32:06/11/2019

2021/03002 ~ Provisional ~54:MONITORING ARRANGEMENT FOR A WEAR PART ~71:RODRIGUES: JORGE OMAR, 11 SUNRISE AVENUE, MAROELANA, South Africa;SMIT: HENDRIK VAN ZYL, 98 SELROSE PARK, 5 GRIFFITH AVENUE, EQUESTRIA, South Africa ~72: RODRIGUES: JORGE OMAR;SMIT: HENDRIK VAN ZYL~

2021/02772 ~ Complete ~54:HYBRID MACHINE LEARNING MODEL FOR CODE CLASSIFICATION ~71:DOW GLOBAL TECHNOLOGIES LLC, 2040 Dow Center Midland, United States of America ~72: DEB, Kalyanmoy;DHEBAR, Yashesh, Deepakkumer;GOODMAN, Erik, David;ROTHHAAR, Vicki;WANG, Chun;WASSICK, John, Martin~ 33:US ~31:62/738,482 ~32:28/09/2018

2021/02780 ~ Complete ~54:MACHINE LEARNING TECHNIQUES FOR IDENTIFYING CLOUDS AND CLOUD SHADOWS IN SATELLITE IMAGERY ~71:The Climate Corporation, 201 3rd Street #1100, SAN FRANCISCO 94103, CA, USA, United States of America ~72: DEVECIGIL, Demir;GUAN, Wei;KHADKA, Pramithus;SHE, Ying;YANG, Xiaoyuan~ 33:US ~31:62/748,293 ~32:19/10/2018

2021/02783 ~ Complete ~54:NOVEL SALT OF A BCL-2 INHIBITOR, RELATED CRYSTALLINE FORM, METHOD FOR PREPARING THE SAME AND PHARMACEUTICAL COMPOSITIONS CONTAINING THE SAME ~71:Les Laboratoires Servier, 35 rue de Verdun, SURESNES 92284, FRANCE, France;Vernalis (R&D) Limited, Granta Park, CAMBRIDGE CB21 6GB, CAMBRIDGESHIRE, UNITED KINGDOM, United Kingdom ~72:

LYNCH, Michael;MASSON, Ludovic;MOUCHET, Patrick;TAULELLE, Pascal;VILLARD, Fr&#233;d&#233;ric~ 33:EP ~31:18306430.2 ~32:31/10/2018

2021/02792 ~ Complete ~54:METHOD FOR REFINING BIO-BASED PROPYLENE GLYCOL ~71:CHANGCHUN MEIHE SCIENCE AND TECHNOLOGY DEVELOPMENT CO., LTD., No. 2919 Foshan Street, Economic Development Zone Changchun, Jilin, 130102, People's Republic of China ~72: YI YUAN~ 33:CN ~31:201811151458.1 ~32:29/09/2018

2021/02795 ~ Complete ~54:METHOD OF TREATMENT OF A SURFACE ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: GORDON RAMAGE;NEIL JAMES PARRY;PANAGIOTIS KOTSAKIS;TRACY LYNN YOUNG~ 33:EP ~31:18205274.6 ~32:08/11/2018

2021/02799 ~ Complete ~54:HUMANIZED ANTI-SIRPALPHA ANTIBODIES ~71:BYONDIS B.V., Microweg 22, 6545 CM, Nijmegen, Netherlands ~72: GIJSBERTUS FRANCISCUS MARIA VERHEIJDEN~ 33:EP ~31:18206594.6 ~32:15/11/2018

2021/02800 ~ Complete ~54:ULTRA-DEEP UNDERGROUND TRACTION SYSTEM HAVING HORIZONTAL DRIVING LAYOUT AND METHOD OF USE ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, No. 1, Daxue Road, Tongshan, Xuzhou, Jiangsu, 221116, People's Republic of China ~72: GONGBO ZHOU;GUOHUA CAO;YU TANG;YUXING PENG;ZHENCAI ZHU~ 33:CN ~31:201811541185.1 ~32:17/12/2018

2021/02765 ~ Provisional ~54:AIRCURRENCY ~71:VELLY SIPHO PHALOANE, 4669 MNDENI CRES, South Africa ~72: VELLY SIPHO PHALOANE~

2021/02787 ~ Complete ~54:OLIGOSACCHARIDE COMPOSITIONS AND METHODS OF USE THEREOF ~71:Kaleido Biosciences, Inc., 65 Hayden Avenue, LEXINGTON 02421, MA, USA, United States of America ~72: ANTALEK, Mitchell;GEREMIA, John M.;LAWRENCE, Jonathan;LIOUBOMIROV, Anastasia;LIU, Christopher Matthew;MEEHAN, Brian;YATSUNENKO, Tanya~ 33:US ~31:62/757,716 ~32:08/11/2018;33:US ~31:62/845,299 ~32:08/05/2019

2021/02771 ~ Complete ~54:THERAPEUTIC AGENT FOR FIBROSIS ~71:Kyorin Pharmaceutical Co., Ltd., 6, Kanda Surugadai 4-chome, Chiyoda-ku, TOKYO 101-8311, JAPAN, Japan ~72: AKASAKA, Yunike;HONDA, Aya;ICHIKAWA, Wataru;ISHIYAMA, Junichi;MASUI, Atsushi;NAKAO, Kazuhisa;TOYOFUKU, Hidekazu~ 33:JP ~31:2017-146957 ~32:28/07/2017

2021/02777 ~ Complete ~54:OPTICAL SURFACE ENCODER ~71:DU PREEZ, Isak, Erf 3603 Karkloof Road, St. John&#39;s Village, Kranskop, 3290, South Africa ~72: DU PREEZ, Isak~ 33:ZA ~31:2018/06583 ~32:04/10/2018

2021/02785 ~ Complete ~54:MODIFIED CLOSED-ENDED DNA (CEDNA) COMPRISING SYMMETRICAL MODIFIED INVERTED TERMINAL REPEATS ~71:Generation Bio Co., 301 Binney Street, 4th Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: ALKAN, Ozan;JONES, Annaliese;KOTIN, Robert Michael~ 33:US ~31:62/757,872 ~32:09/11/2018;33:US ~31:62/757,892 ~32:09/11/2018

2021/02788 ~ Complete ~54:NEW HETEROCYCLIC COMPOUNDS ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: GREETHER, Uwe;GROEBKE ZBINDEN, Katrin;HORNSPERGER, Benoit;KROLL, Carsten;KUHN, Bernd;LUTZ, Marius Daniel Rinaldo;O`HARA, Fionn;RICHTER, Hans;ROMBACH, Didier~ 33:EP ~31:18207725.5 ~32:22/11/2018

2021/02775 ~ Complete ~54:BISPECIFIC CD123 X CD3 DIABODIES FOR THE TREATMENT OF HEMATOLOGIC MALIGNANCIES ~71:MACROGENICS, INC., 9704 Medical Center Drive, United States of

America; NANOSTRING TECHNOLOGIES, INC., 530 Fairview Ave., United States of America; NOTTINGHAM TRENT UNIVERSITY, 50 Shakespeare Street, United Kingdom ~72: Jan, Kenneth DAVIDSON; Sara CHURCH; Sergio RUTELLA~

2021/02779 ~ Complete ~54: COMBINATION OF BACTERIAL BIOLOGICAL CONTROL AGENT AND FATTY ACIDS ~71: Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: LABOURDETTE, Gilbert; M&#220;NKS, Karl-Wilhelm; WIJSMULLER, Jolanda Maud~ 33:EP ~31:18197495.7 ~32:28/09/2018

2021/02794 ~ Complete ~54: NOVEL TUMOR ANTIGEN BINDING AGENTS AND USES THEREOF ~71: ITM ISOTOPEN TECHNOLOGIEN M&#220;NCHEN AG, Schlei&#223;heimer Str. 91a, Garching bei, 85748, M&#252;nchen, Germany; PAUL SCHERRER INSTITUT, 5232 Villigen PSI, Switzerland ~72: CHRISTOPH UMBRICH; CRISTINA M&#220;LLER; KONSTANTIN ZHERNOSEKOV; LUISA MARIA DEBERLE; MARTINA BENESOVA; ROGER SCHIBLI~ 33:EP ~31:PCT/EP2018/082910 ~32:28/11/2018

2021/02797 ~ Complete ~54: METHODS FOR ALLOGENEIC HEMATOPOIETIC STEM CELL TRANSPLANTATION ~71: MAGENTA THERAPEUTICS, INC., 100 Technology Square, 5th Floor, Cambridge, Massachusetts, 02139, United States of America ~72: ADAM HARTIGAN; ANTHONY BOITANO; GEOFFREY O GILLARD; JENNIFER LYNN PROCTOR; MICHAEL COOKE; RAHUL PALCHAUDHURI; SHARON HYZY~ 33:US ~31:62/752,828 ~32:30/10/2018; 33:US ~31:62/773,873 ~32:30/11/2018; 33:US ~31:62/882,362 ~32:02/08/2019

2021/02766 ~ Provisional ~54: INTELLIGENT PREDICTIVE MAINTENANCE SYSTEM ~71: Edmund E Herbert, 38B Parrot Street, South Africa ~72: Edmund E Herbert~

2021/02791 ~ Complete ~54: COMPACT HEARING AIDS ~71: NANOEAR CORPORATION, INC., 2450 Holcombe Blvd., Suite X, Houston, Texas, 77021, United States of America ~72: CHRISTOPHER SALTHOUSE; MICHAEL M MOORE; RON L MOSES~ 33:US ~31:62/742,525 ~32:08/10/2018

2021/02770 ~ Complete ~54: MEDIUM COMPOSITION FOR IN VITRO CULTURE AND MASS PRODUCTION METHOD OF PRUNUS AFRICANA USING THE SAME ~71: KOREA INSTITUTE OF ORIENTAL MEDICINE, 1672, YUSEONG-DAERO, YUSEONG-GU, DAEJEON 34054, REPUBLIC OF KOREA, Republic of Korea ~72: KANG, Young Min; KIM, Wook, Jin; KIM, Yong, Goo; MOON, Byeong-Cheol; RICHARD, Komakech; YANG, Sun, Gyu~ 33:KR ~31:10-2020-0052458 ~32:29/04/2020

2021/02798 ~ Complete ~54: FILTERABLE DUOCARMYCIN-CONTAINING ANTIBODY-DRUG CONJUGATE COMPOSITIONS AND RELATED METHODS ~71: BYONDIS B.V., Microweg 22, 6545 CM, Nijmegen, Netherlands ~72: CAROLUS JOHANNES EDGAR VAN DEN HOEF~ 33:EP ~31:18205459.3 ~32:09/11/2018

2021/02790 ~ Complete ~54: THERAPEUTIC COMPOUNDS ~71: C4X Discovery Limited, Manchester One, 53 Portland Street, MANCHESTER M1 3LD, UNITED KINGDOM, United Kingdom ~72: BLANEY, Emma Louise; CRICK, Duncan James; CRUMPLER, Simon Ross; EVANS, David Gareth; HYND, George; LE BOZEC, Lucille; LUCAS, Cathy Louise; MARTIN, Barrie Phillip; NOWAK, Thorsten; RAY, Nick Charles; ROUSSEL, Fabien Jean Ghislain; RUSSELL, Michael Geoffrey Neil; SEHMI, Sanjeet Singh; SEWARD, Eileen Mary; YEAP, Siew Kuen~ 33:GB ~31:1817193.4 ~32:22/10/2018; 33:GB ~31:1907674.4 ~32:30/05/2019

- APPLIED ON 4/28/2021 -

2021/02845 ~ Complete ~54: VERSATILE BASE FOR CAN NECKING SYSTEM ~71: BELVAC PRODUCTION MACHINERY, INC., 237 Graves Mill Road, Lynchburg, Virginia, 24502, United States of America ~72: DENNIS E GREEN; JEFFREY L SHORTRIDGE; LARRY D MCKINNEY~ 33:US ~31:62/744,186 ~32:11/10/2018



2021/02801 ~ Provisional ~54:TAXER ~71:Noam Furman, Zeev Vilnai 10/1, Israel ~72: Noam Furman~

2021/02808 ~ Complete ~54:COMBINATION ANTIBACTERIAL COMPOSITION AND SHORT-COURSE ANTIBACTERIAL REGIMEN ~71:THE GLOBAL ALLIANCE FOR TB DRUG DEVELOPMENT, INC., 40 Wall St, New York, New York, 10005, United States of America ~72: CARL M MENDEL;ERIC NUERMBERGER;KHISIMUZI E. MDLULI~ 33:US ~31:62/241,280 ~32:14/10/2015

2021/02823 ~ Complete ~54:DEVICE, SYSTEM, AND METHOD FOR PASSIVE COLLECTION OF ATMOSPHERIC CARBON DIOXIDE ~71:Arizona Board of Regents on behalf of Arizona State University, SkySong, 1475 N. Scottsdale Road, Suite 200, SCOTTSDALE 85257, AZ, USA, United States of America ~72: CHOODAMANI, Venkatram;KEDIA, Shreyans;LACKNER, Klaus;PAGE, Robert~ 33:US ~31:62/752,319 ~32:29/10/2018;33:US ~31:62/828,367 ~32:02/04/2019

2021/02838 ~ Complete ~54:HUMANIZED AND STABILIZED FC5 VARIANTS FOR ENHANCEMENT OF BLOOD BRAIN BARRIER TRANSPORT ~71:Biogen MA Inc., 225 Binney Street, CAMBRIDGE 02142, MA, USA, United States of America;National Research Council of Canada, 1200 Montreal Road, OTTAWA K1A 0R6, ON, CANADA, Canada ~72: CAMERON, Thomas O.;FARRINGTON, Graham K.;HAQQANI, Arsalan S.;LEHMANN, Andreas;PEDERSON, Nels E.;PEPINSKY, R. Blake;RAGHUNATHAN, Gopalan;SMITH, Benjamin A.;STANIMIROVIC, Danica;SULEA, Traian;WEN, Dingyi~ 33:US ~31:62/751,962 ~32:29/10/2018

2021/02848 ~ Complete ~54:A THERMAL EVAPORATION SYSTEM FOR SEPRATING SOLUTE FROM A SOLUTE-SOLVENT MIXTURE ~71:THERMAX LIMITED, D- 13, MIDC Industrial. Area, RD Agra Road, Chinchwad, Pune, India ~72: CHARLES, Philominraj;SENTHILKUMAR, Sankaralingam~ 33:IN ~31:201821036168 ~32:30/10/2018

2021/02804 ~ Complete ~54:MULTIMEDIA CONFERENCING PLATFORM AND METHOD ~71:Gary Frank Smith, 73/3645 Main Beach Parade, Australia;Jon Frank Shaffer, 68/3645 Main Beach Parade, United States of America ~72: Gary Frank Smith;Jon Frank Shaffer~ 33:US ~31:63/015,990 ~32:27/04/2020

2021/02810 ~ Complete ~54:PAYMENT SYSTEM AND METHOD ~71:MANZI, Bongani, 26 Villa Atello, Poplar Avenue, Craigavon, JOHANNESBURG 2191, Gauteng, SOUTH AFRICA, South Africa ~72: MANZI, Bongani~ 33:ZA ~31:2020/00556 ~32:28/01/2020

2021/02825 ~ Complete ~54:SELF-ADHESIVE FLEXIBLE MINERAL-WOOL LAMINATES FOR INSULATION OF METALLIC SHEET DUCTS OR CAVITIES ~71:Kuwait Insulating Material Manufacturing Co. SAK, P.O. Box 10042, SHUAIBA 65451, KUWAIT, KUWAIT, Kuwait ~72: ABDULRAZAK JAWEESH, Manhal~ 33:EP ~31:18207978.0 ~32:23/11/2018

2021/02840 ~ Complete ~54:PLASMID CONTAINING A SEQUENCE ENCODING AN MRNA WITH A SEGMENTED POLY(A) TAIL ~71:ETHRIS GMBH, Semmelweisstrasse 3 , 82152, Planegg, Germany ~72: CARSTEN RUDOLPH;CHRISTIAN PLANK;LUDWIG WEISS;MANISH KUMAR ANEJA;ZELJKA TREPOTEC~ 33:EP ~31:18 19 9857.6 ~32:11/10/2018

2021/02803 ~ Provisional ~54:CONTAINERS ~71:BRITZ, Jacques, 9 James Avenue, Bardene, South Africa;BRITZ, Pierre, 9 James Avenue, Bardene, South Africa ~72: BRITZ, Jacques;BRITZ, Pierre~

2021/02811 ~ Complete ~54:FULL-DAY IMAGING DETECTOR WITH MULTI-FUNCTIONAL WINDOW, AND METHOD FOR PREPARING SAME ~71:XI AN TECHNOLOGICAL UNIVERSITY, No. 2 Xuefu Middle Road, Weiyang District, X&#39;ian, Shaanxi, 710021, People's Republic of China ~72: AN, Yan;BAI, Minyu;HAN, Jun;LIANG, Haifeng;LIU, Huan;LIU, Weiguo;WANG, Xi;WANG, Zhuoman~ 33:CN ~31:201910162595.3 ~32:05/03/2019

2021/02826 ~ Complete ~54:ENZYMATIC PRODUCTION OF HEXOSES ~71:Bonumose, Inc., 1725 Discovery Drive, Suite 220, CHARLOTTESVILLE 22911, VA, USA, United States of America ~72: WICHELECKI, Daniel Joseph~ 33:US ~31:62/752,061 ~32:29/10/2018;33:US ~31:62/857,543 ~32:05/06/2019

2021/02830 ~ Complete ~54:IP-BASED METHOD, APPARATUS AND SYSTEM FOR NARROW-BAND SERVICE SOUND PLAYING, AND STORAGE MEDIUM ~71:Nanjin Zhongxing Software Co, Ltd., No. 68 Zijinghua Road, Yuhuatai District, NANJING 210012, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: YANG, Jianjun~ 33:CN ~31:201811150562.9 ~32:29/09/2018

2021/02841 ~ Complete ~54:SUBSTRATE USED FOR CRAPE MYRTLE CUTTING AND CUTTING METHOD ~71:JIANGSU VOCATIONAL COLLEGE OF AGRICULTURE AND FORESTRY, No. 19, Wenchang East Road, Jurong, Zhenjiang, Jiangsu, 212400, People's Republic of China ~72: GUANGFA HAN;GUOJIN QIU;MIN YU;QISONG SUN;SHUN CUI~ 33:CN ~31:201811153524.9 ~32:30/09/2018

2021/02806 ~ Complete ~54:HOLLOW ANCHOR ROD WITH ADJUSTABLE GROUTING HOLES ~71:XUZHOU UNIVERSITY OF TECHNOLOGY, No. 2, Lishui Road, Yunlong District, Xuzhou City, Jiangsu Province, People's Republic of China ~72: CHEN Cheng;CHEN Dingchao;LIANG Huaqiang;LU Jianfei;PAN Yuxin;XIANG Runze;YU Yang;ZHANG Haiyan;ZHAO Xiangqian;ZHU Siyu~ 33:CN ~31:202120769730.3 ~32:15/04/2021

2021/02815 ~ Complete ~54:CONVENIENT-ASSEMBLY, DETACHABLE INCUBATOR FOR MICROSCOPE SLIDE ~71:NANTONG UNIVERSITY, No. 9 Seyuan Road, Chongchuan Nantong, Jiangsu, 226000, People's Republic of China ~72: LIU, Zhan;LU, Jianhua;PENG, Yuping;QIU, Yihua;ZHOU, Xinqin~

2021/02828 ~ Complete ~54:AEROSOLISABLE FORMULATION ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CABOT, Ross~ 33:GB ~31:1817859.0 ~32:01/11/2018

2021/02831 ~ Complete ~54:APPARATUS FOR RESOLVING IMAGING PROBLEMS CAUSED BY THE MENISCUS ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: MILNE, Graham F.;WANG, Tony Y.~ 33:US ~31:62/781,797 ~32:19/12/2018

2021/02843 ~ Complete ~54:METHOD AND SYSTEM FOR GENERATING NON-THERMAL PLASMA ~71:PHOENIXAIRE, LLC, 1311A Dolley Madison Blvd, Suite 2A, McLean, Virginia, 22101, United States of America ~72: TERRANCE WOODBRIDGE~ 33:US ~31:16/173,677 ~32:29/10/2018

2021/02853 ~ Provisional ~54:HOT SPOTING VOICE CALL ~71:MR DENNIS CASSIM MPHORENG, 2179 WATSONIA STR., South Africa ~72: MR DENNIS CASSIM MPHORENG~

2021/02862 ~ Complete ~54:INTEGRATION MODULE SYSTEM OF MILLIMETER-WAVE AND NON-MILLIMETER-WAVE ANTENNAS AND ELECTRONIC APPARATUS ~71:EAST CHINA RESEARCH INSTITUTE OF MICROELECTRONICS, No. 19, Hehuan Road, High-Tech Development Zone, Hefei, People's Republic of China;ETHETA COMMUNICATION TECHNOLOGY (SHENZHEN) CO., LTD, 401, Factory 1, No. 6, Zhangfeng Road, Dongfang Community, Songgang Street, Baoan District, Shenzhen, People's Republic of China ~72: HUANG, Huan-Chu;LI, Jingwei;LIN, Hong;LIU, Junyong;LU, Jiaguo;MA, Tao;QI, Zhixing;ZENG, Minhui;ZHOU, Yanchao~ 33:CN ~31:202010371100.0 ~32:30/04/2020

2021/02807 ~ Complete ~54:DOOR ASSEMBLY ~71:AFRILOO (PROPRIETARY) LIMITED, 11 Steenbok Street, Koedoespoort, Pretoria, 0186, SOUTH AFRICA, South Africa ~72: FOURIE (851119 5215 08 0), Lukas Pieter~ 33:ZA ~31:2020/02468 ~32:06/05/2020

2021/02813 ~ Complete ~54:METHOD FOR USING ANTI-EVAPORATION DETACHABLE-TYPE SLIDE INCUBATOR ~71:NANTONG UNIVERSITY, No. 9 Seyuan Road, Chongchuan Nantong, Jiangsu, 226000, People's Republic of China ~72: PENG, Yuping;QIU, Lianglin;QIU, Yihua;SHEN, Weixing;XU, Fenfen~

2021/02835 ~ Complete ~54:JOINING ASSEMBLY AND SECURING DEVICE FOR USE IN A JOINING ASSEMBLY ~71:Gripple Limited, The Old West Gun Works, Savile Street East, SHEFFIELD S4 7UQ, SOUTH YORKSHIRE, UNITED KINGDOM, United Kingdom ~72: GIEMZA, Lee~ 33:GB ~31:1818036.4 ~32:05/11/2018;33:GB ~31:1915008.5 ~32:17/10/2019

2021/02816 ~ Complete ~54:HIGH CONCENTRATION PROTEIN FORMULATION ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CHEN, Hunter;SCHLESINGER, Erica~ 33:US ~31:62/770,337 ~32:21/11/2018

2021/02837 ~ Complete ~54:DEVICE AND METHOD FOR CONTROLLING A FLIGHT OPENING OF A BEEHIVE BOX ~71:Micro-Sensys GmbH, In der Hochstedter Ecke 2, ERFURT 99098, GERMANY, Germany ~72: J&#196;GER, Sylvo;JURISCH, Reinhard;PEITSCH, Peter;TAUTZ, J&#252;rger~ 33:DE ~31:10 2018 126 176.4 ~32:22/10/2018

2021/02819 ~ Complete ~54:A DEVICE AND A PROCESS FOR SEPARATING METHANE FROM A GAS MIXTURE CONTAINING METHANE, CARBON DIOXIDE AND HYDROGEN SULFIDE ~71:EVONIK FIBRES GMBH, GEWERBEPARK 4, 4861 SCH&#214;RFLING AM ATTERSEE, AUSTRIA, Austria ~72: WINKLER, Florian~ 33:EP ~31:18198221.6 ~32:02/10/2018

2021/02832 ~ Complete ~54:CODING AND DECODING OF AN OMNIDIRECTIONAL VIDEO ~71:Orange, 78 rue Olivier de Serres, PARIS 75015, FRANCE, France ~72: JUNG, Jo&#235;l~ 33:FR ~31:1859067 ~32:01/10/2018

2021/02844 ~ Complete ~54:AN EXTRUDED SOAP BAR WITH ENHANCED ANTIMICROBIAL EFFICACY ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: AJIT MANOHAR AGARKHED;AMITABHA MAJUMDAR;MRUTHYUNJAYA SWAMY MATHAPATHI;NITISH KUMAR~ 33:EP ~31:18205699.4 ~32:12/11/2018

2021/02802 ~ Provisional ~54:CHEMICAL FREE GLASSINE RELEASE LINER RECYCLING PROCESS ~71:Elr&#233;ta Jolize Burger, 48 Karoobos Street, South Africa ~72: Elr&#233;ta Jolize Burger~

2021/02809 ~ Complete ~54:COMPOSITIONS, METHODS, AND APPARATUSES FOR CATALYTIC COMBUSTION ~71:STAR SCIENTIFIC LIMITED, Suite 3.01, Level 3, 828 Pacific Highway, Gordon, New South Wales, 2072, Australia ~72: SAMUEL JAMES KIRK;STEVEN JAMES HEATON~ 33:US ~31:62/549,816 ~32:24/08/2017

2021/02824 ~ Complete ~54:COMPOSITIONS FOR REDUCING SERUM URIC ACID ~71:AstraZeneca AB, S&#214;DERT&#196;LJE SE-151 85, SWEDEN, Sweden ~72: HOEGSTEDT, Johan;JOHNSSON, Eva;MACKAY, James~

2021/02829 ~ Complete ~54:S-ANTIGEN TRANSPORT INHIBITING OLIGONUCLEOTIDE POLYMERS AND METHODS ~71:Aligos Therapeutics, Inc., 1 Corporate Drive, 2nd Floor, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: BEIGELMAN, Leonid;BLATT, Lawrence M.;HONG, Jin;PANDEY, Rajendra;RAJWANSHI, Vivek Kumar;SMITH, David Bernard~ 33:US ~31:62/757,632 ~32:08/11/2018;33:US ~31:62/855,323 ~32:31/05/2019;33:US ~31:62/907,845 ~32:30/09/2019

2021/02839 ~ Complete ~54:METHOD FOR CONTROLLING THE OPERATION OF A MACHINE FOR HARVESTING ROOT CROPS ~71:Grimme Landmaschinenfabrik GmbH & Co. KG, Hunteburger

Strauss 32, DAMME 49401 , GERMANY, Germany ~72: SENBERG, Daniel;STROTHMANN, Wolfram ~ 33:DE ~31:10 2018 127 844.6 ~32:07/11/2018

2021/02849 ~ Complete ~54:EDDY PUMP ~71:EDDY PUMP CORPORATION, 15405 Olde Hwy 80, United States of America ~72: DOKHALE, Mugdha Shrikant;WAHLGREN, Dan ~ 33:ZA ~31:16/176,495 ~32:31/10/2018

2021/02812 ~ Complete ~54:AN AGRICULTURAL WORK VEHICLE ~71:AGRO INTELLIGENCE APS, Agro Food Park 13, Denmark ~72: BENDIX, Jørgen Tjagvad;BOEL, Martin;Jørgen;GER, Claes D&#252;hring;JACOBSEN, Henrik Lynge;JUUL, Jacob Pilegaard;ZNOVA, Liubava ~ 33:DK ~31:PA 2018 00916 ~32:27/11/2018

2021/02851 ~ Provisional ~54:TSHWANE TOWNSHIPS SOLAR STREETLIGHTS ~71:Kagiso George Toka, 6830 Setiloane Steet, Zone 6,, South Africa ~72: Kagiso George Toka~

2021/02820 ~ Complete ~54:SYSTEMS AND METHOD FOR SECURE UPDATES OF CONFIGURATION PARAMETERS PROVISIONED IN USER EQUIPMENT ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: LIU, Jennifer ~ 33:US ~31:62/742,341 ~32:06/10/2018

2021/02833 ~ Complete ~54:METHODS OF QUANTIFYING OLIGOSACCHARIDE PREPARATIONS ~71:DSM IP Assets B.V., Het Overloon 1, HEERLEN TE 6411 , THE NETHERLANDS, Netherlands;Kaleido Biosciences, Inc., 65 Hayden Avenue, LEXINGTON 02421, MA, USA, United States of America;Midori USA, Inc., One Kendall Square, Building 1400E, Suite 14-203, CAMBRIDGE 02139, MA, USA, United States of America ~72: ANTALEK, Mitchell Tyler;BAUR, Manuela;CANET-MARTINEZ, Estel;EMMANUELLE SCHATTNER, Alexandra Anne;GEREMIA, John M.;H&#214;LLER, Ulrich;HARTMAN, Madeline;HECHT, Maxwell B.;LIOUBOMIROV, Anastasia V.;LIU, Christopher Matthew;WAHL, Guido ~ 33:US ~31:62/757,231 ~32:08/11/2018

2021/02821 ~ Complete ~54:DIRECT EXPANSION EVAPORATOR WITH VAPOR EJECTOR CAPACITY BOOST ~71:EVAPCO, INC., 5151 Allendale Lane, Taneytown, Maryland, 21787, United States of America ~72: DEROSIER, Greg;GOPALAN, Shri ~ 33:US ~31:62/756,328 ~32:06/11/2018;33:US ~31:16/676,364 ~32:06/11/2019

2021/02834 ~ Complete ~54:METHODS OF SUPPORTING GASTROINTESTINAL HOMEOSTASIS ~71:DSM IP Assets B.V., Het Overloon 1, TE HEERLEN NL-6411, THE NETHERLANDS, Netherlands;Midori USA, Inc., One Kendall Square, Building 1400E, Suite 14-203, CAMBRIDGE 02139, MA, USA, United States of America ~72: BLOKKER, Britt;DUVAL, Stéphane;GEREMIA, John M.;PEREZ-CALVO, Estefania;RICHARD, Nathalie;SCHMEISSER, Jerome;SEIFERT, Nicole;VERLHAC, Viviane ~ 33:US ~31:62/757,465 ~32:08/11/2018;33:US ~31:62/757,500 ~32:08/11/2018

2021/02817 ~ Complete ~54:SUBSTITUTED XANTHINE DERIVATIVES ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany;HYDRA BIOSCIENCES, LLC, 405 Concord Avenue, P O Box 147, United States of America ~72: GERLACH, Kai ~ 33:EP ~31:18212060.0 ~32:12/12/2018

2021/02846 ~ Complete ~54:ANTIVIRAL PRODRUGS AND NANOFORMULATIONS THEREOF ~71:BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, Varner Hall, 3835 Holdrege Street, Lincoln, Nebraska, 68583-0745, United States of America ~72: BENSON EDAGWA;HOWARD E GENDELMAN ~ 33:US ~31:62/748,798 ~32:22/10/2018

2021/02805 ~ Complete ~54:ACCURATE BOREHOLE PEEPING DEVICE INTEGRATED WITH "DRILLING AND PUSHING" AND METHOD ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, Shannan New District, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Ke YANG;Litong DOU;Wenjie LIU;Xiaolou CHI;Zhen WEI ~ 33:CN ~31:202010819570.9 ~32:14/08/2020

2021/02814 ~ Complete ~54:SUPPORT FRAME USED IN EXAMINING OCULAR FUNDUS ~71:NANTONG UNIVERSITY, No. 9 Seyuan Road, Chongchuan Nantong, Jiangsu, 226000, People's Republic of China ~72: CAO, Beibei;CHANG, Renan;HUANG, Yan;PENG, Yuping;QIU, Yihua~

2021/02827 ~ Complete ~54:CYCLODEXTRIN-BASED FORMULATION OF A BCL-2 INHIBITOR ~71:Les Laboratoires Servier, 35 rue de Verdun, SURESNES CEDEX 92284, FRANCE, France;Novartis AG, Lichtstrasse 35, BASEL 4056, SWITZERLAND, Switzerland ~72: CHANRION, Ma&#239;a;CHEMIN, Caroline;PEAN, Jean-Manuel;TRAN THU, Thuy~ 33:US ~31:62/753,164 ~32:31/10/2018

2021/02842 ~ Complete ~54:CULTURE MEDIUM FOR IMPROVING INDUCTION RATE OF TISSUE CULTURED PLANT, PREPARATION METHOD, AND APPLICATION ~71:JIANGSU VOCATIONAL COLLEGE OF AGRICULTURE AND FORESTRY, No. 19, Wenchang East Road, Jurong, Zhenjiang, Jiangsu, 212400, People's Republic of China ~72: FENG SHEN;HUANHUAN REN;JING WANG;LIXIN GU;MINGHUI SHI;SHAOQING CHEN;SHUBIN ZONG;YONGPING WANG~ 33:CN ~31:201811152555.2 ~32:29/09/2018

2021/02847 ~ Complete ~54:HAIR CONDITIONING COMPOSITION FOR IMPROVED DEPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: CESAR ERNESTO MENDOZA FERNANDEZ;MICHAEL JAMES COOKE;PAUL DAMIEN PRICE;RICHARD JONATHAN BARFOOT~ 33:EP ~31:18214090.5 ~32:19/12/2018

2021/02818 ~ Complete ~54:ADDITIVES FOR GEOPOLYMER CEMENTS ~71:CEMALT LLC, 221 Gibbon Street, United States of America ~72: KINNEY, Frederick D.;PATEL, Rajeshkumar D.~ 33:US ~31:62/755,431 ~32:03/11/2018

2021/02822 ~ Complete ~54:METHOD FOR MANUFACTURING A HYDRAULIC BINDER ~71:IMERTECH, 43 quai de Grenelle, France ~72: FRYDA, Herv&#233;;LARNAUDIE, Eric;MINEAU, Rose-Marie;SOTH, Ratana~ 33:FR ~31:1860094 ~32:31/10/2018

2021/02836 ~ Complete ~54:NAPHTHYRIDINE AND QUINOLINE DERIVATIVES USEFUL AS ALK5 INHIBITORS ~71:Theravance Biopharma R&D IP, LLC, 901 Gateway Boulevard, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: HUGHES, Adam D.;KOZAK, Jennifer;KULYK, Svitlana;OWENS, Christina;SULLIVAN, Steven D.E.~ 33:US ~31:62/778,142 ~32:11/12/2018;33:US ~31:62/939,192 ~32:22/11/2019

2021/02852 ~ Provisional ~54:GARANKUWA AGRICULTURAL ECONOMIC PLAN,GROWZONE ~71:Kagiso George Toka, 6830 Setiloane Steet, Zone 6,, South Africa ~72: Kagiso George Toka~

- APPLIED ON 4/29/2021 -

2021/02859 ~ Provisional ~54:BENEFICIATION OF CHALCOPYRITE ~71:NORTH-WEST UNIVERSITY, 11 Hoffman Street, POTCHEFSTROOM 2520, SOUTH AFRICA, South Africa ~72: FOSSO-KANKEU, Elvis;MKANDAWIRE, Martin;NYEMBEWE, Kolela;WAANDERS, Frans Boudewijn~

2021/02882 ~ Complete ~54:GRINDING MILL HAVING CONVEXLY CURVED MILLING PROJECTIONS ~71:JOMA KUNSTSTOFFTECHNIK GMBH, Wolfholzgasse 14-16, Austria ~72: FRIES, Rudolf~ 33:AT ~31:A 51128/2018 ~32:18/12/2018

2021/02855 ~ Provisional ~54:UNJACKETED OR UNSHEATHED TWISTED PAIR CABLES ~71:QuantumX (Pty) Ltd., 1002 Ergon Road, Lyttelton, CENTURION 0157, Gauteng Province, SOUTH AFRICA, South Africa ~72: SILVIS, Sander~

2021/02863 ~ Complete ~54: MULTIPLEX PCR DETECTION METHOD AND APPLICATION FOR DETECTING FOUR KINDS OF CANINE VIRUSES ~71: Qingdao Agricultural University, No. 700 Chang-cheng-lu, Chenyang, Qingdao City, Shandong, People's Republic of China ~72: Ren Jianwei; Wen Jianxin; Xu Hang~

2021/02875 ~ Complete ~54: DEVICE FOR SUPPORTING AN ELECTRIFIED WIRE ~71: VAN DER MERWE, Emile Stassen, C/O James and Wells Intellectual Property, Level 12, KPMG Centre, 85. Alexandra Street, Hamilton, 3204, New Zealand ~72: VAN DER MERWE, Emile Stassen~ 33: NZ ~31: 747855 ~32: 31/10/2018; 33: NZ ~31: 751263 ~32: 05/03/2019; 33: NZ ~31: 755631 ~32: 22/07/2019

2021/02883 ~ Complete ~54: BT1718 FOR USE IN TREATING CANCER ~71: BicycleRD Limited, Building 900, Babraham Research Campus, CAMBRIDGE CB22 3AT, UNITED KINGDOM, United Kingdom; Cancer Research Technology, Angel Building, 407 St John Street, LONDON EC1V 4AD, UNITED KINGDOM, United Kingdom ~72: KOEHLER, Maria; LANGFORD, Gillian; SYMEONIDES, Stefan~ 33: US ~31: 62/753,005 ~32: 30/10/2018; 33: US ~31: 62/788,391 ~32: 04/01/2019; 33: US ~31: 62/907,106 ~32: 27/09/2019

2021/02892 ~ Complete ~54: AC/DC CONVERTER ARRANGEMENT ~71: Eaton Intelligent Power Limited, Eaton House, 30 Pembroke Road, DUBLIN 4, IRELAND, Ireland ~72: ASKAN, Kenan~ 33: DE ~31: 10 2018 128 121.8 ~32: 09/11/2018

2021/02858 ~ Provisional ~54: RACK POST PROTECTOR ~71: Francisco Almoguera, 98 Hilton Road, Linbro Park, Sandton, South Africa ~72: Francisco Almoguera~

2021/02864 ~ Complete ~54: BOREHOLE BLAST ROOF-CUTTING AND PRESSURE-RELIEVING MODEL FOR GOB-SIDE ROADWAYS IN DEEP MINES AND METHOD FOR DETERMINING PARAMETERS ~71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, People's Republic of China ~72: CHANG, JUCAI; DING, YU; LI, CHUANMING; LIU, NAN; LUO, YONG; MA, HAIFENG; PANG, DONGDONG; SHI, WENBAO; XIONG, TENGGEN; YIN, ZHIQIANG~ 33: CN ~31: 202011463129.8 ~32: 11/12/2020

2021/02870 ~ Complete ~54: ANTI-PD-L1/ANTI-4-1BB BISPECIFIC ANTIBODIES AND USES THEREOF ~71: ABL BIO INC., 16, Daewangpangyo-ro 712beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea; I-MAB BIOPHARMA CO., LTD., Rm802, 8F, 1Bld., West Tower, 88 Shangke Road, People's Republic of China ~72: CHOI, Hyojun; CHUNG, Hyejin; FANG, Lei; JIANG, Wenqing; JUNG, Jaeho; KIM, Eunjung; LEE, Sang Hoon; LEE, Yangsoon; PARK, Eunyoung; PARK, Minji; SON, Yong-Gyu; SUNG, Eunsil; YOO, Jiseon; YOU, Weon-Kyoo~ 33: US ~31: 62/773,239 ~32: 30/11/2018

2021/02876 ~ Complete ~54: CYCLOALKANE-1,3-DIAMINE DERIVATIVE ~71: DAIICHI SANKYO COMPANY, LIMITED, 3-5-1, Nihonbashi Honcho Chuo-ku, Tokyo, 103-8426, Japan ~72: AKIKO KURIMOTO; ERI TOKUMARU; JUN WATANABE; KENJI YOSHIKAWA; MACHIKO SHIROISHI; MASASHI NUMATA; MAYUMI KITAGAWA; MURATA; NORIYASU HAGINOYA; RYUTARO KANADA; TAEKO SHINOZAKI; TAKAYUKI BABA; TOMOAKI HAMADA; YOSHIKO KAGOSHIMA~ 33: JP ~31: 2018-229397 ~32: 06/12/2018

2021/02891 ~ Complete ~54: WATER DESALINIZATION SYSTEMS ~71: MAHNA, Satish, 23620 Halburton Road, BEACHWOOD 44122, OH, USA, United States of America ~72: MAHNA, Satish~ 33: US ~31: 62/746,856 ~32: 17/10/2018; 33: US ~31: 62/781,125 ~32: 18/12/2018

2021/02894 ~ Complete ~54: PARAQUAT FORMULATION ~71: Syngenta Crop Protection AG, Schwarzwaldallee 215, BASEL 4058, SWITZERLAND, Switzerland ~72: NELSON, King; RAMSAY, Guy; THOMSON, Niall Rae; TOVEY, Ian David~ 33: US ~31: 16/194,624 ~32: 19/11/2018

2021/02885 ~ Complete ~54:SYSTEM AND METHOD OF CONSUMPTION CONTROL ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: LEADLEY, David~ 33:GB ~31:1818743.5 ~32:16/11/2018

2021/02856 ~ Provisional ~54:DRINKING STRAW ~71:Zayn Figg, 73 Rubin Crescent, Summerstrand, Gqeberha ( Port Elizabeth), Eastern Cape, 6001, South Africa ~72: Zayn Figg~

2021/02868 ~ Complete ~54:METHOD FOR TESTING HYDRAULIC FRACTURING AND FLUSHING PERMEABILITY-INCREASING EFFECT IN COAL SEAMS ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Anhui Province, People's Republic of China ~72: YUAN, Anguo;YUAN, Anying;ZHANG, Chunru;ZHANG, Xiaoyu~

2021/02874 ~ Complete ~54:MONOCLONAL ANTIBODY THAT SPECIFICALLY BINDS TO CD20 ~71:Joint Stock Company "BIOCAD", Liter A, bld.34, Svyazi st, Strelna, Petrodvortsoviy district, Russian Federation ~72: ALEKSANDROV, Aleksei Aleksandrovich;ANIKINA, Arina Vitalevna;DIDUK, Sergei Vasilyevich;EROSHOVA, Anna Vladimirovna;IAKOVLEV, Pavel Andreevich;IVANOV, Roman Alekseevich;KHARATIAN, Nina Grachyaevna;KOSKOVA, Svetlana Vladimirovna;KRENDELEVA, Elena Andreevna;MISORIN, Alexey Konstantinovich;MOROZOV, Dmitry Valentinovich;PESTOVA, Natalia Evgenevna;SHCHEMELEVA, Mariia Aleksandrovna;SMIRNOVA, Iana Andreevna;SOLOVYEV, Valery Vladimirovich;TRUDOVIHNIKOVA, Anna Alexandrovna;USATOVA, Veronika Sergeevna;USTIUGOV, Iakov Iurevich~ 33:RU ~31:2018138510 ~32:31/10/2018

2021/02857 ~ Provisional ~54:KNIFE SLIP LOCK ARRANGEMENT ~71:AGER, Andrew Mark, 27 Olive Road, SHARONLEA, Randburg, Johannesburg 2158, Gauteng, SOUTH AFRICA, South Africa;WENTZEL, Bruce John, 4 Boundary Road, SILVAMONTE, Johannesburg 2192, Gauteng, SOUTH AFRICA, South Africa ~72: AGER, Andrew Mark;WENTZEL, Bruce John~

2021/02867 ~ Complete ~54:SELF-CLEANING PERMANENT MAGNET SYNCHRONOUS MOTOR ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Anhui Province, People's Republic of China ~72: GUO, Jiahu;SONG, Jiangfeng;WANG, Bin~ 33:CN ~31:202010472716.7 ~32:29/05/2020

2021/02873 ~ Complete ~54:METHOD AND SYSTEM FOR OBTAINING ETHYLENE ~71:LINDE GMBH, Dr.-Carl-von-Linde-Strasse 6-14, Germany ~72: H&#214;FEL, Torben~ 33:EU ~31:18201329.2 ~32:18/10/2018

2021/02880 ~ Complete ~54:2,5-DIOXOPIPERAZINE LIPIDS WITH INTERCALATED ESTER, THIOESTER, DISULFIDE AND ANHYDRIDE MOIEITIES ~71:TRANSLATE BIO, INC., 29 Hartwell Avenue, Lexington, Massachusetts, 02421, United States of America ~72: FRANK DEROSA;MICHAEL HEARTLEIN;RYAN LANDIS;SASWATA KARMAKAR;SHRIRANG KARVE;YI ZHANG~ 33:US ~31:62/758,179 ~32:09/11/2018;33:US ~31:62/871,510 ~32:08/07/2019

2021/02889 ~ Complete ~54:METHOD FOR THE ADDITIVE MANUFACTURING OF A COMPONENT ~71:L&#39;Air Liquide, Societe Anonyme pour l&#39;Etude et l&#39;Exploitation des Procedes Georges Claude, 75, Quai d&#39;Orsay, PARIS 75007, FRANCE, France ~72: KAYA, Cerkez~ 33:DE ~31:10 2018 125 605.1 ~32:16/10/2018

2021/02877 ~ Complete ~54:OSIDIC DISPERSING AGENT ~71:COATEX, 35 rue Amp&#232;re, 69730, Genay, France ~72: BENO&#206;T MAGNY;FRANCIS BONY;JEAN-MARC SUAU;MORGANE LE NEINDRE;YVES MATTER~ 33:FR ~31:1871564 ~32:16/11/2018

2021/02871 ~ Complete ~54:PHARMACEUTICAL FORMULATION ~71:CIPLA LIMITED, Cipla House, Peninsula Business Park, Ganpatrao Kadam Marg, India ~72: DATE, Dipak Narayan;DESHMUKH, Vaibhav Panditrao;MALHOTRA, Geena Vinod;RAUT, Preeti Prashant~

2021/02886 ~ Complete ~54:COMBINATION THERAPY FOR TREATMENT OF HEMATOLOGICAL DISEASES ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: ASSAD, Albert~ 33:US ~31:62/753,409 ~32:31/10/2018

2021/02895 ~ Complete ~54:BETA-CASEIN ANALYSIS OF MILK AND MILK PRODUCTS ~71:THE A2 MILK COMPANY LIMITED, Level 10, 51 Shortland Street, New Zealand ~72: COONEY, Terence Patrick;JAINE, Jacob Evan~ 33:US ~31:62/752,080 ~32:29/10/2018

2021/02872 ~ Complete ~54:OPHTHALMIC COMPOSITIONS AND METHODS FOR THE TREATMENT OF SKIN DISEASES AND EYE DISEASES ~71:CELLIX BIO PRIVATE LIMITED, Plot No. 1177 B, Road No. 56, Jubilee Hills, India ~72: KANDULA, Mahesh~ 33:IN ~31:201841044540 ~32:26/11/2018;33:IN ~31:201941001491 ~32:12/01/2019

2021/02878 ~ Complete ~54:ENZYMES FOR INFUSION MASHING IN ADJUNCT BREWING TECHNICAL FIELD ~71:DUPONT NUTRITION BIOSCIENCES APS, Langebrogade 1, 1411, Copenhagen K, Denmark ~72: JACOB FLYVHOLM CRAMER;TROVE BLADT~ 33:US ~31:62/748,739 ~32:22/10/2018

2021/02888 ~ Complete ~54:METHOD AND APPARATUS FOR COMBINING METADATA AND CONTENT STREAM MANIFEST FILES FOR PROCESSING ON CLIENT DEVICES ~71:INVIDI Technologies Corporation, 4390 US Highway 1, Suite 120, PRINCETON 08540, NJ, USA, United States of America ~72: BOOTH, Robert;FESTA, Mike;OYER, Matthew;PETERSON, Alden Lloyd~ 33:US ~31:62/744,535 ~32:11/10/2018

2021/02896 ~ Complete ~54:HARD DISK DEVICE BASED ON BLOCKCHAIN ~71:ANQING NORMAL UNIVERSITY, No. 1318, Jixian North Road, Anhui Province, People's Republic of China ~72: HUANG, Zhong;LIU, Juan;SHI, Zizhen;WANG, Yuanzhi;YIN, Zhouping;ZHENG, Xin~ 33:CN ~31:202010439831.4 ~32:22/05/2020

2021/02861 ~ Provisional ~54:J-CHAIR GUARD ~71:IJERE JOSHUA IZUCHUKWU, NO 155 OLD ONITSHA ROAD, Nigeria ~72: IJERE JOSHUA IZUCHUKWU~

2021/02866 ~ Complete ~54:GLYCYRRHETINIC ACID DERIVATIVES FOR TREATING HYPERKALEMIA ~71:Ardelyx, Inc., 34175 Ardenwood Boulevard, Suite 200, FREMONT 94555, CA, USA, United States of America ~72: CHEN, Tao;DRAGOLI, Dean;LEADBETTER, Michael;LEWIS, Jason;LUEHR, Gary~ 33:US ~31:62/541,095 ~32:04/08/2017

2021/02879 ~ Complete ~54:ANTI-HUMAN FN14 ANTIBODY ~71:ASTELLAS PHARMA INC., 5-1, Nihonbashi-Honcho 2-chome, Chuo-ku, Tokyo, 1038411, Japan ~72: MASAKATSU KAWAKAMI;MISATO ITO;RISA KASHIWAGI~ 33:JP ~31:2018-205995 ~32:31/10/2018

2021/02893 ~ Complete ~54:MULTI-DIRECTIONALLY AND FLEXIBLY BENDING AND LOCKING OPERATION APPARATUS ~71:Suzhou Anbo Medical Technology Co., Ltd., Floor 2, Building C, Dongcheng Science and Technology Pioneering Park, Tangqiao Zhangjiagang, SUZHOU 215615, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: CAO, Dong;ZHENG, Yang~ 33:CN ~31:201811152844.2 ~32:30/09/2018;33:CN ~31:201811152894.0 ~32:30/09/2018



2021/02897 ~ Complete ~54:PRODUCTION OF HYDROXYETHYLPIPERAZINE ~71:DOW GLOBAL TECHNOLOGIES LLC, 2040 Dow Center Midland, United States of America ~72: ARCHER, Barry;GOODMAN, Amanda M.;LAROCHE, Christophe R.;ZENG, Jianping~ 33:US ~31:62/752,437 ~32:30/10/2018

2021/02865 ~ Complete ~54:T CELL RECEPTORS AND IMMUNE THERAPY USING THE SAME ~71:Immatics Biotechnologies GmbH, Paul-Ehrlich-Stra&#223;e 15, T&#220;BINGEN 72076, GERMANY, Germany ~72: ALTEN, Leonie;BUNK, Sebastian;MAURER, Dominik;WALTER, Steffen~ 33:DE ~31:10 2016 115 246.3 ~32:17/08/2016;33:US ~31:62/376,059 ~32:17/08/2016;33:US ~31:62/376,632 ~32:18/08/2016

2021/02860 ~ Provisional ~54:GRAPHYFREAK WATER DESALLINATION SYSTEM ~71:Lebohang Lebeea, 11869 Ngalo st, South Africa ~72: Lebohang Lebeea~

2021/02869 ~ Complete ~54:PRE-DRAINING HYDRAULIC FRACTURING PERMEABILITY-INCREASING METHOD FOR A COAL ROADWAY LAYER-CROSSING STRIP IN A BOTTOM DRAINING ROADWAY ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Anhui Province, People's Republic of China ~72: YUAN, Anguo;YUAN, Anying;ZHANG, Chunru;ZHANG, Xiaoyu~

2021/02881 ~ Complete ~54:TYK2 INHIBITORS AND USES THEREOF ~71:ESKER THERAPEUTICS, INC., 4047 25th Street, San Francisco, California, 94114, United States of America ~72: BOHAN JIN;GENE HUNG;QING DONG;STEPHEN W KALDOR~ 33:US ~31:62/749,003 ~32:22/10/2018;33:US ~31:62/756,942 ~32:07/11/2018;33:US ~31:62/839,459 ~32:26/04/2019;33:US ~31:62/875,449 ~32:17/07/2019;33:US ~31:62/893,721 ~32:29/08/2019;33:US ~31:62/907,354 ~32:27/09/2019

2021/02884 ~ Complete ~54:METHOD OF FEEDING WOOD CHIPS TO A PREHYDROLYSIS REACTOR ~71:Andritz Oy, Tammasaarenkatu 1, HELSINKI 00180, FINLAND, Finland ~72: ANDRADE, Marco;GEIGER, Ronny;KAIPAINEN, Vesa;KETTUNEN, Auvo;TARJAVUORI, Petri;VIANNA, Viridiane~ 33:FI ~31:20185831 ~32:03/10/2018

2021/02887 ~ Complete ~54:LONG-ACTING INTERLEUKIN-15 RECEPTOR AGONIST IN COMBINATION WITH ANOTHER PHARMACOLOGICALLY ACTIVE AGENT ~71:Nektar Therapeutics, 455 Mission Bay Boulevard, South, Suite 100, SAN FRANCISCO 94158, CA, USA, United States of America ~72: KIVIMAE, Saul;MADAKAMUTIL, Loui;MIYAZAKI, Takahiro~ 33:US ~31:62/758,344 ~32:09/11/2018;33:US ~31:62/789,924 ~32:08/01/2019;33:US ~31:62/818,003 ~32:13/03/2019;33:US ~31:62/825,437 ~32:28/03/2019;33:US ~31:62/843,036 ~32:03/05/2019;33:US ~31:62/848,372 ~32:15/05/2019;33:US ~31:62/924,015 ~32:21/10/2019

2021/02890 ~ Complete ~54:METHODS AND DEVICES FOR PERFORMING AN ANALYTICAL MEASUREMENT ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BERG, Max;HAILER, Fredrik;LIMBURG, Bernd~ 33:EP ~31:18205002.1 ~32:07/11/2018

- APPLIED ON 4/30/2021 -

2021/02930 ~ Complete ~54:LOGIC CIRCUITRY ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: GARDNER, James Michael;LINN, Scott A.;PANSHIN, Stephen D.;ROETHIG, David Owen;WARD, Jefferson P.~

2021/02940 ~ Complete ~54:PHARMACEUTICAL COMPOSITION FOR TREATING APLASTIC ANEMIA ~71:KYOWA KIRIN CO., LTD., 1-9-2, Otemachi, Chiyoda-ku, Tokyo, 1000004, Japan ~72: MIYAKO KODAMA;YUKIE TSUJI~ 33:JP ~31:2018-202097 ~32:26/10/2018

2021/02946 ~ Complete ~54:CARTRIDGE AMMUNITION AND METHOD OF MANUFACTURING SAME  
~71:CODED AMMUNITION PROPRIETARY LIMITED, 20 Mossel Street, Parow West, Cape Town 7500, SOUTH AFRICA, South Africa ~72: ARENDZE, Ebrahim Edries~ 33:ZA ~31:2018/07670 ~32:15/11/2018

2021/03004 ~ Complete ~54:EFFICIENT SEPARATION, RECYCLING TREATMENT AND CYCLIC UTILIZATION TEST DEVICE FOR COAL-WATER-GAS MIXTURE ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, People's Republic of China;CHINA UNIVERSITY OF MINING AND TECHNOLOGY, No.1 Daxue Road, People's Republic of China ~72: HUANG, HUAZHOU;JIA, JINLONG;LI, ZICHENG;LIU, CHANGJIANG;LIU, HUIHU;LIU, SHIQI;SANG, SHUXUN;WANG, HAIWEN;WU, HAIYAN;XU, HONGJIE;ZHOU, XIAOZHI~ 33:CN ~31:202010705173.9 ~32:21/07/2020

2021/02914 ~ Complete ~54:METHOD AND DEVICE FOR CODING AND DECODING AN IMAGE BY BLOCK CUTTING INTO ZONES ~71:FONDATION B-COM, 1219 Avenue des Champs-Blancs, France ~72: CLARE, Gordon;HENRY, F&#233;lix;PHILIPPE, Pierrick~ 33:FR ~31:1860360 ~32:09/11/2018

2021/02902 ~ Provisional ~54:FACE GUARD ~71:GRIMSEHL, Karl Philipp, 122 Wicklow Road, Bronberrick, Centurion, , Gauteng, 0157, South Africa ~72: GRIMSEHL, Karl Philipp~

2021/02912 ~ Complete ~54:METHOD TO USE INDUSTRIAL CO2 CONTAINING GAS FOR THE PRODUCTION OF A METHANE ENRICHED GAS COMPOSITION ~71:ELECTROCHAEA GMBH, Semmelweisstrasse 3, Germany ~72: AHRENS, Theresa;FONTAINE, Doline;HAFENBRADL, Doris;HOERL, Manuel;PESIC, Aleksandra;TAVARES SILVA, Karen~ 33:DE ~31:10 2018 126 953.6 ~32:29/10/2018

2021/02919 ~ Complete ~54:AUXILIARY APPARATUS WHICH CAN BE USED IN EXAMINATION OF FUNDUS BY SLIT LAMP MICROSCOPE IN COMBINATION WITH FRONT-MOUNTED LENS ~71:JIANGSU PROVINCE HOSPITAL (THE FIRST HOSPITAL WITH NANJING MEDICAL), No. 300 Guangzhou Rd, Gulou Nanjing, Jiangsu, 210000, People's Republic of China ~72: LIU, Qinghuai;QIU, Aowang;XIE, Ping;ZHANG, Weiwei~ 33:CN ~31:202010258540.5 ~32:03/04/2020

2021/02925 ~ Complete ~54:AEROSOLISED FORMULATION ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CABOT, Ross~ 33:GB ~31:1817868.1 ~32:01/11/2018

2021/02944 ~ Complete ~54:MATERIAL CONVEYOR, SYSTEM AND METHOD FOR THE MOVEMENT OF MATERIAL ~71:MMD DESIGN & CONSULTANCY LIMITED, Cotes Park Lane Cotes Park Industrial Estate, Somercotes, Derbyshire, DE55 4NJ, United Kingdom ~72: CHRISTOPHER PEARSON~ 33:GB ~31:1820431.3 ~32:14/12/2018

2021/02900 ~ Provisional ~54:CHARGELESS ELECTRIC ENGINE (CEE) ~71:Melusi Christopher Ntuli, B889 Gazankulu Street, South Africa ~72: Melusi Christopher Ntuli~

2021/02918 ~ Complete ~54:CORRECTOR FOR DEVIATION-FREE STEREOTACTIC DEVICE ~71:NANTONG UNIVERSITY, No. 9 Seyuan Road, Chongchuan Nantong, Jiangsu, 226000, People's Republic of China ~72: CAO, Beibei;GU, Hongmei;PENG, Yuping;QIU, Yihua;WANG, Xiaoqin~

2021/02924 ~ Complete ~54:AEROSOLISABLE FORMULATION ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CABOT, Ross~ 33:GB ~31:1817864.0 ~32:01/11/2018

2021/02922 ~ Complete ~54:NOVEL UREA 6,7-DIHYDRO-4H-PYRAZOLO[1,5-A]PYRAZINES ACTIVE AGAINST THE HEPATITIS B VIRUS (HBV) ~71: AiCuris GmbH & Co. KG, Friedrich-Ebert-Str&#223;e 475,

WUPPERTAL 42117, GERMANY, Germany ~72: BONSMANN, Susanne;DONALD, Alastair;URBAN, Andreas~  
33:EP ~31:18000877.3 ~32:02/11/2018

2021/02904 ~ Complete ~54:IMPROVED DUAL SPECIFICITY POLYPEPTIDE MOLECULE ~71:Immatics  
Biotechnologies GmbH, Paul-Ehrlich-Stra&#223;e 15, T&#220;BINGEN 72076, GERMANY, Germany ~72:  
BUNK, Sebastian;HOFMANN, Martin;MAURER, Dominik;UNVERDORBEN, Felix~ 33:DE ~31:10 2017 115  
966.5 ~32:14/07/2017;33:US ~31:62/532,713 ~32:14/07/2017;33:DE ~31:10 2017 119 866.0  
~32:30/08/2017;33:DE ~31:10 2018 108 995.3 ~32:16/04/2018;33:US ~31:62/658,318 ~32:16/04/2018

2021/02906 ~ Complete ~54:LIQUID PROTEIN FORMULATIONS CONTAINING VISCOSITY-LOWERING  
AGENTS ~71:EAGLE BIOLOGICS, INC., 1 Kendall Square, Building 1400, Suite 301, Cambridge,  
Massachusetts, 02139, United States of America ~72: ALAN CRANE;ALEXANDER M KLIBANOV;ALISHA K  
WEIGHT;ALYSSA M LARSON;KEVIN LOVE;ROBERT S LANGER~ 33:US ~31:61/876,621  
~32:11/09/2013;33:US ~31:61/940,227 ~32:14/02/2014;33:US ~31:61/943,197 ~32:21/02/2014;33:US  
~31:61/946,436 ~32:28/02/2014;33:US ~31:61/988,005 ~32:02/05/2014;33:US ~31:62/008,050  
~32:05/06/2014;33:US ~31:62/026,497 ~32:18/07/2014;33:US ~31:62/030,521 ~32:29/07/2014

2021/02910 ~ Complete ~54:DISCONTINUOUS RECEPTION IN A WIRELESS COMMUNICATION SYSTEM  
~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72:  
HOFSTR&#214;M, Bj&#246;rn;M&#196;&#196;TTANEN, Helka-Liina~ 33:US ~31:62/760,906 ~32:13/11/2018

2021/02942 ~ Complete ~54:THERAPEUTIC METHODS ~71:GENEVANT SCIENCES GMBH, Viadukstrasse 8,  
4051, Basel, Switzerland ~72: ADAM JUDGE;JAMES HEYES;KIEU MONG LAM;RICHARD J HOLLAND~ 33:US  
~31:62/755,196 ~32:02/11/2018

2021/02920 ~ Complete ~54:METHODS OF TREATING CHRONIC KIDNEY DISEASE WITH DAPAGLIFLOZIN  
~71:AstraZeneca AB, S&#214;DERT&#196;LJE SE-151 85, SWEDEN, Sweden ~72: LANGKILDE, Anna Maria~  
33:US ~31:63/057,139 ~32:27/07/2020;33:US ~31:63/070,869 ~32:27/08/2020;33:US ~31:63/082,524  
~32:24/09/2020;33:US ~31:63/093,961 ~32:20/10/2020;33:US ~31:63/119,711 ~32:01/12/2020;33:US  
~31:63/152,445 ~32:23/02/2021;33:US ~31:63/161,629 ~32:16/03/2021

2021/03005 ~ Complete ~54:GANODERMA LUCIDUM SPORE POWDER FUNCTIONAL CHOCOLATE CHIP  
AND PREPARATION METHOD THEREOF ~71:JILIN AGRICULTURAL UNIVERSITY, No. 2888, Xincheng  
Street, People's Republic of China;JILIN PROVINCE ZHONGZHENGHE TECHNOLOGY CO., LTD., No. 2888,  
Xincheng Street, People's Republic of China ~72: CHANG, YA'NAN;CHEN, DANDAN;LI, ZHUOWEI;LIU,  
JUNMEI;SHENG, ANQI;SHENG, ZHILI;ZHAO, YUQIAN~

2021/02909 ~ Complete ~54:IMMUNOGENIC PEPTIDES WITH IMPROVED OXIDOREDUCTASE MOTIFS  
~71:IMCYSE SA, Avenue de l&#39;H&#244;pital 1, Belgium ~72: ERAK, Milos;VANDER ELST, Luc~ 33:EP  
~31:18205611.9 ~32:12/11/2018;33:EP ~31:18205615.0 ~32:12/11/2018

2021/02926 ~ Complete ~54:AEROSOLISED FORMULATION ~71:Nicoventures Trading Limited, Globe House, 1  
Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CABOT, Ross~ 33:GB  
~31:1817860.8 ~32:01/11/2018

2021/02898 ~ Provisional ~54:DRYING RACK ~71:ADRIAAN NEL, 20 MAIN ROAD, FISHERS HILL,  
GERMISTON, South Africa ~72: ADRIAAN NEL;FREDERICK PETRUS NEL~

2021/02911 ~ Complete ~54:SYSTEM AND METHOD FOR MAPPING FUNCTIONAL NERVES INNERVATING  
WALL OF ARTERIES, 3-D MAPPING AND CATHETERS FOR SAME ~71:SYMAP MEDICAL (SUZHOU), LTD,

UNIT 601, BUILDING B3, 218 XINGHU STREET, SUZHOU INDUSTRIAL PARK, SUZHOU, JIANGSU, CHINA, People's Republic of China ~72: WANG, Jie~ 33:US ~31:62/742,276 ~32:06/10/2018

2021/02977 ~ Provisional ~54:MBOKODO TRAIN ~71:ALPHEUS MOTSUPI, 60979 Tshwana Section, South Africa;TUMISANG MOYO, 60979 Tshwana Section, South Africa ~72: ALPHEUS MOTSUPI;TUMISANG MOYO~

2021/02939 ~ Complete ~54:AEROSOLISABLE FORMULATION ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CABOT, Ross~ 33:GB ~31:1817863.2 ~32:01/11/2018

2021/02943 ~ Complete ~54:TWO-GENE VECTORS FOR GENERATING CAR-T CELLS AND USES THEREOF ~71:MEDISIX THERAPEUTICS PTE LTD., 30 Cecil Street, #19-08, Prudential Tower, 049712, Singapore ~72: MURRAY ROBINSON;RIZAL ISMAIL;YING XIM TAN;YUNQIN LEE~ 33:US ~31:62/767,069 ~32:14/11/2018

2021/02945 ~ Complete ~54:CONSENSUS-BASED VOTING FOR NETWORK MEMBER IDENTIFICATION EMPLOYING BLOCKCHAIN-BASED IDENTITY SIGNATURE MECHANISMS ~71:MUTUALINK, INC., 1269 South Broad Street, Wallingford, Connecticut, 06492, United States of America ~72: JOSEPH R MAZZARELLA~ 33:US ~31:62/740,020 ~32:02/10/2018

2021/02937 ~ Complete ~54:AN ENERGY DISPERSIVE X-RAY DIFFRACTION ANALYSER HAVING AN IMPROVED REFLECTION GEOMETRY ~71:Commonwealth Scientific and Industrial Research Organisation, Clunies Ross St, ACTON 2601, AUSTRALIAN CAPITAL TERRITORY, AUSTRALIA, Australia ~72: O&#39;DWYER, Joel;TICKNER, James Richard~ 33:AU ~31:2018903962 ~32:19/10/2018

2021/02927 ~ Complete ~54:METHOD FOR DETERMINING PATIENT'S RESPONSIVENESS TO TYPE I INTERFERON TREATMENT AND USE OF TYPE I INTERFERON TO TREAT PATIENT HAVING SPECIFIED SINGLE NUCLEOTIDE POLYMORPHISM ~71:Faron Pharmaceuticals Oy, Joukahaisenkatu 6, TURKU 20520, FINLAND, Finland ~72: JALKANEN, Juho;JALKANEN, Markku;KARVONEN, Matti~ 33:FI ~31:20186041 ~32:04/12/2018

2021/02931 ~ Complete ~54:ORAL CARE COMPOSITIONS ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: CHOPRA, Suman;FEI, Lin;TANG, Saide;UTGIKAR, Neelima~ 33:US ~31:62/782,702 ~32:20/12/2018

2021/02907 ~ Complete ~54:WIRELESS GUEST ENGAGEMENT SYSTEM ~71:CARNIVAL CORPORATION, 3655 N.W. 87 Avenue, Miami, Florida, 33178-2428, United States of America ~72: ADAM LEONARDS;DOUGLAS STEELE;GLENN CURTIS;JOHN PADGETT;KYLE PRESTENBACK;MANNY VELLON;MICHAEL G JUNGEN;PATRICK MENDIUK;RICHARD J CRIADO;SANDER LAM;VINCE BALL~ 33:US ~31:62/420,998 ~32:11/11/2016;33:US ~31:62/440,938 ~32:30/12/2016;33:US ~31:15/459,906 ~32:15/03/2017

2021/02901 ~ Provisional ~54:METHOD AND APPARATUS FOR PREPARING A FOODSTUFF ~71:SUSARHA PITRONELLA JACOMINA DE BRUTO, Homestead no 8, South Africa ~72: SUSARHA PITRONELLA JACOMINA DE BRUTO~

2021/02903 ~ Complete ~54:A SYSTEM AND METHOD FOR PREVENTING AND DETECTING AN EMERGENCY ~71:VENTER, Pieter Dani&#235;l, 13 Kamassie Crescent, Unit 18, Milwaukee Mews, Moreleta Park, South Africa ~72: VENTER, Pieter Dani&#235;l~ 33:ZA ~31:2020/05710 ~32:16/09/2020

2021/02905 ~ Complete ~54:ANTI-GALECTIN-9 ANTIBODIES AND USES THEREOF ~71:New York University, 70 Washington Square South, NEW YORK 10012, NY, USA, United States of America;PureTech Health, LLC,

501 Boylston Street, Suite 6102, BOSTON 02116, MA, USA, United States of America ~72: BOLEN, Joseph;CHEN, Linxiao;ELENKO, Eric;FILIPOVIC, Aleksandra;KOIDE, Akiko;KOIDE, Shohei;MILLER, George~ 33:US ~31:62/578,111 ~32:27/10/2017;33:US ~31:62/665,175 ~32:01/05/2018;33:US ~31:62/736,317 ~32:25/09/2018

2021/02908 ~ Complete ~54:LINER DISPENSING HOUSING ~71:RIPLOG (PROPRIETARY) LIMITED, 11 Watt Street, Middelburg, Mpumalanga, 1050, South Africa ~72: RYAN DHOOGHE~

2021/02936 ~ Complete ~54:AEROSOLISABLE FORMULATION ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CABOT, Ross~ 33:GB ~31:1817866.5 ~32:01/11/2018;33:GB ~31:1906242.1 ~32:03/05/2019

2021/02917 ~ Complete ~54:MULTI-WALLED CARBON NANOTUBE COMPOSITE FORM-STABLE PHASE CHANGE MATERIAL, AND PREPARATION METHOD AND USE THEREFOR ~71:NANTONG UNIVERSITY, No. 9 Seyuan Road, Chongchuan Nantong, Jiangsu, 226000, People's Republic of China ~72: LI, Minmin;MIAO, Jianwen;SONG, Guohua;WANG, Yan;XIA, Jie~ 33:CN ~31:202010473446.1 ~32:29/05/2020

2021/02934 ~ Complete ~54:RESET CONNECTOR FOR AN INJECTION DEVICE AND AN INJECTION DEVICE TRAINER ~71:Janssen Pharmaceuticals, Inc., 1125 Trenton-Harbourton Road, TITUSVILLE 08560, NJ, USA, United States of America ~72: MACH, Hung~ 33:GB ~31:1816034.1 ~32:01/10/2018

2021/02932 ~ Complete ~54:METHODS, DEVICES, KITS AND COMPOSITIONS FOR DETECTING TAPEWORM ~71:IDEXX Laboratories, Inc., One Idexx Drive, WESTBROOK 04092, ME, USA, United States of America ~72: ELSEMORE, David Allen;GENG, Jinming~ 33:US ~31:62/740,100 ~32:02/10/2018;33:US ~31:62/741,849 ~32:05/10/2018;33:US ~31:62/746,805 ~32:17/10/2018

2021/02935 ~ Complete ~54:LOCKING MEMBER FOR AN INJECTION DEVICE AND AN INJECTION DEVICE TRAINER ~71:Janssen Pharmaceuticals, Inc., 1125 Trenton-Harbourton Road, TITUSVILLE 08560, NJ, USA, United States of America ~72: MACH, Hung~ 33:GB ~31:1816035.8 ~32:01/10/2018

2021/02913 ~ Complete ~54:DOSAGE REGIME ~71:NOVABIOTICS LIMITED, Cruickshank Building, Craibstone, United Kingdom ~72: O&#39;NEIL, Deborah~ 33:CA ~31:3021344 ~32:17/10/2018;33:EP ~31:18201033.0 ~32:17/10/2018;33:US ~31:16/163,407 ~32:17/10/2018

2021/02923 ~ Complete ~54:AEROSOLISABLE FORMULATION ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CABOT, Ross~ 33:GB ~31:1817862.4 ~32:01/11/2018

2021/02899 ~ Provisional ~54:COMMUNICATION SYSTEM AND METHOD ~71:THEMBALIHLE FIKILE NTULI, 6 TERRANCE ROAD, MOUNTAINVIEW, South Africa ~72: THEMBALIHLE FIKILE NTULI~

2021/02916 ~ Complete ~54:INFLATABLE DOWN HOLE BAG WITH INFLATION REAGENT RELEASE ~71:MTI GROUP PTY LTD, 37 Competition Way, Australia ~72: BODLEY, Nicholas;SMITH, Jamie~ 33:AU ~31:2018903977 ~32:19/10/2018

2021/02928 ~ Complete ~54:AEROSOLISABLE FORMULATION ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CABOT, Ross~ 33:GB ~31:1817867.3 ~32:01/11/2018

2021/02929 ~ Complete ~54:FERTILIZER COATING APPLIED IN THE REDUCTION OF CAKING AND MOISTURE ADSORPTION ~71:Arr-Maz Products, L.P., 4800 State Road 60 East, MULBERRY 33860, FL, USA,

United States of America ~72: KONECKI, Christina;MOORE, Lucas R.~ 33:US ~31:62/769,841  
~32:20/11/2018;33:US ~31:16/689,400 ~32:20/11/2019

2021/02915 ~ Complete ~54:IMAGE CODING BY DIFFERENTIAL PULSE CODED MODULATION WITH THE  
AID OF A PREDICTION FUNCTION ~71:FONDATION B-COM, 1219 Avenue des Champs-Blancs, France ~72:  
CLARE, Gordon;HENRY, F&#233;lix;PHILIPPE, Pierrick~ 33:FR ~31:1860360 ~32:09/11/2018

2021/02938 ~ Complete ~54:PHOTOVOLTAIC STRING COMBINER BOX WITH PROTECTION FUNCTIONS  
~71:Eaton Intelligent Power Limited, Eaton House, 30 Pembroke Road, DUBLIN 4, IRELAND, Ireland ~72:  
ASKAN, Kenan~ 33:GB ~31:1818408.5 ~32:12/11/2018

2021/02941 ~ Complete ~54:ELECTRONIC VAPING SYSTEM ~71:AYR LTD, 65a Hopton Street, London, SE1  
9LR, United Kingdom ~72: IAN MURISON;MARK GRETTON~ 33:GB ~31:1816618.1 ~32:12/10/2018;33:GB  
~31:1818020.8 ~32:05/11/2018;33:GB ~31:1902548.5 ~32:26/02/2019

2021/03006 ~ Complete ~54:SURGICAL ROBOT BASED ON BALL AND SOCKET JOINT AND TACTILE  
FEEDBACK, AND CONTROL DEVICE THEREOF ~71:SIHONG ZHENGXING MEDICAL TECHNOLOGY CO.,  
LTD., Building 17 (Room1-1) , Dongcheng Kangqiao Community, Sihong County, Suqian, People's Republic of  
China ~72: ZHENG, Xing;ZHENG, Yang~ 33:CN ~31:201811152855.0 ~32:30/09/2018;33:CN  
~31:201811152893.6 ~32:30/09/2018

2021/02921 ~ Complete ~54:PICK-UP DEVICE FOR PICKING UP A TUBULAR KNITTED ARTICLE FROM A  
CIRCULAR KNITTING MACHINE AND FOR ITS TRANSFER TO A UNIT ADAPTED TO PERFORM  
ADDITIONAL OPERATIONS ON THE ARTICLE ~71:Lonati S.p.A., Via Francesco Lonati, 3, BRESCIA 25124,  
ITALY, Italy ~72: LONATI, Ettore;LONATI, Fausto;LONATI, Francesco~ 33:IT ~31:102019000005838  
~32:16/04/2019

2021/02933 ~ Complete ~54:LATCH FOR AN INJECTION DEVICE AND AN INJECTION DEVICE TRAINER  
~71:Janssen Pharmaceuticals, Inc., 1125 Trenton-Harbourton Road, TITUSVILLE 8560, NJ, USA, United States  
of America ~72: MACH, Hung~ 33:GB ~31:1816040.8 ~32:01/10/2018

2021/02949 ~ Provisional ~54:FORCE MEGANISM ASSOCIATED WITH POOL BRUSHES ~71:JOHANNES  
JURGENS NAUDE, 437A Clark Street Waterkloof, South Africa ~72: JOHANNES JURGENS NAUDE~

- APPLIED ON 5/3/2021 1 -

2021/02960 ~ Provisional ~54:A SYSTEM FOR PROCESSING A LOCATION BASED SERVICE REQUEST  
~71:MARCUS STEFAAN VOSLOO, 18 Elderberry Drive Glenhills, Durban North, KwaZulu Natal, 4051, South  
Africa ~72: MARCUS STEFAAN VOSLOO~

2021/02958 ~ Provisional ~54:CLIP BASED FLAT-PACK FURNITURE ASSEMBLY SYSTEM ~71:Robert  
MacMurray, 7 Marikana Crescent, Morningside, South Africa ~72: Robert MacMurray~

2021/02963 ~ Complete ~54:PIPERIDINE CXCR7 RECEPTOR MODULATORS ~71:Idorsia Pharmaceuticals Ltd,  
Hegenheimermattweg 91, ALLSCHWIL 4123, SWITZERLAND, Switzerland ~72: AISSAOUI, Hamed;GUERRY,  
Philippe;LEHEMBRE, Francois;POTHIER, Julien;POUZOL, Laetitia;RICHARD-BILDSTEIN, Sylvia;YUAN,  
Shuguang~ 33:IB ~31:2016/068052 ~32:28/07/2016

2021/02967 ~ Complete ~54:ANELLOSOMES FOR DELIVERING SECRETED THERAPEUTIC MODALITIES  
~71:FLAGSHIP PIONEERING INNOVATIONS V, INC., 55 Cambridge Parkway, 8th Floor, Suite 800E, United  
States of America ~72: DELAGRAVE, Simon;DIAZ, Fernando, Martin;KAHVEJIAN, Avak;LEBO, Kevin,  
James;NAWANDAR, Dhananjay, Maniklal;PITTS, Jared, David;TEDSTONE, Ryan, D.;WEINSTEIN, Erica,

Gabrielle;YOZWIAK, Nathan, Lawrence~ 33:US ~31:62/778,866 ~32:12/12/2018;33:US ~31:62/778,869 ~32:12/12/2018

2021/02970 ~ Complete ~54:METHOD AND APPARATUSES FOR SCREENING ~71:DERRICK CORPORATION, 590 Duke Road, Buffalo, United States of America ~72: COLGROVE, James R.;SMITH, Clifford C.~ 33:US ~31:16/151,909 ~32:04/10/2018

2021/02973 ~ Complete ~54:DIGITAL VEHICLE DISPLAY SYSTEM, APPARATUS AND METHOD ~71:NGANWA, Philip Joseph Kanyamuny, 60 Annabella, Montrose Road, Barbeque Downs, SUNNINGHILL, Johannesburg 2157, Gauteng, SOUTH AFRICA, South Africa ~72: NGANWA, Philip Joseph Kanyamuny~ 33:ZA ~31:2019/02774 ~32:03/05/2019

2021/02950 ~ Provisional ~54:ALTERNATIVE MATERIAL PRODUCTS ~71:Mining Product Developments (Pty)Ltd, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2021/02975 ~ Complete ~54:ADAPTER BOARD WITH SPLINED BUSHING FOR THE BLADE ASSEMBLY OF A SOIL SHIFTING MACHINE ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: CONGDON, Thomas M.;PARZYNSKI JR., David B.;TOENNIES, Tobias J.~ 33:US ~31:16/182,736 ~32:07/11/2018

2021/02974 ~ Complete ~54:2,6-DIMETHYL-N-((PYRIDIN-4-YL)METHYL)IMIDAZO[1,2-B]PYRIDAZIN-8-AMINE AND 2,5-DIMETHYL-N-[(PYRIDIN-4-YL)METHYL]PYRAZOLO[1,5-A]PYRIMIDIN-7-AMINE DERIVATIVES FOR TREATING VIRAL INFECTIONS ~71:CUROVIR AB, P.O. Box 716, 391 27, Kalmar, Sweden ~72: JACOB WESTMAN~ 33:EP ~31:18199486.4 ~32:10/10/2018

2021/03077 ~ Complete ~54:ELECTRONIC DEVICE IDENTIFICATION ~71:MOBILE TECHNOLOGY HOLDINGS LIMITED, FIRST FLOOR, JUBILEE BUILDINGS, VICTORIA STREET, DOUGLAS, ISLE OF MAN, Isle of Man ~72: EDMISTON, Sean, Anthony;NORMAN, Carl;WILSON, Michael, John~ 33:AU ~31:2018904106 ~32:30/10/2018

2021/02955 ~ Provisional ~54:PARTITION LAUNDRY BASKET ~71:Johannes Mahlaola, 5523, BLOCK MOKONE STINKWATER, South Africa ~72: Johannes Mahlaola;Johannes Mahlaola~

2021/02971 ~ Complete ~54:LOGIC CIRCUITRY ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: CUMBIE, Michael W.;GARDNER, James Michael;LINN, Scott A.;LU, Sirena Chi;OLSEN, David N.;PANSHIN, Stephen D.;ROETHIG, David Owen;STUDER, Anthony D;WARD, Jefferson P.~ 33:IB ~31:2018/063624 ~32:03/12/2018;33:IB ~31:2018/063630 ~32:03/12/2018;33:IB ~31:2018/063631 ~32:03/12/2018;33:IB ~31:2018/063638 ~32:03/12/2018;33:IB ~31:2018/063643 ~32:03/12/2018

2021/02954 ~ Provisional ~54:SAFETY CAST ~71:Jessica gouden, 51 Rickben crescent mayville, South Africa ~72: Jessica gouden~

2021/02959 ~ Provisional ~54:A BEARING SEAL ARRANGEMENT ~71:THE B&#220;HRMANN TRUST, Plot 33, The Riverside Estates, South Africa ~72: B&#220;HRMANN, Rudolph~

2021/02951 ~ Provisional ~54:MINE SUPPORT BLOCK ~71:Mining Product Developments (Pty)Ltd, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2021/02964 ~ Complete ~54:APPARATUS, METHOD AND PROCESS FOR THE RECOVERY OF MINERALS ~71:FINETECH MINERALS PROPRIETARY LIMITED, First Floor Block C, St Andrew's Office Park,

Meadowbrook Lane, Epsom Downs, BRYANSTON 2191, SOUTH AFRICA, South Africa ~72: NIEMOLLER, Rudy~ 33:ZA ~31:2020/01957 ~32:04/05/2020

2021/02965 ~ Complete ~54:ENZYME COMPLEX-PRODUCING BACILLUS SUBTILIS (B. SUBTILIS) STRAIN Q3, AND CULTIVATION METHOD AND USE THEREOF ~71:QILU UNIVERSITY OF TECHNOLOGY, 3501 Daxue Road, Changqing District, Jinan City, Shandong, People's Republic of China ~72: LIPING ZHU;SHIGAN YAN~ 33:CN ~31:202011520077.3 ~32:21/12/2020

2021/02947 ~ Provisional ~54:CYBER-VISIT SYSTEM MANAGER ~71:DALINDYEBO NYUSHMAN, 277 Gate Street Pretoria Gardens, South Africa ~72: DALINDYEBO NYUSHMAN~

2021/02952 ~ Provisional ~54:ALTERNATIVE MATERIAL PRODUCTS ~71:Mining Product Developments (Pty)Ltd, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2021/02956 ~ Provisional ~54:CELLQUICKEN ROYALVIBE ULTRASOUND ~71:Raymond Venter, C/o Ilanga And Boterklapper Ave, Fintech, South Africa ~72: Raymond Venter~ 33:ZA ~31:none ~32:04/04/2021

2021/02968 ~ Complete ~54:SCAFFOLD NODE ~71:PERI GMBH, IP Management, Rudolf-Diesel-Str. 19, Germany ~72: BULLING, J&#252;rgen;MIKIC, Erzaad;STEINLE, Bernhard~ 33:DE ~31:20 2018 106 709.5 ~32:26/11/2018;33:DE ~31:20 2019 102 265.5 ~32:20/04/2019;33:DE ~31:10 2019 117 082.6 ~32:25/06/2019

2021/02969 ~ Complete ~54:MULTI-FUNCTIONAL BEAM FOR FORMWORK, SUPPORT WORK AND SCAFFOLDING RELATED APPLICATIONS ~71:WACO Africa (Pty) Ltd t/a FORMSCAFF, 181 Barbara Road, ELANDSFONTEIN, Johannesburg 1401, SOUTH AFRICA, South Africa ~72: MOES, Jan Johannes;POUWELS, Klaas~ 33:ZA ~31:2018/06526 ~32:02/10/2018

2021/02976 ~ Complete ~54:SHROUD RETENTION SYSTEM FOR A WORK TOOL ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: BJERKE, Nathan;CONGDON, Thomas M.;SCHICK, Scott A.~ 33:US ~31:16/181,655 ~32:06/11/2018

2021/02957 ~ Provisional ~54:HERBAL ANALGESIC COMPOSITIONS FOR MANAGEMENT AND TREATMENT OF PAIN AND INFLAMMATION ~71:Afrigen Biologics (Pty) Ltd, Unit 5 & 6 Kestrel Park, Longclaw Drive, Montague Gardens, South Africa;Innovon Technologies (Pty) Ltd, 23 Eland Street The Hills Estate, 281, South Africa;University of Pretoria, Lynnwood Road Hatfield, South Africa ~72: Dr Dashnie Naidoo-Maharaj;Dr Gerda Fouche;Mr Gerhardt Johannes Boukes;Mr Sechaba Michael Modise;Ms Caryn fenner;Ms Elize Lindsay Willenburg;Prof Vinesh Maharaj~

2021/02961 ~ Provisional ~54:TREATMENT OF WATER TO REMOVE CYANOBACTERIA ~71:UNIVERSITY OF VENDA, University Road, South Africa ~72: Jabulani Ray GUMBO;Nikita Tawanda TAVENGWA;Vusani PANDELANI~

2021/02962 ~ Provisional ~54:A BALE PROCESSING APPARATUS ~71:ROASTECH CC, c/o Dominee Kok and Dominee Kotze Streets, South Africa ~72: TESELING, Frederick Willem~

2021/02966 ~ Complete ~54:TRIFLUOROMETHYL-SUBSTITUTED SULFONAMIDE AS BCL-2-SELECTIVE INHIBITOR ~71:CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., No.369 Yuzhou South Rd, Lianyungang, People's Republic of China ~72: FENG, Weiwei;GU, Hongmei;LI, Yang;LIU, Fei;LIU, Limin;LIU, Yanlong;SHI, Wei;TANG, Song;TANG, Xujing;WANG, Bin;WANG, Jinan;WANG, Shanchun;XU, Hongjiang;YANG, Ling;YAO, Yiyang;ZHANG, Hongying;ZHANG, Jianqing;ZHANG, Xiquan;ZHU, Yizhong~ 33:CN ~31:201811268572.2 ~32:29/10/2018;33:CN ~31:201910249783.X ~32:29/03/2019;33:CN ~31:201910933513.0 ~32:29/09/2019



2021/02972 ~ Complete ~54:PROSTHETIC HEART VALVE HAVING COMMISSURE SUPPORT ELEMENT  
~71:Edwards Lifesciences Corporation, One Edwards Way, IRVINE 92614, CA, USA, United States of America  
~72: BUKIN, Michael;KERET, Amir;LEVI, Tamir S.;MAIMON, David;NIR, Noam;SHERMAN, Elena;YOHANAN,  
Ziv~ 33:US ~31:62/767,412 ~32:14/11/2018

2021/02953 ~ Provisional ~54:ECO GLOVE PRO ~71:Jessica Gounden, 51 Rickben crescent, South Africa ~72:  
Jessica Gounden~

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2021/02978 ~ Provisional ~54:DEVICE AND COMPONENTS FOR PREVENTING OR REDUCING MOISTURE  
FROM ENTERING MEDICAL DEVICES SUCH AS A BREATHALYSER ~71:COETZEE, Anton, 86 Leicester  
Road, Kensington, 2094, South Africa;DEMAC BV, Singel 115 G, 1012 VH, Amsterdam, Netherlands ~72:  
COETZEE, Anton;KARDOL, Bastiaan;ROSSIER, Gerard;SHUURER, Maarten~

2021/03000 ~ Complete ~54:SWING/WING GATE TURNSTILE ~71:GUNNEBO ENTRANCE CONTROL LTD.,  
The Gate House, Ashdown Business Park, Michael Way Maresfield, Maresfield, TN22 2DU, United Kingdom ~72:  
DAVID PORT IAIN~ 33:IT ~31:102018000009238 ~32:08/10/2018

2021/02979 ~ Provisional ~54:BEVERAGE MIXER AND DISPENSER ~71:INVENT WORKSHOP (PTY) LTD, Bay  
Hill, Fourways Golf Park, Roos Street, South Africa ~72: ILLGNER, Ryan Stephen;LYDALL, Stephen Terence~

2021/02998 ~ Complete ~54:FILTERING APPARATUS AND METHOD ~71:O.M.IT S.R.L., Via dei Castelli  
Romani 22 , 00071, Pomezia (RM), Italy ~72: CARMINE ELIA~ 33:IT ~31:102018000010259  
~32:12/11/2018;33:IT ~31:102018000010430 ~32:19/11/2018;33:IT ~31:102019000011046  
~32:05/07/2019;33:IT ~31:102019000011058 ~32:05/07/2019

2021/02981 ~ Provisional ~54:TRANSFORMER MONITORING DEVICE, AND SYSTEM INCLUDING SAME  
~71:ALLBRO (PTY) LTD, 121, 13th Avenue, Anderbolt Ext 32, Boksburg, Gauteng, South Africa ~72: QUINTIN  
LAMPRECHT~

2021/02989 ~ Complete ~54:OPTICAL SECURITY ELEMENTS, MARKED OBJECT, METHOD OF  
AUTHENTICATING AN OBJECT AND USE OF OPTICAL SECURITY ELEMENTS FOR AUTHENTICATING OR  
SECURING AGAINST COUNTERFEITING ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008,  
SWITZERLAND, Switzerland ~72: CALLEGARI, Andrea;DEGOTT, Pierre;DINOEV, Todor;EGGER, Philipp~  
33:EP ~31:18198945.0 ~32:05/10/2018

2021/02992 ~ Complete ~54:METHOD AND APPARATUS FOR INTRA PREDICTION USING AN  
INTERPOLATION FILTER ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian,  
Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN,  
Jianle;FILIPPOV, Alexey Konstantinovich;RUFITSKIY, Vasily Alexeevich~ 33:US ~31:62/742,300  
~32:06/10/2018;33:US ~31:62/744,096 ~32:10/10/2018;33:US ~31:62/753,055 ~32:30/10/2018;33:US  
~31:62/757,150 ~32:07/11/2018

2021/02986 ~ Complete ~54:PROTEIN SOLUTION FORMULATION CONTAINING HIGH CONCENTRATION OF  
AN ANTI-VEGF ANTIBODY ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: DE MOOR, Pamela;SIGG,  
Juergen~ 33:US ~31:62/781,003 ~32:18/12/2018

2021/02990 ~ Complete ~54:A METHOD OF DESIGNING A LIGHT-REDIRECTING SURFACE OF A CAUSTIC  
LAYER, AN OPTICAL SECURITY ELEMENT COMPRISING THE DESIGNED LIGHT-REDIRECTING SURFACE  
OF THE CAUSTIC LAYER, A MARKED OBJECT, USE AND METHOD OF AUTHENTICATING THE OBJECT

~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: CALLEGARI, Andrea;DE FEO, Oscar;GILLIERON, Mathieu~ 33:EP ~31:18198938.5 ~32:05/10/2018

2021/02980 ~ Provisional ~54:ROTARY PISTON FILLER ARRANGEMENT ~71:FIKRAFT PTY LTD, Fikraft, Unit 3, The Pearl, Zandwyk Park, Old Paarl Road, South Africa ~72: Elias Lourens KAMFER;Jacobus Cornelius LOCK~

2021/02999 ~ Complete ~54:INHIBITORS OF CYCLIN-DEPENDENT KINASE 7 (CDK7) ~71:SYROS PHARMACEUTICALS, INC., 35 CambridgePark Drive, Cambridge, Massachusetts, 02140, United States of America ~72: ANZHELIKA KABRO;CLAUDIO CHUAQUI;JASON J MARINEAU;MICHAEL BRADLEY;STEPHANE CIBLAT~ 33:US ~31:62/754,398 ~32:01/11/2018;33:US ~31:62/877,189 ~32:22/07/2019;33:US ~31:62/915,983 ~32:16/10/2019;33:US ~31:62/927,469 ~32:29/10/2019

2021/02982 ~ Provisional ~54:RECYCLED PLASTIC REINFORCED INTERLOCKING BRICK ~71:Gerhardus Stephanus Harrington, 55 East Village Leander Street, South Africa ~72: Gerhardus Stephanus Harrington~ 33:ZA ~31:331003 ~32:03/05/2021

2021/02993 ~ Complete ~54:METHOD FOR CONTROLLING THE OPERATION OF A MACHINE FOR HARVESTING ROOT CROPS ~71:Grimme Landmaschinenfabrik GmbH & Co. KG, Hunteburger Stra&#223;e 32, DAMME 49401, GERMANY, Germany ~72: B&#214;SENBERG, Daniel;STROTHMANN, Wolfram~ 33:DE ~31:10 2018 127 846.2 ~32:07/11/2018

2021/03294 ~ Provisional ~54:PEDDLE SCOOTER ~71:GABRIEL JACOBUS GOUS, Trevesa Crt 5 Hertz Blvd CW2, South Africa ~72: GABRIEL JACOBUS GOUS~

2021/03003 ~ Provisional ~54:RADIO APP DOWNLOAD MUSIC AND VIDEO ~71:Noko Silas Momakoe, 4910B Zone 5 Immink Drive Gauteng, South Africa ~72: Noko Silas Momakoe~

2021/02987 ~ Complete ~54:AN ENCAPSULATED DYE COMPOSITION AND A METHOD FOR PREPARATION THEREOF ~71:COLORANTS INTERNATIONAL LTD, Rothausstrass 61, Muttentz, Switzerland ~72: CATANOIU, Gabriela;HECKMANN, Heino;LAMNE, Sanjay;OSWALD, Harald;SHIRKE, Jayavant, Ratan;SOHLING, Ulrich;WAGDARE, Nagesh, Appasaheb~ 33:EP ~31:18211210.2 ~32:10/12/2018

2021/02996 ~ Complete ~54:B-CELL ACTIVATING CD73 ANTIBODIES ~71:Corvus Pharmaceuticals, Inc., 863 Mitten Road, Suite 102, BURLINGAME 94010, CA, USA, United States of America ~72: BUGGY, Joseph;GRIFFIN, Emily Piccione;HOTSON, Andrew~ 33:US ~31:62/756,065 ~32:05/11/2018;33:US ~31:62/848,524 ~32:15/05/2019;33:US ~31:62/855,601 ~32:31/05/2019

2021/02984 ~ Complete ~54:JACUZZI COVER ASSEMBLY ~71:HALEY, Grant William, 9 Parker Street, Rynfield, South Africa ~72: HALEY, Grant William~

2021/02994 ~ Complete ~54:DEVICE CALIBRATION AND METHOD ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: LEADLEY, David~ 33:GB ~31:1818007.5 ~32:05/11/2018

2021/02991 ~ Complete ~54:SILICIC ACIDS FOR USE IN THE TREATMENT OF PERIODONTITIS ~71:Bio Minerals N.V., Zenderstraat 12, DESTELBERGEN 9070, BELGIUM, Belgium ~72: CALOMME, Mario Remi Yvonne;VAN HOOFF, Kathleen Jozef Ingrid Suzanne~ 33:EP ~31:18198972.4 ~32:05/10/2018

2021/03001 ~ Complete ~54:ADJUSTABLE MIRROR ASSEMBLY FOR A WORK MACHINE ~71:CATERPILLAR INC., 510 Lake Cook Road, Suite 100 Deerfield, United States of America ~72: SEITZ, Kris E.~ 33:US ~31:16/186,152 ~32:09/11/2018

2021/02983 ~ Provisional ~54:METHOD OF FUNCTIONALISING AN ELASTOMERIC MATERIAL AND THE USE THEREOF IN RUBBER FORMULATIONS ~71:RUBBER NANO PRODUCTS (PROPRIETARY) LIMITED, 34 Bird Street, Central, Port Elizabeth, 6001, South Africa ~72: ROBERT MICHAEL BOSCH~

2021/02988 ~ Complete ~54:SMOKING ARTICLE CARTRIDGE ~71:R. J. REYNOLDS TOBACCO COMPANY, 401 North Main Street, Winston-Salem, United States of America ~72: CONNER, Billy Tyrone;GAGE, Justin William~ 33:US ~31:16/174,846 ~32:30/10/2018

2021/02995 ~ Complete ~54:ORAL CARE COMPOSITION COMPRISING ZINC AND AN AMINO ACID FOR TREATING SYMPTOMS OF A GASTRIC DISORDER IN THE ORAL CAVITY ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: MANUS, Lisa;STRANICK, Michael;WU, Donghui~ 33:US ~31:62/782,838 ~32:20/12/2018

2021/02985 ~ Complete ~54:METHODS FOR IDENTIFYING FREE THIOLS IN PROTEINS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591-6707, United States of America ~72: DAVID BRAMHALL;HAIBO QIU;SOOK YEN E~ 33:US ~31:62/792,994 ~32:16/01/2019

2021/02997 ~ Complete ~54:DISULFIDE BOND STABILIZED POLYPEPTIDE COMPOSITIONS AND METHODS OF USE ~71:AMICUS THERAPEUTICS, INC., 1 Cedar Brook Drive, Cranbury, New Jersey, 08512, United States of America ~72: CE FENG LIU;HUNG DO~ 33:US ~31:62/744,069 ~32:10/10/2018

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2021/03011 ~ Provisional ~54:VERTICAL GARDEN ~71:EUGENE NIELEN SCHALKWYK, PLOT 241, HENNOPS STREET, South Africa ~72: EUGENE NIELEN SCHALKWYK~

2021/03023 ~ Complete ~54:APPARATUS AND METHOD FOR TESTING INSTALLATION OF A REINFORCING ANCHOR ~71:FABCHEM MINING (PTY) LIMITED, Industrial Park, 58 Watt Road, New Era, South Africa ~72: JOHANNES JACOBUS NAUDE~ 33:ZA ~31:2018/07452 ~32:07/11/2018

2021/03044 ~ Complete ~54:CD70 AND VENETOCLAX, A BCL-2 INHIBITOR, COMBINATION THERAPY FOR TREATING ACUTE MYELOID LEUKEMIA ~71:University of Bern, Verwaltungsdirektion, Hochschulstrasse 6, BERN 3012, SWITZERLAND, Switzerland;argenx BVBA, Industriepark Zwijnaarde 7, GENT 9052, BELGIUM, Belgium ~72: DE HAARD, Hans;FUNG, Samson;LEUPIN, Nicolas;OCHSENBEIN, Adrian;RIETHER, Carsten;VAN ROMPAEY, Luc~ 33:GB ~31:1820582.3 ~32:18/12/2018;33:GB ~31:1911007.1 ~32:01/08/2019;33:GB ~31:1917701.3 ~32:04/12/2019

2021/03008 ~ Provisional ~54:STOVE TOP ~71:Fisokuhle, Reeves road, Cele rural, South Africa ~72: Fisokuhle~

2021/03024 ~ Complete ~54:METHOD AND APPARATUS FOR SUPPORTING EVENT MONITORING ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: FERNANDEZ ALONSO, Susana;XU, Wenliang~ 33:EP ~31:18382714.6 ~32:09/10/2018

2021/03033 ~ Complete ~54:SCOPOLAMINE PRODUCTION ~71:THE UNIVERSITY OF JOHANNESBURG, CNR KINGSWAY AND UNIVERSITY ROADS, AUUCKLAND PARK, JOHANNESBURG, 2008, SOUTH AFRICA, South Africa ~72: JIYANE, Pangaman;NDINTEH, Derek, Tantoh~ 33:ZA ~31:2018/07451 ~32:07/11/2018

2021/03013 ~ Provisional ~54:SECURITY FENCE ~71:Simon John Joubert, 215 Walmer Blvd, South Africa ~72: Simon John Joubert~

2021/03028 ~ Complete ~54:A MOLDING COMPRISING A ZEOLITIC MATERIAL HAVING FRAMEWORK TYPE MFI ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany

~72: LUETZEL, Hans-Juergen;MUELLER, Ulrich;PARVULESCU, Andrei-Nicolae;RIEDEL, Dominic;TELES, Joaquim, Henrique;WEBER, Markus~ 33:EP ~31:18199428.6 ~32:09/10/2018

2021/03047 ~ Complete ~54:PHARMACEUTICAL FORMULATIONS FOR SUBCUTANEOUS ADMINISTRATION ~71:AbbVie Inc., 1 North Waukegan Road, NORTH CHICAGO 60064, IL, USA, United States of America ~72: FACHERIS, Maurizio F.;JAMEEL, Feroz;LOCKE, Charles S.;MOUSSA, Ehab;ROBIESON, Weining Z.;ROSEBRAUGH, Matthew;SEVER, Nancy;STODTMANN, Sven~ 33:US ~31:62/767,546 ~32:15/11/2018;33:US ~31:62/843,945 ~32:06/05/2019;33:US ~31:62/863,093 ~32:18/06/2019;33:US ~31:62/863,101 ~32:18/06/2019;33:US ~31:62/863,113 ~32:18/06/2019;33:US ~31:62/898,214 ~32:10/09/2019

2021/03042 ~ Complete ~54:METHODS FOR INHIBITING CONVERSION OF CHOLINE TO TRIMETHYLAMINE (TMA) ~71:The Cleveland Clinic Foundation, 9500 Euclid Avenue, CLEVELAND 44195, OH, USA, United States of America;The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: GARCIA-GARCIA, Jose Carlos;HAZEN, Stanley Leon;REED, Jodie Michelle;REINSALU, Lori Ann~ 33:US ~31:62/756,259 ~32:06/11/2018;33:US ~31:62/828,688 ~32:03/04/2019

2021/03020 ~ Complete ~54:SPECTRAL REGION IDENTIFICATION FOR REFERENCE SYMBOL TRANSMISSION ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: BUSIN, &#197;ke;MODARRES RAZAVI, Sara;SHREEVASTAV, Ritesh;SHRESTHA, Deep;SIOMINA, Iana~

2021/03018 ~ Complete ~54:AN ORGANIC MATERIAL TRANSPORT SYSTEM AND KIT ~71:CAMMINGA, Eelco, 14 Marine Drive, Longbeach, Umhlanga, 4319, SOUTH AFRICA, South Africa;CAMMINGA, Mornay Glynn, 14 Marine Drive, Longbeach, Umhlanga, 4319, SOUTH AFRICA, South Africa ~72: CAMMINGA, Mornay Glynn~ 33:ZA ~31:2020/02431 ~32:05/05/2020

2021/03041 ~ Complete ~54:VIEW SYNTHESIS ~71:Orange, 78 rue Olivier de Serres, PARIS 75015, FRANCE, France ~72: BOISSONADE, Patrick;JUNG, Jo&#235;l~ 33:FR ~31:1860351 ~32:09/11/2018

2021/03012 ~ Provisional ~54:MECHANICAL SHAFT TO SHAFT TORQUE TRANSFER COUPLING USING COMPLIANT DEVICES ~71:Jacques Henri Smit, 9 Marble Crescent Kloofendal, South Africa ~72: Jacques Henri Smit~ 33:ZA ~31:TLTS100.01 ~32:03/05/2021

2021/03029 ~ Complete ~54:METHOD FOR NI-FREE PHOSPHATIZING OF METAL SURFACES AND COMPOSITION FOR USE IN SUCH A METHOD ~71:CHEMETALL GMBH, TRAKEHNER STRASSE 3, 60487 FRANKFURT, GERMANY, Germany;RHODIA OPERATIONS, 25, RUE DE CLICHY, 75009 PARIS, FRANCE, France ~72: DAHLENBURG, Olaf;GODY, Guillaume;KHELFALLAH, Nawel, Souad;LABEAU, Marie-Pierre;SEIDER, Lisa~ 33:EP ~31:18199098.7 ~32:08/10/2018

2021/03017 ~ Complete ~54:PUMPING ASSEMBLY AND PUMP INCLUDING SUCH ASSEMBLY ~71:ROBERT CHARLES GRADIDGE, 12 Kleim Street, Carletonville, 2499, South Africa ~72: ROBERT CHARLES GRADIDGE~ 33:ZA ~31:2020/02426 ~32:05/05/2020

2021/03021 ~ Complete ~54:SAFE AND ENVIRONMENTALLY FRIENDLY ROCK BLASTING DEVICE AND METHOD ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, BEIJING, Ding No.11 Xueyuan Road, People's Republic of China ~72: LI, Changxing;LI, Xiangchun;MENG, Junqing;NIE, Baisheng;WANG, Kedi~ 33:CN ~31:202010206379.7 ~32:23/03/2020

2021/03037 ~ Complete ~54:TUBE-IN-TUBE PULL-OUT FAUCET ~71:FLOWTECH KITCHEN & BATHROOM TECHNOLOGY CO., LTD, QIAN Hongyan, CLP Industrial Park of Rongshuzai of Xinxu Village, Sanxiang Town, People's Republic of China ~72: HUANG, Weixin~ 33:CN ~31:201811208975.8 ~32:17/10/2018

- 2021/03032 ~ Complete ~54:RECYCLABLE PE PACKAGING FILM WITH IMPROVED STIFFNESS  
~71:CONSTANTIA PIRK GMBH & CO. KG, PIRKM&#220;HLE 14-16, 92712 PIRK, GERMANY, Germany  
~72: GREFENSTEIN, Achim;JHA, Saket;SHAH, Pragadesh~ 33:IN ~31:201811038930 ~32:13/10/2018
- 2021/03040 ~ Complete ~54:METHOD FOR OPERATING A RECEIVER AND RECEIVER FOR CARRYING OUT  
THE METHOD ~71:ENI S.p.A., Piazzale Enrico Mattei 1, ROMA 00144, ITALY, Italy;Synhelion SA, Via Cantonale  
19, LUGANO 6900, SWITZERLAND, Switzerland ~72: AMBROSETTI, Gianluca;GOOD, Philipp~ 33:CH  
~31:1377/18 ~32:08/11/2018
- 2021/03031 ~ Complete ~54:A METHOD FOR SUPPORTING A SERVICE OF SUBSCRIPTION AND  
REPORTING OF MONITORING OF EVENTS IN A TELECOMMUNICATION NETWORK AS WELL AS  
RELATED NETWORK FUNCTIONS. ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83  
STOCKHOLM, SWEDEN, Sweden ~72: FERNANDEZ ALONSO, Susana;GARCIA AZORERO, Fuencisla;RIVAS  
MOLINA, Ignacio~ 33:EP ~31:18382711.2 ~32:08/10/2018
- 2021/03039 ~ Complete ~54:SHOCK TUBE EVENT VALIDATION ~71:DETNET SOUTH AFRICA (PTY) LTD,  
AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: KOEKEMOER, Andre  
Louis;KRUGER, Michiel Jacobus;LABUSCHAGNE, Albertus Abraham;MAURISSENS, Daniel Auguste~ 33:ZA  
~31:2019/00564 ~32:28/01/2019
- 2021/03007 ~ Provisional ~54:A METHOD OF VERIFYING THE STRUCTURAL CONDITION OF COMPUTING  
DEVICE ~71:Tyrone Waterston, Unit 2, 266 Bryanston Drive, Sandton, South Africa ~72: Tyrone Waterston~
- 2021/03025 ~ Complete ~54:METHOD OF PROCESSING SULFUR-BEARING WASTES FROM REFINERIES  
AND UPGRADERS ~71:POROCEL INTERNATIONAL, LLC, 12777 JONES RD, SUITE 280, HOUSTON, TEXAS  
77070, UNITED STATES OF AMERICA, United States of America ~72: MCHUGH, Terence;SEAMANS,  
James;VISIOLI, Brian~ 33:US ~31:62/742,524 ~32:08/10/2018
- 2021/03045 ~ Complete ~54:ANTIMICROBIAL DEVICE COMPRISING A CAP WITH RING AND INSERT  
~71:ICU Medical, Inc., 951 Calle Amanecer, SAN CLEMENTE 92673, CA, USA, United States of America ~72:  
ZIEBOL, Robert J.~ 33:US ~31:62/770,552 ~32:21/11/2018
- 2021/03035 ~ Complete ~54:METHODS OF TREATING GRAVES' OPHTHALMOPATHY USING ANTI-FCRN  
ANTIBODIES ~71:IMMUNOVANT SCIENCES GMBH, Viaduktstrasse 8, Switzerland ~72: COQUERY,  
Christine;FONG, Regan;POLASEK, Melissa~ 33:US ~31:62/756,472 ~32:06/11/2018
- 2021/03043 ~ Complete ~54:METHODS FOR INHIBITING CONVERSION OF CHOLINE TO TRIMETHYLAMINE  
(TMA) ~71:The Cleveland Clinic Foundation, 9500 Euclid Avenue, CLEVELAND 44195, OH, USA, United States  
of America;The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH,  
USA, United States of America ~72: BAKER, Timothy R.;GARCIA-GARCIA, Jose Carlos;HAZEN, Stanley  
Leon;REED, Jodie Michelle;REINSALU, Lori Ann;SICA, Vincent Peter~ 33:US ~31:62/756,259  
~32:06/11/2018;33:US ~31:62/828,688 ~32:03/04/2019;33:US ~31:62/850,670 ~32:21/05/2019
- 2021/03010 ~ Provisional ~54:COMMUNICATION SYSTEM AND METHOD ~71:PETRO DOMINIC MASEKO, 09  
Cohen Crescent, Nelsville, South Africa ~72: PETRO DOMINIC MASEKO~
- 2021/03019 ~ Complete ~54:METHOD FOR PRODUCING AEROGELS AND AEROGELS OBTAINED USING  
SAID METHOD ~71:FRAUNHOFER GESELLSCHAFT ZUR F&#214;RDERUNG DER ANGEWANDTEN  
FORSCHUNG E.V., Hansastr. 27 C, Germany ~72: HINTEMANN, Damian;KILZER, Andreas;M&#214;LDERS,  
Nils;RENNER, Manfred;SENGESPEICK, Andreas;WEIDNER, Eckhard;WEISHAUPT, Oliver~ 33:DE ~31:10  
2018 128 410.1 ~32:13/11/2018

2021/03027 ~ Complete ~54:LEACHING AIDS AND METHODS OF USING LEACHING AIDS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: BENDER, Jack~ 33:US ~31:62/744,775 ~32:12/10/2018

2021/03009 ~ Provisional ~54:APPARATUS FOR FOLDING PACKAGING MATERIAL ~71:DE BEER, Stephanus Petrus, Hamawasha 26, Tzaneen, South Africa ~72: DE BEER, Stephanus Petrus~

2021/03016 ~ Complete ~54:RECEPTOR SUBTYPE AND FUNCTION SELECTIVE RETINOID AND REXINOID COMPOUNDS IN COMBINATION WITH IMMUNE MODULATORS FOR CANCER IMMUNOTHERAPY ~71:IO THERAPEUTICS, INC., 5927 ALMEDA ROAD, APT. #22105, HOUSTON, TX, UNITED STATES OF AMERICA, United States of America ~72: CHANDRARATNA, Roshantha, A.;SANDERS, Martin, E.~ 33:US ~31:62/532,233 ~32:13/07/2017;33:US ~31:62/552,814 ~32:31/08/2017

2021/03026 ~ Complete ~54:COOLING APPARATUS AND A METHOD FOR COOLING A WATERFLOW ~71:JS CREATES PTE LTD, 10 ADMIRALTY STREET, #03-06, NORTH LINK BUILDING, SINGAPORE 757695, SINGAPORE, Singapore ~72: AGRAWAL, Avichal~ 33:SG ~31:10201809128Q ~32:17/10/2018

2021/03034 ~ Complete ~54:SYSTEM AND METHOD FOR EVENT ADMISSION ~71:BENO&#206;T FREDETTE, 2 avenue des Citronniers, Apt. 1906, Monaco, 98000, Canada ~72: BENO&#206;T FREDETTE~ 33:US ~31:62/741,713 ~32:05/10/2018

2021/03046 ~ Complete ~54:1,3,4-OXADIAZOLONE COMPOUND AND MEDICINE ~71:Nippon Shinyaku Co., Ltd., 14, Kisshoin Nishinosho Monguchicho, Minami-ku, KYOTO-SHI 601-8550, KYOTO, JAPAN, Japan ~72: HARUTA, Yoshinari;KAMITANI, Hirotake;KIKUCHI, Takeo;ZAIMOKU, Hisaaki~ 33:JP ~31:2018-214950 ~32:15/11/2018

2021/03048 ~ Complete ~54:NOVEL AGRICULTURAL COMPOSITION ~71:PUTHENVEETIL KUNJUKRISHNA MENON, Ramdas, Flat No. 403, Elegant Bldg, Plot No. 18-D, Sector 14, Sanpada, Navi Mumbai, Maharashtra, 400705, India;SAWANT, Arun Vitthal, B/1, Samip Apartment, Kolivali Village Gandhari, Kalyan West, Thane , Maharashtra, 421306, India ~72: PUTHENVEETIL KUNJUKRISHNA MENON, Ramdas;SAWANT, Arun Vitthal~ 33:IB ~31:PCT/IB2018/055225 ~32:14/07/2018;33:IN ~31:201921002743 ~32:23/01/2019

2021/03014 ~ Complete ~54:AEROSOL DELIVERY DEVICE WITH CONDENSING AND NON-CONDENSING VAPORIZATION ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: DAVIS, Michael F.;GARCIA, Ercilia Hernandez;PHILIPS, Percy;ROGERS, James~ 33:US ~31:15/205,775 ~32:08/07/2016

2021/03022 ~ Complete ~54:A METHOD OF MANUFACTURING MARTENSITIC STEEL AND A MARTENSITIC STEEL THEREOF ~71:ARCELORMITTAL, 24-26, Boulevard d&#39;Avranches, Luxembourg ~72: Hassan GHASSEMI-ARMAKI;Timothy GUSTAFSON;Vikas Kanubhai PATEL~

2021/03036 ~ Complete ~54:POWER GENERATION SYSTEM AND METHOD OF OPERATING THE SAME ~71:GENERAL ELECTRIC COMPANY, 1 River Road, United States of America ~72: RAJU, Ravisekhar Nadimpalli~

2021/03015 ~ Complete ~54:A COMPUTER IMPLEMENTED SYSTEM FOR PROVIDING AN AUTOMATED COMPARATIVE INSURANCE QUOTE TO A USER ~71:DISCOVERY LIMITED, One Discovery Place, corner of Rivonia and Katherine Street, Sandton, 2196, South Africa ~72: GARETH FRIEDLANDER;HYLTON KALLNER;ROMUALD STANISLAW SADOWSKI;STEVEN JOHN FALCONER~ 33:ZA ~31:2020/02710 ~32:14/05/2020

2021/03030 ~ Complete ~54:METHOD FOR NI-FREE PHOSPHATIZING OF METAL SURFACES AND COMPOSITION FOR USE IN SUCH A METHOD ~71:CHEMETALL GMBH, TRAKEHNER STRASSE 3, 60487 FRANKFURT, GERMANY, Germany;RHODIA OPERATIONS, 25, RUE DE CLICHY, 75009 PARIS, FRANCE, France ~72: DAHLENBURG, Olaf;GODY, Guillaume;KHELFULLAH, Nawel, Souad;LABEAU, Marie-Pierre;SEIDER, Lisa~ 33:EP ~31:18199095.3 ~32:08/10/2018

2021/03038 ~ Complete ~54:METHOD OF ASSEMBLING A DETONATOR ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: BIRKIN, Christopher Malcolm;KOEKEMOER, Andre Louis;KRUGER, Michiel Jacobus;MICHNA, Richard Joseph~ 33:ZA ~31:2019/00555 ~32:28/01/2019

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2021/03053 ~ Complete ~54:RIBBED COAL SLEEVE ~71:KENNAMETAL EUROPE GMBH, 15 RESERVOIR ROAD, European Union;PTD METALWORKING PROFESSIONALS, 116 PAUL SMIT ROAD, South Africa ~72: FILIPE DOS SANTOS;Johann Izak Hattingh~

2021/03054 ~ Complete ~54:SYSTEM, METHOD AND APPARATUS FOR PROVIDING CONSTANT PRESSURE WITHIN AN IRRIGATION SYSTEM AT REDUCED FLOW RATES ~71:VALMONT INDUSTRIES, INC., One Valmont Plaza, United States of America ~72: GERDES, Jerry;KASTL, John~ 33:US ~31:62/771,777 ~32:27/11/2018

2021/03072 ~ Complete ~54:METHODS FOR MAKING HIGH INTENSITY SWEETENERS ~71:Firmenich Incorporated, 250 Plainsboro Road, PLAINSBORO 08536, NJ, USA, United States of America ~72: COLQUITT, Justin;FABER, Nathan;MANAM, Rama Rao;NORIEGA, Chris Edano;OLSON, Daniel K.;PATRON, Andrew P.;STEGE, Justin;ZIELER, Helge~ 33:US ~31:62/757,141 ~32:07/11/2018

2021/03068 ~ Complete ~54:METHODS AND COMPOSITIONS FOR CANCER IMMUNOTHERAPY ~71:Torque Therapeutics, Inc., One Kendall Square, Building 1400 W, 5th Floor, CAMBRIDGE 02139, MA, USA, United States of America ~72: AHMAD, Gulzar;ANDRESEN, Thomas Lars;GERETTI, Elena;JONES, Douglas~ 33:US ~31:62/767,515 ~32:15/11/2018;33:US ~31:62/825,496 ~32:28/03/2019;33:US ~31:62/930,399 ~32:04/11/2019

2021/03060 ~ Complete ~54:ARYLSULFONYLPYROLECARBOXAMIDE DERIVATIVES AS KV3 POTASSIUM CHANNEL ACTIVATORS ~71:H. LUNDBECK A/S, Ottiliavej 9, 2500, Valby, Denmark ~72: ANETTE GRAVEN SAMS;LARS KYHN RASMUSSEN;PAUL ROBERT FLEMING;WANWAN YU~ 33:DK ~31:PA 2018 00787 ~32:30/10/2018

2021/03049 ~ Provisional ~54:A SYSYTEM FOR AIDING EDUCATION ~71:GAMMA EDUCATION TECHNOLOGIES (PTY) LTD, 1 BOSCH STREET, RUSTENBURG, 0299, REPUBLIC OF SOUTH AFRICA, South Africa ~72: MOOSA, Muhammad, Yaseen;SURTY, Muhammed~

2021/03051 ~ Provisional ~54:SELF-CHARGING DRONE WITH CELLULAR TRANSCEIVER PROCESSOR USER INSTRUCTION DATA. ~71:Ahmed Waseef Saib, 24 Park avenue, Desainager Tongaat Beach,, South Africa ~72: Ahmed Waseef Saib~

2021/03069 ~ Complete ~54:PARAHYDROGEN AND ATOMIC HYDROGEN FUEL ~71:eCombustible Products Holdings, LLC, 16901 Collins Ave., Apt. 4505, SUNNY ISLES BEACH 33160, FL, USA, United States of America ~72: AREVALO, Jorge;KIYAN, Carlos~ 33:US ~31:62/966,189 ~32:27/01/2020

2021/03058 ~ Complete ~54:PLANT VECTORS, COMPOSITIONS AND USES RELATING THERETO ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, 5th Floor, United States of America;UNIVERSITY OF MARYLAND, COLLEGE PARK, Office of Technology Commercialization 2130 Mitchell Bldg., United States of America ~72: Anne, Elizabeth SIMON;Georgios VIDALAKIS;Jinguan LIU;Sohrab BODAGHI~

2021/03064 ~ Complete ~54:INTER PREDICTION METHOD AND APPARATUS ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Xu;ZHENG, Jianhua~ 33:US ~31:62/744,106 ~32:10/10/2018

2021/03071 ~ Complete ~54:METHODS FOR MAKING HIGH INTENSITY SWEETENERS ~71:Firmenich Incorporated, 250 Plainsboro Road, PLAINSBORO 08536, NJ, USA, United States of America ~72: COLQUITT, Justin;FABER, Nathan;MANAM, Rama Rao;NORIEGA, Chris Edano;PATRON, Andrew P.;STEGE, Justin;ZIELER, Helge~ 33:US ~31:62/757,156 ~32:07/11/2018

2021/03061 ~ Complete ~54:ANTI-CLDN18.2 ANTIBODY AND USES THEREOF ~71:SHANGHAI GENBASE BIOTECHNOLOGY CO., LTD., 101-7 Room No. 332, Aidisheng Road China (shanghai) Pilot, Free Trade Zone, Shanghai, 201203, People's Republic of China ~72: HONGYAN ZHANG;JIJUN YUAN;LIANG DU;WEN LING~

2021/03057 ~ Complete ~54:RAILWAY VEHICLE COUPLER ~71:AMSTED RAIL COMPANY, INC., 311 South Wacker, Suite 5300, United States of America ~72: DUMEY, Timothy;TODT, Matthew~ 33:US ~31:62/783,423 ~32:21/12/2018

2021/03050 ~ Provisional ~54:PET WASTE STATION ~71:The Big Scoop SA (Pty) Ltd, 1 Fraser Street, South Africa ~72: Emmarentia Stander~

2021/03052 ~ Complete ~54:ADAPTER ASSEMBLY ~71:Roelf Petrus (Dolla) Holl, 6 Van Vuuren Street, South Africa ~72: Roelf Petrus (Dolla) Holl~

2021/03075 ~ Complete ~54:NON PLANAR CUTTING ELEMENT WITH NON PLANAR INTERFACE DESIGN AND TOOLS INCORPORATING SUCH ELEMENTS ~71:SCHLUMBERGER TECHNOLOGY B.V., Parkstraat 83, Netherlands ~72: EYRE, Ronald K.;PENG, Cheng;YU, Feng~ 33:US ~31:62/758,771 ~32:13/11/2018

2021/03059 ~ Complete ~54:HARD HAT ASSEMBLY ~71:GUARDHAT, INC., 1520 Woodward Ave., Third Floor , Detroit, Michigan, 48226, United States of America ~72: MIKHAIL ZHAVORONKOV;STEVEN FRIEDMAN~ 33:US ~31:16/155,652 ~32:09/10/2018

2021/03070 ~ Complete ~54:CHANNEL ACCESS MECHANISM FOR RANDOM ACCESS CHANNEL IN UNLICENSED SPECTRUM ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: SALEM, Mohamed Adel;ZHANG, Jiayin;ZHANG, Liqing~ 33:US ~31:62/751,460 ~32:26/10/2018

2021/03067 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING ALPHA-1 ANTITRYPSIN DEFICIENCY ~71:Intellia Therapeutics, Inc., 40 Erie Street, Suite 130, CAMBRIDGE 02139, MA, USA, United States of America ~72: FINN, Jonathan Douglas;FORGET, Anthony;HUANG, Hon-Ren;XIE, Xin~ 33:US ~31:62/747,522 ~32:18/10/2018

2021/03066 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TRANSGENE EXPRESSION FROM AN ALBUMIN LOCUS ~71:Intellia Therapeutics, Inc., 40 Erie Street, Suite 130, CAMBRIDGE 02139, MA, USA, United States of America;Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Rd., TARRYTOWN 10591, NY, USA, United States of America ~72: FINN, Jonathan Douglas;HUANG, Hon-Ren;KYRATSOUS, Christos;LAI,



KehDih;ROY, Moitri;SATTLE, Rachel;WANG, Cheng~ 33:US ~31:62/747,402 ~32:18/10/2018;33:US  
~31:62/840,346 ~32:29/04/2019

2021/03076 ~ Complete ~54:USE OF SULFONIC ACIDS IN DRY ELECTROLYTES TO POLISH METAL  
SURFACES THROUGH ION TRANSPORT ~71:DRYLYTE, S.L., C/Caracas No. 13-15, Nave 6, 08030,  
Barcelona, Spain ~72: SANSANEDAS GIMPERA, Marc;SANSANEDAS MILLET, Pau;SOTO HERNANDEZ,  
Marc~ 33:ES ~31:P201831092 ~32:12/11/2018;33:ES ~31:P201930148 ~32:21/02/2019

2021/03056 ~ Complete ~54:ANELLOSOMES FOR DELIVERING PROTEIN REPLACEMENT THERAPEUTIC  
MODALITIES ~71:FLAGSHIP PIONEERING INNOVATIONS V, INC., 55 Cambridge Parkway, 8th Floor, Suite  
800E, United States of America ~72: DELAGRAVE, Simon;DIAZ, Fernando, Martin;KAHVEJIAN, Avak;LEBO,  
Kevin, James;NAWANDAR, Dhananjay, Maniklal;PITTS, Jared David;TEDSTONE, Ryan, D.;WEINSTEIN, Erica  
Gabrielle;YOZWIAK, Nathan, Lawrence~ 33:US ~31:62/778,861 ~32:12/12/2018;33:US ~31:62/778,866  
~32:12/12/2018

2021/03073 ~ Complete ~54:COMPOSITIONS, METHODS AND SYSTEMS FOR PROTEIN CORONA  
ANALYSIS AND USES THEREOF ~71:Seer, Inc., 170 Harbor Way, SOUTH SAN FRANCISCO 94080, CA, USA,  
United States of America ~72: BLUME, John;FAROKHZAD, Omid;FIGA, Michael;HESTERBERG, Lyndal;KO,  
Marwin;MANNING, William;MCLEAN, Matthew;PLATT, Theodore;STOLARCZYK, Craig;TROIANO, Gregory;XIA,  
Hongwei;ZHAO, Xiaoyan~ 33:US ~31:62/756,960 ~32:07/11/2018;33:US ~31:62/824,278  
~32:26/03/2019;33:US ~31:62/874,862 ~32:16/07/2019

2021/03063 ~ Complete ~54:METHODS AND CULTURES TO MANUFACTURE PIZZA CHEESE ~71:DUPONT  
NUTRITION BIOSCIENCES APS, Langebrogade 1, 1411, Copenhagen K, Denmark ~72: ANNIE  
MORNET;FABIEN BURET;MIKAEL PIANFETTI~ 33:EP ~31:18203296.1 ~32:30/10/2018

2021/03055 ~ Complete ~54:RAPID PCR METHODOLOGY ~71:LONGHORN VACCINES &  
DIAGNOSTICS, LLC, 2 Bethesda Metro Center, Suite 910, United States of America ~72: DAUM, Luke  
T.;FISCHER, Gerald W.~ 33:US ~31:62/758,173 ~32:09/11/2018;33:US ~31:62/773,566  
~32:30/11/2018;33:US ~31:62/882,831 ~32:05/08/2019

2021/03065 ~ Complete ~54:ENCAPSULATED POLYNUCLEOTIDES AND METHODS OF USE ~71:Oncorus,  
Inc., 50 Hampshire Street, Suite 401, CAMBRIDGE 02139, MA, USA, United States of America ~72: FINER,  
Mitchell H.;KENNEDY, Edward;LERNER, Lorena~ 33:US ~31:62/760,422 ~32:13/11/2018

2021/03062 ~ Complete ~54:5-MEMBERED HETEROARYL CARBOXAMIDE COMPOUNDS FOR TREATMENT  
OF HBV ~71:ASSEMBLY BIOSCIENCES, INC., 11711 N. Meridian Street, Suite 310, Carmel, Indiana, 46032,  
United States of America ~72: LEPING LI;LYNNE BANNEN;MARK G BURES;MICHAEL WALKER;ROOPA  
RAI;SIMON NICOLAS HAYDAR~ 33:US ~31:62/748,906 ~32:22/10/2018;33:US ~31:62/858,790  
~32:07/06/2019

2021/03074 ~ Complete ~54:FORMULATION BASED ON MEDICINAL PLANT, OR PART OR EXTRACT  
THEREOF, USE OF THE FORMULATION AND PRODUCT INCLUDING SAID FORMULATION  
~71:PHYTOPLUS BIOATIVOS S.A., Rua Wanda dos Santos Mullmann 1501, Brazil ~72: AFORNALI,  
Alessandro~ 33:BR ~31:BR102018072258-1 ~32:29/10/2018

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2021/03080 ~ Complete ~54:SERPINA1 IRNA COMPOSITIONS AND METHODS OF USE THEREOF  
~71:ALNYLAM PHARMACEUTICALS, INC., 300 Third Street 3rd Floor, Cambridge, Massachusetts, 02142,  
United States of America ~72: ALEXANDER V KELVIN;ALFICA SEHGAL;CHRISTOPHER

BROWN;DONALD FOSTER;JAYAPRAKASH K NAIR;KALLANTHOTTATHIL G RAJEEV;KEVIN FITZGERRALD;KLAUS CHARISSE;MAJA JANAS;MARK K SCHLEGEL;MARTIN A MAIER;MUTHIAH MANOHARAN;MUTHUSAMY JAYARAMAN;SHIGEO MATSUDA;STUART MILSTEIN;VASANT R JADHAV~ 33:US ~31:62/425,907 ~32:23/11/2016;33:US ~31:62/548,589 ~32:22/08/2017;33:US ~31:62/549,099 ~32:23/08/2017;33:US ~31:62/561,514 ~32:21/09/2017

2021/03101 ~ Complete ~54:METHODS FOR FORMING POLYPLEXES ~71:Amryt Genetics Ltd., 45 Mespil Road, DUBLIN, 4, IRELAND, Ireland ~72: O&#39;BROIN, Conall~ 33:US ~31:62/786,050 ~32:28/12/2018

2021/03078 ~ Provisional ~54:PHARMACEUTICAL COMPOSITION ~71:GORAM RESEARCH AND INVESTMENTS PROPRIETARY LIMITED, 8A Avenue Disandt, Fresnaye, Sea Point, Cape Town, 8005, SOUTH AFRICA, South Africa ~72: GORDON, Brent Michael~

2021/03098 ~ Complete ~54:COMBINATION THERAPY INCLUDING A KRAS<sup>12?</sup> INHIBITOR AND ONE OR MORE ADDITIONAL PHARMACEUTICALLY ACTIVE AGENTS FOR THE TREATMENT OF CANCERS ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: CANON, Jude Robert;LIPFORD, James Russell;REX, Karen Louise;SAIKI, Anne Y.~ 33:US ~31:62/769,355 ~32:19/11/2018;33:US ~31:62/821,376 ~32:20/03/2019;33:US ~31:62/865,819 ~32:24/06/2019

2021/03112 ~ Complete ~54:CAVITATION REACTOR ~71:THREE ES S.R.L., Via Libert&#224; 105, 20824 , Lazzate, MB, Italy ~72: MARCO SOLDO~ 33:IT ~31:102018000009329 ~32:10/10/2018

2021/03089 ~ Complete ~54:METHODS AND FORMULATIONS FOR TREATING CHEMOTHERAPY-INDUCED NAUSEA AND VOMITING ~71:TILRAY, INC., 2701 EASTLAKE AVE. EAST, SEATTLE, WA 98102, USA, United States of America ~72: JACOBSON, Catherine~ 33:US ~31:62/743,839 ~32:10/10/2018

2021/03083 ~ Complete ~54:NOVEL CARBON NANO-STRUCTURES FOR ENERGY GENERATION APPLICATIONS ~71:SEEDS CAPITAL LIMITED, NETPark Incubator, Thomas Wright Way, United Kingdom ~72: CHEHAL, Jason~ 33:GB ~31:1816575.3 ~32:11/10/2018

2021/03110 ~ Complete ~54:META-DIAMIDE COMPOUNDS FOR CONTROLLING INVERTEBRATE PESTS ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: ANDREW JON DEANGELIS;JR. THOMAS FRANCIS PAHUTSKI;RACHEL SLACK~ 33:US ~31:62/771,414 ~32:26/11/2018

2021/03099 ~ Complete ~54:2,3-DIHYDRO-1H-PYRROLO[3,4-C]PYRIDIN-1-ONE DERIVATIVES AS HPK1 INHIBITORS FOR THE TREATMENT OF CANCER ~71:Pfizer Inc., 235 East 42nd Street, NEW YORK 10017, NY, USA, United States of America ~72: AHMAD, Omar Khaled;DEL BEL, Matthew L.;GALLEGO, Rebecca Anne;HE, Mingying;JALAIE, Mehran;JOHNSON, Ted William;KANIA, Robert Steven;MCTIGUE, Michele Ann;NAIR, Sajiv Krishnan;SCHMITT, Anne-Marie Dechert;TUTTLE, Jamison Bryce;ZHOU, Dahui;ZHOU, Ru~ 33:US ~31:62/767,602 ~32:15/11/2018;33:US ~31:62/909,970 ~32:03/10/2019

2021/03113 ~ Complete ~54:PROCESS AND SYSTEM FOR CONVERTING WASTE PLASTIC INTO POWER ~71:UNIVERSITY OF SOUTH AFRICA, Preller Street Muckleneuk, Pretoria, 0002, South Africa ~72: JAMES ALISTAIR FOX~

2021/03104 ~ Complete ~54:INTEGRATED LEAKY FEEDER AND MESH NETWORK SYSTEM ~71:REDPATH CANADA LIMITED, 710 McKeown Avenue, Canada ~72: BERG, Jeremy Gerald Fernand~ 33:US ~31:62/754,975 ~32:02/11/2018

2021/03108 ~ Complete ~54:TREATMENT AND DIAGNOSIS OF AUTOANTIBODY-MEDIATED EYE DISEASES ~71:THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, 352 Henry Administration Building, 506 South Wright Street, Urbana, Illinois, 61801, United States of America ~72: SANDEEP JAIN~ 33:US ~31:62/757,641 ~32:08/11/2018;33:US ~31:62/855,253 ~32:31/05/2019

2021/03082 ~ Complete ~54:SYSTEMS AND METHODOLOGY FOR CONSTRUCTION MANAGEMENT AND EQUIPMENT POSITIONING VIA BUILDING INFORMATION MODELING ~71:ANCHOR RING SOLUTIONS, LLC, 110 N. Franklin Street, United States of America ~72: FUGALLO III, Joseph A.;FUGALLO IV, Joseph;MARRA, John P.;WALSH, James R.~ 33:US ~31:16/186,247 ~32:09/11/2018;33:US ~31:62/794,905 ~32:21/01/2019;33:US ~31:62/841,217 ~32:30/04/2019

2021/03094 ~ Complete ~54:IMPROVEMENTS ON HISTORY-BASED MOTION VECTOR PREDICTOR ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: CHIEN, Wei-Jung;HAN, Yu;HUANG, Han;HUNG, Chao-Hsiung;KARCZEWICZ, Marta~ 33:US ~31:62/742,890 ~32:08/10/2018;33:US ~31:16/593,388 ~32:04/10/2019

2021/03105 ~ Complete ~54:ALDEHYDE-MODIFIED HYALURONIC ACID, METHOD FOR PREPARING SAME AND APPLICATIONS THEREOF ~71:MERZ PHARMA GMBH & CO. KGAA, Eckenheimer Landstrasse 100, Frankfurt am Main, 60318, Germany ~72: DRABE, Colin;M&#220;LLER, Sibylle;NEUBAUER, Jens;PLITT, Patrick;REITHER, Charlotte;VUKICEVIC, Radovan~ 33:EP ~31:18214028.5 ~32:19/12/2018;33:EP ~31:19191042.1 ~32:09/08/2019

2021/03086 ~ Complete ~54:THERMAL LENSING ELECTRODE IN THERMOELECTRIC GENERATORS FOR IMPROVED PERFORMANCE ~71:BERKEN ENERGY, LLC, 117 E. 37th Street, Suite 500 Loveland, Colorado, United States of America ~72: BASA, Ion M.;NEWMAN, John B.;PETKIE, Ronald~ 33:US ~31:62/768,679 ~32:16/11/2018

2021/03092 ~ Complete ~54:METHOD FOR PREPARING CARBON-BASED SULFUR-LOADED IRON-CONTAINING SORBENT FOR MERCURY REMOVAL ~71:TAIYUAN UNIVERSITY OF TECHNOLOGY, No. 79, Yingze West Street, People's Republic of China ~72: BOA, Weiren;CHANG, Liping;CHEN, Huijun;HAN, Lina;HUO, Qihuang;WANG, Jiancheng~ 33:CN ~31:201811501935.2 ~32:10/12/2018

2021/03103 ~ Complete ~54:A ROLLABLE ANTENNA MAT ~71:Mylaps B.V., Zuiderhoutlaan 4, HAARLEM 2012 PJ, THE NETHERLANDS, Netherlands ~72: VERWOERD, Adriaan Klaas~ 33:NL ~31:2021987 ~32:13/11/2018

2021/03109 ~ Complete ~54:USE OF TIVOZANIB TO TREAT SUBJECTS WITH REFRACTORY CANCER ~71:AVEO PHARMACEUTICALS, INC., One Broadway, 14th Floor, Cambridge, Massachusetts, 02142, United States of America ~72: MICHAEL N NEEDLE;MICHAEL P BAILEY~ 33:US ~31:62/756,033 ~32:05/11/2018

2021/03081 ~ Complete ~54:METHOD FOR INCREASING ACETATE VOLATILE COMPONENTS IN LULI APPLE FRUITS ~71:SHANDONG INSTITUTE OF POMOLOGY, No. 64, Longtan Road, People's Republic of China ~72: CHANG, YUANSHEG;HE, PING;HE, XIAOWEN;LI, LINGUANG;SUN, JIAZHENG;WANG, CHUANZENG;WANG, HAIBO;WANG, SEN~

2021/03114 ~ Provisional ~54:THE MATRIX ELECTRICAL POWER STATION N.02 ~71:Keabetswe Gideon Sehlako, 311 Block LL, Soshanguve, South Africa ~72: Keabetswe Gideon Sehlako~

2021/03106 ~ Complete ~54:HETEROCYCLIC COMPOUNDS FOR THE TREATMENT OF EPILEPSY ~71:OTSUKA PHARMACEUTICAL CO., LTD., 2-9, Kanda Tsukasa-machi, Chiyoda-ku, Tokyo, 1018535, Japan ~72: KENTA ARAI;MASAKI SUZUKI;NOBUAKI ITO;SHIN IWATA;TAKUYA CHIBA;TOMOICHI SHINOHARA~ 33:JP ~31:2018-224724 ~32:30/11/2018

2021/03093 ~ Complete ~54:ROMATIC COMPOUNDS AND PHARMACEUTICAL USES THEREOF ~71: BASF AS, Lilleakerveien 2B, OSLO 0283, NORWAY, Norway ~72: FRASER, David Alan;SKJ&#198;RET, Tore;STEINEGER, Hilde Hermansen~ 33:US ~31:62/744,461 ~32:11/10/2018

2021/03100 ~ Complete ~54:BOOM MOUNTED SPRAY NOZZLE ASSEMBLY WITH MULTI CHECK VALVE COMPACT DESIGN ~71:Spraying Systems Co., North Avenue and Schmale Road, P.O. Box 7900, WHEATON 60187-7901, IL, USA, United States of America ~72: ARENSON, Marc;GOULD, Rich;PRICE, Trevor;WINTER, TJ~ 33:US ~31:62/753,768 ~32:31/10/2018

2021/03097 ~ Complete ~54:IMPROVED SYNTHESIS OF KEY INTERMEDIATE OF KRAS G12C INHIBITOR COMPOUND ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: CAPORINI, Marc Anthony;COCHRAN, Brian McNeil;PARSONS, Andrew Thomas;POWAZINIK, IV, William~ 33:US ~31:62/768,802 ~32:16/11/2018

2021/03084 ~ Complete ~54:C10-ALKYLENE SUBSTITUTED 13-MEMBERED MACROLIDES AND USES THEREOF ~71: PRESIDENT AND FELLOWS OF HARVARD COLLEGE, 17 Quincy Street, Cambridge, United States of America;ZIKANI THERAPEUTICS, INC., 480 Arsenal St., Suite 130, United States of America ~72: ALM, Richard;AUSTIN, Wesley, Francis;CARLSEN, Peter Niels;CLARK, Roger, B.;DHANDAPANI, Ganapathy;HOGAN, Philip;ICHIKAWA, Yoshitaka;JEWETT, Ivan;LAHIRI, Sushmita D;LAWRENCE, Jonathan F;LEPITRE, Thomas;LI, Xiben;MYERS, Andrew G;NEETIPALLI, Thrimurtulu;RAHMAN, Md. Ataur;SANCHEZ, Andre;SHI, Shuhao;WANG, Wenying;ZHANG, Ziyang~ 33:US ~31:62/769,383 ~32:19/11/2018

2021/03087 ~ Complete ~54:C10-CYCLIC SUBSTITUTED 13-MEMBERED MACROLIDES AND USES THEREOF ~71: PRESIDENT AND FELLOWS OF HARVARD COLLEGE, 17 Quincy Street, Cambridge, United States of America;ZIKANI THERAPEUTICS, INC., 480 Arsenal St., Suite 130, United States of America ~72: ALM, Richard;AUSTIN, Wesley, Francis;CARLSEN, Peter Niels;CLARK, Gregory, B.;GONDI, Vijaya;HOGAN, Philip;ICHIKAWA, Yoshitaka;JEWETT, Ivan;LAHIRI, Sushmita D;LAWRENCE, Jonathan F;LI, Xiben;MYERS, Andrew G;RAHMAN, Md. Ataur;SHI, Shuhao;WANG, Wenying;ZHANG, Ziyang~ 33:US ~31:62/769,413 ~32:19/11/2018

2021/03091 ~ Complete ~54:DUAL PASS, DUAL ANNEAL WELDING METHOD FOR JOINING HIGH STRENGTH STEELS ~71:ARCELORMITTAL, 24-26, Boulevard d&#39;Avranches, Luxembourg ~72: Alan POLING;Dinesh PATEL;Vikas Kanubhai PATEL~

2021/03096 ~ Complete ~54:MINE ROOF SUPPORT ~71:Crosscut Enterprises LLC, 25 Allegheny Square, GLASSPORT 15045, PA, USA, United States of America ~72: HUSSEY, David A.;WATSON, George A.~ 33:US ~31:62/750,029 ~32:24/10/2018

2021/03107 ~ Complete ~54:RAIN SENSOR ~71:UNDERSTORY, INC., 4916 E. Broadway Suite 200, Madison, Wisconsin, 53716, United States of America ~72: BRYAN A DOW;ERIC J HEWITT;JOHN P LEONARD;KYLE Z JERO~ 33:US ~31:62/756,363 ~32:06/11/2018

2021/03085 ~ Complete ~54:REACTOR AND PROCESS FOR GASIFYING AND/OR MELTING OF FEED MATERIALS ~71:AFRICAN RAINBOW MINERALS LIMITED, 24 Impala Road, Chislehurston, South Africa ~72: BOUWER, Petrus, Hendrik, Ferreira;WEGNER, Andr&#233;~ 33:ZA ~31:2018/08023 ~32:28/11/2018

2021/03079 ~ Complete ~54:COMPOUND PESTICIDE FORMULATION AND PRODUCTION PROCESS FOR THE PREVENTION AND CONTROL OF SUGARCANE DISEASES AND PESTS ~71:Biotechnology and Germplasm Resources Institute, Yunnan Academy of Agricultural Sciences, No. 2238, Beijing Road, Kunming, Yunnan Province, People's Republic of China;Sugarcane Research Institute, Yunnan Academy of Agricultural

Sciences, No. 363, Eastern Lingquan Road, Kaiyuan, Yunnan Province, People's Republic of China ~72: Huang Yingkun;Li Jie;Li Wenfeng;Li Yinhu;Lu Wenjie;Shan Hongli;Wang Xiaoyan;Zhang Rongyue~

2021/03102 ~ Complete ~54:ELECTROSTATIC SPRAY DRYER SYSTEM ~71:Spraying Systems Co., North Avenue and Schmale Road, P.O. Box 7900, WHEATON 60187-7901, IL, USA, United States of America ~72: SZCZAP, Joseph~ 33:US ~31:62/754,691 ~32:02/11/2018

2021/03088 ~ Complete ~54:BICYCLIC COMPOUNDS ~71:VIVACE THERAPEUTICS, INC., 2929 Campus Drive, #150, United States of America ~72: KONRADI, Andrei W.;LIN, Tracy Tzu-Ling Tang~ 33:US ~31:62/758,364 ~32:09/11/2018;33:US ~31:62/916,739 ~32:17/10/2019

2021/03090 ~ Complete ~54:PHARMACEUTICAL FORMULATIONS OF CYCLOSPORINE ANALOGS ~71:HEPION PHARMACEUTICALS, INC., 399 Thornall Street, 1st Floor, Edison, United States of America ~72: FOSTER, Robert Thomas;TREPANIER, Daniel Joseph;URE, Daren Raymond~ 33:US ~31:62/771,453 ~32:26/11/2018

2021/03095 ~ Complete ~54:T CELL RECEPTORS SPECIFIC FOR MESOTHELIN AND THEIR USE IN IMMUNOTHERAPY ~71:Fred Hutchinson Cancer Research Center, 1100 Fairview Avenue North, SEATTLE 98109, WA, USA, United States of America;Juno Therapeutics, Inc., 400 Dexter Avenue N, Suite 1200, SEATTLE 98109, WA, USA, United States of America ~72: CHAPUIS, Aude G.;GREENBERG, Philip D.;SCHMITT, Thomas M.~ 33:US ~31:62/758,397 ~32:09/11/2018

2021/03111 ~ Complete ~54:ELECTRODE FOR ELECTROLYTIC EVOLUTION OF GAS ~71:INDUSTRIE DE NORA S.P.A., Via Bistolfi 35, 20134, Milan, Italy ~72: ALICE GARGIULO;TOSHIKAZU HAYASHIDA~ 33:IT ~31:102018000010760 ~32:03/12/2018

- APPLIED ON 5/10/2021 -

2021/03130 ~ Complete ~54:FILM MADE OF METAL OR A METAL ALLOY ~71:NEUTRINO DEUTSCHLAND GMBH, Unter den Linden 21, Germany ~72: Holger Thorsten SCHUBART~

2021/03120 ~ Provisional ~54:E-90 ~71:Jessica Gounden, 51 Rickben crescent, South Africa ~72: Jessica Gounden~

2021/03123 ~ Complete ~54:POWER BACKUP ARRANGEMENT ~71:Warren MYBURGH, 75 Hella Crescent, South Africa ~72: Warren MYBURGH~ 33:ZA ~31:2020/00870 ~32:11/02/2020

2021/03124 ~ Complete ~54:INSULATING HOLDER AND METHOD FOR TRANSPORTING BEVERAGES ~71:JENSEN, Eugene, 1463 OAKMONT CRESCENT, EMFULENI GOLF ESTATE, VANDERBIJLPARK, 1911, South Africa;PEEK, Johannes, Samuel, 4 MOZART STREET, VANDERBIJLPARK, 1911, SOUTH AFRICA, South Africa ~72: JENSEN, Eugene;PEEK, Johannes, Samuel~ 33:ZA ~31:2020/02602 ~32:11/05/2020

2021/03140 ~ Complete ~54:A BIODEGRADABLE POLYMERIC SUBSTRATE AND A METHOD OF PRODUCING THE SUBSTRATE ~71:CHATURVEDI, Ashok, 305, Third Floor, Bhanot Corner, Pamposh Enclave, GK-1, NEW DELHI 110048, INDIA, India ~72: CHATURVEDI, Ashok~ 33:IN ~31:201811040463 ~32:26/10/2018

2021/03144 ~ Complete ~54:NON-ALUMINIUM ANTIPERSPIRANT COMPOSITIONS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ANELIYA NIKOLOVA ZDRAVKOVA~ 33:EP ~31:18209514.1 ~32:30/11/2018

2021/03147 ~ Complete ~54:HAIR CONDITIONING COMPOSITION FOR IMPROVED DEPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72:

CESAR ERNESTO MENDOZA FERNANDEZ;HAILEY KELSO;KELVIN BRIAN DICKINSON;MICHAEL JAMES COOKE;NEIL SCOTT SHAW;PAUL DAMIEN PRICE;RICHARD JONATHAN BARFOOT~ 33:EP  
~31:18214094.7 ~32:19/12/2018

2021/03126 ~ Complete ~54:METHOD AND APPARATUS FOR IMAGE CODING AND DECODING THROUGH INTER PREDICTION ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: AN, Jicheng;CHEN, Xu;ZHENG, Jianhua~

2021/03150 ~ Complete ~54:FLAVAGLINE DERIVATIVES FOR INHIBITION OF KRAS ONCOGENE ACTIVATION ~71:KHR BIOTEC GMBH (L. GR.), Vorderdeich 7, 21037, Hamburg, Germany ~72: HAJIME YURUGI;KRISHNARAJ RAJALINGAM~ 33:EP ~31:18200610.6 ~32:16/10/2018

2021/03128 ~ Complete ~54:MOBILE DEVICE FOR TREATMENT OF ITCHING, HAVING AN INTERFACE ~71:DERMAPHARM AG, Lil-Dagover-Ring 7, Germany ~72: B&#220;NGER VON WURMB, Daniel~ 33:EP  
~31:19153229.0 ~32:23/01/2019

2021/03133 ~ Complete ~54:SORT AND MERGE INSTRUCTION FOR A GENERAL-PURPOSE PROCESSOR ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of America ~72: BRADBURY, Jonathan;FARRELL, Mark;GIAMEI, Bruce Conrad;JACOBI, Christian;PURANIK, Aditya Nitin;RECKTENWALD, Martin;SCHMIDT, Donald William;SLEGEL, Timothy;ZOELLIN, Christian Gerhard~ 33:US  
~31:16/181,923 ~32:06/11/2018

2021/03146 ~ Complete ~54:HAIR CONDITIONING COMPOSITION FOR IMPROVED DEPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: CESAR ERNESTO MENDOZA FERNANDEZ;COLIN CHRISTOPHER DAVID GILES;HAILEY KELSO;MICHAEL JAMES COOKE;RAQUEL GUTIERREZ-ABAD;RICHARD JONATHAN BARFOOT;RONGRONG ZHOU~ 33:EP  
~31:18214091.3 ~32:19/12/2018

2021/03121 ~ Provisional ~54:WATER JOKE ~71:Jessica Gounden, 51 Rickben crescent mayville, South Africa ~72: Jessica Gounden~

2021/03156 ~ Complete ~54:EFFICIENT SEPARATION, RECYCLING TREATMENT AND CYCLIC UTILIZATION TEST METHOD FOR COAL-WATER-GAS MIXTURE ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO. 168 TAIFENG STREET, People's Republic of China;CHINA UNIVERSITY OF MINING AND TECHNOLOGY, NO. 1 DAXUE ROAD, People's Republic of China ~72: HUANG, HUAZHOU;JIA, JINLONG;LI, ZICHENG;LIU, CHANGJIANG;LIU, HUIHU;LIU, SHIQI;SANG, SHUXUN;WANG, HAIWEN;WU, HAIYAN;XU, HONGJIE;ZHOU, XIAOZHI~ 33:CN ~31:202010706758.2 ~32:21/07/2020

2021/03118 ~ Provisional ~54:A LOCK ~71:LOCKSMITHS WHOLESALERS CC, L2 Centurion Business Park, Democracy Way, South Africa ~72: CORDINER, Alexander;CORDINER, Dorian;VAN REENEN, Rudi Paul~

2021/03127 ~ Complete ~54:MANUFACTURING PROCESS FOR A REINFORCED CONVEYOR BELT AND PRODUCT THEREBY OBTAINED ~71:AFHER EUROBELT, S.A., Calle Topacio, 41, Spain ~72: DE GARNICA ESCRIBANO, Miguel;HERRERO P&#201;REZ, Carlos;SAN MIGUEL N&#218;&#209;EZ, Javier~ 33:EP  
~31:20382388.5 ~32:12/05/2020

2021/03138 ~ Complete ~54:SHEET LIGHTING FOR PARTICLE DETECTION IN DRUG PRODUCT CONTAINERS ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: FRADKIN, Dmitry;FREUND, Erwin;MILNE, Graham F.;PEARSON, Thomas Clark~ 33:US  
~31:62/780,542 ~32:17/12/2018

2021/03143 ~ Complete ~54:APPARATUS FOR COMPRESSION MOULDING CONCAVE OBJECTS ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIET&#192; COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: FABRIZIO PUCCI;FIORENZO PARRINELLO~ 33:IT ~31:102018000009342 ~32:11/10/2018

2021/03149 ~ Complete ~54:DEPOSITION SYSTEM FOR HAIR ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: COLIN CHRISTOPHER DAVID GILES;RONGRONG ZHOU~ 33:EP ~31:18213912.1 ~32:19/12/2018

2021/03154 ~ Complete ~54:COMBINATION VACCINE COMPOSITION COMPRISING REDUCED DOSE INACTIVATED POLIOVIRUS AND METHOD FOR PREPARING THE SAME ~71:SERUM INSTITUTE OF INDIA PRIVATE LTD, 21 2/2, Off Soli Poonawalla Road, Hadapsar, India ~72: DODDAPANENI, Manohar;KILVANI, Jaganathan Semburakkiannan;KUMAR, Rakesh;SHARMA, Inder Jit;SHITOLE, Anil Vyankatrao~ 33:IN ~31:201821038850 ~32:12/10/2018

2021/03125 ~ Complete ~54:PRODUCTS AND METHODS FOR MONITORING ADHERENCE TO NUCLEOSIDE REVERSE TRANSCRIPTASE INHIBITOR THERAPY ~71:URSURE, INC., Harvard Life Lab, 127 Western Avenue, Boston, Massachusetts, 02134, United States of America ~72: GIFFIN DAUGHTRIDGE;KEITH KARDOS~ 33:US ~31:62/572,126 ~32:13/10/2017

2021/03139 ~ Complete ~54:CRYSTALLINE SALTS OF A PLASMA KALLIKREIN INHIBITOR ~71:BioCryst Pharmaceuticals, Inc., 4505 Emperor Blvd., Suite 200, DURHAM 27703, NC, USA, United States of America ~72: BABU, Yarlagadda S.;EL-KATTAN, Yahya~ 33:US ~31:62/754,983 ~32:02/11/2018

2021/03131 ~ Complete ~54:NALTREXONE INJECTABLE SUSTAINED RELEASE FORMULATION ~71:ALAR PHARMACEUTICALS INC., Rm. 312, 3F., No. 19, Keyuan Rd., People's Republic of China ~72: LIN, Tong-Ho;LIU, Ying-Ting;WEN, Yung-Shun;WU, Zhi-Rong~ 33:US ~31:62/785,259 ~32:27/12/2018

2021/03137 ~ Complete ~54:INLET COMPONENT FOR A SLURRY PUMP ~71:Weir Minerals Australia Ltd, 1 Marden Street, ARTARMON 2064, NSW, AUSTRALIA, Australia ~72: CINOTTI, Nestor;HAMILTON, David Alan;MOSCOSO LAVAGNA, Luis~

2021/03153 ~ Complete ~54:ESTABLISHING A SHARED SESSION BETWEEN ENTITIES ~71:ENTERSEKT INTERNATIONAL LIMITED, Level 3, Alexander House, 35 Cybercity, Mauritius ~72: BESTER, Dani&#235;l Deetlefs;LE ROUX, Mercia;OOSTHUIZEN, Gerhard Gysbert;VAN DER MERWE, Jonathan Daniel;WESSELS, Tertius~ 33:ZA ~31:2018/07753 ~32:19/11/2018

2021/03157 ~ Complete ~54:CONDUCTIVE PA6/PPO ALLOY MATERIAL AND PREPARATION METHOD THEREOF ~71:GUIZHOU INSTITUTE OF MATERIALS INDUSTRY TECHNOLOGY, GUIZHOU SCIENCE CITY, NO. 3491, BAIJIN AVENUE, People's Republic of China ~72: HUANG, ANRONG;JIANG, TUANHUI;LUO, HENG;LUO, SHANSHAN;SHI, MIN;SUN, JING~

2021/03117 ~ Provisional ~54:WEDGING ARRANGEMENT TO PLUG A BLAST HOLE ~71:LOGANATHAN, Vinesh, 47 Astor Road, Klevehill Park, Bryanston, Johannesburg 2191, Gauteng, SOUTH AFRICA, South Africa ~72: LOGANATHAN, Vinesh~

2021/03116 ~ Provisional ~54:AN ANTI-THEFT SOLUTION ~71:EVOLVE AFRICA SOLUTIONS (PTY) LTD, 101 GREENSIDE QUARTER, 10 GLENEAGLES ROAD, GREENSIDE, South Africa ~72: MATTHEW WILLIAM PARKER~

2021/03122 ~ Complete ~54:PRIMER SET AND KIT FOR SIMULTANEOUSLY IDENTIFYING WILD STRAINS AND GENE-DELETED VACCINE STRAINS OF ASFV ~71:Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No.202 Gongye North Road, Jinan City, Shandong Province, 250100, People's Republic of China ~72: Chen Zhi;Fang Lichun;Jiao Jian;Liu Na;Meng Kai;Ren Sufang;Sun Wenbo;Wu Jiaqiang;Yu Jiang;Zhang Yuyu~

2021/03155 ~ Complete ~54:SULFIDE ORE FLOTATION COLLECTOR, APPLICATION THEREOF AND SULFIDE ORE FLOTATION METHOD ~71:BGRIMM TECHNOLOGY GROUP, BUILDING 23, ZONE 18 OF ABP, NO. 188, SOUTH 4TH RING ROAD WEST, People's Republic of China ~72: HAN, LONG;LU, LIANG;LUO, SIGANG;WEI, XIONG;ZHANG, XINGRONG;ZHAO, ZHIQIANG;ZHU, YANGGE~ 33:CN ~31:202110278558.6 ~32:16/03/2021

2021/03129 ~ Complete ~54:EXTENSIBLE GUIDE FOR A TUBE ~71:LE CLEZIO, Anne Margaret, 104 South Avenue, Atholl, 2196, South Africa ~72: LE CLEZIO, Louis Jean Christian~ 33:ZA ~31:2018/06878 ~32:16/10/2018

2021/03132 ~ Complete ~54:KETAMINE PAMOATE AND USE THEREOF ~71:ALAR PHARMACEUTICALS INC., Rm. 312, 3F., No. 19, Keyuan Rd., People's Republic of China ~72: CHANG, Wei-Ju;CHEN, Chia-Hsien;LIN, Tong-Ho;WEN, Yung-Shun~ 33:US ~31:62/791,058 ~32:11/01/2019;33:US ~31:62/871,763 ~32:09/07/2019

2021/03268 ~ Provisional ~54:EVAPORATIVE BABY BODY SUITE ~71:LEE-ANNE CORBETT, 48 Aberdene Road, Westdene, South Africa ~72: LEE-ANNE CORBETT~

2021/03158 ~ Complete ~54:UNDERGROUND INTELLIGENT ROUTING INSPECTION UNMANNED AERIAL VEHICLE WITH EXPLOSION-PROOF FUNCTION ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168, TAIFENG STREET, People's Republic of China ~72: CHENG, JING;LI, QINGYAO;LU, YUNFENG;LUO, XIAOLONG;PANG, DONGDONG;PANG, XINCHEN;PENG, ZHAOYUAN;WAN, HAOWEN;ZHANG, BO~ 33:CN ~31:202011339994.1 ~32:25/11/2020

2021/03119 ~ Provisional ~54:SELF-CHARGING AND SELF-POWERED ELECTRIC CAR. ~71:Ahmed Waseef Saib, 24 Park avenue, Desainager Tongaat Beach,, South Africa ~72: Ahmed Waseef Saib~

2021/03152 ~ Complete ~54:RAPID IDENTIFICATION OF BACTERIAL PATHOGENS ~71:MASSEY UNIVERSITY, Tennent Drive Palmerston North, New Zealand ~72: FONG, Richard;GR&#220;NHEIT, Nicole;LOCKHART, Peter;MCLENACHAN, Patricia;WINKWORTH, Richard~ 33:AU ~31:2018904268 ~32:09/11/2018

2021/03115 ~ Provisional ~54:ELECTRIC FENCE ~71:Johan Jacobs, Unit 1, 78 Camborne Road, Newredruth, Alberton, 1449, South Africa ~72: Johan Jacobs~

2021/03135 ~ Complete ~54:PEPTIDES AND PHARMACEUTICAL COMPOSITIONS FOR TREATING EYE DISEASES ~71:Yuyu Pharma, Inc., Yuyu Building, 197 Dongho-ro, Jung-gu, SEOUL 045-046, REPUBLIC OF KOREA, Republic of Korea ~72: BAIK, Taegon;CHOI, Jong-Yun;MIN, Gyoung-Wook;PARK, Chun Ho~ 33:US ~31:62/767,180 ~32:14/11/2018

2021/03142 ~ Complete ~54:A COMBUSTOR AIR BAR GRID FOR USE WITHIN A FLUIDIZED BED REACTOR, AND A FLUIDIZED BED REACTOR ~71:Sumitomo SHI FW Energia Oy, Mets&#228;nneidonkuja 10, ESPOO 02130, FINLAND, Finland ~72: CWIELAG, Jan~



2021/03148 ~ Complete ~54:NON-ALUMINIUM ANTIPERSPIRANT COMPOSITIONS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ANELIYA NIKOLOVA ZDRAVKOVA;PHILIP CHRISTOPHER WATERFIELD~ 33:EP ~31:18209520.8 ~32:30/11/2018

2021/03269 ~ Provisional ~54:INFANT ABSORBENT T-SHIRT ~71:LEE-ANNE KASSEL, 48 Aberdene Road, Westdene, South Africa ~72: LEE-ANNE KASSEL~

2021/03134 ~ Complete ~54:HYDRAULIC PERCUSSION APPARATUS EQUIPPED WITH A SEALING DEVICE ~71:MONTABERT, 203, route de Grenoble, France ~72: ESCOLLE, Michel~ 33:FR ~31:1872902 ~32:14/12/2018

2021/03141 ~ Complete ~54:AEROSOL GENERATING APPARATUS AND METHOD OF OPERATING SAME ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: HORROD, Martin Daniel;WHITE, Julian Darryn~ 33:GB ~31:1820143.4 ~32:11/12/2018

2021/03136 ~ Complete ~54:MEASUREMENT DEVICE FOR DETERMINING THE FLOW OF A FLUID FLOWING THROUGH A PIPE SECTION ~71:Sensus Spectrum LLC, 637 Davis Drive, MORRISVILLE 27560, NC, USA, United States of America ~72: BERTRAM, Carsten;PFEIFFER, Andreas~ 33:DE ~31:10 2018 126 613.8 ~32:25/10/2018

2021/03145 ~ Complete ~54:HAIR CONDITIONING COMPOSITION FOR IMPROVED DEPOSITION OF SILICONE ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: CESAR ERNESTO MENDOZA FERNANDEZ;MICHAEL JAMES COOKE;PAUL DAMIEN PRICE;RICHARD JONATHAN BARFOOT~ 33:EP ~31:18214093.9 ~32:19/12/2018

2021/03151 ~ Complete ~54:AUTOMATIC TOILET CLEANER DEVICE ~71:MAHDI GHODRATI, 305- 625 Kipps Lane London, Canada ~72: GHODRATI, Mahdi~ 33:US ~31:62/766,266 ~32:11/10/2018;33:US ~31:62/917,592 ~32:18/12/2018

- APPLIED ON 5/11/2021 -

2021/03295 ~ Provisional ~54:MPILONTLE TANKS ~71:GIDEON VUYANI MBEBE, 63 TOURMALINE ROAD, SUNDOWNER EXT 7 RANDBURG, South Africa ~72: GIDEON VUYANI MBEBE~

2021/03165 ~ Provisional ~54:CRANE SUPPORT MAT MONITORING SYSTEM ~71:VAN NIEKERK, De Wet, 25 Rosherville Street, Frane Villas No. 5, South Africa ~72: VAN NIEKERK, De Wet~

2021/03169 ~ Complete ~54:A PESTICIDES COMPOUND FERTILIZER FORMULATION AND ITS PRODUCTION METHOD FOR SUGARCANE DISEASE AND PESTS ~71:Biotechnology and Germplasm Resources Institute, Yunnan Academy of Agricultural Sciences, No. 2238, Beijing Road, Kunming, Yunnan Province, People's Republic of China;Sugarcane Research Institute, Yunnan Academy of Agricultural Sciences, No. 363, Eastern Lingquan Road, Kaiyuan, Yunnan Province, People's Republic of China ~72: Huang Yingkun;Li Jie;Li Wenfeng;Li Yinhu;Lu Wenjie;Shan Hongli;Wang Xiaoyan;Zhang Rongyue~

2021/03191 ~ Complete ~54:METHOD FOR PREPARING CELLULOSE NANOCRYSTALS BASED ON MICROFLUIDIC CHIP ~71:SOUTH CHINA UNIVERSITY OF TECHNOLOGY, No.381, Wushan Road, Tianhe District, People's Republic of China ~72: WANG, Shuxiu;ZENG, Jingsong~ 33:CN ~31:201910495382.2 ~32:10/06/2019

2021/03164 ~ Provisional ~54:PROTECT A BIKE ~71:Pierre Eksteen, 46 Sneeuweg Ave, South Africa ~72: Pierre Eksteen~

2021/03160 ~ Provisional ~54:CULTIVATION OF MICROORGANISMS ~71:MUKUZE, Stephen, Delvillewood Farm, Subdivision 5, Sherwood, Kwekwe, ZIMBABWE, Zimbabwe ~72: MUKUZE, Stephen~

2021/03176 ~ Complete ~54:INSECT POWDER FOR PREVENTING SKELETAL DEFORMITIES IN FISH AND/OR INCREASING THE STRENGTH OF A FISH BONE DURING FARMING ~71:Ynsect, 1 Rue Pierre Fontaine, &#201;VRY-COURCOURONNES CEDEX 91058, FRANCE, France ~72: ARMENJON, Benjamin;MOTTE, Constant~ 33:FR ~31:1859486 ~32:12/10/2018

2021/03189 ~ Complete ~54:GUSSETED FLEXIBLE CONTAINER ~71:GBS HOLDINGS LLC, 156 Midway Road, Oak Ridge, United States of America ~72: Bryan Justin Robert Crosby~ 33:US ~31:PCT/US2018/055627 ~32:12/10/2018

2021/03172 ~ Complete ~54:MATERIAL AND METHODS FOR THE TREATMENT OF GASTRO-INTESTINAL DISORDERS ~71:RENEXXION, LLC, 120 Hatona Drive, Santa Rosa, California, United States of America ~72: DRUZGALA, Pascal Jean;MILNER, Peter;TIEN, Jien Heh~ 33:US ~31:16/181,177 ~32:05/11/2018

2021/03185 ~ Complete ~54:MANAGING PERMISSIONS TO ACCESS USER DATA IN A DISTRIBUTED LEDGER TRUST NETWORK ~71:BANQU, INC., 4100 Heatheron Place, Minnetonka, Minnesota, 55345, United States of America ~72: ASHISH GADNIS;JEFFREY A KEISER;STANISLAV S NATALENKO~ 33:US ~31:62/760,789 ~32:13/11/2018

2021/03159 ~ Provisional ~54:FURNACE ELECTRODE CLAMPING DEVICE ~71:ARJUN, Sachin, 3240 Batis Close, Waterfall, Midrand, South Africa ~72: ARJUN, Sachin~

2021/03177 ~ Complete ~54:NUCLEIC ACID CONSTRUCTS AND METHODS OF USE ~71:Intellia Therapeutics, Inc., 40 Erie Street, Suite 130, CAMBRIDGE 02139, MA, USA, United States of America;Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Rd., TARRYTOWN 10591, NY, USA, United States of America ~72: FINN, Jonathan Douglas;HUANG, Hon-Ren~ 33:US ~31:62/747,393 ~32:18/10/2018;33:US ~31:62/840,343 ~32:29/04/2019

2021/03188 ~ Complete ~54:COMBINATION TREATMENT OF NAFLD AND NASH ~71:CYMABAY THERAPEUTICS, INC., 7575 Gateway Boulevard, Suite 110, Newark, California, 94560, United States of America ~72: CHARLES A MCWHERTER;YUN-JUNG CHOI~ 33:US ~31:62/768,226 ~32:16/11/2018

2021/03161 ~ Provisional ~54:ELECTRICITY ACQUISITION SYSTEM AND METHOD OF USING SAME ~71:RUTIWIZ (PTY) LTD., 9 LAURENCE VINQI STREET, KWANOBUHLE, South Africa ~72: FILA, Andile;HEMPE, Sizwe Zilwele;JANUARY, Andile~

2021/03175 ~ Complete ~54:AN INTERFACE JOINT FOR INTERCONNECTING AN ELECTROSURGICAL GENERATOR AND AN ELECTROSURGICAL INSTRUMENT ~71:CREO MEDICAL LIMITED, Creo House Unit 2, Beaufort Park, Beaufort Park Way, United Kingdom ~72: GEOGHEGAN, Leif;GULLIFORD, Craig;HANCOCK, Christopher Paul;HOPKINS, Huw;MONICO, Rohan;MORRIS, Steve;PLUTA, Rob;TURNER, Louis~ 33:GB ~31:1818869.8 ~32:20/11/2018

2021/03192 ~ Complete ~54:PRESSURIZED BEVERAGE CONTAINER SYSTEM ~71:JOSEPH COMPANY INTERNATIONAL, INC., 1711 Langley Avenue Irvine, United States of America ~72: SILLINCE, Mark~ 33:US ~31:62/813,876 ~32:05/03/2019

2021/03168 ~ Provisional ~54:DIGITAL CERTIFICATION ~71:Njabulo, 2382b Matilda street, South Africa ~72: Njabulo Mdakane~

2021/03190 ~ Complete ~54:HUMANIZED ANTIBODIES AGAINST C-KIT ~71:Forty Seven, Inc., 333 Lakeside Drive, Foster City, United States of America ~72: LIU, Jie;SOMPALLI, Kavitha~ 33:US ~31:62/771,526 ~32:26/11/2018

2021/03170 ~ Complete ~54:MONITORING DEVICE AND MONITORING METHOD FOR ROADWAY SURROUNDING ROCK ROOF DISPLACEMENT ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, People's Republic of China ~72: CHANG, JUCAI;CHEN, ZHIYU;JIANG, ZHIXIONG;QI, CHAO;YIN, ZHIQIANG~ 33:CN ~31:202010592987.6 ~32:25/06/2020

2021/03183 ~ Complete ~54:ADENOVIRUSES AND METHODS FOR USING ADENOVIRUSES ~71:Mayo Foundation for Medical Education and Research, 200 First Street S.W., ROCHESTER 55905, MN, USA, United States of America ~72: BARRY, Michael A.~ 33:US ~31:62/770,631 ~32:21/11/2018

2021/03193 ~ Complete ~54:SINGLE-DOSE USE OF A COMPOSITION COMPRISING A PARTICULAR MIXTURE OF GRAPE EXTRACT AND BLUEBERRY EXTRACT ~71:ACTIV&#39;INSIDE, 12ZA Commerciale du Lapin, Beychac Et Caillau, 33750, France ~72: DUBREUIL, S&#233;verine;GAUDOUT, David;LEMAIRE, Benoit;MAZIER, Wilfrid;REY, St&#233;phane~ 33:FR ~31:1871663 ~32:21/11/2018

2021/03173 ~ Complete ~54:SUBSTITUTED 6-AZABENZIMIDAZOLE COMPOUNDS AS HPK1 INHIBITORS ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, United States of America ~72: BALAN, Gayatri;BARTLETT, Mark J.;CHANDRASEKHAR, Jayaraman;CODELLI, Julian A.;CONWAY, John H.;COSMAN, Jennifer L.;KALLA, Rao V.;KASUN, Zachary A.;KIM, Musong;LEE, Seung H.;LO, Jennifer R.;LOYER-DREW, Jennifer A.;MITCHELL, Scott A.;PERRY, Thao D.;PHILLIPS, Gary B.;SALVO, Patrick J.;SWAMINATHAN, Sundaramoorthi;VAN VELDHUIZEN, Joshua J.;YEUNG, Suet C.;ZABLOCKI, Jeff~ 33:US ~31:62/753,339 ~32:31/10/2018;33:US ~31:62/868,550 ~32:28/06/2019

2021/03186 ~ Complete ~54:DEFINING AND MANAGING FORMS IN A DISTRIBUTED LEDGER TRUST NETWORK ~71:BANQU, INC., 4100 Heatherton Place, Minnetonka, Minnesota, 55345, United States of America ~72: ASHISH GADNIS;JEFFREY A KEISER;STANISLAV S NATALENKO~ 33:US ~31:62/760,789 ~32:13/11/2018

2021/03167 ~ Provisional ~54:TOILET BRUSH AND HOLDER SYSTEM ~71:DRYSDALE, Craig, 19 Leicester Road, Lakeside, 7945, SOUTH AFRICA, South Africa;GREENBERG, Joseph, 19 Leicester Road, Lakeside, Cape Town 7945, SOUTH AFRICA, South Africa ~72: DRYSDALE, Craig~

2021/03171 ~ Complete ~54:SOIL ANALYSIS COMPOSITIONS AND METHODS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: NELSON, Rachel;PETROSKI, Richard~ 33:US ~31:62/792,542 ~32:15/01/2019

2021/03180 ~ Complete ~54:ORAL CARE COMPOSITION COMPRISING ZINC AND AN AMINO ACID FOR TREATING SYMPTOMS OF A GASTRIC DISORDER IN THE ORAL CAVITY ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: MANUS, Lisa;STRANICK, Michael;WU, Donghui~ 33:US ~31:62/782,805 ~32:20/12/2018

2021/03184 ~ Complete ~54:WOVEN, NONWOVEN, COTTON, NONWOVEN-COTTON BLENDED POLYETHYLENE AND POLIPROPILEN AND POLYSTYRENE MASK, WOUND DRESSING, PANTY, BRA, HANDKERCHIEF, PAD, SCOURING PAD, DISPOSABLE SURGICAL DRESS, DISPOSABLE SHEETS WITH ANTIMICROBIAL PROPERTIES ~71:DILCEM KIMYA VE DENISMANLIK ITH. IHR. SAN. TIC. LTD. STI., Egemenlik Mah. 616/51 Sokak No:14/1 Gerikazancilar Sitesi Isikkent, Turkey ~72: UCAR, Dilek~ 33:WO ~31:PCT/TR2018/050753 ~32:30/11/2018

2021/03162 ~ Provisional ~54:A MOBILE REFRIGERATED BAR UNIT ~71:Filip Gaston Robert Timmermans, 105 Kingfisher Crescent, Kyalami Glen Estate, Kyalami, South Africa ~72: Filip Gaston Robert Timmermans~

2021/03166 ~ Provisional ~54:PORTABLE AIRPLANE HANGER ~71:Darren Foster, 118 Foxboro Way , Sherwood Park AB , T8A 5Y6, Canada ~72: Darren Foster~

2021/03178 ~ Complete ~54:METHODS FOR MEASURING PH USING NMR METHODS ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: BALSANDORJ, Zolijargal;CHENG, Chi-Yuan;HAO, Zhigang;PAN, Long~ 33:US ~31:62/778,165 ~32:11/12/2018

2021/03182 ~ Complete ~54:MODULATORS OF IRF5 EXPRESSION ~71:Ionis Pharmaceuticals, Inc., 2855 Gazelle Ct., CARLSBAD 92010, CA, USA, United States of America ~72: FREIER, Susan M.~ 33:US ~31:62/767,615 ~32:15/11/2018

2021/03163 ~ Provisional ~54:A ROCK ANCHOR ~71:LULL STORM TRADING (PTY) LTD., 168/169 Bosworth Street, ALRODE SOUTH 1451, Gauteng Province, SOUTH AFRICA, South Africa ~72: WILSON, Langdon Roger~

2021/03194 ~ Complete ~54:CARBIDE CUTTER BIT WITH RIBBED SIDES AND CONICAL TIP ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: BJERKE, Nathan R.;CONGDON, Thomas M.;PARZYNSKI JR., David B.~ 33:US ~31:16/192,061 ~32:15/11/2018

2021/03174 ~ Complete ~54:ANTI-CLAUDIN 18.2 AND ANTI-4-1BB BISPECIFIC ANTIBODIES AND USES THEREOF ~71:ABL BIO INC., 16, Daewangpangyo-ro 712beon-gil, Bundang-gu, Seongnam-si, Republic of Korea;I-MAB BIOPHARMA US LIMITED, 9801 Washington Blvd, Suite 710, Gaithersburg, United States of America ~72: FANG, Lei;GUO, Bingshi;JIANG, Wenqing;PARK, Eunyoung;SUNG, Byungje;SUNG, Eunsil;WANG, Zhengyi~ 33:CN ~31:PCT/CN2019/100162 ~32:12/08/2019;33:CN ~31:PCT/CN2019/104508 ~32:05/09/2019;33:CN ~31:PCT/CN2020/071954 ~32:14/01/2020;33:CN ~31:PCT/CN2020/087968 ~32:30/04/2020

2021/03187 ~ Complete ~54:THERAPY FOR TREATING CANCER WITH AN INTRATUMORAL AND/OR INTRAVENOUS ADMINISTRATION OF A RECOMBINANT MVA ENCODING 4-1BBL (CD137L) AND/OR CD40L ~71:BAVARIAN NORDIC A/S, Hejreskovvej 10 A, 3490, Kvistgaard, Denmark ~72: HENNING LAUTERBACH;JOSE MEDINA ECHEVERZ;MARIA HINTERBERGER~ 33:EP ~31:18207238.9 ~32:20/11/2018;33:US ~31:62/807,720 ~32:19/02/2019

2021/03179 ~ Complete ~54:ERK INHIBITORS AND USES THEREOF ~71:1200 Pharma LLC, 844 East Green Street, Suite 204, PASADENA 91101 , CA, USA, United States of America;California Institute of Technology, Office of Technology Transfer, 1200 E. California Boulevard, PASADENA 91125, CA, USA, United States of America;The Regents of the University of California, 1111 Franklin Street, Twelfth Floor, OAKLAND 94607-5200 , CA, USA, United States of America ~72: BARTBERGER, Michael D.;CONKLIN, Dylan;HILF, Justin A.;LOSON, Oliver C.;MCDERMOTT, Martina S.;O&#39;BOYLE, Brendan M.;O&#39;BRIEN, Neil A.;PALAZZOLO, Michael J.;REEVES, Corey M.;SLAMON, Dennis;STOLTZ, Brian M.;WITTENBERGER, Steven J.~ 33:US ~31:62/768,565 ~32:16/11/2018;33:US ~31:62/908,965 ~32:01/10/2019

2021/03296 ~ Provisional ~54:WATER RETICULATION HYDRO POWER GENERATING SYSTEM ~71:ELRIDGE HEINRICH MULLER, 2 REMBRANDT STREET, MARVIN PARK, MACASSAR, South Africa ~72: ELRIDGE HEINRICH MULLER~

2021/03181 ~ Complete ~54:REDUCTION OF PATHOGENIC BACTERIA USING ARGININE ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: DAEP, Carlo;MAKWANA, Ekta;ZAIDEL, Lynette~ 33:US ~31:62/784,945 ~32:26/12/2018

- APPLIED ON 5/12/2021 -

2021/03195 ~ Provisional ~54:REVISED ORIENTATION FOR SHRINK-WRAP PACKAGING ~71:Martin Hempel, 1 Monte Bello, 138 Villiers Road, South Africa ~72: Martin Hempel~

2021/03206 ~ Complete ~54:OPTIMIZING CAPACITY AND LEARNING OF WEIGHTED REAL-VALUED LOGIC ~71:International Business Machines Corporation, New Orchard Road, ARMONK 10504, NY, USA, United States of America ~72: AKHALWAYA, Ismail Yunus;KHAN, Naweed Aghmad;LUUS, Francois Pierre;MAKONDO, Ndivhuwo;RIEGEL, Ryan;VOS, Etienne Eben~ 33:US ~31:15/931,223 ~32:13/05/2020

2021/03208 ~ Complete ~54:A MEDICAL APPARATUS FOR A MOBILE DEVICE AND A KIT FOR A MOBILE DEVICE ~71:WARR, Eric Howell Charles, 83 Tredonne Estate, Old Sir Lowry's Pass Road, Somerset West, 7130, SOUTH AFRICA, South Africa ~72: OVERALL, Sean Grant~ 33:ZA ~31:2020/02628 ~32:12/05/2020

2021/03223 ~ Complete ~54:PROCESS FOR THE PREPARATION OF (S)-NICOTIN FROM MYOSMINE ~71:ZANOPRIMA LIFESCIENCES LIMITED, 5th Floor, Charles House, 108-110 Finchley Road, United Kingdom ~72: MCCAGUE, Raymond;NARASIMHAN, Ashok Srinivasan~ 33:EP ~31:18206826.2 ~32:16/11/2018

2021/03233 ~ Complete ~54:LIPID NANOPARTICLE FORMULATIONS ~71:ARBUTUS BIOPHARMA CORPORATION, 100-8900 Glenlyon Parkway , Burnaby, British Columbia, V5J 5J8, Canada ~72: ADAM JUDGE;JAMES HEYES;KIEU MONG LAM;LORNE RALPH PALMER;PETRA SCHREINER~ 33:US ~31:62/758,088 ~32:09/11/2018

2021/03210 ~ Complete ~54:USE AND METHOD TO REDUCE DEPOSITS IN COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: CLAYTON, Christopher, William;COOK, Stephen, Leonard;GEE, Michael;MULQUEEN, Simon, Christopher;REID, Jacqueline, Glen;ROSS, Alan, Norman;WILLIAMS, Rodney, Glyn;WOODALL, Keith;WYATT, Emma~ 33:EP ~31:18211571.7 ~32:11/12/2018

2021/03224 ~ Complete ~54:SYSTEMS, METHODS, AND AN APPARATUS FOR CONTROLLING A SLEEP ENVIRONMENT AND WAKING A SLEEPING PERSON ~71:The Regents of the University of California, 1111 Franklin Street, Twelfth Floor, OAKLAND 94607-5200, CA, USA, United States of America;University of the Witwatersrand, Johannesburg, 1 Jan Smuts Avenue, Braamfontein, 2001, SOUTH AFRICA, South Africa ~72: BHAGWANDIN, Adhil;DAVIMES, Joshua Gabriel;MANGER, Paul Robert;PHILANDER, Ilke Bianca;SIEGEL, Jerome Melvin~ 33:ZA ~31:2018/06789 ~32:12/10/2018

2021/03231 ~ Complete ~54:PYRIDAZINONE COMPOUNDS AND USES THEREOF ~71:EDGEWISE THERAPEUTICS, INC., 3415 Colorado Avenue, Boulder, Colorado, 80303, United States of America ~72: ALAN RUSSELL;CHRIS STEELE;GRACE UZOHO;KEVIN HUNT;KEVIN KOCH;PAUL WINSHIP;STEPHEN SCHLACHTER~ 33:US ~31:62/756,539 ~32:06/11/2018

2021/03196 ~ Provisional ~54:INTERACTIVE DATA SYSTEM ~71:DUNCAN, Douglas Malcolm, 1344 Spyker Crescent, Stormill, Ext 2, South Africa ~72: DUNCAN, Douglas Malcolm~

2021/03200 ~ Provisional ~54:METHOD AND SYSTEM FOR TARGETED ADVERTISING ~71:BENCHMARK VENTURE CAPITAL (PTY) LTD, 6 Lagoon Drive, Umhlanga Rocks, South Africa ~72: REDDY, Privenesh Christie~

2021/03226 ~ Complete ~54:PAYLOAD DELIVERY MECHANISM SUITABLE FOR USE WITH A DRONE  
~71:JACQUES VENTER, 3 Le Chanon Cnr 11th & Stiglingh Streets, Rivonia, South Africa ~72: JACQUES VENTER~

2021/03202 ~ Provisional ~54:BEVERAGE CAN TRANSPORT CRATES AND 4-PACK HOLDER ~71:Martin Hempel, 1 Monte Bello, 6th Ave Walmer, South Africa ~72: Martin Hempel~

2021/03204 ~ Complete ~54:A DIGITAL PUBLIC CULTURAL SERVICE MANAGEMENT PLATFORM  
~71:Zhengzhou University of Aeronautics, Longzihu campus, Zhengdong New District, Zhengzhou, Henan, 450046, People's Republic of China ~72: Jianhua Sun;Jingya Yue;Shaodan Feng;Yujie Su;Yunliang Jiang~

2021/03209 ~ Complete ~54:MONOHYDRATE POTASSIUM SALT OF A THIENOPYRIDONE DERIVATIVE AND ITS PREPARATION PROCESS ~71:POXEL, IMMEUBLE LE SUNWAY 259/261, AVENUE JEAN JAUR&#201;S, 69007 LYON, FRANCE, France ~72: ARICAN, Deniz;BOLZE, S&#233;bastien;HALLAKOU-BOZEC, Sophie;LANZ, Marc;NAVARRRE, Laure;O&#39;SULLIVAN, Anthony~ 33:EP ~31:18306505.1 ~32:16/11/2018

2021/03222 ~ Complete ~54:A TRANSPORT CONTAINER ~71:JAMES, Christopher Colin, 22 De Wet Street, Northcliff Extension 3, South Africa ~72: JAMES, Christopher Colin~ 33:ZA ~31:2018/06915 ~32:17/10/2018

2021/03203 ~ Provisional ~54:MERCHANT CODE PAYMENTS: ACCOUNT LINKED PAYMENT CODE TO PAY AT MERCHANTS ~71:BANDILE PELICAN BUTHELEZI, 5 Wooldridge road, Ashley, South Africa ~72: BANDILE PELICAN BUTHELEZI~ 33:ZA ~31:001 ~32:10/05/2021

2021/03214 ~ Complete ~54:A SECOND GENERATION CURRENT CONVEYOR (CCII) HAVING A TUNABLE FEEDBACK NETWORK ~71:UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa ~72: OSUCH, Piotr Jan;STANDER, Tinus~

2021/03227 ~ Complete ~54:COMPOSITIONS AND METHODS ~71:OXFORD UNIVERSITY INNOVATION LIMITED, Buxton Court, 3 West Way Botley, Oxford, Oxfordshire, OX2 0JB, United Kingdom ~72: ADRIAN V.S HILL;SARAH C GILBERT;SARAH SEBASTIAN;TERESA LAMBE~ 33:GB ~31:1818084.4 ~32:06/11/2018

2021/03213 ~ Complete ~54:RECYCLING OR PROCESSING OF LAYERED PACKAGING MATERIALS  
~71:CSIR, CSIR Campus, Meiring Naude Road, BRUMMERIA 0184, SOUTH AFRICA, South Africa ~72: MUSYOKA, Nicholas;REN, Jianwei~ 33:ZA ~31:2018/07422 ~32:06/11/2018

2021/03219 ~ Complete ~54:CANNABIDIOL-TYPE CANNABINOID COMPOUND ~71:GW Research Limited, Sovereign House, Vision Park, Chivers Way, Histon, CAMBRIDGE CB24 9BZ, CAMBRIDGESHIRE, UNITED KINGDOM, United Kingdom ~72: CILIA, Jacqueline;GRAY, Royston;GUY, Geoffrey;KNAPPERTZ, Volker;PATEL, Amsha;STRAKER, Hannah;WHALLEY, Benjamin~ 33:GB ~31:1818935.7 ~32:21/11/2018

2021/03232 ~ Complete ~54:COMPOSITION THAT ATTRACTS THE SPECIES DELOTTOCOCCUS ABERIAE AND METHODS FOR DETECTING, MONITORING AND/OR CONTROLLING THE PEST ~71:ECOLOGIA Y PROTECCION AGRICOLA, S.L., Gregal, 11 Pol. Ind. Ciutat de Carlet, 46240, Carlet, Spain;UNIVERSITAT POLIT&#200;CNICA DE VAL&#200;NCIA, Camino de Vera s/n, 46022, Valencia, Spain ~72: ALEJANDRO CARBONELL GARCIA;ISMAEL NAVARRO FUERTES;JAIME PRIMO MILLO;JAVIER MARZO BARGU&#201;S;SANDRA VACAS GONZ&#193;LEZ;VICENTE NAVARRO LLOPIS~ 33:ES ~31:P201831098 ~32:13/11/2018

2021/03201 ~ Provisional ~54:GLUED SIX-PACK PACKAGING ~71:Martin Hempel, 1 Monte Bello, 6th Ave Walmer, South Africa ~72: Martin Hempel~

2021/03205 ~ Complete ~54:HIGH DEFINITION AND EXTENDED DEPTH OF FIELD INTRAOCULAR LENS  
~71:Z Optics, Inc., 1022 Briarcrest Lane, COOKEVILLE 38501, TN, USA, United States of America ~72:  
SARVER, Edwin J.;SIMMS, James J.~ 33:US ~31:14/686,233 ~32:14/04/2015

2021/03221 ~ Complete ~54:HETEROCYCLIC SPIRO-COMPOUNDS AS AM2 RECEPTOR INHIBITORS  
~71:The University of Sheffield, Firth Court, Western Bank, SHEFFIELD S10 2TN, SOUTH YORKSHIRE,  
UNITED KINGDOM, United Kingdom ~72: GIBSON, Karl Richard;GLOSSOP, Paul Alan;HARRITY, Joseph  
P.A.;PORTER, Roderick Alan;RICHARDS, Gareth;SKERRY, Timothy M.;TOZER, Matthew J.;ZIRIMWABAGABO,  
Jean-Olivier~ 33:GB ~31:1818649.4 ~32:15/11/2018

2021/03229 ~ Complete ~54:CATIONIC LIPIDS CONTAINING SILICON ~71:ARBUTUS BIOPHARMA  
CORPORATION, 100-8900 Glenlyon Parkway , Burnaby, British Columbia, V5J 5J8, Canada ~72: JAMES  
HEYES;KIEU MONG LAM;MARK WOOD;MICHAEL J ABRAMS;RICHARD J HOLLAND~ 33:US  
~31:62/758,108 ~32:09/11/2018

2021/03230 ~ Complete ~54:METHOD FOR REHABILITATING A PIPELINE WITH A LINER ~71:MOCS CIPP  
B.V., Kruisplein 25 A , 3014 DB, Rotterdam, Netherlands ~72: ANANDE BERGMAN;PETER MADLENER~ 33:NL  
~31:2021972 ~32:09/11/2018

2021/03215 ~ Complete ~54:HIGH TEMPERATURE SUPERCONDUCTOR MAGNET ~71:TOKAMAK ENERGY  
LTD, 173 Brook Drive, Milton, Abingdon, United Kingdom ~72: BRITTLES, Greg;KRUIP, Marcel;LANGTRY,  
Tony;SMITH, George~ 33:GB ~31:1816762.7 ~32:15/10/2018;33:GB ~31:1900177.5 ~32:07/01/2019

2021/03218 ~ Complete ~54:ENCAPSULATION OF CYCLOHEXANEDIONES PROCESS AND PRODUCT  
~71:Arysta Lifescience Inc., 15401 Weston Parkway, Suite 150, CARY 27513, NC, USA, United States of  
America ~72: BRANAGHAN, Rachel Louise;MAUDE, Sarah Jane;ZHANG, Hong~ 33:US ~31:62/760,565  
~32:13/11/2018

2021/03197 ~ Provisional ~54:CONTROLLED ACCESS TO A PLURALITY OF APPLICATIONS ~71:DUNCAN,  
Douglas Malcolm, 1344 Spyker Crescent, Stormill, Ext 2, South Africa ~72: DUNCAN, Douglas Malcolm~

2021/03199 ~ Provisional ~54:LOCKS ~71:Blaq Mining Supplies (Pty) Ltd, 17 Bainskloof Street, South Africa ~72:  
PILLAY, Sabashnie;PILLAY, Strinivasan Kisten;PILLAY, Thiroshan Strinivasan~

2021/03207 ~ Complete ~54:MULTI-ANGLE DYNAMIC LOAD EXPERIMENTAL LOADING DEVICE AND  
EXPERIMENTAL METHOD THEREOF ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168  
Taifeng Street, People's Republic of China ~72: CHANG, JUCAI;DING, YU;LI, CHUANMING;SHI,  
WENBAO;XIONG, TENGGEN~ 33:CN ~31:202011260627.2 ~32:12/11/2020

2021/03212 ~ Complete ~54:COMPOSITION COMPRISING A CHOLINE SALT OF A FATTY ACID AND ITS  
USE AS A FUNGICIDE ~71:BIPA NV, Technologielaan 7, Belgium ~72: DE SAEGHER, Johan;FRATI,  
Sandro;NESLER, Andrea;NGUYEN HUU, Son;VERMAETE, Ann~ 33:BE ~31:2018/5821 ~32:23/11/2018

2021/03216 ~ Complete ~54:SPLIT INTERLEUKIN MIMETICS AND THEIR USE ~71:University of Washington,  
4545 Roosevelt Way NE, Suite 400, SEATTLE 98105-4721, WA, USA, United States of America ~72: BAKER,  
David;LAJOIE, Marc Joseph;QUIJANO RUBIO, Alfredo;SILVA MANZANO, Daniel Adriano;ULGE, Umut~ 33:US  
~31:62/770,152 ~32:20/11/2018

2021/03220 ~ Complete ~54:GENERATION OF AN INHALABLE MEDIUM ~71:Nicoventures Trading Limited,  
Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom  
~72: BISHOP, David;HOWARD, Matthew;STOCHAJ, Anna~ 33:GB ~31:1818458.0 ~32:13/11/2018

2021/03228 ~ Complete ~54:CRYSTAL FORMS OF AN ALK2 INHIBITOR ~71:KEROS THERAPEUTICS, INC., 99 Hayden Avenue, Suite 120 (Bldg. E), Lexington, Massachusetts, 02421, United States of America ~72: CATHERINE A EVANS;KRISTA DIAZ;SARAH BETHUNE~ 33:US ~31:62/751,255 ~32:26/10/2018

2021/03211 ~ Complete ~54:ALKANE OXIDATIVE DEHYDROGENATION AND/OR ALKENE OXIDATION ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: SCHOONEBEEK, Ronald, Jan;VAN ROSSUM, Guus~ 33:EP ~31:18211590.7 ~32:11/12/2018

2021/03217 ~ Complete ~54:STABILIZED PRE-FUSION RSV F PROTEINS ~71:Janssen Vaccines & Prevention B.V., Archimedesweg 4, LEIDEN 2333 CN, THE NETHERLANDS, Netherlands ~72: LANGEDIJK, Johannes Petrus Maria~ 33:EP ~31:18205863.6 ~32:13/11/2018

2021/03198 ~ Provisional ~54:VEHICLE ACCESSORY LIFTER ~71:Richard Douglas Chadwick, 120 West Road North, South Africa ~72: Richard Douglas Chadwick~

2021/03225 ~ Complete ~54:DEVICES AND METHODS FOR SLURRY GENERATION ~71:MIRAKI INNOVATION THINK TANK LLC, 44 Brattle Street, 4th Floor, Harvard Square, Cambridge, Massachusetts, 02138, United States of America ~72: CHRISTOPHER VELIS;COLE C VELIS;KAREN MILLER~ 33:US ~31:62/416,484 ~32:02/11/2016

- APPLIED ON 5/13/2021 -

2021/03444 ~ Provisional ~54:CURVIFY JEANS PTY LTD ~71:Danielle Pretorius, 09 Fairways Street, Selection Park, South Africa ~72: Danielle Pretorius~

2021/03264 ~ Complete ~54:METHODS OF TREATING MYELODYSPLASTIC SYNDROME ~71:ALEKSANDRA RIZO, 920 US Route 202, Raritan, New Jersey, 08869, United States of America;GERON CORPORATION, 919 E. Hillsdale Blvd. Suite 250, Foster City, California, 94404, United States of America ~72: ALEKSANDRA RIZO;FEI HUANG;JACQUELINE CIRILLO BUSSOLARI~ 33:US ~31:62/772,861 ~32:29/11/2018;33:US ~31:62/811,271 ~32:27/02/2019;33:US ~31:62/860,557 ~32:12/06/2019

2021/03251 ~ Complete ~54:MULTISPECIFIC BINDING CONSTRUCTS AGAINST CHECKPOINT MOLECULES AND USES THEREOF ~71:Compass Therapeutics LLC, 80 Guest Street, Suite 601, BRIGHTON 02135, MA, USA, United States of America ~72: ALBU, Diana I.;BAKHURU, Pearl;ESKIOCAK, Ugur;GONG, Bing;LEUNG, Cheuk Lun;OLIPHANT, Amanda Frank;RENNARD, Rachel;WOLF, Benjamin Jacob~ 33:US ~31:62/760,801 ~32:13/11/2018;33:US ~31:62/855,580 ~32:31/05/2019;33:US ~31:62/898,991 ~32:11/09/2019;33:US ~31:62/931,478 ~32:06/11/2019

2021/03252 ~ Complete ~54:ADVANCEMENT OF EXHAUSTION, MIGRATION, ADSORPTION AND FIXATION OF DYESTUFF TO THE CELLULOSE MATERIALS ~71:PARTHASARATHY, Prabhakaran, The Managing Director, Jaaii Neem Tech, 123, F, Kamban Nagar, KOMARAPALAYAM 638 183, NAMAKKAL (DT) TAMILNADU, INDIA, India ~72: PARTHASARATHY, Prabhakaran~ 33:IN ~31:201841042721 ~32:14/11/2018

2021/03235 ~ Complete ~54:DOUBLE-LOADING PREVENTION RING ~71:THALES, Tour Carpe Diem, Place des Corolles, Esplanade Nord, COURBEVOIE 92400, FRANCE, France ~72: LATCHOUMAYA, Pascal;RADIGON-LOOTVOET, L&#233;a;REYNAULT, Lionel~ 33:FR ~31:2004744 ~32:14/05/2020

2021/03245 ~ Complete ~54:PROCESSES FOR PRODUCTION OF TUMOR INFILTRATING LYMPHOCYTES AND USES OF THE SAME IN IMMUNOTHERAPY ~71:lovance Biotherapeutics, Inc., 999 Skyway Road, Suite 150, SAN CARLOS 94070, CA, USA, United States of America ~72: MORENO, Maritza Lienlaf;WARDELL, Seth~ 33:US ~31:62/755,954 ~32:05/11/2018;33:US ~31:62/903,585 ~32:20/09/2019



2021/03263 ~ Complete ~54:PLACENTA-DERIVED ALLOGENEIC CAR-T CELLS AND USES THEREOF  
~71:CELULARITY, INC., 33 Technology Drive, Warren, New Jersey, 07059, United States of America ~72:  
KATHY KARASIEWICZ;ROBERT J HARIRI;TIANJIAN LI~ 33:US ~31:62/774,142 ~32:30/11/2018;33:US  
~31:62/878,736 ~32:25/07/2019

2021/03265 ~ Complete ~54:IMPROVED DELIVERY OF LARGE AGENTS ~71:EIRION THERAPEUTICS, INC.,  
25-K Olympia Ave., Suite 200, Woburn, Massachusetts, 01801, United States of America ~72: JONATHAN  
EDELSON~ 33:US ~31:62/774,677 ~32:03/12/2018;33:US ~31:62/789,407 ~32:07/01/2019;33:US  
~31:62/808,274 ~32:20/02/2019

2021/03240 ~ Complete ~54:Q690D THICK PLATE PRODUCED BY ULTRA FAST COOLING PROCESS AND  
MANUFACTURING METHOD ~71:NANJING IRON & STEEL CO., LTD., XiejiaDian Liuhe District Nanjing,  
Jiangsu, People's Republic of China ~72: HOU, ZhongHua;JIANG, Hui;JIANG, ZaiWei;YAN, QiangJun;ZHANG,  
QingHui;ZHANG, YiJie~ 33:CN ~31:201811342554.4 ~32:12/11/2018

2021/03241 ~ Complete ~54:PROCEDURE FOR THE FILLING OF SOLIDS IN PHARMACEUTICAL  
CONTAINERS AND THE SEALING THEREOF UNDER STERILE CONDITIONS ~71:LABORATORIOS  
FARMAC#201;UTICOS ROVI, S.A., C/ Juli#233;n Camarillo, Spain ~72: CEBADERA MIRANDA,  
Elena;GARC#205;A AMO, Mar#237;a;GUTIERRO ADURIZ, Ib#243;n~ 33:ES ~31:P201831060  
~32:02/11/2018

2021/03254 ~ Complete ~54:COMBINATION OF A MCL-1 INHIBITOR AND MIDOSTAURIN, USES AND  
PHARMACEUTICAL COMPOSITIONS THEREOF ~71:Les Laboratoires Servier, 35 rue de Verdun, SURESNES  
92284, FRANCE, France;Novartis AG, Lichtstrasse 35, BASEL 4056, SWITZERLAND, Switzerland ~72:  
HALILOVIC, Ensar;KONOPLEVA, Marina;MORRIS, Erick;SKWARSKA, Anna;WANG, Youzhen~ 33:US  
~31:62/767,007 ~32:14/11/2018;33:US ~31:62/824,515 ~32:27/03/2019;33:US ~31:62/912,160  
~32:08/10/2019

2021/03256 ~ Complete ~54:ANIMAL MODELS, SCREENING METHODS, AND TREATMENT METHODS FOR  
INTRAOCULAR DISEASES OR DISORDERS ~71:ZHUHAI QIWEI BIO-TECHNOLOGY LTD., No. 2522,  
Huandao North Road, People's Republic of China ~72: ZHANG, Yan~ 33:CN ~31:201811351660.9  
~32:14/11/2018;33:WO ~31:PCT/CN2018/118929 ~32:03/12/2018

2021/03261 ~ Complete ~54:EXPANSION OF NATURAL KILLER CELLS AND ILC3 CELLS WITH NOVEL  
AROMATIC COMPOUNDS ~71:CELULARITY, INC., 33 Technology Drive, Warren, New Jersey, 07059, United  
States of America ~72: GUO XUAN;LIN KANG;ROBERT J HARIRI;VANESSA VOSKINARIAN-BERSE;WILLIAM  
VAN DER TOUW;XIAOKUI ZHANG~ 33:US ~31:62/774,114 ~32:30/11/2018

2021/03239 ~ Complete ~54:THICK NM500 WEAR-RESISTANT STEEL AND PRODUCTION METHOD  
THEREFOR ~71:NANJING IRON & STEEL CO., LTD., Xiejadian Liuhe District Nanjing, Jiangsu, People's  
Republic of China ~72: HOU, Zhonghua;JIANG, Hui;JIANG, Zaiwei;WANG, Sheng;WANG, Sicong;YAN,  
Qiangjun;ZHANG, Yijie~ 33:CN ~31:201811342361.9 ~32:12/11/2018

2021/03236 ~ Complete ~54:REACTIVE GROUND TESTING ~71:QMR (IP) Pty Ltd, Unit 10, 7 Boundary St.,  
Australia ~72: CAVANOUGH, Gary Lindsay~ 33:AU ~31:2021900336 ~32:11/02/2021;33:AU ~31:2021201993  
~32:30/03/2021

2021/03246 ~ Complete ~54:SHUTTERING WITH SUPPORTING RING HAVING EXTENDABLE DRAWERS  
~71:Redpath Deilmann GmbH, Haustenbecke 1, DORTMUND 44319, GEORGIA, Georgia ~72: AHLBRECHT,  
Thomas;DIACONU, Gabriel;ROSSOW, Sebastian;SCHELKMANN, Dirk;SIEDENTOPF, Werner~ 33:DE ~31:10  
2018 128 519.1 ~32:14/11/2018

2021/03255 ~ Complete ~54: MULTIFUNCTIONAL, FLAMEPROOFED TRANSMISSION CONTROL MODULE  
~71: AIM IP (PTY) LIMITED, 15 Diamant Street, Extension 4, South Africa ~72: PAULUS JOHANNES AUCAMP~  
33:ZA ~31:2018/07708 ~32:16/11/2018

2021/03242 ~ Complete ~54: FOOD CONTAINER AND DEVICES AND METHODS FOR ATTRACTING  
ENHANCED ATTENTION ~71: THALER, Stephen L., 1767 Waterfall Dr., United States of America ~72: DABUS,  
The invention was autonomously generated by an artificial intelligence~ 33:EP ~31:18275163.6  
~32:17/10/2018;33:EP ~31:18275174.3 ~32:07/11/2018

2021/03260 ~ Complete ~54: PYRIDAZINONE COMPOUNDS AND USES THEREOF ~71: EDGEWISE  
THERAPEUTICS, INC., 3415 Colorado Avenue, Boulder, Colorado, 80303, United States of America ~72: ALAN  
RUSSELL;CHRIS STEELE;KEVIN HUNT;KEVIN KOCH;PAUL WINSHIP;STEPHEN SCHLACHTER~ 33:US  
~31:62/756,553 ~32:06/11/2018

2021/03267 ~ Complete ~54: SYSTEM AND METHOD FOR LIMITING MOBILE DEVICE FUNCTIONALITY IN A  
GEOGRAPHIC AREA ~71: CBROS TECHNOLOGIES, LLC, 2405 Whitehall Circle, Winter Park, Florida, 32792,  
United States of America ~72: DONALD WILLIAMS JR;STEPHEN NELSON MAHAR~ 33:US ~31:16/160,175  
~32:15/10/2018

2021/03243 ~ Complete ~54: METHOD AND APPARATUS FOR PROCESSING MAGNETITE ~71: IB Operations  
Pty Ltd, Level 2, 87 Adelaide Terrace, EAST PERTH 6004, WESTERN AUSTRALIA, AUSTRALIA, Australia ~72:  
HAMILTON, Andrew Graham;LAROSA, Gerald Michael~ 33:AU ~31:2018904331 ~32:14/11/2018;33:AU  
~31:2019902398 ~32:05/07/2019

2021/03244 ~ Complete ~54: METHOD AND APPARATUS FOR PROCESSING MAGNETITE ~71: IB Operations  
Pty Ltd, Level 2, 87 Adelaide Terrace, EAST PERTH 6004, WESTERN AUSTRALIA, AUSTRALIA, Australia ~72:  
HAMILTON, Andrew Graham;LAROSA, Gerald Michael~ 33:AU ~31:2018904333 ~32:14/11/2018;33:AU  
~31:2019902399 ~32:05/07/2019

2021/03247 ~ Complete ~54: METHOD AND APPARATUS FOR PROCESSING MAGNETITE ~71: IB Operations  
Pty Ltd, Level 2, 87 Adelaide Terrace, EAST PERTH 6004, WESTERN AUSTRALIA, AUSTRALIA, Australia ~72:  
HAMILTON, Andrew Graham;LAROSA, Gerald Michael~ 33:AU ~31:2018904334 ~32:14/11/2018;33:AU  
~31:2019902400 ~32:05/07/2019

2021/03249 ~ Complete ~54: NOVEL AMORPHOUS ACTIVE PHARMACEUTICAL INGREDIENTS COMPRISING  
SUBSTANTIALLY AMORPHOUS MESOPOROUS MAGNESIUM CARBONATE ~71: Disruptive Materials Pharma  
AB, c/o Uppsala Science Park, Dag Hammarskjölds Väg 54B, UPPSALA 751 83, SWEDEN, Sweden  
~72: SBERG, Peter;ARVÉN, Otilia;FRYKSTRAND & NGSTRÖM, Sara;LINDMARK,  
Tuulikki~ 33:SE ~31:1851383-8 ~32:07/11/2018;33:US ~31:62/756,628 ~32:07/11/2018

2021/03253 ~ Complete ~54: HETEROCYCLIC SPIRO-COMPOUNDS AS AM2 RECEPTOR INHIBITORS  
~71: The University of Sheffield, Firth Court, Western Bank, SHEFFIELD S10 2TN, SOUTH YORKSHIRE,  
UNITED KINGDOM, United Kingdom ~72: GIBSON, Karl Richard;GLOSSOP, Paul Alan;HARRITY, Josephy  
P.A.;PORTER, Roderick Alan;RICHARDS, Gareth;SKERRY, Timothy M.;TOZER, Matthew J.;ZIRIMWABAGABO,  
Jean-Olivier~ 33:GB ~31:1818651.0 ~32:15/11/2018

2021/03259 ~ Complete ~54: MODIFIED CAS9 PROTEIN, AND USE THEREOF ~71: MODALIS THERAPEUTICS  
CORPORATION, 3-11-5, Nihonbashi-Honcho, Chuo-ku, Tokyo, 1030023, Japan ~72: YUANBO QIN~ 33:US  
~31:62/749,855 ~32:24/10/2018

2021/03262 ~ Complete ~54:AROMATIC COMPOUNDS FOR USE IN ACTIVATING HEMATOPOIETIC STEM AND PROGENITOR CELLS ~71:CELULARITY, INC., 33 Technology Drive, Warren, New Jersey, 07059, United States of America ~72: JAMES EDINGER;ROBERT J HARIRI;XIAOKUI ZHANG~ 33:US ~31:62/774,101 ~32:30/11/2018

2021/03266 ~ Complete ~54:FOOD COMPOSITION ~71:UNILEVER IP HOLDINGS B.V., Weena 455, 3013, AL Rotterdam, Netherlands ~72: ISTV&#192;N SCHMIDT;MARCELL L&#196;SZL&#211; TOTH;MONIKA RENATE SCH&#196;NZEL;WINFRIED SAILER~ 33:EP ~31:18213846.1 ~32:19/12/2018

2021/03238 ~ Complete ~54:METHOD OF CONNECTING A CUSTOMER TO A MERCHANT ~71:NEDBANK LIMITED, 135 Rivonia Road, South Africa ~72: ZUNGU, Mbali Sihle~ 33:ZA ~31:2020/02800 ~32:15/05/2020

2021/03258 ~ Complete ~54:RAIN GUTTER ASSEMBLY ~71:VAN SCHALKWYK, Johannes Cornelius, 40 Boekenhout Street, NELSPRUIT 1200, SOUTH AFRICA, South Africa ~72: VAN SCHALKWYK, Johannes Cornelius;WHITE, Terence Maurice~ 33:ZA ~31:2018/07998 ~32:27/11/2018

2021/03305 ~ Complete ~54:EXPERIMENTAL METHOD FOR CONTINUOUS SEPARATION OF MIXTURE OF GAS-CONTAINING COAL AND WATER ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168 Taifeng Street, People's Republic of China;CHINA UNIVERSITY OF MINING AND TECHNOLOGY, No. 1 Daxue Road, People's Republic of China ~72: CAO, LIWEN;FANG, ZEZHONG;HUANG, HUAZHOU;JIA, JINLONG;LIU, CHANGJIANG;LIU, HUIHU;LIU, SHIQI;SANG, SHUXUN;WANG, BOWEN;WANG, HAIWEN;WANG, RAN;XU, HONGJIE;YANG, JINGFEN;ZHOU, XIAOZHI~ 33:CN ~31:202010636650.0 ~32:03/07/2020

2021/03237 ~ Complete ~54:COMPUTER-IMPLEMENTED METHOD OF CUSTOMER SEGMENTATION AND DYNAMIC PURCHASING PREFERENCE DETERMINATION ~71:NEDBANK LIMITED, 135 Rivonia Road, South Africa ~72: YOUENS, Dylan~ 33:ZA ~31:2020/02798 ~32:15/05/2020;33:ZA ~31:2020/02867 ~32:18/05/2020

2021/03234 ~ Provisional ~54:AUTOMATIC TROLLEY HANDLE CLEANER DEVICE ~71:Tebogo Diphete Jerry Mathosa, 94 Rock Haven Mooikloof Ridge Estate, South Africa ~72: Tebogo Diphete Jerry Mathosa~

2021/03250 ~ Complete ~54:COMPOSITIONS AND METHODS FOR EXPRESSING FACTOR IX ~71:Intellia Therapeutics, Inc., 40 Erie Street, Suite 130, CAMBRIDGE 02139, MA, USA, United States of America;Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Rd., TARRYTOWN 10591, NY, USA, United States of America ~72: FINN, Jonathan Douglas;HUANG, Hon-Ren;KYRATSOUS, Christos;LAI, KehDih;ROY, Moitri;SATTLER, Rachel;WANG, Cheng~ 33:US ~31:62/747,509 ~32:18/10/2018;33:US ~31:62/829,009 ~32:03/04/2019;33:US ~31:62/829,621 ~32:04/04/2019;33:US ~31:62/840,352 ~32:29/04/2019

2021/03248 ~ Complete ~54:METHOD AND APPARATUS FOR PROCESSING MAGNETITE ~71:IB Operations Pty Ltd, Level 2, 87 Adelaide Terrace, EAST PERTH 6004, WESTERN AUSTRALIA, AUSTRALIA, Australia ~72: HAMILTON, Andrew Graham;LAROSA, Gerald Michael~ 33:AU ~31:2018904335 ~32:14/11/2018;33:AU ~31:2019902401 ~32:05/07/2019

2021/03257 ~ Complete ~54:CONTROL CIRCUIT FOR A DETONATOR ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: KOEKEMOER, Andre Louis;KRUGER, Michiel Jacobus;LABUSCHAGNE, Albertus Abraham;MAURISSENS, Daniel Auguste~ 33:ZA ~31:2019/00559 ~32:28/01/2019

- APPLIED ON 5/14/2021 -

2021/03273 ~ Provisional ~54:A ROCK BOLT ~71:RSC MINING (PTY) LTD, 2 TEDSTONE ROAD, South Africa ~72: FRANCESCO, Toschi;STEYN, Johann~

2021/03276 ~ Complete ~54:BIOFLAVONOID COMPOSITIONS AND THEIR USE ~71:ORALDENT LIMITED, 6 Nene Road, Bicton Industrial Park, Kimbolton,, United Kingdom ~72: THOMAS, Howard~ 33:GB ~31:1817005.0 ~32:18/10/2018

2021/03291 ~ Complete ~54:A METHOD FOR MAKING AN ELASTICISED YARN AND FABRIC MANUFACTURED FROM SAID YARN ~71:Candiani S.p.A., Via Arese, 85, ROBECCHETTO CON INDUNO I-20020, ITALY, Italy ~72: CANDIANI, Alberto Primo~ 33:IT ~31:102018000009805 ~32:25/10/2018

2021/03275 ~ Complete ~54:TRANSTHYRETIN (TTR) IRNA COMPOSITIONS AND METHODS OF USE THEREOF FOR TREATING OR PREVENTING TTR-ASSOCIATED DISEASES ~71:ALNYLAM PHARMACEUTICALS, INC., 300 Third Street 3rd Floor, Cambridge, Massachusetts, 02142, United States of America ~72: AMY CHAN;KALLANTHOTTATHIL G RAJEEV;MARTIN MAIER;TRACY ZIMMERMANN;VASANT JADHAV~ 33:US ~31:62/199,563 ~32:31/07/2015;33:US ~31:62/287,518 ~32:27/01/2016

2021/03285 ~ Complete ~54:INHIBITORS OF ALPHA-AMINO-BETA-CARBOXYMUCONIC ACID SEMIALDEHYDE DECARBOXYLASE ~71:TES PHARMA S.R.L., Corso Vannucci, 47, 06121, Perugia, Italy ~72: FRANCESCA DE FRANCO;NICOLA GIACCHE;PARIDE LISCIO;ROBERTO PELLICCIARI~ 33:US ~31:62/769,959 ~32:20/11/2018

2021/03286 ~ Complete ~54:PROCESSES FOR PREPARING NITROSYLATED PROPANEDIOLS, COMPOSITIONS COMPRISING THE SAME, AND MEDICAL USES THEREOF ~71:ATTGENO AB, Gr&#246;nbrinksgatan 10, 11759, Stockholm, Sweden ~72: ALEXANDER BOGDAN EMIL MINIDIS;ANNA LENA ELISABETH MINIDIS;JOHAN SALMAN MALMBERG;KRISTOFER BO INGEMAR NILSSON;LEIF CHRISTOFER ADDING;PER H&#197;KAN AGVALD~ 33:GB ~31:1819298.9 ~32:27/11/2018

2021/03270 ~ Provisional ~54:PATRON MANAGEMENT SYSTEM AND METHOD ~71:Gruvtec (Pty) Ltd, 82 Tamboti Road, La Maison Royale H68, Midrand, 1685, SOUTH AFRICA, South Africa ~72: TSHETLO, Katlego Tsholofelo~

2021/03288 ~ Complete ~54:DEVICE AND METHOD FOR OBSERVING A SCENE COMPRISING A TARGET ~71:SAFRAN ELECTRONICS & DEFENSE, 72-76 rue Henry Farman, 75015, Paris, France ~72: BRICE LERAT;H&#201;LOISE BERTHIER;NICOLAS ROUX~ 33:FR ~31:1871619 ~32:20/11/2018

2021/03292 ~ Complete ~54:9-SUBSTITUTED AMINO TRIAZOLO QUINAZOLINE DERIVATIVES AS ADENOSINE RECEPTOR ANTAGONISTS, PHARMACEUTICAL COMPOSITIONS AND THEIR USE ~71:Merck Sharp & Dohme Corp., 126 East Lincoln Avenue, RAHWAY 07065-0907, NJ, USA, United States of America ~72: ALI, Amjad;CUMMING, Jared;DEMONG, Duane;DENG, Qiaolin;GRAHAM, Thomas H.;HENNESSY, Elisabeth;HOOVER, Andrew J.;LARSEN, Matthew A.;LIU, Kun;LIU, Ping;MANSOOR, Umar Faruk;PAN, Jianping;PLUMMER, Christopher W.;SATHER, Aaron;SWAMINATHAN, Uma;WANG, Huijun;ZHANG, Yonglian~ 33:US ~31:62/774,077 ~32:30/11/2018

2021/03279 ~ Complete ~54:BIOFLAVONOID COMPOSITIONS AND THEIR USE FOR WATER PURIFICATION AND FOOD PRESERVATION ~71:CITROX BIOSCIENCES LIMITED, 6 Nene Road, Bicton Industrial Park, Kimbolton, United Kingdom ~72: THOMAS, Howard~ 33:GB ~31:1817003.5 ~32:18/10/2018

2021/03290 ~ Complete ~54:PACK FOR PREPARING FOOD OR BEVERAGE PRODUCTS ~71:Soci&#233;t&#233; des Produits Nestl&#233; S.A., Avenue Nestl&#233; 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BONACCI, Enzo;DEBEFVE, Elodie;HEYDEL, Christophe S&#233;bastien Paul;RIBEYROL, Amandine;TALON, Christian~ 33:EP ~31:18202634.4 ~32:25/10/2018

2021/03281 ~ Complete ~54:AN OPTIMIZED ACCEPTOR SPLICE SITE MODULE FOR BIOLOGICAL AND BIOTECHNOLOGICAL APPLICATIONS ~71:VIGENERON GMBH, Semmelweisstrasse 3, Germany ~72: BECIROVIC, Elvir;BIEL, Martin;MICHALAKIS, Stylianos~ 33:EP ~31:18214415.4 ~32:20/12/2018

2021/03283 ~ Complete ~54:BATCH INLET AND CLEANING DEVICE FOR GLASS MELTER ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: ROBERT KUHLMAN;SHANE T RASHLEY~ 33:US ~31:16/196,822 ~32:20/11/2018

2021/03271 ~ Provisional ~54:ADVANCED COMPRESSED SMOKE AND LIGHT SENSOR DETECTION SYSTEM ~71:Phenyo Matabane, 246 phase 3 Extension 23, South Africa ~72: Phenyo Matabane~

2021/03278 ~ Complete ~54:CRYSTAL FORM OF MALEATE OF TYROSINE KINASE INHIBITOR AND PREPARATION METHOD THEREFOR ~71:JIANGSU HENGRUI MEDICINE CO., LTD., NO. 7 KUNLUNSHAN ROAD, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE LIANYUNGANG, JIANGSU 222047, CHINA, People's Republic of China ~72: CAO, Yongxing;DU, Zhenxing;MA, Yahui;QIU, Zhenjun;WANG, Jie;WEI, Yanli;YANG, Junran;ZHANG, Quanliang~ 33:CN ~31:201811231321.7 ~32:22/10/2018

2021/03282 ~ Complete ~54:VIDEO SIGNAL ENCODING AND DECODING METHOD, AND APPARATUS THEREFOR ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang'an Dongguan, Guangdong, 523860, People's Republic of China ~72: BAE KEUN LEE~ 33:KR ~31:10-2018-0136262 ~32:08/11/2018;33:KR ~31:10-2018-0167979 ~32:21/12/2018

2021/03289 ~ Complete ~54:APPARATUS AND METHOD FOR ROASTING COFFEE BEANS ~71:Societ  des Produits Nestl  S.A., Avenue Nestl  55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BIGLER, Nicolas;CECCAROLI, Stefano;DUBIEF, Flavien~ 33:EP ~31:18202851.4 ~32:26/10/2018

2021/03306 ~ Complete ~54:PRIMERS FOR RAPID IDENTIFICATION OF LYMANTRIA XYLINA SWINHOE BASED ON CONVENTIONAL PCR TECHNOLOGY, AND APPLICATION AND IDENTIFICATION METHOD THEREOF ~71:CHINESE ACADEMY OF INSPECTION AND QUARANTINE, A3 Gaobeidian North Road, People's Republic of China;FOSHAN CUSTOMS INTEGRATED TECHNOLOGY CENTER, No. 21 Jiangwan 1 Road, People's Republic of China;HANGZHOU CUSTOMS DISTRICT P.R.CHINA, No. 7 Huanglong Road, People's Republic of China;ZHEJIANG ACADEMY OF SCIENCE & TECHNOLOGY FOR INSPECTION&QUARANTINE, No. 2 Wensan Road, People's Republic of China ~72: CHEN, PENGCHENG;CHENG, FAN;HUANG, LINGZHE;LI, KAIBING;REN, YAN;WU, ZHIYI;YU, YANXUE~

2021/03307 ~ Complete ~54:DETECTION METHOD, PRIMERS, AND PROBE FOR GYPSY MOTHS LYMANTRIA DISPAR L. BASED ON TAQMAN-MGB QPCR TECHNOLOGY ~71:CHINESE ACADEMY OF INSPECTION AND QUARANTINE, A3 Gaobeidian North Road, People's Republic of China;GUIZHOU LIGHT INDUSTRY TECHNICAL COLLEGE, No. 3 Dongqing Road, People's Republic of China;ZHEJIANG ACADEMY OF SCIENCE & TECHNOLOGY FOR INSPECTION & QUARANTINE, No. 2 Wensan Road, People's Republic of China ~72: CHENG, FAN;FANG, WENYUAN;REN, YAN;TIAN, HONGWEI;WANG, TAO;WU, YING;WU, ZHIYI;YU, YANXUE~

2021/03274 ~ Complete ~54:A COMPOSITION ~71:VILJOEN, Anna Helena Martha, 89A High Road, South Africa ~72: VILJOEN, Anna Helena Martha~ 33:ZA ~31:2020/02792 ~32:15/05/2020

2021/03284 ~ Complete ~54:3BETA-(BENZYLOXY)-17ALPHA-METHYL-PREGN-5-EN-20-ONE FOR USE IN THE TREATMENT OF COGNITIVE DISORDERS ~71:AELIS FARMA, Institut Fran ois Magendie 146, rue L o Saignat , 33077 , Bordeaux, France;INSERM-INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, 101, rue de Tolbiac 75654, Cedex 13, Paris, France;UNIVERSITE DE BORDEAUX,

35, place Pey Berland, 33000, Bordeaux, France ~72: ALINE MARIGHETTO;ANDR&#201;S OZAITA;DANIELA COTA;GIOVANNI MARSICANO;JEAN-MICHEL REVEST;MATHILDE METNA;MONIQUE VALLEE;PIER-VINCENZO PIAZZA;RAFAEL MALDONADO;SANDY FABRE;ST&#201;PHANIE MONLEZUN~ 33:EP ~31:18306716.4 ~32:18/12/2018

2021/03280 ~ Complete ~54:ACCELERATION PROTECTION TROUSERS ~71:Patrick G. BEYELER, Chemin de la Rupille 5, Switzerland ~72: Patrick G. BEYELER~

2021/03277 ~ Complete ~54:PROGRAMMABLE DNA BASE EDITING BY NME2CAS9-DEAMINASE FUSION PROTEINS ~71:UNIVERSITY OF MASSACHUSETTS, ONE BEACON STREET, 31ST FLOOR, BOSTON, MA 02108, USA, United States of America ~72: EDRAKI, Alireza;GAO, Xin;LIU, Pengpeng;MIR, Aamir;SONTHEIMER, Erik, J.;WOLFE, Scot, A.~ 33:US ~31:62/745,666 ~32:15/10/2018

2021/03287 ~ Complete ~54:HANDHELD LASER -BASED VEHICLE SPEED MEASUREMENT DEVICE INCORPORATING AN AUTOMATIC NUMBER PLATE RECOGNITION (ANPR) FUNCTION ~71:KAMA-TECH (HK) LIMITED, 33 Canton Road Tower 3, 9th floor Suite 4 Tsim Sha Tsui, Hong Kong, People's Republic of China;LASER TECHNOLOGY, INC., 6912 South Quentin Street, Centennial, Colorado, 80112, United States of America ~72: JEREMY G DUNNE;JI YOON CHUNG~ 33:US ~31:62/769,803 ~32:20/11/2018

2021/03272 ~ Provisional ~54:STERILISATION OF AIR ~71:CHEMICAL WATER DIGITAL (PTY) LTD, Unit 4, Themba Business Park, 86/90 Marseilles Crescent, South Africa ~72: SEWPERSAD, Nolan Stephen~

2021/03293 ~ Complete ~54:SYSTEM FOR ELECTROCOATING CONDUCTIVE SUBSTRATES ~71:PPG Industries Ohio, Inc., 3800 West 143rd Street, CLEVELAND 44111, OH, USA, United States of America ~72: BETHOSKI, Judith A.;FOLLET, Mark L.;HARRISON, Amy E.;HUTCHINSON, Tammy L.;SCHWARTZ, Brent A.;SCHWENDEMAN, Irina G.;SIEFER, Dennis J.~ 33:US ~31:62/745,494 ~32:15/10/2018

- APPLIED ON 5/17/2021 -

2021/03297 ~ Provisional ~54:COOLING UNIT SUITABLE FOR SOLAR PANELS USED IN TRANSPORT REFRIGERATION ~71:TSHWANE UNIVERSITY OF TECHNOLOGY, Staatsartillerie Street, South Africa ~72: HUAN, Zhongjie~

2021/03317 ~ Complete ~54:AUTOMATED GENERATION OF MACHINE LEARNING MODELS ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: DEBADEEPTA DEY;ERIC J HORVITZ;HANZHANG HU;JOHN C LANGFORD;RICHARD A CARUANA~ 33:US ~31:16/213,470 ~32:07/12/2018

2021/03320 ~ Complete ~54:COMPOSITIONS CONTAINING INOSITOL-STABILIZED ARGININE SILICATE COMPLEXES AND INOSITOL FOR IMPROVING COGNITIVE FUNCTION IN VIDEO GAMERS ~71:NUTRITION 21, LLC, 500 Mamaroneck Ave., Suite 510, Harrison, New York, 10528, United States of America ~72: JAMES R KOMOROWSKI~ 33:US ~31:62/755,093 ~32:02/11/2018

2021/03328 ~ Complete ~54:ORAL HEALTH MODEL FOR HIGH THROUGHPUT SCREEN AND CHARACTERIZATION OF ORAL HYGIENE PRODUCTS ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: DAEP, Carlo;MASTERS, James;TRIVEDI, Harsh Mahendra;YANG, Ying;ZENOBIA, Camille~ 33:US ~31:62/785,097 ~32:26/12/2018

2021/03308 ~ Complete ~54:HEATER ~71:STONE ARCH CREATIONS CC, NO 21 ENGELBRECHT STREET, OAKLANDS, South Africa ~72: OPPERMAN, EUGENE~

2021/03304 ~ Provisional ~54:EXERCISE SYSTEM USING AUGMENTED REALITY ~71:LIESL CELESTE BRIEL, 313 REMSKOEN STREET, South Africa;LOUWRENS JAKOBUS BRIEL, 313 REMSKOEN STREET, South Africa ~72: LIESL CELESTE BRIEL;LOUWRENS JAKOBUS BRIEL~

2021/03310 ~ Complete ~54:ANTIBODIES AND METHODS OF USE ~71:GENENTECH, INC., 1 DNA Way, South San Francisco, California, 94080-4990, United States of America ~72: CHRISTOPH SPIESS;HOK SEON KIM;JAMES ERNST;JUNICHIRO SONODA;SCOTT STAWICKI;YAN WU;YONGMEI CHEN~ 33:US ~31:61/920,396 ~32:23/12/2013;33:US ~31:62/081,435 ~32:18/11/2014

2021/03314 ~ Complete ~54:DETONATOR SENSING ARRANGEMENT ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: BIRKIN, Christopher Malcolm;KOEKEMOER, Andre Louis;KRUGER, Michiel Jacobus;MAURISSENS, Daniel Auguste;MICHNA, Richard Joseph~ 33:ZA ~31:2019/00561 ~32:28/01/2019

2021/03312 ~ Complete ~54:UREA DERIVATIVES FOR TREATING AND/OR PREVENTING CANCER ~71:CENTRE NATIONAL D&#200; LA RECHERCHE SCIENTIFIQUE, 3 RUE MICHEL ANGE, 75016 PARIS, FRANCE, France;INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, 101 RUE DE TOLBIAC, 75013 PARIS, FRANCE, France;UNIVERSITE C&#212;TE D&#39;AZUR, 28, AVENUE VALROSE, 06100 NICE, FRANCE, France;UNIVERSITE DE PARIS, 85, BOULEVARD SAINT-GERMAIN, 75006, PARIS, FRANCE, France ~72: BENHIDA, Rachid;DEMANGE, Luc;DUFIES, Maeva;GRYTSAL, Oleksandr;PAGES, Gilles;RONCO, Cyril~ 33:EP ~31:18306362.7 ~32:17/10/2018

2021/03313 ~ Complete ~54:MICROPARTICLE COMPOSITION COMPRISING AN ORGANIC IR ABSORBING PIGMENT ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: DORMANN, Korinna;FUCHS, Yannick;OSCHMANN, Bernd, Dieter;REICHEL, Helmut;REICHERT, Hans;SEEGER, Oliver;STAFF, Roland, Hinrich~ 33:EP ~31:18201244.3 ~32:18/10/2018

2021/03298 ~ Provisional ~54:CUSTOMER MANAGEMENT SYSTEM ~71:EATEZY (PTY) LTD, 138 WEST STREET, South Africa ~72: JONISHIA NETTY THOMAS~

2021/03321 ~ Complete ~54:METHOD FOR MATERIAL ADDITIVE MANUFACTURING OF AN INORGANIC FILTER SUPPORT AND RESULTING MEMBRANE ~71:TECHNOLOGIES AVANCEES ET MEMBRANES INDUSTRIELLES, ZA Les Laurons, 26110, Nyons, France ~72: J&#201;R&#212;ME ANQUETIL;PHILIPPE LESCOCHE~ 33:FR ~31:1871947 ~32:27/11/2018

2021/03299 ~ Provisional ~54:FIRE STARTER ~71:RAPITRADE 616 (PTY) LTD, UNIT 4B INNOVATION CENTRE, ERF 9208 2 MESON STREET, TECHNO PARK, South Africa ~72: SEAN BELMAN~

2021/03323 ~ Complete ~54:VIDEO SIGNAL ENCODING AND DECODING METHOD, AND APPARATUS THEREFOR ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang&#39;an, Dongguan, People's Republic of China ~72: LEE, Bae Keun~ 33:KR ~31:10-2018-0136261 ~32:08/11/2018

2021/03303 ~ Provisional ~54:PIPE JOINT ASSEMBLY ~71:SCHOLTZ, Johann, 2 Osborn Road, South Africa ~72: SCHOLTZ, Johann~

2021/03326 ~ Complete ~54:DENTIFRICE CONTAINING SODIUM BICARBONATE AND STANNOUS FLUORIDE ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: EVANS, Lauren;HU, Zhichao;PAPPAS, Iraklis;PATEL, Neeta Atul;THOMSON, Paul~ 33:US ~31:62/783,028 ~32:20/12/2018

2021/03300 ~ Provisional ~54:SCAFFOLDING HOIST ~71:Werner Mc Seveney, 13 BOSKRAAI AVENUE, NINAPARK, South Africa ~72: Werner Mc Seveney~

2021/03327 ~ Complete ~54:STABLE STANNOUS ORAL CARE PRODUCT ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: HAO, Zhigang;MYERS, Carl;PAPPAS, Iraklis;TANG, Sadie~ 33:US ~31:62/784,253 ~32:21/12/2018;33:US ~31:62/861,679 ~32:14/06/2019

2021/03329 ~ Complete ~54:TUMOR-TARGETED AGONISTIC CD28 ANTIGEN BINDING MOLECULES ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: FAUTI, Tanja;GASSER, Stephan;GEORGES, Guy;HOFER, Thomas;HOSSE, Ralf;KLEIN, Christian;MOESSNER, Ekkehard;SAM, Johannes;THOM, Jenny Tosca;UMA#209;A, Pablo;VALLIER, Jean-Baptiste Pierre~ 33:EP ~31:18215121.7 ~32:21/12/2018;33:EP ~31:19187709.1 ~32:23/07/2019;33:EP ~31:19196006.1 ~32:06/09/2019

2021/03302 ~ Provisional ~54:TREATMENT OF RESPIRATORY CONDITIONS ~71:AFRIGEN BIOLOGICS (PTY) LTD, Building J, SAMRC Medicina Campus, Francie van Zijl Drive, Parow Valley, Cape Town 7505, Western Cape, SOUTH AFRICA, South Africa ~72: BOUKES, Gerhard;FENNER, Caryn;WILLENBURG, Elize~

2021/03316 ~ Complete ~54:PULSE CODE MODULATION TECHNIQUE IN VIDEO PROCESSING ~71:BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., ROOM B-0035 2/F NO.3 BUILDING NO.30 SHIXING ROAD SHIJINGSHAN DISTRICT, BEIJING, 100041, People's Republic of China;BYTEDANCE INC., 12655 West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California, 90066, United States of America ~72: HONGBIN LIU;JIZHENG XU;KAI ZHANG;LI ZHANG;YUE WANG~ 33:CN ~31:PCT/CN2018/116885 ~32:22/11/2018

2021/03318 ~ Complete ~54:AUTOMATED REAL-TIME HIGH DYNAMIC RANGE CONTENT REVIEW SYSTEM ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: CHARLES CLAUDIUS MARAIS~ 33:US ~31:16/211,003 ~32:05/12/2018

2021/03325 ~ Complete ~54:COMPOSITION AND METHODS FOR REGULATING CHONDROCYTE PROLIFERATION AND INCREASING OF CARTILAGE MATRIX PRODUCTION ~71:4Moving Biotech, Campus de I#39;Institut Pasteur de Lille, 1 rue du Professeur Calmette, LILLE 59000, FRANCE, France;Sorbonne Universite, 21 rue de l'&#201;cole de M&#233;decine, PARIS 75006, FRANCE, France ~72: BERENBAUM, Francis;RATTENBACH, Revital~ 33:IB ~31:2018/059100 ~32:19/11/2018

2021/03322 ~ Complete ~54:METHOD FOR MATERIAL ADDITIVE MANUFACTURING OF AN INORGANIC FILTER SUPPORT FROM A HOT-MELT COMPOSITION AND RESULTING MEMBRANE ~71:TECHNOLOGIES AVANCEES ET MEMBRANES INDUSTRIELLES, ZA Les Laurons, 26110, Nyons, France ~72: J&#201;R&#212;ME ANQUETIL;PHILIPPE LESCOCHE~ 33:FR ~31:1871952 ~32:27/11/2018

2021/03301 ~ Provisional ~54:YIELDING SQUARE BOLT ~71:Theodore Daniel Swemmer, PO Box 75746, South Africa ~72: Theodore Daniel Swemmer~

2021/03309 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING A COMBINATION OF SITAGLIPTIN AND METFORMIN AND METHOD OF PREPARATION THEREOF ~71:PHARMATHEN S.A., 6 DERVENAKION STREET, 15351 PALLINI ATTIKIS, GREECE, Greece ~72: FOUSTERIS, Manolis;KAKOURIS, Andreas;KALASKANI, Anastasia;KARAVAS, Evangelos;KOUTRI, Ioanna;KOUTRIS, Efthymios;SAMARA, Vasiliki~



2021/03311 ~ Complete ~54:ANTI-IL-36 ANTIBODIES AND METHODS OF USE THEREOF ~71:23ANDME, INC., 223 North Mathilda Ave., Sunnyvale, California, United States of America ~72: BHARILL, Shashank;FUH-KELLY, Germaine;KARRER, Erik, Edward;LEE, Chingwei, Vivian;PATEL, Ashka;SCHARF, Louise;THAI, Tina~ 33:US ~31:62/784,316 ~32:21/12/2018

2021/03315 ~ Complete ~54:FOUNDATION FOR WIND TURBINE TOWERS ~71:HWS CONCRETE TOWERS, S.L., PORTUETXE BIDEA N&#186; 37 2 OF 8, Spain ~72: Jes&#250;s MONTANER FRAG&#220;ET;Jos&#233; Manuel SORAZU ECHAVE;Mariano P&#201;REZ ABAD&#205;A~

2021/03319 ~ Complete ~54:ANTIBODY FORMULATION ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany;GENMAB A/S, Kalvebod Brygge 43, 1560, Copenhagen V, Denmark ~72: ALEXANDER MUIK;DAVID SATIJN;FRIEDERIKKE GIESEKE;ISIL ALTINTAS;PAUL PARREN;RIK RADEMAKER;UGUR SAHIN~ 33:EP ~31:PCT/EP2018/080369 ~32:06/11/2018

2021/03324 ~ Complete ~54:PHARMACEUTICAL COMPOSITION FOR ORAL ADMINISTRATION COMPRISING AMINOPYRIMIDINE DERIVATIVE OR ITS SALT ~71:Yuhan Corporation, 74, Noryangjin-ro, Dongjak-gu, SEOUL 06927, REPUBLIC OF KOREA, Republic of Korea ~72: KIM, Seongkyu;KIM, Soo-Won;LEE, Deokkyu;PARK, Yoong-Sik;YANG, Jun-Mo~ 33:KR ~31:10-2018-0124171 ~32:18/10/2018

- APPLIED ON 5/18/2021 -

2021/03334 ~ Provisional ~54:SAFETY BARRIER ~71:DREAM AFRICAN FOUNDATION (PTY) LTD, 1 GARDENIA ROAD, South Africa ~72: MAKHETHA, Sipiwe~

2021/03336 ~ Complete ~54:AN INTELLIGENT MONITORING SYSTEM FOR AGRICULTURAL GREENHOUSES ~71:QINGDAO AGRICULTURAL UNIVERSITY, NO. 700 CHANGCHENG ROAD, CHENGYANG DISTRICT, People's Republic of China ~72: LEI ZHAO~

2021/03345 ~ Complete ~54:SYSTEMS AND METHODS FOR GENERATING LIQUID WATER USING HIGHLY EFFICIENT TECHNIQUES THAT OPTIMIZE PRODUCTION ~71:Source Global, PBC, 7825 South Hardy Dr., TEMPE 85284, AZ, USA, United States of America ~72: FRIESEN, Cody;FRIESEN, Grant;LORZEL, Heath;MCGUINNESS, Kimberly;SALLOUM, Kamil~ 33:US ~31:62/748,285 ~32:19/10/2018;33:US ~31:62/772,393 ~32:28/11/2018

2021/03349 ~ Complete ~54:COMPOUNDS USEFUL IN HIV THERAPY ~71:GlaxoSmithKline Intellectual Property Development Limited, 980 Great West Road, BRENTFORD TW8 9GS, MIDDLESEX, UNITED KINGDOM, United Kingdom;The University of North Carolina at Chapel Hill, 109 Church Street, CHAPEL HILL 27516, NC, USA, United States of America;ViiV Healthcare Company, 251 Little Falls Drive, WILMINGTON 19808, DE, USA, United States of America ~72: DE LA ROSA, Martha Alicia;DUNHAM, Richard M;MARGOLIS, David;TAI, Vincent Wing-Fai;TANG, Jun~ 33:US ~31:62/773,563 ~32:30/11/2018

2021/03361 ~ Complete ~54:TEMPERATURE MEASUREMENT SYSTEM FOR BLANK MOLDS IN GLASSWARE FORMING MACHINES ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43351, United States of America ~72: MICHAEL S THACKER~ 33:US ~31:16/196,857 ~32:20/11/2018

2021/03344 ~ Complete ~54:AEROSOL DELIVERY DEVICE ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: DAUGHERTY, Sean A.;GALLOWAY, Michael Ryan;HOLT, Justin;NOVAK, III, Charles Jacob~ 33:US ~31:62/769,296 ~32:19/11/2018;33:US ~31:16/674,502 ~32:05/11/2019

2021/03356 ~ Complete ~54:HERBICIDAL COMBINATION ~71:DELSANTRO, Mark Vincent, 75 Ramblewood Drive, GLENMORE 19343, PA, USA, United States of America;SEARS, Beth Erickson, 100 Wilson Drive, Lincoln University, 19352, PA, USA, United States of America;SHROFF, Jaidev Rajnikant, 206, Swiss Tower, Cluster Y, Jumeirah Lake Towers, P.O. Box: 33421, DUBAI 33421, UNITED ARAB EMIRATES, United Arab Emirates;SHROFF, Vikram Rajnikant, 206, Swiss Tower, Cluster Y, Jumeirah Lake Towers, P.O. Box: 33421, DUBAI 33421, UNITED ARAB EMIRATES, United Arab Emirates;UPL Limited, Agrochemical Plant, Durgachak, Midnapore Dist., HALDIA 721 602, WEST BENGAL, INDIA, India ~72: DELSANTRO, Mark Vincent;SEARS, Beth Erickson;SHROFF, Jaidev Rajnikant;SHROFF, Vikram Rajnikant~ 33:US ~31:62/760,149 ~32:13/11/2018

2021/03357 ~ Complete ~54:EXON SKIPPING OLIGOMER CONJUGATES FOR MUSCULAR DYSTROPHY ~71:Sarepta Therapeutics, Inc., 215 First Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: BESTWICK, Richard K.;CAI, Baozhong;DESAI, Ankur;SCHNELL, Frederick Joseph~ 33:US ~31:62/779,028 ~32:13/12/2018

2021/03350 ~ Complete ~54:ANTI-IGF-I RECEPTOR HUMANIZED ANTIBODY ~71:Teijin Pharma Limited, 2-1, Kasumigaseki 3-chome, Chiyoda-ku, TOKYO 100-0013, JAPAN, Japan ~72: EGUCHI, Hiroshi;HIGUCHI, Hirofumi;ISHIKAWA, Daisuke;KATO, Hirotsugu;NAMIKI, Naoko;OHORI, Masayo;TAKAGI, Kenichiro;TAKEO, Tomoyo;TANOKURA, Akira;YAMAMURA, Satoshi~ 33:JP ~31:2018-226669 ~32:03/12/2018

2021/03367 ~ Complete ~54:ROPE TRANSMISSION STRUCTURE, SOLAR ENERGY TRACKER AND APPLICATION METHOD THEREOF ~71:SUN, Yijun, Sun Village, Lihua Administrative Village, Xuanmiao Town, Dangshan County Suzhou, People's Republic of China ~72: LI, Yanglin;SUN, Haitao;WANG, Hepeng;YAN, Jianguo;YANG, Zhongjun~ 33:CN ~31:201811220221.4 ~32:19/10/2018

2021/03348 ~ Complete ~54:COMPOUNDS FOR USE AS THERAPEUTICALLY ACTIVE SUBSTANCES IN THE TREATMENT AND/OR PREVENTION OF NEURORETINAL DISEASES ~71:endogena therapeutics, inc., 111 Pine Street, SAN FRANCISCO 94111, CA, USA, United States of America ~72: FASCHING, Bernhard;MARIGO, Mauro;MOKADY, Daphna;MUELLER, Alex;STEGER, Matthias~ 33:US ~31:16/235,543 ~32:28/12/2018

2021/03355 ~ Complete ~54:MICROBIOCIDAL 2-ACYLAMINO-THIAZOLE-4-CARBOXAMIDE DERIVATIVES ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BLUM, Mathias;BURNS, David;LAMBERTH, Clemens;MONACO, Mattia Riccardo;RENDINE, Stefano~ 33:EP ~31:18209586.9 ~32:30/11/2018

2021/03332 ~ Provisional ~54:ROCK TREPANNING HEAD ~71:THE B&#220;HRMANN TRUST, Plot 33, The Riverside Estates, South Africa ~72: B&#220;HRMANN, Rudolph~

2021/03366 ~ Complete ~54:COMPOSITION FOR TREATING DIABETES BASED ON CHINESE MEDICAL NUTRITION THERAPY AND APPLICATION OF COMPOSITION ~71:LIU, Dongbo, 86 Buildings In Bafang Community, Yuelu District, Hunan, People's Republic of China ~72: LAI, Xihu;LI, Jian;LIU, Dongbo;WU, Ruiyu~ 33:CN ~31:201910568238.7 ~32:27/06/2019

2021/03333 ~ Provisional ~54:INTELLIGENT HOT BEVERAGE MAKER ~71:UNIVERSAL BRAND GROUP (PTY) LIMITED, 375 Rivonia Boulevard, Sandton, Johannesburg, South Africa ~72: Ho Hiu Wai;Lui Wing Kit~

2021/03338 ~ Complete ~54:DETERGENT COMPOSITIONS AND USES THEREOF ~71:Novozymes A/S, Kroghshoejvej 36, BAGSVAERD 2880, DENMARK, Denmark ~72: JENSEN, Johanne M.;SALOMON, Jesper;SEGURA, Dorotea Raventos;VEJBORG, Rebecca Munk~ 33:EP ~31:17165340.5 ~32:06/04/2017;33:EP ~31:17199397.5 ~32:31/10/2017

2021/03339 ~ Complete ~54:A DISINFECTING DEVICE ~71:MEYER, Carel Sias, 30 Kwarts Street, Stellenridge, South Africa ~72: MEYER, Carel Sias~ 33:ZA ~31:2020/03060 ~32:25/05/2020

2021/03342 ~ Complete ~54:DETONATOR CONSTRUCTION ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: BIRKIN, Christopher Malcolm;JURRAS III, Mark Ivan;KOEKEMOER, Andre Louis;KRUGER, Michiel Jacobus;MICHNA, Richard Joseph~ 33:ZA ~31:201/00554 ~32:28/01/2020

2021/03360 ~ Complete ~54:A BUCKET FOR AN EARTH-WORKING OR MATERIALS-HANDLING MACHINE ~71:SSAB TECHNOLOGY AB, PO Box 70, 101 21, Stockholm, Sweden ~72: BRIAN COULSON~ 33:EP ~31:18211071.8 ~32:07/12/2018

2021/03364 ~ Complete ~54:PACKAGING PRODUCT ~71:UNILEVER IP HOLDINGS B.V., Weena 455, 3013, AL Rotterdam, Netherlands ~72: ATAHAN &#214;ZG&#220;NAY;PEDZINSKI~ 33:EP ~31:18212071.7 ~32:12/12/2018

2021/03330 ~ Provisional ~54:FREESTANDING OVEN ~71:Richard Douglas Chadwick, 120 West Road North, South Africa ~72: Richard Douglas Chadwick~

2021/03331 ~ Provisional ~54:AGRICULTURAL SPRAYER ~71:ROVIC INTERNATIONAL (PTY) LTD, Saxenburg Road, Blackheath, South Africa ~72: DE BROUWER, Kyle;RAS, Marthinus Christoffel David~

2021/03335 ~ Provisional ~54:MONITORING DEVICE AND METHOD ~71:SHAW, Shane, 6 Poortview Gardens, Vieira Road, Amorosa, ROODEPOORT 1724, Gauteng, SOUTH AFRICA, South Africa ~72: SHAW, Shane~

2021/03341 ~ Complete ~54:LIGHT SENSITIVE ARRANGEMENT FOR A DETONATOR ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: KOEKEMOER, Andre Louis;KRUGER, Michiel Jacobus;LABUSCHAGNE, Albertus Abraham;MAURISSENS, Daniel Auguste~ 33:ZA ~31:2019/00556 ~32:28/01/2020

2021/03343 ~ Complete ~54:FIBROBLAST GROWTH FACTOR 21 (FGF21) GENE THERAPY ~71:UNIVERSITAT AUTONOMA DE BARCELONA, Edifici A, Campus Universitari s/n, Spain ~72: BOSCH TUBERT, Maria F&#224;tima;ELIAS PUIGDOM&#200;NECH, Ivet;GRASS COSTA, Ignasi;JIMENEZ CENZANO, Veronica;RIBERA S&#193;NCHEZ, Albert~ 33:EP ~31:18382857.3 ~32:26/11/2018

2021/03347 ~ Complete ~54:THE METHOD OF EFFICIENT SIGNALLING OF CBF FLAGS ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, GUANGDONG 518129, SHENZHEN, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianle;CHERNYAK, Roman Igorevich;IKONIN, Sergey Yurievich;ZHAO, Yin~ 33:US ~31:62/812,282 ~32:01/03/2019;33:US ~31:62/817,498 ~32:12/03/2019;33:US ~31:62/825,005 ~32:27/03/2019;33:IB ~31:2019/064224 ~32:31/05/2019

2021/03351 ~ Complete ~54:2-FORMYL-3-HYDROXYPHENYLOXYMETHYL COMPOUNDS CAPABLE OF MODULATING HEMOGLOBIN ~71:Global Blood Therapeutics, Inc., 181 Oyster Point Boulevard, Suite 300, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: LI, Zhe~ 33:US ~31:62/769,196 ~32:19/11/2018;33:US ~31:62/821,314 ~32:20/03/2019;33:US ~31:62/848,773 ~32:16/05/2019;33:US ~31:62/883,313 ~32:06/08/2019

2021/03354 ~ Complete ~54:MOBILE PANEL CLEANER ~71:Steam Tech, LLC, 1600 Broadway, Suite 1600, DENVER 80202, CO, USA, United States of America ~72: HARTMAN, James L.;HARTMAN, Philip J.~ 33:US ~31:62/771,755 ~32:27/11/2018;33:US ~31:16/694,954 ~32:25/11/2019

2021/03340 ~ Complete ~54:HIGH-MELT-STRENGTH POLYPROPYLENE MATERIAL AND PREPARATION METHOD AND APPARATUS THEREOF ~71:GUIZHOU INSTITUTE OF MATERIALS INDUSTRY TECHNOLOGY, GUIZHOU SCIENCE CITY, NO. 3491, BAIJIN AVENUE, BAIYUN DISTRICT, People's Republic of China ~72: HUANG, Anrong;JIANG, Tuanhui;LUO, Shanshan;SHI, Min;SUN, Jing~

2021/03346 ~ Complete ~54:METHOD FOR CONTROLLING THE OPERATION OF A MACHINE FOR HARVESTING ROOT CROPS ~71:Grimme Landmaschinenfabrik GmbH & Co. KG, Hunteburger Stra&#223;e 32, DAMME 49401, GERMANY, Germany ~72: B&#214;SENBERG, Daniel;STROTHMANN, Wolfram~ 33:DE ~31:10 2018 127 845.4 ~32:07/11/2018

2021/03353 ~ Complete ~54:ANTAGONISTIC CD40 MONOCLONAL ANTIBODIES AND USES THEREOF ~71:Bristol-Myers Squibb Company, Rt. 206 & Province Line Road, PRINCETON 08543, NJ, USA, United States of America ~72: KRYSTEK, Jr., Stanley R.;NAYEEM, Akbar;RAKESTRAW, Ginger;STRUTHERS, Mary;YAMNIUK, Aaron~ 33:US ~31:62/769,514 ~32:19/11/2018

2021/03363 ~ Complete ~54:SAVOURY COMPOSITION ~71:UNILEVER IP HOLDINGS B.V., Weena 455, 3013, AL Rotterdam, Netherlands ~72: MARCELO CAMILO DE OLIVEIRA;WINFRIED SAILER~ 33:EP ~31:18214751.2 ~32:20/12/2018

2021/03359 ~ Complete ~54:A BUCKET FOR AN EARTH-WORKING OR MATERIALS-HANDLING MACHINE ~71:SSAB TECHNOLOGY AB, PO Box 70, 101 21, Stockholm, Sweden ~72: BRIAN COULSON~ 33:EP ~31:18211069.2 ~32:07/12/2018

2021/03337 ~ Complete ~54:AN AGRICULTURAL INTELLIGENT SEEDLING DEVICE ~71:QINGDAO AGRICULTURAL UNIVERSITY, No.700 Changcheng Road, Chengyang District, People's Republic of China ~72: LEI ZHAO~

2021/03352 ~ Complete ~54:PUNCHING DEVICE AND MULTI-CHANNEL CAN LID PUNCHING SYSTEM ~71:Suzhou SLAC Precision Equipment Co., Ltd, No.621 Shixu Road, Xukou Town, Wuzhong, SUZHOU 215156, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: SHAO, Shichao;WANG, Bingsheng;XIONG, Kang;YANG, Donghai;YAO, Yao;ZHANG, Xuejing~ 33:CN ~31:201811324381.3 ~32:08/11/2018

2021/03358 ~ Complete ~54:METHOD FOR PRODUCING A COFFEE BEVERAGE IN A COFFEE MACHINE ~71:JURA ELEKTROAPPARATE AG, Kaffeeweltstrasse 10, 4626, Niederbuchsiten, Switzerland ~72: PHILIPP B&#220;TTIKER~ 33:EP ~31:18202645.0 ~32:25/10/2018

2021/03362 ~ Complete ~54:FOOD ARTICLE ~71:UNILEVER IP HOLDINGS B.V., Weena 455, 3013, AL Rotterdam, Netherlands ~72: ANJA KUNKEL;ANNA WONG;AO SHU;HOUYU XIE;REGINE WEIMAR;TANJA GRUDKE-KATSCHUS;YAN LIANG;ZHE HUO~ 33:EP ~31:18214412.1 ~32:20/12/2018;33:CN ~31:PCT/CN2019/088783 ~32:28/05/2019;33:CN ~31:PCT/CN2019/088784 ~32:28/05/2019;33:EP ~31:19182192.5 ~32:25/06/2019

2021/03365 ~ Complete ~54:METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND DEVICE THEREFOR ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang&#39;an, People's Republic of China ~72: LEE, Bae Keun~ 33:KR ~31:10-2018-0136249 ~32:08/11/2018;33:KR ~31:10-2018-0136306 ~32:08/11/2018

- APPLIED ON 5/19/2021 -

2021/03368 ~ Provisional ~54:THE RECOVERY OF MNO<sub>2</sub> FROM AQUEOUS SOLUTION ~71:GERARD PRETORIUS FAMILIE TRUST, 97 Broadbury Circle, Cornwall Hill Estate, IRENE 0178, Gauteng Province, SOUTH AFRICA, South Africa ~72: PRETORIUS, Gerard~

2021/03373 ~ Complete ~54:MAGNETOHYDRODYNAMIC HYDROGEN ELECTRICAL POWER GENERATOR ~71:BRILLIANT LIGHT POWER, INC., 493 Old Trenton Road, Cranbury, United States of America ~72: MILLS, Randell~ 33:US ~31:62/794,515 ~32:18/01/2019;33:US ~31:62/803,283 ~32:08/02/2019;33:US ~31:62/823,541 ~32:25/03/2019;33:US ~31:62/828,341 ~32:02/04/2019;33:US ~31:62/839,617 ~32:27/04/2019;33:US ~31:62/844,643 ~32:07/05/2019

2021/03382 ~ Complete ~54:SINGLE-PIECE SHOWER HEAD ~71:GARC&#205;A VILLARREAL, Marco Antonio, Prol. Pino Su&#225;rez 2730 Nte. Col. Bella Vista Monterrey, Nuevo Le&#243;n, 64410, Mexico, Mexico ~72: GARC&#205;A VILLARREAL, Marco Antonio~ 33:WO ~31:PCT/MX2018/000107 ~32:19/10/2018

2021/03386 ~ Complete ~54:IRAK DEGRADERS AND USES THEREOF ~71:Kymera Therapeutics, Inc., 300 Technology Square, 2nd Floor, CAMBRIDGE 02139, MA, USA, United States of America ~72: JI, Nan;KLUGE, Arthur F.;MAINOLFI, Nello;WEISS, Matthew M.;ZHANG, Yi;ZHENG, Xiaozhang~ 33:US ~31:62/774,051 ~32:30/11/2018;33:US ~31:62/788,460 ~32:04/01/2019;33:US ~31:62/793,992 ~32:18/01/2019;33:US ~31:62/826,743 ~32:29/03/2019;33:US ~31:62/831,007 ~32:08/04/2019;33:US ~31:62/851,427 ~32:22/05/2019;33:US ~31:62/868,574 ~32:28/06/2019;33:US ~31:62/875,347 ~32:17/07/2019;33:US ~31:62/879,117 ~32:26/07/2019

2021/03399 ~ Complete ~54:RADIOIMMUNOCONJUGATES AND DNA DAMAGE AND REPAIR INHIBITOR COMBINATION THERAPY ~71:FUSION PHARMACEUTICALS INC., 270 Longwood Road South, Hamilton, Ontario, L8P 0A6, Canada ~72: ERIC STEVEN BURAK;JOHN FITZMAURICE VALLIANT;JOHN RICHARD FORBES;MEIDUO HU~ 33:US ~31:62/774,847 ~32:03/12/2018

2021/03379 ~ Complete ~54:A LYOPHILIZED COMPOSITION OF PEGASPARGASE ~71:GENNOVA BIOPHARMACEUTICALS LIMITED, Block 1, Plot No. P-1 & P-2, I.T.B.T. Park, Phase II, MIDC, Hinjawadi, India ~72: AGARWAL, Praveen Kumar;MUKHERJEE, Tathagata;SINGH, Sanjay~ 33:IN ~31:201821048859 ~32:24/12/2018

2021/03384 ~ Complete ~54:METHOD FOR CONTROLLING DISEASES IN SMALL GRAIN CEREALS, SEED OF SMALL GRAIN CEREALS, AND METHOD FOR SUPPRESSING LODGING DAMAGE IN SMALL GRAIN CEREALS ~71:Kumiai Chemical Industry Co., Ltd., 4-26, Ikenohata 1-chome, Taito-ku, TOKYO 1108782, JAPAN, Japan ~72: NAGATA, Toshihiro;OZAKI, Koichi;SUZUKI, Satomi~ 33:JP ~31:2018-205757 ~32:31/10/2018

2021/03376 ~ Complete ~54:SCHEDULING APPARATUS AND METHOD ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: BUTT, Naveed;DI TARANTO, Rocco;GULDOGAN, Mehmet, Burak;GUNTUPALLI, Lakshmikanth;HIERTZ, Guido, Roland;LOPEZ, Miguel;SUNDMAN, Dennis;WILHELMSSON, Leif~

2021/03407 ~ Provisional ~54:PREV LEAK SMART MANHOLE COVER ~71:Thulani khumalo, 520a Mntungwa Street Zola 3, South Africa ~72: Thulani khumalo~

2021/03390 ~ Complete ~54:ANTI-ALPHA-SYNUCLEIN ANTIBODIES AND USES THEREOF ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46206-6288, IN, USA, United States of America ~72: CROY, Johnny Eugene;HAYASHI, Mansuo Lu;LU, Jirong;MA, Bo;TANG, Ying~ 33:US ~31:62/779,505 ~32:14/12/2018

2021/03393 ~ Complete ~54:METHOD FOR PREPARING READILY PROCESSABLE, THERMALLY-STABLE, PHOSPHORUS-CONTAINING FLAME RETARDANT MATERIAL ~71:LANXESS Corporation, 111 RIDC Park

West Drive, PITTSBURGH 15275, PA, USA, United States of America ~72: HE, Qingliang;LEE, Julia Yue~ 33:US  
~31:62/782,907 ~32:20/12/2018

2021/03401 ~ Complete ~54:CELLULOSE RAW MATERIAL AND METHOD FOR RECYCLING A CELLULOSE  
RAW MATERIAL FROM BLENDED TEXTILE WASTE ~71:LENZING AKTIENGESELLSCHAFT,  
Werkstra&#223;e 2, 4860, Lenzing, Austria ~72: CHRISTIAN WEILACH;CHRISTOPH KLAUS-  
NIETROST;RICHARD HERCHL~ 33:EP ~31:18215489.8 ~32:21/12/2018

2021/03370 ~ Provisional ~54:WEDGE ARRANGEMENT FOR A FRICTION ANCHOR AND RELATED METHOD  
OF MANUFACTURE ~71:DI MATTEO, Marco, 19 Monte Bello, Shongweni Street, Lakefield Ext. 21, BENONI  
1501, Gauteng, SOUTH AFRICA, South Africa ~72: DI MATTEO, Marco~

2021/03372 ~ Complete ~54:METHOD FOR EVALUATING IMPACT OF HYDRO-JUNCTION ON FISH HABITAT  
BASED ON IN-SITU TRACE ELEMENTS IN OTOLITH MICRO-AREA ~71:SHANGHAI OCEAN UNIVERSITY,  
NO. 999 HUCHENG RING ROAD, PUDONG NEW DISTRICT, People's Republic of China ~72: FANG,  
Xueyan;LI, Jianhua;LIU, Bilin;LIU, Yaqiu;ZHU, Shuli~

2021/03391 ~ Complete ~54:A CIRCUIT CHIP AND A METHOD OF OPERATING IT ~71:Thales DIS France SA,  
6, rue de la Verrerie, MEUDON 92190, FRANCE, France ~72: CHAPPELLIER, S&#233;bastien;FOO, Yong  
Jie;RANTI, Mario-Locas;WANG-ZW, Jervis~ 33:EP ~31:18306538.2 ~32:21/11/2018

2021/03392 ~ Complete ~54:COMBINATION THERAPY OF ARMS AND NATURAL KILLER CELLS ~71:Kleo  
Pharmaceuticals, Inc., 25 Science Park, Suite 2D, 150 Munson Street, NEW HAVEN 06511, CT, USA, United  
States of America ~72: BUNIN, Anna;RASTELLI, Luca~ 33:US ~31:62/783,036 ~32:20/12/2018

2021/03397 ~ Complete ~54:MOULD POWDER AND MOULD COATING ~71:Elkem ASA, Drammensveien 169,  
OSLO 0277, NORWAY, Norway ~72: GUILLEMIN, Fran&#231;ois;TOUMI, Mourad~ 33:FR ~31:1872082  
~32:29/11/2018

2021/03400 ~ Complete ~54:DEVICE AND METHOD FOR MICRODROPLET DETECTION OF CELLS  
~71:LIGHTCAST DISCOVERY LTD, Broers Building 21-22 J J Thomson Avenue, Cambridge, CB3 0FA, United  
Kingdom ~72: CAMERON FRAYLING;TOM ISAAC~ 33:EP ~31:18207377.5 ~32:20/11/2018;33:EP  
~31:18207379.1 ~32:20/11/2018;33:GB ~31:1909514.0 ~32:02/07/2019

2021/03405 ~ Complete ~54:SEALING STRUCTURE ~71:RIFENG ENTERPRISE (FOSHAN) CO., LTD., F1-F14,  
No. 1 Rifeng Road, Leping Town, Sanshui District, Foshan, People's Republic of China;RIFENG ENTERPRISE  
GROUP CO., LTD., 8/F, Rifeng Building, No. 16 Zumiao Road, Foshan, People's Republic of China ~72: CAO,  
Huijian;CHEN, Ali;CHEN, Wenfeng;CHENG, Jiajia;DIAO, Zhenbin;LI, Ximin;LIN, Xiyong~ 33:CN  
~31:201911124319.4 ~32:15/11/2019

2021/03377 ~ Complete ~54:TRICYCLIC PESTICIDAL COMPOUNDS ~71:BASF SE, CARL BOSCH STRASSE  
38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: KUZMINA, Olesya;NARINE, Arun;SHAIKH,  
Rizwan Shabbir;VON DEYN, Wolfgang;VYAS, Devendra~ 33:EP ~31:18202072.7 ~32:23/10/2018

2021/03385 ~ Complete ~54:COMPUTER ENHANCEMENTS FOR INCREASING SERVICE GROWTH SPEED  
~71:CLEMENTS, Douglas Logan Darrow, 300 Chapman Street, MORRISTOWN 13664 , NY, USA, United States  
of America ~72: CLEMENTS, Douglas Logan Darrow~ 33:US ~31:16/181,018 ~32:05/11/2018

2021/03388 ~ Complete ~54:MICROBIOCIDAL THIAZOLE DERIVATIVES ~71:Syngenta Participations AG,  
Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BLUM, Mathias;BURNS, David;EDMUNDS,

Andrew;LAMBERTH, Clemens;MONACO, Mattia Riccardo;RENDINE, Stefano~ 33:EP ~31:18209591.9  
~32:30/11/2018

2021/03395 ~ Complete ~54:DEVICE AND METHOD FOR AUTHENTICATING AN INDIVIDUAL ~71:IN-IDT, 104  
avenue du Pr&#233;sident Kennedy, PARIS 75016, FRANCE, France ~72: CREMER, Sandra;LAMBLIN,  
Thibaut~ 33:FR ~31:1871991 ~32:28/11/2018

2021/03402 ~ Complete ~54:BUILDING PANEL ASSEMBLY AND METHOD OF MANUFACTURING ~71:4WALL  
IP LTD, Suite 208, Second Floor, Sham Peng Tong Plaza, PO Box 1028 , Victoria, Mahe, Seychelles ~72:  
CHRISTOPHER MOSS;NICHOLAS EDWARDS~ 33:GB ~31:1818717.9 ~32:16/11/2018

2021/03396 ~ Complete ~54:WEAR ASSEMBLY ~71:ESCO Group LLC, 2141 NW 25th Avenue, PORTLAND  
97210-2578, OR, USA, United States of America ~72: BEATLEY, Mark T.;BINGHAM, Bruce C.;BROCKMAN,  
Cornelius J.;HARDING, Darrin;ROSKA, Michael B.~ 33:US ~31:62/753,675 ~32:31/10/2018

2021/03404 ~ Complete ~54:COMPOSITION AND METHOD FOR TREATING THE LUNGS ~71:HOAG, George  
Edward, 69 Summit Road, United States of America;SALERNO, John, 345 East 37th Street, United States of  
America ~72: HOAG, George Edward;SALERNO, John~ 33:US ~31:62/749,446 ~32:23/10/2018

2021/03375 ~ Complete ~54:CATALYST-ADSORBENT FILTER FOR AIR PURIFICATION ~71:BAF  
CORPORATION, 100 PARK AVENUE, FLORHAM PARK, 07932, USA, United States of America ~72: CHEN,  
Chen;GU, Ting~ 33:CN ~31:PCT/CN2018/111425 ~32:23/10/2018

2021/03387 ~ Complete ~54:ELECTROSURGICAL INSTRUMENT ~71:Creo Medical Limited, Creo House Unit 2,  
Beaufort Park, Beaufort Park Way, CHEPSTOW NP16 5UH, WALES, UNITED KINGDOM, United Kingdom ~72:  
HANCOCK, Christopher Paul;PRESTON, Shaun;TAPLIN, William;ULLRICH, George~ 33:GB ~31:1819683.2  
~32:03/12/2018

2021/03398 ~ Complete ~54:SINGLE-USE CASSETTE ASSEMBLY ~71:ENESI PHARMA LIMITED, 120  
A&B Olympic Avenue Milton Park, Abingdon, Oxfordshire, OX14 4SA, United Kingdom ~72: DAVID  
GRANT;JOSHUA COYNE;OWEN RYAN;PASCAL LAUNOIS~ 33:GB ~31:1819059.5 ~32:22/11/2018

2021/03374 ~ Complete ~54:TRANSCATHETER ANCHORING ASSEMBLY FOR A MITRAL VALVE, A MITRAL  
VALVE, AND RELATED METHODS ~71:OPUS MEDICAL THERAPIES, LLC, 1252 SWIMS VALLEY DRIVE,  
ATLANTA, GA 30327, USA, United States of America ~72: LIO, Yenchin;RAJAGOPAL, Vivek;SARABIA, Jaime,  
Eduardo~ 33:US ~31:62/748,563 ~32:22/10/2018

2021/03381 ~ Complete ~54:TWO-SIDE UNLOADING HOPPER CAR ~71:CRRC MEISHAN CO., LTD.,  
Chongren Town, Dongpo District, Meishan, Sichuan, 620032, People's Republic of China ~72: HAN,  
Jingang;HUANG, Rui;LI, Dong;LI, Jianchao;LI, Junsheng;LI, Xinhui;LU, Qiang;WANG, Aimin;WANG, Yi;XIE,  
Lin;XUE, Hailian;YANG, Shiwei;YANG, Yanping;YUAN, Liang;ZHANG, Ruiguo;ZHAO, Shouxin;ZHONG,  
Xiaofeng~ 33:CN ~31:201811512092.6 ~32:11/12/2018

2021/03383 ~ Complete ~54:BULKY NONWOVEN FABRIC WITH ENHANCED COMPRESSIBILITY AND  
RECOVERY ~71:PFN - GIC A.S., Prmeticka 3623/86, Czech Republic;PFNONWOVENS CZECH S.R.O,  
Prmeticka 3623/86, Czech Republic;REIFENH&#196;USER GMBH & CO. KG MASCHINENFABRIK,  
Spicher Strasse 46, Germany ~72: Frantisek KLASKA;Jana KROUTILOVA;Michael MAAS;Pavlina  
KASPARKOVA;Tobias WAGNER;Zdenek MECL~

2021/03403 ~ Complete ~54:COMPOSITION AND METHOD FOR PREVENTING OR REDUCING LOW SPEED  
PRE-IGNITION IN SPARK-IGNITED INTERNAL COMBUSTION ENGINES ~71:CHEVRON ORONITE

COMPANY LLC, 6001 Bollinger Canyon Road, San Ramon, California, 94583, United States of America;CHEVRON U.S.A. INC., 6001 Bollinger Canyon Road, San Ramon, California, 94583, United States of America ~72: AMIR GAMAL MARIA;IAN G ELLIOTT;RICHARD EUGENE CHERPECK;THERESA LIANG GUNAWAN~ 33:US ~31:62/767,686 ~32:15/11/2018;33:US ~31:16/362,157 ~32:22/03/2019;33:US ~31:16/578,819 ~32:23/09/2019

2021/03406 ~ Complete ~54:AN AGRICULTURAL WORK VEHICLE ~71:AGRO INTELLIGENCE APS, Agro Food Park 13, Denmark ~72: GREEN, Ole;J&#198;GER, Claus D&#252;hring;JUUL, Jacob Pilegaard;ZNOVA, Liubava~ 33:DK ~31:PA 2018 00917 ~32:27/11/2018

2021/03371 ~ Provisional ~54:SLEEP MONK AFRICAN TOP PRINT ~71:Thabo Serame, 9 Methwold Dr, Mulbarton, South Africa ~72: Thabo Serame~ 33:ZA ~31:1 ~32:18/05/2021

2021/03378 ~ Complete ~54:NETWORK NODE AND METHOD FOR IDENTIFYING USER EQUIPMENT NON-COMPLIANT WITH MODIFIED CRS OPERATION IN WIRELESS COMMUNICATION NETWORK ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: ALMANSA-VALVERDE, Sergio;CERCEL, Gabriel;KHAN, Waqas, Nawaz;NYBERG, Andr&#233;;PJANIC, Dino;SAARNAK, Fredrik~

2021/03369 ~ Provisional ~54:CUPBOARD REPAIR PLATE ~71:Darryl Jonathan Marc Laing, 82 Hesperus rd,, South Africa;Ferdinand van Zyl, 82 Hesperus rd, 82, South Africa ~72: Darryl Jonathan Marc Laing;Ferdinand van Zyl~

2021/03380 ~ Complete ~54:SUBSTITUTED 1,2,4-OXADIAZOLE, ITS APPLICATION AND A PHARMACEUTICAL PREPARATION COMPRISING IT ~71:SVENOX PHARMACEUTICALS LLC, 6151 N Winthrop Ave, Suite 907, United States of America ~72: HRABALEK, Alexandr;KARABANOVICH, Galina;KLIMESOVA, Vera;PAVEK, Petr;ROH, Jaroslav~ 33:CZ ~31:PV 2018-664 ~32:30/11/2018

2021/03389 ~ Complete ~54:LIFTER BAR ~71:Vulco S.A., San Jos&#233; N&#176; 815, SAN BERNARDO 8081682, SANTIAGO DE CHILE, CHILE, Chile ~72: LARA, H&#233;ctor;MORENO, Victor;PINTO, Alonso~ 33:GB ~31:1821262.1 ~32:28/12/2018

2021/03394 ~ Complete ~54:METHOD OF PREPARING PHOSPHORUS-CONTAINING FLAME RETARDANTS AND THEIR USE IN POLYMER COMPOSITIONS ~71:LANXESS Corporation, 111 RIDC Park West Drive, PITTSBURGH 15275, PA, USA, United States of America ~72: BONYHADY, Simon J.;HE, Qingliang;LEE, Julia Yue;SHARMA, Ramesh~ 33:US ~31:62/782,948 ~32:20/12/2018;33:US ~31:62/923,446 ~32:18/10/2019

- APPLIED ON 5/20/2021 -

2021/03426 ~ Complete ~54:CYCLONIC AIR FILTRATION EQUIPMENT ~71:BIBBY, Darren Richard, 36A Elgin Road, Bryanston, JOHANNESBURG 2021, SOUTH AFRICA, South Africa ~72: BIBBY, Darren Richard~ 33:ZA ~31:2020/00390 ~32:21/01/2020

2021/03440 ~ Complete ~54:DEVICE AND METHOD FOR APPLYING COVER SHEETS TO ENDS OF TUBULAR SECTIONS PREFORMED INTO CROSS BOTTOMS ~71:STARLINGER & CO GESELLSCHAFT M.B.H., Sonnenuhrgasse 4, Austria ~72: GRABENWEGER, Markus;GRILL, Hannes~ 33:EP ~31:18213037.7 ~32:17/12/2018

2021/03413 ~ Complete ~54:SEATING STRUCTURES ~71:GOMES, Fernandos, 13 Ivungu Terrace, Uvongo, South Africa ~72: GOMES, Fernandos~ 33:ZA ~31:2020/01093 ~32:21/02/2020



2021/03419 ~ Complete ~54:ENERGY STORAGE ROLLING CAPACITY CHECK INCLUDING IN-SITU LIFE MODEL COMPARISON ~71:GENERAL ELECTRIC COMPANY, 1 River Road, United States of America ~72: KALITAN, Danielle;NICHOLS, Jason M.~

2021/03427 ~ Complete ~54:SYRINGE SUITABLE FOR HYDROGEN PEROXIDE SOLUTION AND KIT THEREOF ~71:KORTUC INC., Shiroyama Trust Tower, 4F, 4-3-1 Toranomom, Minato-ku , Tokyo, 1056004, Japan ~72: SHOGO YAMASHITA~ 33:JP ~31:2018-215913 ~32:16/11/2018;33:JP ~31:2019-022388 ~32:12/02/2019;33:JP ~31:2019-115440 ~32:21/06/2019

2021/03433 ~ Complete ~54:METHOD FOR PREPARING N-PHENYLPYRAZOLE-1-CARBOXAMIDES ~71:FMC AGRO SINGAPORE PTE. LTD., 77 Robinson Road, #13-00, Robinson 77, Singapore, 068896, Singapore;FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: STEVEN T BOOTH~ 33:US ~31:62/774,436 ~32:03/12/2018

2021/03434 ~ Complete ~54:MIXTURES AND COMPOSITIONS COMPRISING 5-FLUORO-4-IMINO-3-METHYL-1-TOSYL-3,4-DIHYDROPYRIMIDIN-2-ONE, AND METHODS OF USE THEREOF ~71:ADAMA MAKHTESHIM LTD., P.O. Box 60, Beer-Sheva, 8410001, Israel ~72: JAMES SLOAN;JENNY LERNER YARDENI;NOAM SHEFFER;SAMI SHABTAI~ 33:US ~31:62/755,866 ~32:05/11/2018

2021/03423 ~ Complete ~54:EFFECTIVE FOAM CONTROL ON PROCESS BEET WASHING WATER BY AUTOMATIC APPLICATION OF ANTIFOAM ~71:BUCKMAN LABORATORIES INTERNATIONAL, INC., 1256 NORTH MCLEAN BLVD., MEMPHIS, TENNESSEE 38108-1241, USA, United States of America ~72: MAGNESS, Bret;MASCIA, Marco, Ulisse;SMITH, Ivan~ 33:US ~31:62/770,283 ~32:21/11/2018;33:US ~31:62/833,242 ~32:12/04/2019

2021/03417 ~ Complete ~54:LEVEL METER ~71:InterEnviroCon GmbH, Spitzweggasse 2, Germany ~72: Frank PUSTLAUCK;Johannes BOISSER~#201;E;Prof. Dr. Oswald BLUMENSTEIN~

2021/03439 ~ Complete ~54:METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND APPARATUS THEREFOR ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang~#39;an, People's Republic of China ~72: LEE, Bae Keun~ 33:KR ~31:10-2018-0136255 ~32:08/11/2018;33:KR ~31:10-2018-0148890 ~32:27/11/2018;33:KR ~31:10-2018-0149064 ~32:27/11/2018

2021/03415 ~ Complete ~54:ELECTRONIC SMOKING ARTICLE WITH ALTERNATIVE AIR FLOW PATHS ~71:ALTRIA CLIENT SERVICES LLC, 6601 West Broad Street, Richmond, Virginia, 23230, United States of America ~72: ERIC HAWES;SRINIVASAN JANARDHAN;YEZDI B PITHAWALLA~ 33:US ~31:61/857,931 ~32:24/07/2013

2021/03429 ~ Complete ~54:RADIOIMMUNOCONJUGATES AND CHECKPOINT INHIBITOR COMBINATION THERAPY ~71:FUSION PHARMACEUTICALS INC., 270 Longwood Road South, Hamilton, Ontario, L8P 0A6, Canada ~72: ERIC STEVEN BURAK;JOHN FITZMAURICE VALLIANT;JULIE METCALF;MEIDUO HU;NATALIE GRINSHTEIN~ 33:US ~31:62/774,847 ~32:03/12/2018

2021/03432 ~ Complete ~54:RECOMBINANT VIRAL VECTORS AND NUCLEIC ACIDS FOR PRODUCING THE SAME ~71:STRIDE BIO, INC., 5 Laboratory Drive, Suite 1200, Research Triangle, North Carolina, 27709, United States of America ~72: DARBY THOMAS;DAVID DISMUKE~ 33:US ~31:62/770,202 ~32:21/11/2018

2021/03408 ~ Provisional ~54:GREENER METHODS FOR THE ENANTIOSELECTIVE CHEMOENZYMATIC SYNTHESIS OF DULOXETINE AND ANALOGUES ~71:Daniel Petzer Pienaar, 262 Carina Street, South Africa ~72: Daniel Petzer Pienaar~ 33:ZA ~31:Not assigned yet, first filing ~32:19/05/2021

2021/03410 ~ Provisional ~54:ANTI THEFT SYSTEM & DEVICE ~71:Susanna Helena WOLFOWITZ, 18 Neels Street, Hartenbos, South Africa ~72: WOLFOWITZ, Steven Alan~

2021/03412 ~ Provisional ~54:ANTIVIRAL LOTION ~71:COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, Meiring Naud&#233; Road, South Africa ~72: Kabamba ALEXANDRE~

2021/03418 ~ Complete ~54:ANELLOSOMES AND METHODS OF USE ~71:FLAGSHIP PIONEERING INNOVATIONS V, INC., 55 Cambridge Parkway, 8th Floor, Suite 800E, United States of America ~72: DELAGRAVE, Simon;DIAZ, Fernando, Martin;KAHVEJIAN, Avak;LEBO, Kevin, James;NAWANDAR, Dhananjay, Maniklal;PITTS, Jared David;TEDSTONE, Ryan, D.;WEINSTEIN, Erica Gabrielle;YOZWIAK, Nathan, Lawrence~ 33:US ~31:62/778,841 ~32:12/12/2018;33:US ~31:62/778,866 ~32:12/12/2018

2021/03420 ~ Complete ~54:MICROCAPSULE COMPOSITION, METHOD FOR MANUFACTURING SAME, AGROCHEMICAL FORMULATION COMPRISING SAME AND WEED CONTROL METHOD ~71:Kumiai Chemical Industry Co., Ltd., 4-26, Ikenohata 1-chome, Taito-ku, TOKYO 1108782, JAPAN, Japan ~72: OKADA, Yuya~ 33:JP ~31:2018-205756 ~32:31/10/2018

2021/03424 ~ Complete ~54:ADVANCED PHOSPHOROUS RECOVERY PROCESS AND PLANT ~71:CAMBI TECHNOLOGY AS, Postboks 78, Norway ~72: HOLTE, Hans Rasmus;RINGOOT, Davy P.M.~ 33:EP ~31:18207649.7 ~32:21/11/2018;33:EP ~31:18211017.1 ~32:07/12/2018

2021/03435 ~ Complete ~54:SUBSTITUTED PYRAZOLOPYRIMIDINES AND SUBSTITUTED PURINES AND THEIR USE AS UBIQUITIN-SPECIFIC-PROCESSING PROTEASE 1 (USP1) INHIBITORS ~71:KSQ THERAPEUTICS, INC., 610 Main Street North, 4th Floor, Cambridge, Massachusetts, 02139, United States of America ~72: ANDREW ALISTAIR WYLIE;ELSA BEYER KRALL;JEHROD BURNETT BRENNEMAN;MICHAEL SCHLABACH~ 33:US ~31:62/783,014 ~32:20/12/2018;33:US ~31:62/799,423 ~32:31/01/2019;33:US ~31:62/857,986 ~32:06/06/2019;33:US ~31:62/868,616 ~32:28/06/2019;33:US ~31:62/946,263 ~32:10/12/2019

2021/03443 ~ Complete ~54:MONITORING MACHINE BRAKE PERFORMANCE ~71:CATERPILLAR SARL, Route de Frontenex 76 1208, Switzerland ~72: DE HASETH, Andrew;LATHAN, Raymond;MACDONALD, Ian;MENOLD, Rodney;SCHWARTZ, Timothy;SONO, Shinya;WISLEY, David~ 33:GB ~31:1819077.7 ~32:23/11/2018

2021/03428 ~ Complete ~54:THERMAL ENERGY STORAGE ASSEMBLY ~71:AZELIO AB, Forsbrogatan 4 662 34 &#197;m&#229;l, Sweden ~72: DANIEL GLOSS;ERIK RILBY;HENRIK WIKSTR&#214;M;TORBJ&#214;RN LINDQUIST~ 33:SE ~31:1851338-2 ~32:29/10/2018;33:SE ~31:1851339-0 ~32:29/10/2018;33:SE ~31:1950569-2 ~32:14/05/2019

2021/03442 ~ Complete ~54:A HERBAL MEDICINE COMPOSITIONS FOR TREATMENT OF DENGUE AND THEIR PRODUCTION ~71:DE LA SALLE MEDICAL AND HEALTH SCIENCES INSTITUTE, Governor D. Manguhat Avenue Dasmarinas, Philippines;PHARMALYTICS CORPORATION, 3rd Floor Zhang Building, Blk. 9 Lot 13 Metro South Subdivision, Manggahan Gen. Trias City, Cavite, Philippines ~72: ALVERO, Rita Grace~ 33:PH ~31:12019000387 ~32:08/10/2019

2021/03409 ~ Provisional ~54:APPARATUS FOR USE IN A WIRELESS DETONATOR SYSTEM ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: BOTHA, Marius Christo;LIEBENBERG, Abraham Johannes;MEYER, Tielman Christian;MULLER, Elmar Lennox;SMITH, Ruan~

2021/03421 ~ Complete ~54:ANTIBODIES TO HUMAN COMPLEMENT FACTOR C2B AND METHODS OF USE ~71:argenx BVBA, Industriepark 7, 9052, ZWINJAARDE, BELGIUM, Belgium ~72: BLANCHETOT, Christophe;DE HAARD, Hans~ 33:US ~31:62/779,102 ~32:13/12/2018

2021/03438 ~ Complete ~54:HEAVY MACHINERY LIFTING APPARATUS, HEAVY MACHINERY LIFTING ASSEMBLY AND METHOD FOR ASSEMBLING A LIFT FOR HEAVY MACHINERY ~71:8082464 CANADA INC., 1800 rue Semple - # 203, Canada ~72: BELLEY, Robin;BIENVENU, Charles-&#201;tienne;SYLVESTRE, Patrick~ 33:US ~31:62/770,877 ~32:23/11/2018

2021/03425 ~ Complete ~54:COLD ROLLED AND ANNEALED STEEL SHEET, METHOD OF PRODUCTION THEREOF AND USE OF SUCH STEEL TO PRODUCE VEHICLE PARTS ~71:ARCELORMITTAL, 24-26, Boulevard d&#39;Avranches, Luxembourg ~72: Ir&#232;ne DE DIEGO CALDERON;Jean-Christophe HELL~

2021/03430 ~ Complete ~54:POLYMER-ACTIVE INGREDIENT CONJUGATE ~71:CSIR, Scientia, Mering Naud&#233; Road, Brummeria, 0184, Pretoria, South Africa ~72: LESEGO LOVIUS TSHWEU;MOHAMMED OLUSEGUN BALOGUN;WILLIAM MORWA REAGILE MATSHE~

2021/03431 ~ Complete ~54:BIS-OCTAHYDROPHENANTHRENE CARBOXAMIDE DERIVATIVES AND PROTEIN CONJUGATES THEREOF FOR USE AS LXR AGONISTS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591-6707, United States of America ~72: AMY HAN;ANDREW J MURPHY;JESPER GROMADA;MATTHEW SLEEMAN;SOKOL HAXHINASTO;VIKTORIA GUSAROVA;WILLIAM OLSON~ 33:US ~31:62/769,946 ~32:20/11/2018

2021/03441 ~ Complete ~54:IMAGE SIGNAL ENCODING/DECODING METHOD, AND APPARATUS THEREFOR ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang&#39;an, People's Republic of China ~72: LEE, Bae Keun~ 33:KR ~31:10-2018-0136308 ~32:08/11/2018;33:KR ~31:10-2018-0148874 ~32:27/11/2018

2021/03411 ~ Provisional ~54:PORTABLE FLUORESCENCE DETECTOR ~71:COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, Meiring Naud&#233; Road, South Africa ~72: Kabamba ALEXANDRE~

2021/03436 ~ Complete ~54:DUAL-ROUTE ADMINISTRATION OF COMPOSITION FOR IMPROVED PROTECTION OF PLANTS AGAINST PATHOGENS ~71:GRACE BREEDING LTD., 11b Reik Haviva Street, Kfar Saba, 4428327, Israel ~72: AMIT AVIDOV;AVNER BARAZANI~ 33:US ~31:62/748,480 ~32:21/10/2018

2021/03414 ~ Complete ~54:FLEXIBLE PULSE DIAGNOSIS HAND AND TRADITIONAL CHINESE MEDICINE PULSE DIAGNOSIS INSTRUMENT ~71:SHANDONG UNIVERSITY, NO. 17923, JINGSHI ROAD, LIXIA DISTRICT JINAN, SHANDONG 250061, CHINA, People's Republic of China ~72: DONG, Xin;JIANG, Qi~ 33:CN ~31:2020109155696 ~32:03/09/2020

2021/03422 ~ Complete ~54:EPCAM ANTIBODIES, ACTIVATABLE ANTIBODIES, AND IMMUNOCONJUGATES, AND USES THEREOF ~71:CYTOMX THERAPEUTICS, INC., 151 OYSTER POINT BOULEVARD, SUITE 400, SOUTH SAN FRANCISCO, CALIFORNIA 94080, USA, United States of America;IMMUNOGEN, INC., 830 WINTER STREET, WALTHAM, MASSACHUSETTS 02451, USA, United States of America ~72: CHAN, Chanty, Mariategue;CHITTENDEN, Thomas;FOX, Ellaine, Anne, Mariano;GUIDI, Cynthia, J.;HICKS, Stuart, W.;KOHLLI, Neeraj;LAMBERT, John;LIU, Yimao;PAIDHUNGAT, Madan, M.;SAGERT, Jason, Gary;TIPTON, Kimberly, Ann~ 33:US ~31:62/751,530 ~32:26/10/2018;33:US ~31:62/824,539 ~32:27/03/2019;33:US ~31:62/846,297 ~32:10/05/2019

2021/03437 ~ Complete ~54:NOVEL SULFURIC ACID PROCESS TITANIUM OXIDE WATER WASHING PROCESS AND SYSTEM ~71:SHANGHAI ANHORN ENVIRONMENTAL TECHNOLOGY CO., LTD., Block B,

Building 2 No. 145, Jintang Rd., Pudong District, People's Republic of China ~72: LI, Haibo;SHAN, Xianglei;YANG, Jizhi~ 33:CN ~31:201811253442.1 ~32:25/10/2018

2021/03416 ~ Complete ~54:POLYCYCLIC TLR7/8 ANTAGONISTS AND USE THEREOF IN THE TREATMENT OF IMMUNE DISORDERS ~71:MERCK PATENT GMBH, Frankfurter Strasse 250, 64293, Darmstadt, Germany ~72: BRIAN A SHERER;NADIA BRUGGER~ 33:US ~31:62/268,765 ~32:17/12/2015;33:US ~31:62/353,603 ~32:23/06/2016

- APPLIED ON 5/21/2021 -

2021/03449 ~ Provisional ~54:PRODUCTION OF STRAIGHT WIRE SECTIONS ~71:COCHRANE STEEL PRODUCTS (PTY) LTD, 125 Fitter Road, Spartan, South Africa;COCHRANE STEEL PRODUCTS (PTY) LTD, 125 Fitter Road, Spartan, South Africa ~72: COCHRANE, Richard Bruce~

2021/03451 ~ Provisional ~54:MAKARAPA ~71:Prince Sifiso Mahlangu, 22417 Msheledi Street, South Africa ~72: Prince Sifiso Mahlangu~

2021/03459 ~ Complete ~54:TEMPERATURE CONTROL IN AN AEROSOL DELIVERY DEVICE ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: DAUGHERTY, Sean A.;FINDIKLI, Nadi;FRISBEE, Mark;GALLOWAY, Michael Ryan;HENRY, JR., Raymond Charles;LAMB, Wilson Christopher;NOVAK, III, Charles Jacob;WOOD, Jason L.~ 33:US ~31:62/769,296 ~32:19/11/2018;33:US ~31:62/911,595 ~32:07/10/2019;33:US ~31:16/668,929 ~32:30/10/2019

2021/03445 ~ Provisional ~54:ONLINE COMMUNICATION METHOD ~71:KING, JUNAID LIVERD, 62 TAURUS STREET, South Africa ~72: KING, JUNAID LIVERD~

2021/03447 ~ Provisional ~54:FOOD INK ~71:UNIVERSITY OF JOHANNESBURG, Cnr. Kingsway and University Roads, Auckland Park, South Africa ~72: ADEBO, Oluwafemi Ayodeji;KESA, Hema;KEWUYEMI, Yusuf Olamide~

2021/03461 ~ Complete ~54:ROLLER SHAFT WITH A REINFORCEMENT ~71:BESTADOM S.R.O., KOŠKOV 76, 59501 VELKÝ TEŠ, CZECHIA, Czech Republic ~72: KLIMEŠ, Petr;MULLIE, Bernard~ 33:CZ ~31:CZ2018-585 ~32:29/10/2018

2021/03466 ~ Complete ~54:GLP-1R AGONISTS AND USES THEREOF ~71:Qilu Regor Therapeutics Inc., Building 10, No. 1206, Zhangjiang Road, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China ~72: ZHONG, Wenge~ 33:CN ~31:PCT/CN2018/117047 ~32:22/11/2018

2021/03467 ~ Complete ~54:NEW ANTHELMINTIC COMPOUNDS ~71:Bayer Animal Health GmbH, Kaiser-Wilhelm-Allee 20, LEVERKUSEN 51373, GERMANY, Germany ~72: ALIG, Bernd;GRIEBENOW, Nils;BSCH, Walter;HEISLER, Iring;ILG, Thomas;HLER, Adeline;KULKE, Daniel;SCHWARZ, Hans-Georg;ZHUANG, Wei~ 33:EP ~31:18202419.0 ~32:24/10/2018

2021/03471 ~ Complete ~54:GLUCAGON LIKE PEPTIDE 1 (GLP1)-GROWTH DIFFERENTIATION FACTOR 15 (GDF15) FUSION PROTEINS AND USES THEREOF ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B-2340, BELGIUM, Belgium ~72: FURMAN, Jennifer;HUANG, Chichi;LIN-SCHMIDT, Xiefan;MULLICAN, Shannon;NELSON, Serena M.;RANGWALA, Shamina;RANKIN, Matthew M.;ZHENG, Songmao~ 33:US ~31:62/748,603 ~32:22/10/2018

2021/03473 ~ Complete ~54:POLYMER COMPOSITIONS WITH IMPROVED STABILITY FOR NITROGEN FIXING MICROBIAL PRODUCTS ~71:Pivot Bio, Inc., 2910 Seventh Street, BERKELEY 94710, CA, USA, United States of America ~72: KIBBEE, John;REZAEI, Farzaneh~ 33:US ~31:62/776,782 ~32:07/12/2018

2021/03478 ~ Complete ~54:ANTIBODY DRUG CONJUGATES COMPRISING ECTEINASCIDIN DERIVATIVES ~71:PHARMA MAR, S.A., Pol&#237;gono Industrial La Mina Avda. de los Reyes, 1 Colmenar Viejo, E-28770, Madrid, Spain ~72: ALFONSO LATORRE LOZANO;ANDRES FRANCESCH SOLLOSO;MARIA DEL CARMEN CUEVAS MARCHANTE;VALENTIN MARTINEZ BARRASA~ 33:EP ~31:18382759.1 ~32:25/10/2018

2021/03472 ~ Complete ~54:USING MACHINE LEARNING-BASED SEED HARVEST MOISTURE PREDICTIONS TO IMPROVE A COMPUTER-ASSISTED AGRICULTURAL FARM OPERATION ~71:The Climate Corporation, 201 3rd Street #1100, SAN FRANCISCO 94103, CA, USA, United States of America ~72: BULL, Jason Kendrick;EHLMANN, Tonya S.;JACOBS, Morrison;MACISAAC, Susan Andrea;REICH, Timothy;SCHNICKER, Bruce J.;SHAH, Nikisha;SOOD, Shilpa;SORGE, Matthew;SSEGAN, Herbert;TRAPP, Allan;XIE, Yao;YANG, Xiao~ 33:US ~31:62/749,863 ~32:24/10/2018;33:US ~31:62/749,882 ~32:24/10/2018

2021/03477 ~ Complete ~54:THR $\beta$  RECEPTOR AGONIST COMPOUND AND PREPARATION METHOD AND USE THEREOF ~71:TERNS, INC., 1065 E. Hillsdale Blvd, Suite 100, Foster City, California, 94404, United States of America ~72: BEN LI;SHANGHAI YU~ 33:CN ~31:201811527414.4 ~32:13/12/2018

2021/03456 ~ Complete ~54:ANTI-ALPHA-SYNUCLEIN ANTIBODIES ~71:UCB BIOPHARMA SRL, 60, All&#233;e de la Recherche, 1070, Brussels, Belgium ~72: DANIEL JOHN LIGHTWOOD;DAVID JAMES MCMILLAN;KERRY LOUISE TYSON;LORENZO DE LICHTERVELDE;PATRICK DOWNEY;RALPH ADAMS;TERENCE SEWARD BAKER~ 33:GB ~31:1720975.0 ~32:15/12/2017

2021/03452 ~ Provisional ~54:CLINTON-PARKER POWER BOOSTER ~71:Peter Clinton-Parker, 11 Tanner Road, Wembley, South Africa ~72: Peter Clinton-Parker~

2021/03465 ~ Complete ~54:COFFEE CONTAINER FOR BEVERAGE PREPARATION AND METHOD OF MANUFACTURING A COFFEE CONTAINER ~71:Soci&#233;t&#233; des Produits Nestl&#233; S.A., Avenue Nestl&#233; 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: HEYDEL, Christophe S&#233;bastien Paul;PACAULT, Jean;TALON, Christian~ 33:EP ~31:18203971.9 ~32:01/11/2018

2021/03469 ~ Complete ~54:MINIATURIZED DYSTROPHINS AND USES THEREOF ~71:Bristol-Myers Squibb Company, Route 206 and Province Line Road, PRINCETON 08543, NJ, USA, United States of America ~72: BANKS, Glen;DAVIS, Jonathan Harry;LEVESQUE, Paul Charles~ 33:US ~31:62/749,982 ~32:24/10/2018

2021/03479 ~ Complete ~54:A BLADE GUARD ~71:GELDENHUYS, Stephen, 8 Disa Avenue, Northcliff, South Africa ~72: GELDENHUYS, Stephen~ 33:ZA ~31:2018/05501 ~32:17/08/2018

2021/03446 ~ Provisional ~54:NIX BUILDERS PROFILE ~71: Sintiche Makkink, 153 Enkeldoorn street; Montana Park, South Africa ~72: Nico Makkink~

2021/03460 ~ Complete ~54:OVERWRAP MATERIAL CONTAINING AEROSOL FORMER FOR AEROSOL SOURCE MEMBER ~71:R.J. REYNOLDS TOBACCO COMPANY, 401 North Main Street, Winston-Salem, United States of America ~72: COLE, S. Keith;CONNER, Billy T.;HEJAZI, Vahid;MONSALUD, Luis;MUA, John-Paul;SEARS, Stephen B.;SEBASTIAN, Andries D.~ 33:US ~31:16/197,077 ~32:20/11/2018

2021/03470 ~ Complete ~54:SYSTEMS AND METHODS FOR DETECTING AND MEASURING OXIDIZING COMPOUNDS IN TEST FLUIDS ~71:Source Global, PBC, 7825 South Hardy Dr., TEMPE 85284, AZ, USA, United States of America ~72: CASTRO DE LA TORRE, Maya Muyurina;FRIESEN, Cody Alden;GOLDBERG, Jonathan Edward;JOHNSON, Paul Bryan;MARTINEZ, Jose Antonio Bautista~ 33:US ~31:16/167,295 ~32:22/10/2018

2021/03453 ~ Provisional ~54:BIO-RESONANCE SOUND RECORDER ~71:Raymond L Venter, 926 Tonetti street, Faerie glen, South Africa ~72: Raymond L Venter~ 33:ZA ~31:none ~32:20/05/2021

2021/03457 ~ Complete ~54:PESTICIDAL COMPOUNDS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: ADISECHAN, Ashokkumar;CHAUDHURI, Rupsha;MAITY, Pulakesh;NARINE, Arun;SAMBASIVAN, Sunderraman;SHAIKH, Rizwan Shabbir;VYAS, Devendra~ 33:EP ~31:18202182.4 ~32:24/10/2018

2021/03464 ~ Complete ~54:CAPSULE SYSTEM WITH RECOGNITION MEANS AND ADAPTABLE OPENING AND INJECTION MECHANISM ~71:Soci&#233;t&#233; des Produits Nestl&#233; S.A., Avenue Nestl&#233; 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: GRES, Nicolas;HEYDEL, Christophe S&#233;bastien Paul;PACAULT, Jean;TALON, Christian~ 33:EP ~31:18203978.4 ~32:01/11/2018

2021/03448 ~ Provisional ~54:INCUBATOR TRAY AND A METHOD OF INCUBATING ~71:Amir Farschi, 123 Manhattan, Kikuyu Rd, Sunninghill, Johannesburg, Gauteng, 2191, South Africa ~72: Amir Farschi;Rean Bootsma~

2021/03454 ~ Complete ~54:OCULAR FORMULATIONS FOR DRUG-DELIVERY AND PROTECTION OF THE ANTERIOR SEGMENT OF THE EYE ~71:PAOPTICA, INC., 150 Morristown Road, Suite 205, United States of America ~72: BINGAMAN, David P.;CHANEY, Paul G.;WAX, Martin B.~ 33:US ~31:62/051,794 ~32:17/09/2014

2021/03458 ~ Complete ~54:POWER CONTROL FOR AN AEROSOL DELIVERY DEVICE ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: CARPENTER, Austin;DAUGHERTY, Sean A.;FERGUSON, Matthew;GALLOWAY, Michael Ryan;HENRY, JR., Raymond Charles;LAMB, Wilson Christopher;NOVAK, III, Charles Jacob;WOOD, Jason L.~ 33:US ~31:62/769,296 ~32:19/11/2018;33:US ~31:62/911,727 ~32:07/10/2019;33:US ~31:16/669,031 ~32:30/10/2019

2021/03462 ~ Complete ~54:CHARGING CONTROL FOR AN AEROSOL DELIVERY DEVICE ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: DAUGHERTY, Sean A.;FRISBEE, Mark;GALLOWAY, Michael Ryan;HENRY, JR., Raymond Charles;NOVAK, III, Charles Jacob;WOOD, Jason L.~ 33:US ~31:62/769,296 ~32:19/11/2018;33:US ~31:16/537,784 ~32:12/08/2019

2021/03455 ~ Complete ~54:SPATIAL GUIDANCE SYSTEM FOR VISUALLY IMPAIRED INDIVIDUALS ~71:International Business Machines Corporation, New Orchard Road, ARMONK 10504, NY, USA, United States of America ~72: BYAMUGISHA, Joan;KHAN, Naweed Aghmad;KURIEN, Toby;MOLAPO, Maletsabisa;YOUNG, Richard~ 33:US ~31:16/882,399 ~32:22/05/2020

2021/03475 ~ Complete ~54:METHOD OF PRODUCING THICK SULPHUR CATHODES FOR LI-S BATTERIES ~71:MONASH UNIVERSITY, Wellington Road, Australia ~72: MAJUMDER, Mainak;SHAIBANI, Mahdokht~ 33:AU ~31:2018904381 ~32:12/11/2018

2021/03450 ~ Provisional ~54:GET IT DONE MOBILE APP ~71:Prince Sifiso Mahlangu, 22417 Msheledi Street, South Africa ~72: Prince Sifiso Mahlangu~

2021/03463 ~ Complete ~54:DEBLOCKING IN A VIDEO ENCODER AND/OR VIDEO DECODER ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: ANDERSSON, Kenneth;ENHORN, Jack;YU, Ruoyang;ZHANG, Zhi~ 33:US ~31:62/767,758 ~32:15/11/2018

2021/03468 ~ Complete ~54:PROBIOTIC SUPPLEMENT FOR METABOLIC HEALTH COMPRISING LACTOBACILLUS ~71:Novozymes A/S, Krogshoejvej 36, BAGSVAERD 2880, DENMARK, Denmark;Organobalance GmbH, Gustav-Meyer-Allee 25, BERLIN 13355, GERMANY, Germany ~72: JENSEN,

Benjamin Anderschou Holbech;JENSEN, Teis;KRISTENSEN, Nanna Ny;MATTERN, Alexandra;SAULNIER, Delphine Marie Anne;SCHULTCHEN, Jeffrey~ 33:EP ~31:18202187.3 ~32:24/10/2018

2021/03474 ~ Complete ~54:PRECONDITIONED RESIN AGGREGATE ~71:CRDC Global Limited, 1st Floor, 6 Lapp&#39;s Quay, CORK T12 VY7W, IRELAND, Ireland ~72: THOMSON, Donald William~ 33:US ~31:62/748,989 ~32:22/10/2018

2021/03476 ~ Complete ~54:HEATING ELEMENT AND HEATER ASSEMBLIES, CARTRIDGES, AND E-VAPOR DEVICES INCLUDING A HEATING ELEMENT ~71:ALTRIA CLIENT SERVICES LLC, 6601 West Broad Street, Richmond, Virginia, 23230, United States of America ~72: ARIE HOLTZ;ISAAC WEIGENBERG~ 33:US ~31:16/273,612 ~32:12/02/2019

#### ASSIGNMENTS IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 (1)

Application Number	Assignor	Assignee
2006/03696	CAMWORTH TECHNOLOGIES LIMITED	EPIROC HOLDINGS SOUTH AFRICA (PTY) LTD
2018/04644	AQUA FILTER (PTY) LTD	JOTHAM JOUBERT
2007/10958	ROBOR (PTY) LTD	MACSTEEL SERVICE SA (PTY) LTD
2008/09083	MULDER PIETER SCHALK	ROBOR (PTY) LTD
2008/09083	ROBOR (PTY) LTD	MACSTEEL SERVICE CENTRES SA (PTY) LTD
2004/06296	ROBOR (PTY) LTD	MACSTEEL SERVICE CENTRES SA (PTY) LTD
2004/06296	BARLOWORLD ROBOR (PTY) LTD	ROBOR (PTY) LTD
2013/04467	ROBOR (PROPRIETARY) LIMITED	MACSTEEL SERVICE CENTRES SA (PTY) LTD
2002/01953	ROBOR (PTY) LTD	MACSTEEL SERVICE CENTRES SA (PTY) LTD
2002/01953	BARLOWORLD ROBOR (PTY) LTD	ROBOR (PTY) LTD
2002/01954	ROBOR (PTY) LTD	MACSTEEL SERVICE CENTRES SA (PTY) LTD
2002/01954	BARLOWORLD ROBOR (PTY) LTD	ROBOR (PTY) LTD
2003/01159	ROBOR (PTY) LTD	MACSTEEL SERVICE CENTRES SA (PTY) LTD
2003/01159	BARLOWORLD ROBOR (PTY) LTD	ROBOR (PTY) LTD
2005/09762	ROBOR (PTY) LTD	MACSTEEL SERVICE CENTRES SA (PTY) LTD
2005/09762	BARLOWORLD ROBOR (PTY) LTD	ROBOR (PTY) LTD
2004/06298	ROBOR (PTY) LTD	MACSTEEL SERVICE CENTRES SA (PTY) LTD
2004/06298	BARLOWORLD ROBOR (PTY) LTD	ROBOR (PTY) LTD
2004/08155	ROBOR (PTY) LTD	MACSTEEL SERVICE CENTRES SA (PTY)

Application Number	Assignor	Assignee
		LTD
2004/08155	BARLOWORLD ROBOR (PTY) LTD	ROBOR (PTY) LTD
2004/08155	ROBOR (PTY) LTD	MACSTEEL SERVICE CENTRES SA (PTY) LTD
2006/09173	BARLOWORLD ROBOR (PTY) LTD	ROBOR (PTY) LTD
2006/09173	ROBOR (PTY) LTD	MACSTEEL SERVICE CENTRES SA (PTY) LTD
2006/09173	BARLOWORLD ROBOR (PTY) LTD	ROBOR (PTY) LTD
2002/08908	ROBOR (PTY) LTD	MACSTEEL SERVICE CENTRES SA (PTY) LTD
2002/08908	BARLOWORLD ROBOR (PTY) LTD	ROBOR (PTY) LTD
2012/07404	ROBOR (PTY) LTD	MACSTEEL SERVICE CENTRES SA (PTY) LTD
2012/07404	BARLOWORLD ROBOR (PTY) LTD	ROBOR (PTY) LTD
2010/06223	ROBOR (PTY) LTD	MACSTEEL SERVICE CENTRES SA (PTY) LTD
2010/06223	BARLOWORLD ROBOR (PTY) LTD	ROBOR (PTY) LTD
2015/02217	XBIOTECH INC.	JANSSEN BIOTECH, INC.
2019/00465	DNS HYDRAULICS AND ENGINEERING CC	BBM MANUFACTURERS LINE BORING & MINING SUPPLIES (PTY) LTSD.
2021/01042	SANOFI-AVENTIS RECHERCHE & DEVELOPPEMENT	GENZYME CORPORATION
2003/06820	VELCRO BVBA	VELCRO IP HOLDINGS LLC
2016/02503	HOTPOD YOGA LIMITED	HOTPOD HOLDINGS LTD
2018/07347	NCM INNOVATIONS (PTY) LTD	EPIROC HOLDINGS SOUTH AFRICA (PTY) LTD
2020/01462	COCHRANE STEEL PRODUCTS (PTY) LTD	COCHRANE GULF FZE
2002/00780	DUNLOP INDUSTRIAL PRODUCTS (PTY) LTD	REMA TIP TOP HOLDING SOUTH AFRICA (PTY) LTD
2015/04941	ABGENOMICS INTERNATIONAL INC.	ABGENOMICS HOLDING INC.
2008/09535	BIOALLIANCE C.V.	ALTRUBIO INC.
2018/04328	BIOALLIANCE C.V.	ALTRUBIO INC.
2015/04941	BIOALLIANCE C.V.	ALTRUBIO INC.
2019/05790	I-MAB BIOPHARMA US LIMITED	I-MAB BIOPHARMA HONG KONG LIMITED
2019/05790	I-MAB BIOPHARMA HONG KONG LIMITED	I-MAB BIOPHARMA (HANGZHOU) CO., LTD.
2020/03892	I-MAB BIOPHARMA US LIMITED	I-MAB BIOPHARMA HONG KONG LIMITED
2020/03892	I-MAB BIOPHARMA HONG KONG LIMITED	I-MAB BIOPHARMA (HANGZHOU) CO., LTD.
2020/05792	I-MAB BIOPHARMA CO., LTD.	I-MAB BIOPHARMA HONG KONG LIMITED
2020/05792	I-MAB BIOPHARMA HONG KONG LIMITED	I-MAB BIOPHARMA (HANGZHOU) CO., LTD.
2019/01835	I-MAB BIOPHARMA CO., LTD.	I-MAB BIOPHARMA HONG KONG LIMITED
2019/01835	I-MAB BIOPHARMA HONG KONG	I-MAB BIOPHARMA (HANGZHOU) CO.,



Application Number	Assignor	Assignee
	LIMITED	LTD.
2018/06504	GUIZHOU MATERIALS TECHNOLOGY INDUSTRY RESEARCH INSTITUTE	GUIZHOU CHENYANG PIPELINE TECHNOLOGY CO., LTD.
2018/04328	ABGENOMICS INTERNATIONAL INC.	ABGENOMICS HOLDING INC.
2020/03124	TECHNISCHE UNIVERSITEIT EINDHOVEN	RETINACHECK B.V.
2019/08547	AICURIS ANTI-INFECTIVE CURES GMBH	AICURIS GMBH & CO. KG
2020/03798	AFRICAN PROCESS ENGINEERING COMPANY (PTY) LTD	GREENWAY, TIMOTHY KELVYNGE
2016/05113	LIXIL CORPORATION (FORMERLY KNOWN AS LIXIL GROUP CORPORATION)	LIXIL GROUP CORPORATION
2020/07217	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2020/07216	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2020/07053	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2019/07686	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2020/07051	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2019/07681	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2020/07215	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2020/07213	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2020/03698	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2020/03699	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2020/07214	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2020/03697	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2020/07052	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2019/07682	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2019/07683	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2019/07680	ZENIMAX MEDIA INC.	MICROSOFT TECHNOLOGY LICENSING
2021/01830	KUNMING TEKANG TECHNOLOGY CO., LTD and ZHEJIANG YUNJIE TECHNOLOGY CO., LTD	ZHEJIANGYUNJIE TECHNOLOGY CO., LTD; YUNNAN QIDAN PHARMACEUTICAL CO. LTD; and KUNMING TEKANG TECHNOLOGY CO., LTD.
2017/03019	REIFENHAUSER GMBH & CO. KG MASCHINENFABRIK	THE PROCTER & GAMBLE COMPANY
2014/00209	ABGENOMICS COOPERATIEF U.A.	ALTRUBIO, INC.
2015/04828	MOTION ICON (PTY) LTD	MIIP SOUTH AFRICA (PTY) LTD.
2021/02560	MOTION ICON (PTY) LTD	MIIP SOUTH AFRICA (PTY) LTD.
2020/02161	GONZALEZ ULLOA, JORGE, ENRIQUE	THE CANE JUICE COMPANY, LLC
2013/09094	WATERDIAM SARL	WATERDIAM FRANCE
2019/05862	CLEVELAND POTASH LIMITED	ICL EUROPE COOPERATIEF U.A
2008/06855	TELLUMAT INTEGRATED SOLUTIONS (PTY) LTD	CONTRACT KITTING SOLUTIONS (PTY) LTD
2013/07403	INTERNATIONAL AUTOMOTIVE COMPONENTS GROUP NORTH AMERICA, INC.	AURIA SOLUTIONS UK I LTD.

Application Number	Assignor	Assignee
2017/01880	ANTROVA AG	3PREX AG
2017/08627	SHL MEDICAL AG	SPOWDI AB
2017/00108	ANTROVA AG	3PREX AG
2017/00107	ANTROVA AG	3PREX AG
2006/09937	ABGENOMICS COOPERATIEF U.A.	ALTRUBIO, INC.
2007/06730	AREVA GMBH	FRAMATOME GMBH
2014/05396	CANCOM (PTY) LIMITED	CANCOM CANFLEET (PTY) LIMITED
2007/06944	TELLUMAT INTEGRATED SOLUTIONS (PTY) LTD	CONTRACT KITTING SOLUTIONS (PTY) LTD
2020/00925	AECI LIMITED	SOLENI TECHNOLOGIES SOUTH AFRICA (PTY) LTD
2017/04239	LIXIL CORPORATION	LIXIL GROUP CORPORATION
2017/06745	ADC THERAPEUTICS SA	DEERFIELD PARTNERS, L.P. (HYPOTHECATION)
2017/05523	LUMENA PHARMACEUTICALS, INC.	SHIRE HUMAN GENETIC THERAPIES, INC.
2016/08858	VALENT BIOSCIENCES CORPORATION	VALENT BIOSCIENCES LLC
2020/05082	HARD METALS AUSTRALIA PTY LIMITED	IRON GRIP HOLDINGS PTY LIMITED
2013/07027	ALETHIA BIOTHERAPEUTICS INC.	ADC THERAPEUTICS SA
2013/07027	ADC THERAPEUTICS SA	DEERFIELD PARTNERS L.P. (HYPOTHECATION)
2016/04877	DE-MA AS	STOCON AS
2016/04877	STOCON AS	NORWEGIAN WATER PURIFICATION AS

**NCHANGE OF NAME IN TERMS OF REGULATION 39**

Application Number	In the name of	New name
2013/01420	XBIOTECH, INC.	XBIOTECH INC.
2021/00949	GSK CONSUMER HEALTHCARE S.A.	GSK CONSUMER HEALTHCARE SARL
2003/01240	NUTRINOVA NUTRITION SPECIALTIES & FOOD INGREDIENTS GMBH	CELANESE SALES GERMANY GMBH
2016/02503	HOT POD YOGA LIMITED	HOTPOD YOGA LIMITED
2015/04941	ABGENOMICS HOLDING INC.	ALTRUBIO INC.
2018/04328	ABGENOMICS HOLDING INC.	ALTRUBIO INC.
2010/07672	ASCENDIS PHARMA GROWTH DISORDERS DIVISION A/S	ASCENDIS PHARMA ENDOCRINOLOGY DIVISION A/S
2020/01821	OXFORD BIODYNAMICS LIMITED	OXFORD BIODYNAMICS PLC
2007/06730	AREVA NP GMBH	AREVA GMBH
2018/06530	PHOSPLATIN THERAPEUTICS LLC	PHOSPLATIN THERAPEUTICS INC.
2016/05113	LIXIL GROUP CORPORATION	LIXIL CORPORATION
2016/08076	CARBONE SAVOIE	TOKAI CARBON SAVOIE

Application Number	In the name of	New name
2020/04575	RADWISP PTE. LTD.	PARAMEVIA PTE. LTD.
2020/01228	BAKER HUGHES, a GE COMPANY, LLC	BAKER HUGHES HOLDINGS LLC

**PATENT LICENSES IN TERMS OF SECTION 53 (7)-REGULATIONS 62 AND 63**

Application Number	Licensor	Licensee
2013/03009	BRISTOL-MYERS SQUIBB COMPANY	LONZA LTD
2015/02623	UNIVERSITY OF KWAZULU-NATAL	EWASTE AFRICA
2015/05248	ENTASIS THERAPEUTICS LIMITED	GARDP FOUNDATION
2013/09094	WATERDIAM FRANCE	WATERDIAM GROUP

**PATENT APPLICATIONS ABANDONED OR WITHDRAWN**

Application Number	Not Open	Date
2018/08124	WITHDRAWN	19/03/2021
2016/08428	WITHDRAWN	21/01/2021

**APPLICATION FOR RESTORATION OF A LAPSED PATENT**

Notice is hereby given **OUTOTEC (FINLAND) OY OR DENNEMEYER & ASSOCIATES, DOCEX 2, HYDE PARK**, that made application for the Restoration of the Patent granted to said **OUTOTEC (FINLAND) OY** an invention **PROCESS FOR RECOVERING GOLD** numbered **2017/03266** dated **11/05/2017** which became void **29/10/2018** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of opposition to the restoration of the patent within two months of the advertisement thereof.

Notice is hereby given **RHEINMETALL LANDSYSTEME GMBH OF DENNEMEYER & ASSOCIATES PATENT ATTORNEY, SUITE 415 HYDE PARK CORNER OFFICES HYDE PARK. JOHANNESBURG** that made application for the Restoration of the Patent granted to said **RHEINMETALL LANDSYSTEME GMBH** an invention **PROTECTIVE DEVICE AGAINST CHARGES FORMING A PROEJCTILE** numbered **2012/01539** dated **28/08/2012** which became void **28/08/2019** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **CARBONCOR IP (PTY) LTD OF DM KISCH INC., 266 SPRITE AVENUE, FAERIE GLEN., PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **SCARBONCOR IP (PTY) LTD** an invention **CARBONACEOUS COMPOSITE MATERIAL** numbered **2004/09884** dated **07/05/2003** which became void **07/05/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

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Notice is hereby given **KONINKJLIKE PHILLIPS NV OF ADAMS & ADAMS, 1140 PROSPECT ROAD, PRETORIA, 0001** that made application for the Restoration of the Patent granted to said **KONINKJLIKE PHILLIPS an invention METHOD FOR ENCODING, VIDEO PROCESSOR, METHOD FOR DECODING, VIDEO DECODER** numbered **2017/03974** dated **09/06/2017** which became void **09/06/2017** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

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Notice is hereby given **FIGJAM LOOPS HOLDINGS PTY LIMITED OF DM KISCH INC, 266 SPRITE AVENUE. FAERIE GLEN. PRETORIA 0001** that made application for the Restoration of the Patent granted to said **FIGJAM LOOPS HOLDINGS PTY LIMITED an invention SOCIAL MEDIA ACCESSORY, SYSTEM AND METHOD** numbered **2015/00573** dated **09/06/2015** which became void **26/01/2017** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

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Notice is hereby given **BAYER CROPSCIENCE AKTIENGESSELLSCHAFT OF ADAMS & ADAMS, 1140 PROSPECT STREET, PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **BAYER CROPSCIENCE AKTIENGESSELLSCHAFT an invention PYRAZOLYL CAR BOXANILIDES AS FUNGICIDES METHOD** numbered **2004/00434** dated **12/02/2004** which became void **12/07/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

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**Notice is hereby given BLOCKHOUSE SHUTTERS PROPRIETARY LIMITED OF ADAMS & ADAMS, 1140 PROSPECT STREET, PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **BLOCKHOUSE SHUTTERS PROPRIETARY LIMITED an invention A SHUTTER** numbered **2018/05152** dated **22/02/2017** which became void **22/02/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

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**Notice is hereby given BLOCKHOUSE SHUTTERS PROPRIETARY LIMITED OF ADAMS & ADAMS, 1140 PROSPECT STREET, PRETORIA. 0001** that made **Notice is hereby given BLOCKHOUSE SHUTTERS PROPRIETARY LIMITED OF ADAMS & ADAMS, 1140 PROSPECT STREET, PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **BLOCKHOUSE SHUTTERS PROPRIETARY LIMITED an invention A SLIDING DOOR** numbered **2018/05151** dated **31/07/2018** which became void **22/02/2021** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

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**Notice is hereby given BLOCKHOUSE SHUTTERS PROPRIETARY LIMITED OF ADAMS & ADAMS, 1140 PROSPECT STREET, PRETORIA. 0001** that made **Notice is hereby given BLOCKHOUSE SHUTTERS PROPRIETARY LIMITED OF ADAMS & ADAMS, 1140 PROSPECT STREET, PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **BLOCKHOUSE SHUTTERS PROPRIETARY LIMITED**

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an invention **A SHUTTER** numbered **2018/05150** dated **22/02/2017** which became void **22/02/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **THAMOTHERAN NAIDOO** and **FRIEDRICH WILHELM LEURSCHNER OF MCCALLUM REDEMEYER AND FREIMOND, DOCEX 5, RENDBURG. 2125** that made application for the Restoration of the Patent granted to said **THAMOTHERAN NAIDOO** and **FREIDRICH WILHELM** an invention **AIR STERILIZER** numbered **2018/05306** dated **19/05/2017** which became void **18/11/2018** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

#### THE PATENTS ACT, No. 57 OF 1978

#### APPLICATION FOR VOLUNTARY SURRENDER OF PATENTS UNDER SECTION 64 (1), REGULATION 67 OF THE ACT

Notice is hereby given that **Graham Neville Seegers 14 Chateau, 24 Dale Lace Avenue, Randpark Ridge, Randburg Johannesburg South Africa., Wayne Neville Seegers 14 Chateau, 24 Dale Lace Avenue, Randpark Ridge, Randburg Johannesburg South Africa** made application for voluntary surrender of the patents granted to the said **Graham Neville Seegers., Wayne Neville Seegers** numbered **2019/00081**.

#### APPLICATIONS FOR CORRECTIONS

#### THE PATENTS ACT, 1978

#### APPLICATIONS FOR CORRECTIONS IN TERMS OF SECTION 50

**Applicant: MCCALLUM RADEMEYER & FREIMOND** Request permission to correct or to amend any patent, application for a patent or document lodged in pursuance of such application or in the register of Patent no: **2012/03374** the filing date of **08/05/2012** entitled: **TOILET SEAT**.

A copy of the original application on which the proposed correction or amendment is indicated in red, is now available for inspection at the Patent Office.

Any notice of opposition (on form no. 19) must be lodged at the Patent Office within 2 months from the date hereof.

**Registrar of Patents**

**APPLICATIONS TO AMEND SPECIFICATION**

THE PATENTS ACT, 1978

**APPLICATIONS TO AMEND SPECIFICATION**

**Applicant: IMMUNOGEN, INC. 830 Winter Street Waltham, MA 02451, United States of America.** Request permission to amend the specification of letters: **28/03/2019** Patent Application No: **2019/02009** for **ANTI-FOLR1 IMMUNOCONJUGATE DOSING REGIMENS.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office .

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

**Registrar of Patents**

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**INSPECTION OF SPECIFICATIONS**

A complete specification may, after acceptance is advertised, be inspected during office hours at the Patent Office, Pretoria, at a charge of **R4, 00**. Please note, that in terms of section 43 (3) if the acceptance of an application which claims priority in terms of section 31 (1) (c) is not published in terms of section 42 within 18 months from the earliest priority claimed from the relevant application in a convention country, it shall be opened to public inspection after the expiration of 18 months from the earliest priority so claimed.

**COPIES OF DOCUMENTS**

The Patent Office, Private Bag X400, Pretoria, supplies copies of all patent and trade mark documents at the following rate:

Photocopies: **R1, 00 per page**

(Payment to be affected by means of revenue stamps only.)

**COMPLETE SPECIFICATIONS ACCEPTED AND ABRIDGEMENTS OR ABSTRACTS THEREOF**

Complete specifications in respect of the under mentioned applications for letters Patent have been accepted by the Registrar of Patents.

THE PATENTS ACT, 1978 (ACT NO. 57 OF 1978)

In terms of section 42 (b) of the Patents Act, 1978, a patent shall be deemed to have been sealed and granted as from the date of publication of the acceptance.

The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(DA)** Date of acceptance. **(51)** Class. **(71)** Name of applicant(s). **(72)** Name of all inventors. **(33)** Country. **(31)** Number and **(32)** Date of convention application. **(54)** Title of invention. **(00)** Number of sheets.

**Registrar of Patents**

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21: 2009/00868. 22: 2/5/2009. 43: 3/12/2021  
51: A61K; A61P

71: Bayer Intellectual Property GmbH

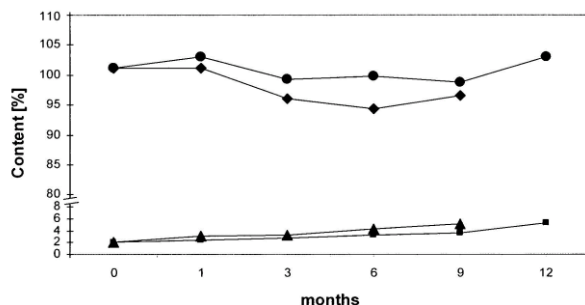
72: KING, Kristina

33: EP(DE) 31: 06014002.7 32: 2006-07-06

**54: PHARMACEUTICAL COMPOSITION CONTAINING A TETRAHYDROFOLIC ACID**

00: -

The present invention relates to solid pharmaceutical compositions, in particular to oral contraceptives, comprising a progestogen, such as drospirenone; an estrogen, such as ethinylestradiol; a tetrahydrofolic acid or a pharmaceutically acceptable salt thereof, such as calcium 5-methyl-(6S)-tetrahydrofolate; and at least one pharmaceutical acceptable excipient or carrier. The compositions of the invention provide good stability of the tetrahydrofolic acid upon storage while still ensuring a fast and reliable release of the estrogen and the progestogen present in the composition.



21: 2012/06033. 22: 13/08/2012. 43: 5/6/2021  
51: F24J

71: GUNTHER KUNZ, PIERRE LORENZ

72: GUNTER KUNZ, PIERRE LORENZ

33: DE 31: 10 2010 007 422.5 32: 2010-02-10

33: DE 31: 10 2010 025 765.6 32: 2010-07-01

33: DE 31: 10 2010 027 034.2 32: 2010-07-14

**54: REFLECTOR, RECEIVER ARRANGEMENT, AND SENSOR FOR THERMAL SOLAR COLLECTORS**

00: -

The invention relates to a reflector for uniaxially concentrating thermal solar collectors, comprising an elastic panel and a means that introduces the oppositely directed bending moments from two opposite sides into the panel. The invention further relates to a receiver for highly concentrating thermal solar collectors, said receiver being arranged inside

a protective casing, wherein the protective casing is radiopaque and has an opening that is sealed air-tight, through which opening the radiation can penetrate into the interior of the protective casing. One aspect of the invention relates to a sensor for uniaxially and biaxially concentrating thermal solar collectors, said sensor having a hollow body, in which a photoelectric cell is arranged and which has an opening, in which a transparent scattering element is arranged, wherein the outside of the hollow body is reflective to radiation.

21: 2012/09259. 22: 12/6/2012. 43: 3/5/2021  
51: C10L; C10M; C10N

71: Castrol Limited

72: ADAMS, Ieuan Stephen, ALI, Rana, DAVIES, John Philip, WEST, Kevin Richard

33: EP/GB 31: 10251150.8 32: 2010-06-25

**54: USES AND COMPOSITIONS**

00: -

The use of an oil-soluble mono-, di-, or tri-glyceride of at least one hydroxy polycarboxylic acid, or a derivative thereof, as an anti-wear additive and/or friction modifier in a non-aqueous lubricant composition and/or in a fuel composition. Also, a non-aqueous lubricant composition and a fuel composition for an internal combustion engine which comprise at least one additive which is an oil-soluble mono-, di-, or tri-glyceride of at least one hydroxy polycarboxylic acid, or a derivative thereof.

21: 2013/00081. 22: 1/3/2013. 43: 3/5/2021  
51: E21B

71: Dover BMCS Acquisition Corporation

72: COX, E. Sean, MYERS, Russell Roy

33: US 31: 12/794,569 32: 2010-06-04

**54: ROTATIONAL DRILL BITS AND DRILLING APPARATUSES INCLUDING THE SAME**

00: -

A roof-bolt drill bit. The roof-bolt drill bit may include a bit body rotatable about a central axis and at least one cutting element coupled to the bit body. The bit body may comprise a forward end, a rearward end axially opposite the forward end, and an internal passage defined within the bit body, with the internal passage extending to at least one opening defined in a side portion of the bit body. The bit body may also comprise a channel defined in a peripheral portion of

the bit body, with the channel extending along a path between the rearward end of the bit body and a side portion of the bit body.

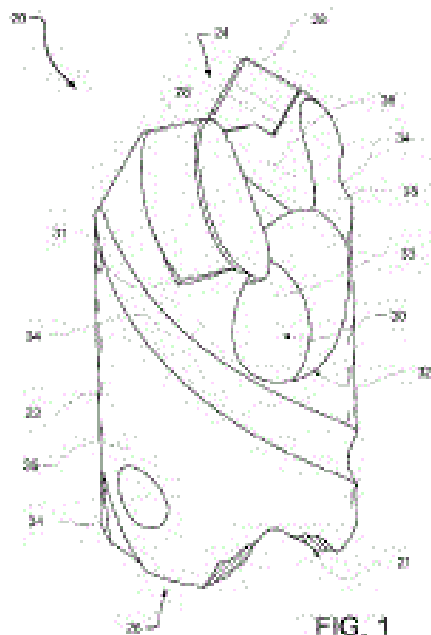


FIG. 1

21: 2013/01389. 22: 2/22/2013. 43: 3/5/2021  
51: A61K

71: Luye Pharma Switzerland AG  
72: BRACHT, Stefan, TEREBESI, Ildiko,  
LANGGUTH, Thomas

33: DE 31: 102010040299.0 32: 2010-09-06

**54: TRANSDERMAL THERAPEUTIC SYSTEMS  
WITH CRYSTALLIZATION-INHIBITING  
PROTECTIVE FILM (RELEASE LINER)**

00: -

The invention relates to pharmaceutical formulations, in particular to transdermal therapeutic systems, which are characterized in that no active ingredient crystallizes out at the interface between removable protective film (release liner) and active-ingredient-containing matrix.

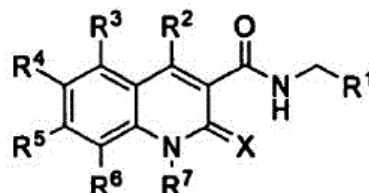
21: 2013/02265. 22: 3/26/2013. 43: 3/12/2021  
51: A61K; A61P; C07D

71: Grünenthal GmbH  
72: KÜHNERT, Sven, BAHRENBERG, Gregor,  
KLESS, Achim, SCHRÖDER, Wolfgang  
33: EP(DE) 31: 10008920.0 32: 2010-08-27

**54: SUBSTITUTED 2-OXO- AND 2-THIOXO-  
DIHYDROQUINOLINE-3-CARBOXAMIDES AS  
KCNQ2/3 MODULATORS**

00: -

The invention relates to substituted 2-oxo- and 2-thioxo-dihydroquinoline-3-carboxamides to pharmaceutical compositions containing these compounds and also to these compounds for use in the treatment and/or prophylaxis of pain and further diseases and/or disorders.



(I)

21: 2013/02269. 22: 3/26/2013. 43: 3/5/2021  
51: C07D

71: AbbVie Ireland Unlimited Company  
72: DEGOEY, David A., KATI, Warren M.,  
HUTCHINS, Charles W., DONNER, Pamela L.,  
KRUEGER, Allan C., RANDOLPH, John T.,  
MOTTER, Christopher E., NELSON, Lissa T.,  
PATEL, Sachin V., MATULENKO, Mark A., KEDDY,  
Ryan G., JINKERSON, Tammie K., GAO, Yi, LIU,  
Dachun, PRATT, John K., ROCKWAY, Todd W.,  
MARING, Clarence J., HUTCHINSON, Douglas K.,  
FLENTGE, Charles A., WAGNER, Rolf, TUFANO,  
Michael D., BETEBENNER, David A., SARRIS,  
Kathy, WOLLER, Kevin R., WAGAW, Seble H.,  
CALIFANO, Jean C., LI, Wenke, CASPI, Daniel D.,  
BELLIZZI, Mary E., CARROLL, William A.

33: US 31: 12/903,822 32: 2010-10-13

**54: ANTI-VIRAL COMPOUNDS**

00: -

Compounds effective in inhibiting replication of Hepatitis C virus (HCV) are described. This invention also relates to processes of making such compounds, compositions comprising such compounds, and methods of using such compounds to treat HCV infection.

21: 2013/02395. 22: 4/3/2013. 43: 3/5/2021  
51: A41B; A41D

71: CHERNESKI, James Paul  
72: CHERNESKI, James Paul  
33: US 31: 61/379,907 32: 2010-09-03

**54: CONSTRUCTION OF A GRIPPING FABRIC**

00: -

A gripping fabric and method for construction thereof is provided. A fabric structure that defines an inner surface and an outer surface is created. The fabric



structure or the gripping fabric is configured to conform to a user's body part for constructing a garment, for example, a sock. The inner surface is proximal to a user contact surface and distal to an external contact surface. The outer surface is proximal to the external contact surface and distal to the user contact surface. A gripping material is selectively applied on the inner surface and/or the outer surface of the fabric structure. The gripping material on the inner surface and the outer surface of the fabric structure adheres to the user contact surface and the external contact surface respectively, thereby providing grip between the user contact surface and the fabric structure, and grip between the fabric structure and the external contact surface.

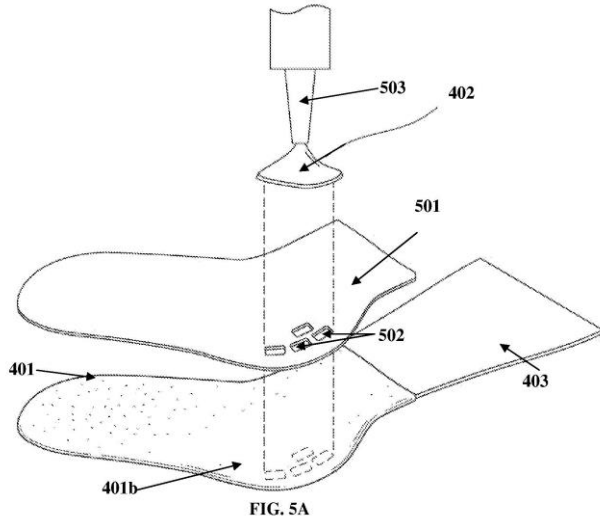


FIG. 5A

21: 2013/02438. 22: 4/4/2013. 43: 3/5/2021  
51: A61K; A61P

71: F. Hoffmann-La Roche AG  
72: LEIMINER, Andreas, LINDENSTRUTH, Kai,  
MILLER, Dave Alan, SCHEUBEL, Emmanuel,  
SHAH, Navnit Hargovindas  
33: EP(CH) 31: 10190461.3 32: 2010-11-09

**54: PHARMACEUTICAL COMPOSITION FOR TREATING HCV INFECTIONS**

00: -

The present invention relates to a granular pharmaceutical composition comprising an HCV protease inhibitor and at least one poloxamer.

71: Biogen International Neuroscience GmbH,  
University of Zurich  
72: CHEN, Feng, GRIMM, Jan, BAERISWYL, Jean-  
Lue, NITSCH, Roger, HOCK, Christoph  
33: EP(CH) 31: 10013494.9 32: 2010-10-11  
33: US 31: 61/391,751 32: 2010-10-11

**54: HUMAN ANTI-TAU ANTIBODIES**

00: -

Provided are human tau -specific antibodies as well as fragments, derivatives and variants thereof as well as methods related thereto. Assays, kits, and solid supports related to antibodies specific for tau are also disclosed. The antibody, immunoglobulin chain (s), as well as binding fragments, derivatives and variants thereof can be used in pharmaceutical and diagnostic compositions for tau targeted immunotherapy and diagnosis, respectively.

21: 2013/03777. 22: 5/23/2013. 43: 3/5/2021  
51: B65D

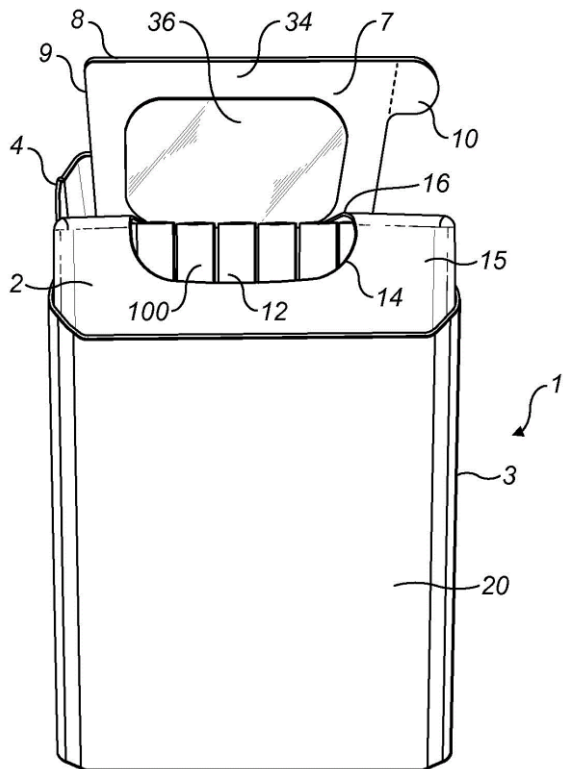
71: British American Tobacco (Investments) Limited  
72: HOLFORD, Steven  
33: GB 31: 1020317.2 32: 2010-12-01

**54: A PACKAGE FOR TOBACCO INDUSTRY PRODUCTS**

00: -

A package (1) for tobacco industry products comprises an elongate enclosure (2) of barrier material for enclosing a charge of tobacco products (100). An access aperture (12) is defined in the enclosure of barrier material. A moveable cover (7) is configured to extend over the access aperture (12). The moveable cover (7) comprises a graspable tab (10), and the tab is located laterally of the access aperture (12).

21: 2013/03175. 22: 4/30/2013. 43: 3/5/2021  
51: C07K



inhibition of various mutant-EGFR is disclosed. Pharmaceutical compositions containing the pyrimidine derivatives, and methods of treating diseases associated with EGFR kinase activity comprising administration of the pyrimidine derivatives or pharmaceutical compositions containing the pyrimidine derivative, are described.

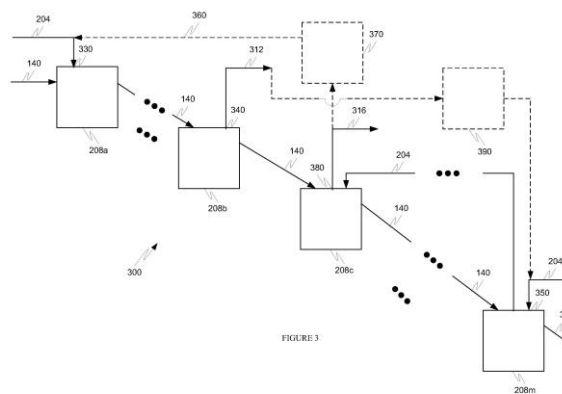
21: 2013/04093. 22: 6/4/2013. 43: 3/4/2021  
51: C22B

71: Barrick Gold Corporation  
72: CHOI, Yeonuk, CHEFAI, Samir

33: US 31: 61/420,596 32: 2010-12-07

**54: CO-CURRENT AND COUNTER CURRENT RESIN-IN-LEACH IN GOLD LEACHING PROCESSES**

00: -  
A method and system are provided in which a gold and/or silver-collecting resin-in-leach or resin-in-pulp circuit comprises both co-current and counter-current sections, specifically in thiosulfate leach systems.



21: 2013/03816. 22: 5/24/2013. 43: 3/5/2021  
51: A61K

71: Takeda Pharmaceutical Company Limited  
72: LAI, Chee Kong, STAFFORD, Roddy Kevin  
33: US 31: 61/410,437 32: 2010-11-05

**54: A NEW VARIANT OF ANTIHEMOPHILIC FACTOR VIII HAVING INCREASED SPECIFIC ACTIVITY**

00: -  
The present invention is in the field of hemophilia therapy. It relates to a new variant of antihemophilic factor VIII having increased specific activity in comparison to known factor VIII products.

21: 2013/04260. 22: 6/10/2013. 43: 3/5/2021  
51: A61K; C12N

71: The Government of the United States of America as represented by the Secretary of the Department of Health and Human, Janssen Vaccines & Prevention B.V.

72: SULLIVAN, Nancy J., NABEL, Gary J., ASIYEDU, Clement, CHENG, Cheng, PAU, Maria Grazia, GOUDSMIT, Japp

**54: ADENOVIRUS SEROTYPE 26 AND SEROTYPE 35 FILOVIRUS VACCINES**

00: -  
The present invention provides recombinant adenovirus vectors (serotype 26 and serotype 35)

21: 2013/04009. 22: 5/31/2013. 43: 3/5/2021  
51: A61K

71: Celgene CAR LLC  
72: LEE, Kwangho, NIU, Deqiang, PETTER, Russell C., BAEVSKY, Matthew Frank, SINGH, Juswinder  
33: US 31: 61/409,080 32: 2010-11-01

**54: HETEROCYCLIC COMPOUNDS AND USES THEREOF**

00: -  
Heterocyclic pyrimidine compounds that modulate mutant-selective epidermal growth factor receptor (EGFR) kinase activity are disclosed. Selectivity in

encoding filovirus antigens. The adenovirus vectors can be used to induce protective immune responses against filovirus infection.

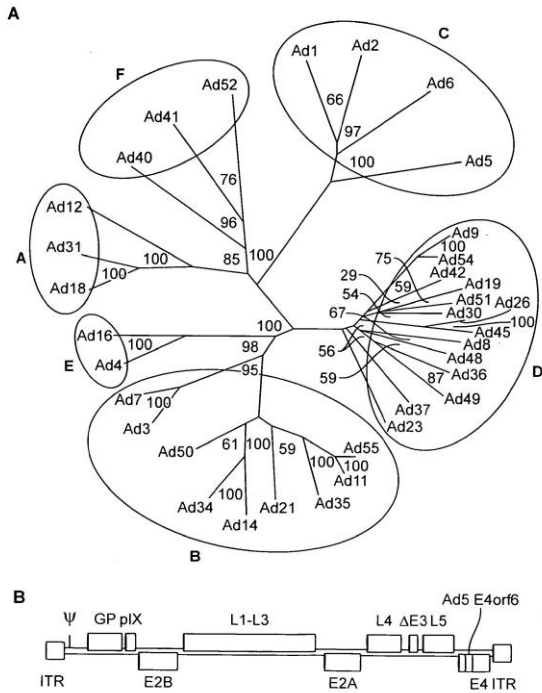
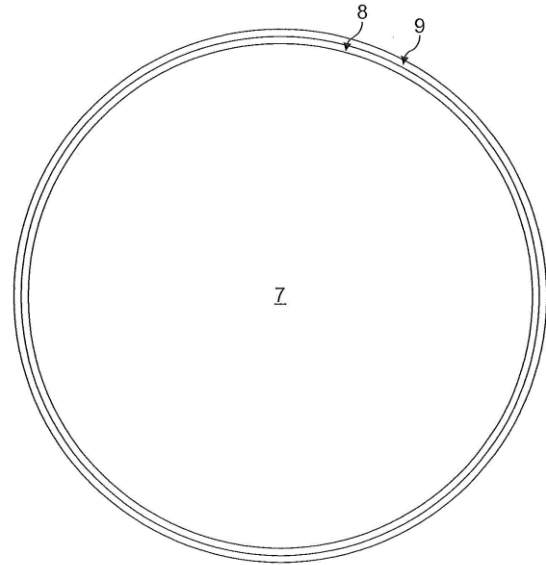


FIG. 1



21: 2013/05240. 22: 7/11/2013. 43: 3/5/2021

51: H04N

71: Samsung Electronics Co., Ltd.

72: SEREGIN, Vadim, CHEN, Jianle, LEE, Sun-il, LEE, Tammy

33: US 31: 61/426,684 32: 2010-12-23

**54: METHOD AND DEVICE FOR ENCODING INTRA PREDICTION MODE FOR IMAGE PREDICTION UNIT, AND METHOD AND DEVICE FOR DECODING INTRA PREDICTION MODE FOR IMAGE PREDICTION UNIT**

00: -

Disclosed are a method and a device for efficiently encoding and decoding an intra prediction mode for a prediction unit of a chrominance component by using an intra prediction mode for a prediction unit of a luminance component. According to one embodiment of the present invention, a method for encoding an intra prediction mode enables: intra prediction mode candidate groups of a prediction unit of a chrominance component to be reconfigured by excluding, from the intra prediction mode candidate groups, an intra prediction mode of the prediction unit of the chrominance component, which is overlapped with an intra prediction mode of a prediction unit of a luminance component, or by replacing the intra prediction mode with another intra prediction mode, depending on whether the intra prediction mode for the prediction unit of the luminance component is the same as predetermined intra prediction modes among the intra prediction

21: 2013/04762. 22: 6/25/2013. 43: 3/5/2021

51: A24D

71: British American Tobacco (Investments) Limited

72: MORALES, Santiago, OLIVEIRA, Paulo Augusto, JOHN, Edward Dennis, GRIERSON, Gordon

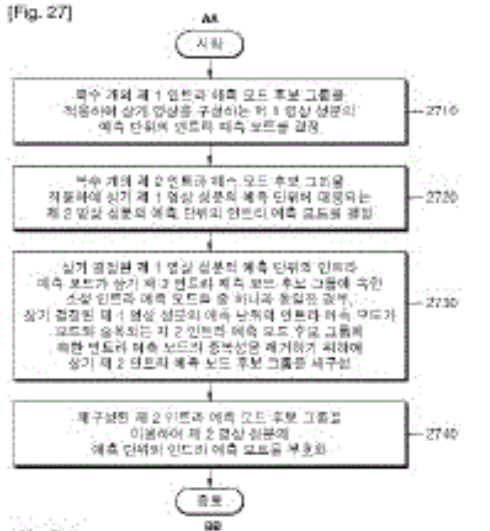
33: GB 31: 1100218.5 32: 2011-01-07

**54: SMOKING ARTICLE**

00: -

A low ignition propensity smoking article comprising a rod of smokeable material, an inner wrapper comprising reconstituted tobacco material wrapped around the smokeable material and an outer wrapper wrapped around the smokeable material and the inner wrapper.

mode candidate groups that are usable for the prediction unit of the chrominance component; and the intra prediction mode of the prediction unit of the chrominance component to be encoded by using the reconfigured intra prediction mode candidate groups.



AA ... Start  
 BB ... End  
 2710 ... Plurality of first intra prediction mode candidate groups are applied to determine intra prediction mode of prediction unit of first image component that constitutes said image.  
 2720 ... Plurality of second intra prediction mode candidate groups are applied to determine intra prediction mode of prediction unit of second image component corresponding to prediction unit of said first image component.  
 2730 ... If said determined intra prediction mode of prediction unit of first image component is same as one of predetermined intra prediction modes belonging to said second intra prediction mode candidate groups, said second intra prediction mode candidate groups are reconfigured in order to remove duplication of intra prediction mode belonging to second intra prediction mode candidate groups, which is overlapped with said determined intra prediction mode of prediction unit of first image component.  
 2740 ... Intra prediction mode of prediction unit of second image component is encoded by using reconfigured second intra prediction mode candidate group.

21: 2013/05436. 22: 7/18/2013. 43: 3/5/2021  
 51: A61K; A61Q  
 71: Colgate-Palmolive Company  
 72: VOGT, Robert, KOHRS, Karsten, FISHER, Steven Wade, CAMPBELL, Thomas, PRENCIPE, Michael  
**54: TASTE -MASKED ORAL CARE COMPOSITIONS**  
 00: -  
 Flavour components for use in oral care compositions containing a metal salt, compositions comprising the flavour components, and methods of making and using the same. The flavour components comprise a taste -masking agent comprising cinnamic aldehyde, eugenol and eucalyptol and one or more flavouring agents selected from L-menthol, N- ethyl -p -menthane - 3 - carboxamide, anethole, peppermint oil, spearmint oil

and corn mint oil. In particular the metal salt is zinc citrate.

21: 2013/05589. 22: 7/23/2013. 43: 3/5/2021  
 51: B65D; B67D  
 71: Heineken Supply Chain B.V.  
 72: LANDMAN, Bernardus Cornelis Johannes  
 33: NL 31: 2006195 32: 2011-02-14  
 33: NL 31: 2006199 32: 2011-02-14  
 33: NL 31: 2006197 32: 2011-02-14

**54: METHOD AND APPARATUS FOR PACKAGING BEVERAGE UNDER PRESSURE**

00: -  
 Method for manufacturing a pressurising device for a beverage container, wherein a gas container is provided having a filling opening, into which gas container an amount of dry ice is inserted through the filling opening, where after the filling opening is closed and the dry ice is allowed to sublimate.

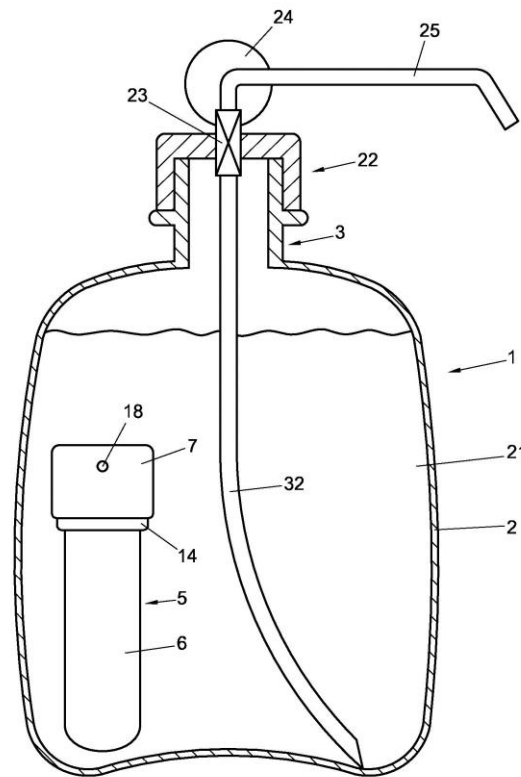
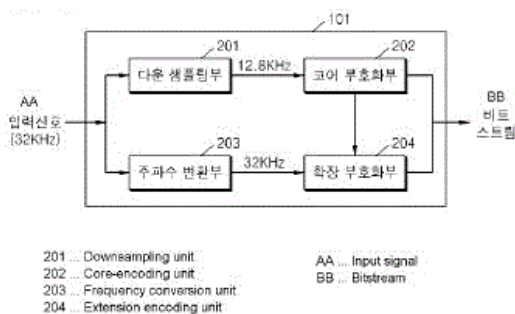


Fig. 2

21: 2013/05689. 22: 7/26/2013. 43: 3/5/2021  
 51: G10L  
 71: Samsung Electronics Co., Ltd.  
 72: CHOO, Ki-Hyun, OH, Eun-Mi, SUNG, Ho-Sang

33: KR 31: 10-2010-0138045 32: 2010-12-29  
**54: APPARATUS AND METHOD FOR ENCODING/DECODING FOR HIGH-FREQUENCY BANDWIDTH EXTENSION**

00: -  
 Disclosed are an apparatus and a method for encoding/decoding for high-frequency bandwidth extension. The encoding apparatus may downsample an input signal, perform core-encoding of the downsampled input signal, perform frequency conversion of the input signal, and perform bandwidth-extension encoding using a basic signal of the input signal of a frequency domain.



21: 2013/05856. 22: 8/2/2013. 43: 3/5/2021  
 51: A61K  
 71: Plexxikon, Inc.  
 72: IBRAHIM, Prabha N., ZHANG, Chao, SPEVAK, Wayne, ZHANG, Jiazhong, WU, Guoxian, LIN, Jack, CHO, Hanna, NESPI, Marika, SHI, Songyuan, EWING, Todd, ZHANG, Ying  
 33: US 31: 61/440,339 32: 2011-02-07

**54: COMPOUNDS AND METHODS FOR KINASE MODULATION, AND INDICATIONS THEREFOR**

00: -  
 Compounds active on protein kinases are described, as well as methods of making and using such compounds to treat diseases and conditions associated with aberrant activity of protein kinases.

21: 2013/06453. 22: 8/27/2013. 43: 3/5/2021  
 51: A61P  
 71: Berg LLC  
 72: NARAIN, Niven Rajin, SARANGARAJAN, Rangaprasad, VISHNUDAS, Vivek K.  
 33: US 31: 61/448,587 32: 2011-03-02

**54: INTERROGATORY CELL-BASED ASSAYS AND USES THEREOF**

00: -  
 Described herein is a discovery Platform Technology for analyzing a biological system or process (e.g. a

disease condition, such as cancer) via model building. In particular, described herein is a method for identifying a modulator of a biological system by establishing a model for the biological system, obtaining a first data set from the model for the biological system, obtaining a second data set from the model for the biological system, and generating a consensus causal relationship network among the expression levels of the plurality of genes and the functional activity or cellular response based solely on the first data set and the second data set using a programmed computing device.

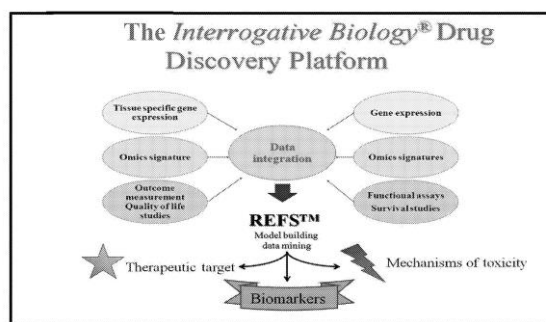


Figure 7

21: 2013/07379. 22: 10/2/2013. 43: 3/3/2021  
 51: A23B; A23L  
 71: Niacet b.v.  
 72: ANAGNOSTOU, Angeliki, AHOLA, Juhana, BRENDLER, Dominicus, VAN KUIK, Peter, VAN LENT, Henk Jan, HIETALA, Jukka, MARTENS, Jeroen

**54: A FOODSTUFF PRESERVING COMPOSITION AND USE THEREOF**

00: -  
 The invention relates to a foodstuff preservation composition comprising potassium acetate and alkali metal diacetate. The present invention further relates to a use of the foodstuff preservation composition for preventing growth of Listeria strain and mesophilic aerobic bacteria under storage conditions. Additionally it relates to a method for preserving foodstuff, and to a cooked meat product comprising said composition.

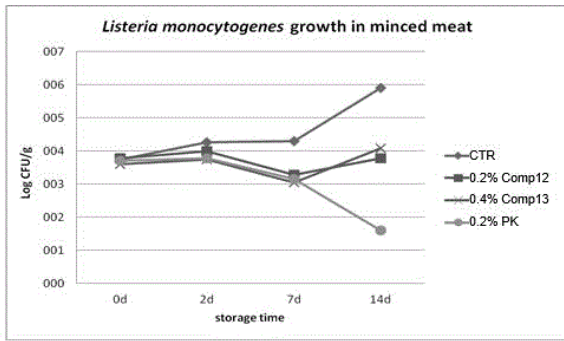


FIG. 3a

21: 2013/07399. 22: 10/3/2013. 43: 3/5/2021  
 51: A61M  
 71: inSleep Technologies, LLC  
 72: GUSKY, Michael H., LAUK, Michael, OSSEO-ASARE, Kwame L.  
 33: US 31: 61/467,760 32: 2011-03-25  
**54: BREATHING APPARATUS**  
 00: -

An apparatus including a blower configured to provide a supply of breathing gas, and a delivery tube configured to deliver the supply of breathing gas to a user breathing interface. The delivery tube has an inside diameter of about 15 mm or less. The apparatus also including a control system configured to provide a control signal to the blower for controlling a pressure of the supply of breathing gas to between about 1 cm H<sub>2</sub>O to about 6 cm H<sub>2</sub>O at the user breathing interface. The control signal is based upon, at least in part, one of a pressure and a flow rate of the supply of breathing gas at the user breathing interface.

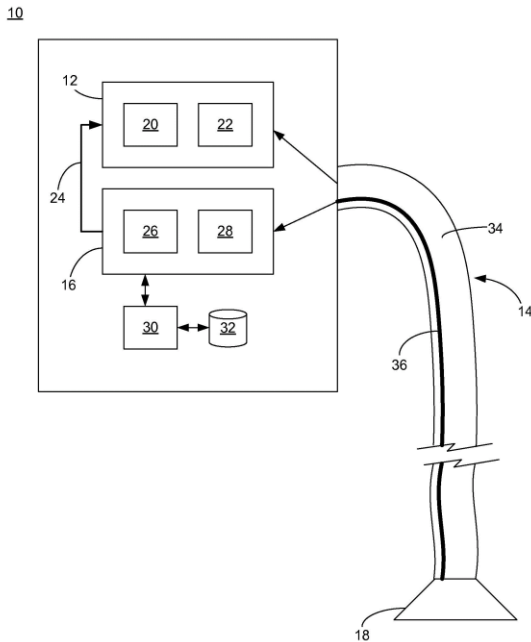


FIG. 1

21: 2013/07646. 22: 10/14/2013. 43: 3/5/2021  
 51: E21C

71: Sandvik Intellectual Property AB  
 72: FADER, Joseph  
 33: EP(SE) 31: 11163236.0 32: 2011-04-20  
**54: CUTTING BIT AND BIT HOLDER**  
 00: -

A cutting bit (1) for use in a heavy-duty mining, drilling or milling operation is disclosed. The cutting bit comprises a generally conical body (15), a first end (11) of which presenting a cutting point (13) and a second end (12) of which presenting an axially extending recess (14), having a generally convex surface portion, and having locking means (19) for releasably and rotatably connecting the cutting bit to a protruding part (22) of a bit holder (2). The recess has an entrance portion presenting a generally conical surface portion. A corresponding bit holder (2) is presented as well as a system comprising such cutting bit (1) and bit holder (2).

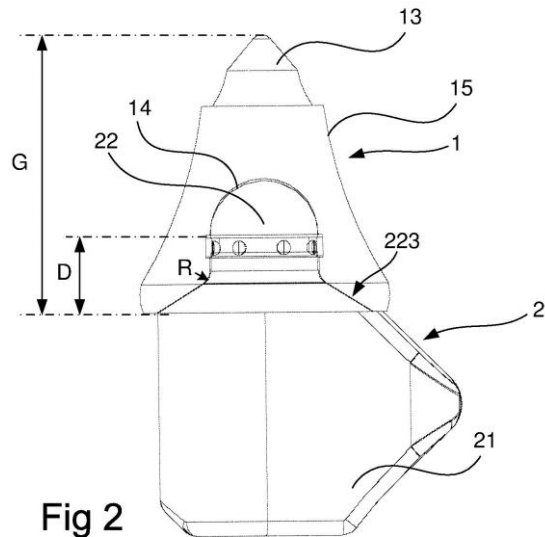
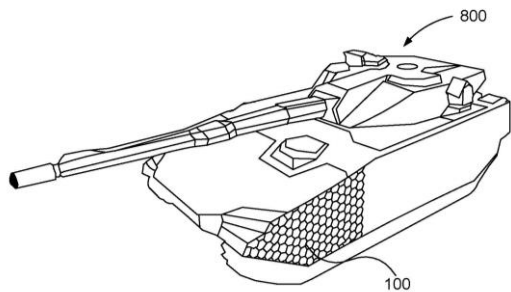


Fig 2

21: 2013/07934. 22: 10/23/2013. 43: 3/5/2021  
 51: F41H  
 71: BAE Systems Hägglunds Aktiebolag  
 72: SJÖLUND, Peder  
 33: SE 31: 1150518-7 32: 2011-06-07  
**54: DEVICE AND METHOD FOR SIGNATURE ADAPTATION AND AN OBJECT WITH SUCH A DEVICE**  
 00: -

The invention pertains to a device for signature adaptation, comprising at least one surface element (100; 300; 500) arranged to assume a determined thermal distribution, wherein said surface element comprises at least one temperature generating

element (150; 450a, 450b, 450c) arranged to generate at least one predetermined temperature gradient to a portion of said at least one surface element. Said surface element (100; 300; 500) comprising at least one display surface (50), wherein said display surface (50) is arranged to radiate at least one predetermined spectrum. The invention also pertains to a method for signature adaptation and an object such as a craft provided with the device according to the invention.



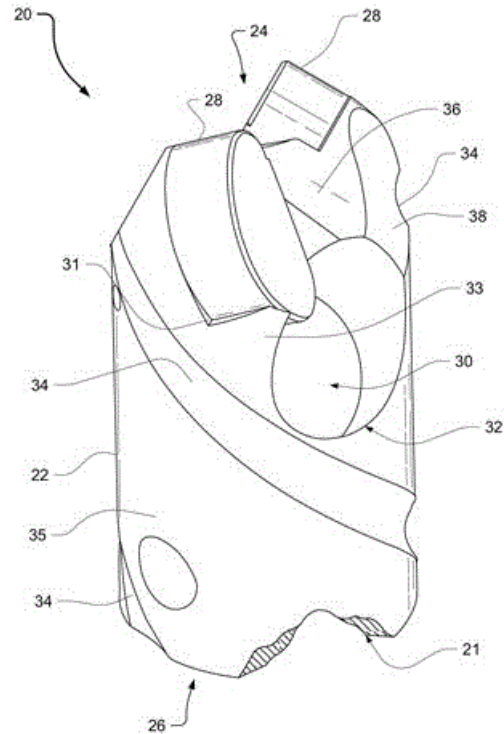
21: 2013/08590. 22: 11/14/2013. 43: 3/5/2021  
51: E21B; E21D

71: Dover BMCS Acquisition Corporation  
72: COX, E. Sean  
33: US 31: 13/678,105 32: 2012-11-15

**54: ROTATIONAL DRILL BITS AND DRILLING APPARATUSES INCLUDING THE SAME**

00: -

A roof-bolt drill bit. The roof-bolt drill bit may include a bit body rotatable about a central axis and a cutting element coupled to the bit body. The bit body may comprise a forward end, a rearward end axially spaced away from the forward end, and an internal passage defined within the bit body, with the internal passage extending from a rearward opening defined in the rearward end of the bit body through at least a portion of the bit body. A fluid port is configured to direct fluid from the internal passage through a port opening in a direction that forms an angle with respect to a forward direction of the central axis.



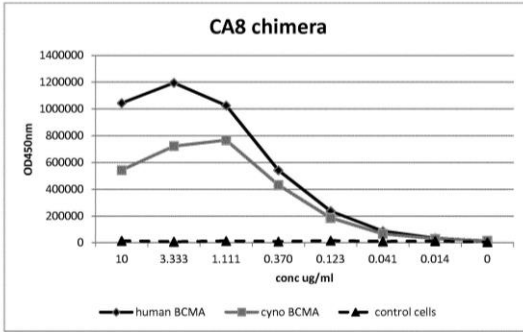
21: 2013/08635. 22: 11/18/2013. 43: 3/5/2021  
51: A61K; C07K

71: Glaxo Group Limited  
72: ALGATE, Paul, CLEGG, Stephanie Jane, CRAIGEN, Jennifer L., HAMBLIN, Paul Andrew, LEWIS, Alan Peter, PARMAR, Radha Shah, MAYES, Patrick, WATTAM, Trevor Anthony Kenneth  
33: US 31: 61/490,732 32: 2011-05-27

**54: BCMA (CD269/TNFRSF17) -BINDING PROTEINS**

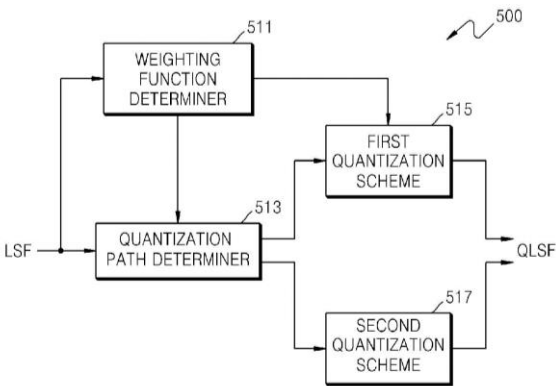
00: -

The present invention concerns antigen binding proteins and fragments thereof which specifically bind B Cell Maturation Antigen (BCMA), particularly human BCMA (hBCMA) and which inhibit the binding of BAFF and APRIL to the BCMA receptor. Further disclosed are pharmaceutical compositions, screening and medical treatment methods.



21: 2013/08709. 22: 11/20/2013. 43: 3/5/2021  
 51: G10L; H03M; H04N  
 71: Samsung Electronics Co., Ltd.  
 72: SUNG, Ho-Sang, OH, Eun-Mi  
 33: US 31: 61/477,797 32: 2011-04-21  
**54: METHOD OF QUANTIZING LINEAR PREDICTIVE CODING COEFFICIENTS, SOUND ENCODING METHOD, METHOD OF DE-QUANTIZING LINEAR PREDICTIVE CODING COEFFICIENTS, SOUND DECODING METHOD, AND RECORDING MEDIUM**

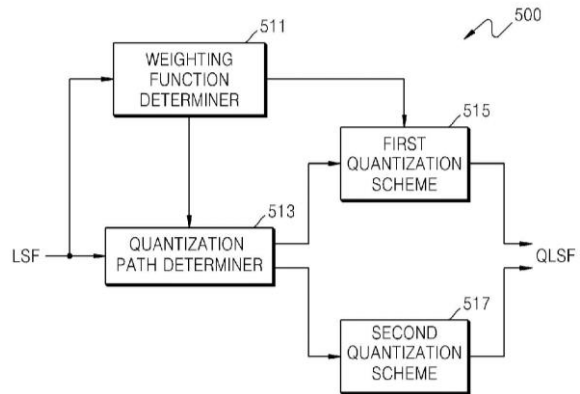
00: -  
 A quantizing method is provided that includes quantizing an input signal by selecting one of a first quantization scheme not using an inter-frame prediction and a second quantization scheme using the inter-frame prediction, in consideration of one or more of a prediction mode, a predictive error and a transmission channel state.



21: 2013/08710. 22: 11/20/2013. 43: 3/5/2021  
 51: G10L  
 71: Samsung Electronics Co., Ltd.  
 72: SUNG, Ho-Sang, OH, Eun-Mi  
 33: US 31: 61/477,797 32: 2011-04-21  
**54: APPARATUS FOR QUANTIZING LINEAR PREDICTIVE CODING COEFFICIENTS, SOUND**

**ENCODING APPARATUS, APPARATUS FOR DE-QUANTIZING LINEAR PREDICTIVE CODING COEFFICIENTS, SOUND DECODING APPARATUS, AND ELECTRONIC DEVICE THEREFOR**

00: -  
 A quantizing apparatus is provided that includes a quantization path determiner that determines a path from a first path not using inter-frame prediction and a second path using the inter-frame prediction, as a quantization path of an input signal, based on a criterion before quantization of the input signal; a first quantizer that quantizes the input signal, if the first path is determined as the quantization path of the input signal; and a second quantizer that quantizes the input signal, if the second path is determined as the quantization path of the input signal.



21: 2013/08992. 22: 11/28/2013. 43: 3/5/2021  
 51: A61K; A61P; C07K  
 71: Novo Nordisk A/S  
 72: ZAHN, Stefan, ZEUTHEN, Louise Hjerrild, HANSEN, Anker Jon, KJAERGAARD, Kristian, LUND, Søren  
 33: EP(DK) 31: 11168787.7 32: 2011-06-06  
**54: THERAPEUTIC ANTIBODIES**

00: -  
 The present invention concerns human antibodies recognising the human C5a receptor. By binding to C5aR the antibodies inhibit C5a signalling, whereby the pro- inflammatory signal is inhibited. Based on the role of C5a and its receptor in stimulation of inflammation the invention further relates to therapeutic use of said human anti-C5aR antibodies and in particular in relation to treatment of immunological disorders.

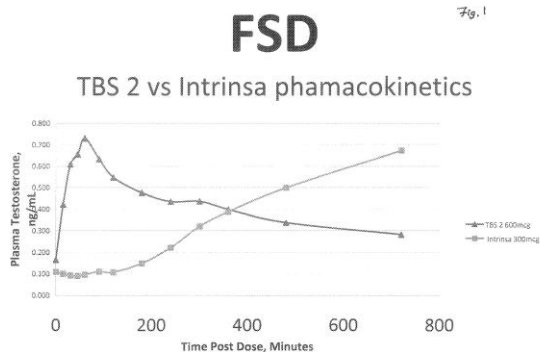


21: 2013/09052. 22: 12/2/2013. 43: 3/5/2021  
 51: A61K; A61P  
 71: Acerus Biopharma Inc.  
 72: KREPPNER, Wayne, FOGARTY, Siobhan, OBEREGGER, Werner, MAES, Paul José Pierre Marie

33: US 31: 61/518,903 32: 2011-05-13  
 33: US 31: 61/518,921 32: 2011-05-13  
 33: US 31: 61/518,916 32: 2011-05-13  
 33: US 31: 61/518,913 32: 2011-05-13

**54: INTRANASAL LOWER DOSAGE STRENGTH TESTOSTERONE GEL FORMULATIONS AND USE THEREOF FOR TREATING ANORGASMIA OR HYPOACTIVE SEXUAL DESIRE DISORDER**

00: -  
 The present invention relates to lower dosage strength pernasal testosterone gel formulations for intranasal administration and treatment methods for using the lower dosage strength pernasal testosterone gel formulations for treating a female subject with anorgasmia and/or hypoactive sexual desire disorder.



21: 2013/09173. 22: 12/5/2013. 43: 3/5/2021  
 51: A61K; A61P; C07K  
 71: AMGEN INC.  
 72: CHAN, Joyce Chi Yee, GIBBS, John P., DIAS, Clapton S., WASSERMAN, Scott, SCOTT, Robert Andrew Donald, CLOGSTON, Christi L., OSSLUND, Timothy David, STEIN, Evan A.

**54: METHODS OF TREATING OR PREVENTING CHOLESTEROL RELATED DISORDERS**

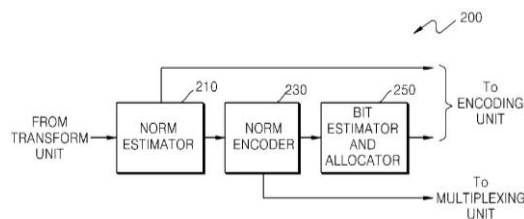
00: -  
 The present invention relates to methods of treating or preventing cholesterol related disorders, such as hypercholesterolemia, hyperlipidemia or dyslipidemia, using antibodies against proprotein convertase subtilisin/kexin type 9 (PCSK9).

Formulations and methods of producing said formulations are also described.

21: 2013/09406. 22: 12/12/2013. 43: 3/5/2021  
 51: G10L  
 71: Samsung Electronics Co., Ltd.  
 72: KIM, Mi-young, POROV, Anton, OH, Eun-Mi  
 33: US 31: 61/485,741 32: 2011-05-13

**54: BIT ALLOCATING, AUDIO ENCODING AND DECODING**

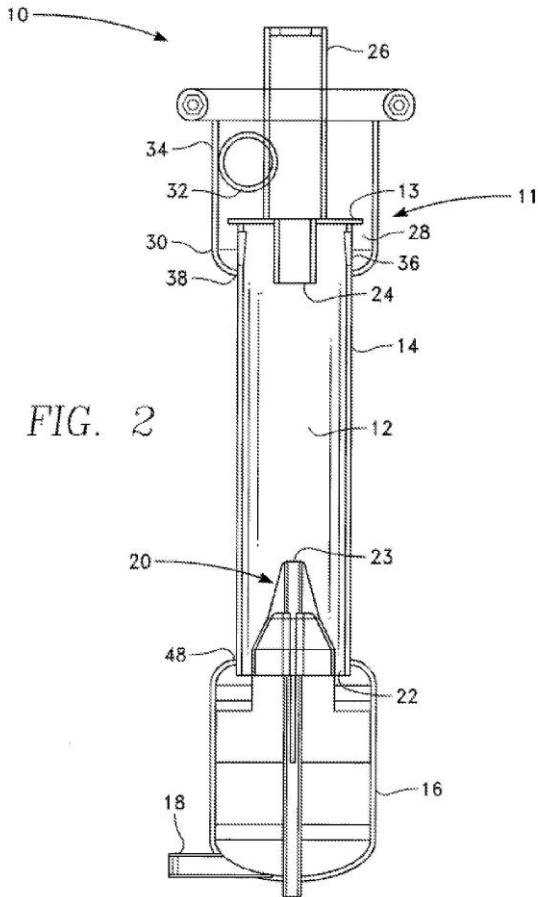
00: -  
 A bit allocating method is provided that includes determining the allocated number of bits in decimal point units based on each frequency band so that a Signal-to-Noise Ratio (SNR) of a spectrum existing in a predetermined frequency band is maximized within a range of the allowable number of bits for a given frame; and adjusting the allocated number of bits based on each frequency band.



21: 2013/09413. 22: 12/12/2013. 43: 3/5/2021  
 51: B04B  
 71: Claude Laval Corporation  
 72: FORD, Steven D.  
 33: US 31: 13/168,995 32: 2011-06-26  
**54: IMPROVED CENTRIFUGAL SEPARATOR**

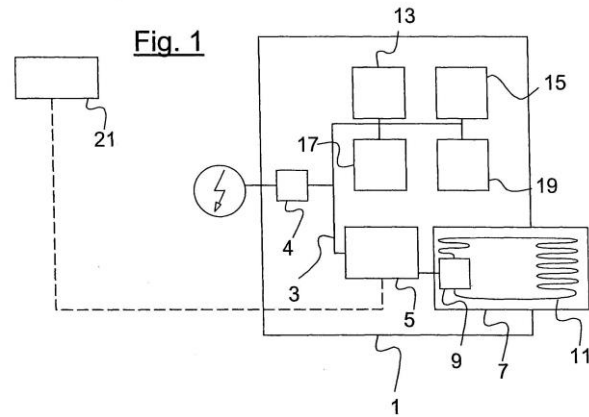
00: -  
 A centrifugal separator of the present invention comprises an upper inlet chamber and separation barrel connected thereto. The upper inlet chamber comprises an inlet through which a solids-laden fluid is introduced. An upper portion of the separation barrel extends into the upper inlet chamber below the inlet, such that the interior wall of the upper inlet chamber and the upper portion of the separation volume define a space, called the vestibular chamber. The vestibular chamber is defined at its upper end by a horizontally disposed plate larger in diameter than the separation barrel, but smaller in diameter than the internal diameter of the upper inlet chamber. The upper portion of the separation barrel comprises a plurality of generally axially-oriented

slots which may penetrate through the wall of the separation barrel tangentially, so as to generally induce a tangential flow pattern to fluid entering the separation barrel from the vestibular chamber.

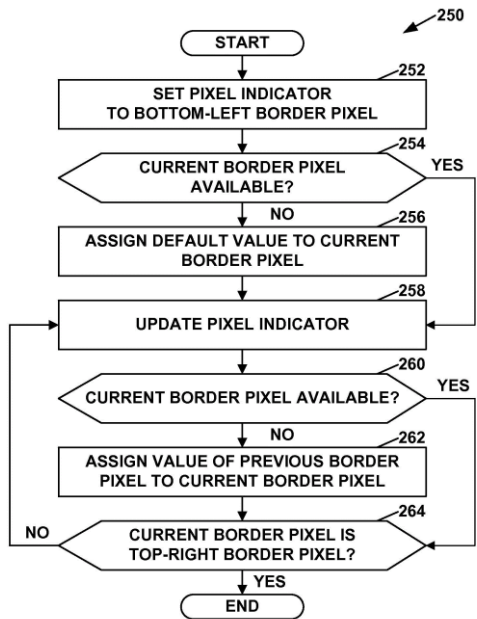


21: 2013/09481. 22: 12/13/2013. 43: 3/5/2021  
 51: F24F; F25B; H02J  
 71: Voltalis  
 72: HEINTZ, Bruno, OURY, Jean-Marc, LEFEBVRE DE SAINT GERMAIN, Hugues, BIVAS, Pierre, BINEAU, Mathieu  
 33: FR 31: 11/01830 32: 2011-06-15  
**54: HEATING, VENTILATION AND/OR AIR-CONDITIONING DEVICE WITH TARGETED POWER-SUPPLY MANAGEMENT**  
 00: -  
 The invention relates to a heating, ventilation and/or air-conditioning device (1) including at least a first component (9) for generating heat and/or cold, at least a second component (13), a power supply circuit (3) shared by the first and second components, and a controller (4) for the power

supply circuit (3). The first and the second components cooperate to output air at a selected temperature. The device is characterized in that it further includes a relay (5) for cutting off the supply of power to the first component (9). The relay (5) can be activated separately from the controller (4), and is arranged in the circuit such that the supply of power to the second component (13) is independent of the state of activation of the relay (5).



21: 2014/00230. 22: 1/10/2014. 43: 3/5/2021  
 51: H04N  
 71: QUALCOMM Incorporated  
 72: WANG, Xianglin, CHIEN, Wei-Jung, KARCZEWICZ, Marta, CHEN, Peisong, CHEN, Ying  
 33: US 31: 61/496,504 32: 2011-06-13  
**54: BORDER PIXEL PADDING FOR INTRA PREDICTION IN VIDEO CODING**  
 00: -  
 A video coder performs a padding operation that processes a set of border pixels according to an order. The order starts at a bottom-left border pixel and proceeds through the border pixels sequentially to a top-right border pixel. When the padding operation processes an unavailable border pixel, the padding operation predicts a value of the unavailable border pixel based on a value of a border pixel previously processed by the padding operation. The video coder may generate an intra-predicted video block based on the border pixels.



21: 2014/00704. 22: 1/29/2014. 43: 3/5/2021  
51: G10L

71: Samsung Electronics Co., Ltd.

72: CHOO, Ki-Hyun

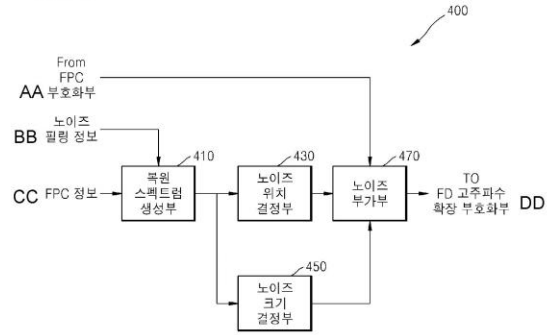
33: US 31: 61/503,241 32: 2011-06-30

**54: APPARATUS AND METHOD FOR GENERATING BANDWIDTH EXTENSION SIGNAL**

00: -

An apparatus for generating a bandwidth extension signal comprises: an anti-sparseness processing unit which performs anti-sparseness processing on a spectrum of a low frequency band; and an FD high frequency extension decoding unit which performs extension decoding of a high frequency band in a frequency domain using the spectrum of the low frequency band, on which the anti-sparseness processing has been performed.

[Fig. 4]



- AA ... From FPC encoding unit
- BB ... Noise filling information
- CC ... FPC information
- DD ... To FD high-frequency extension encoding unit
- 410 ... Restored spectrum generating unit
- 430 ... Noise position determining unit
- 450 ... Noise level determining unit
- 470 ... Noise adding unit

21: 2014/00706. 22: 1/29/2014. 43: 3/5/2021  
51: H04W

71: Google Technology Holdings LLC

72: NARASIMHA, Murali, NANGIA, Vijay, NORI, Ravikiran, KRISHNAMURTHY, Sandeep H.

33: US 31: 61/523,496 32: 2011-08-15

33: US 31: 13/209,863 32: 2011-08-15

**54: POWER ALLOCATION FOR OVERLAPPING TRANSMISSIONS WHEN MULTIPLE TIMING ADVANCES ARE USED**

00: -

A method and apparatus for power allocation for overlapping transmissions is provided herein. During operation, user equipment will determine if transmissions to a single base station, on various frequencies, will be overlapping. If so, a determination is made to back off the power for at least one transmission on one frequency.

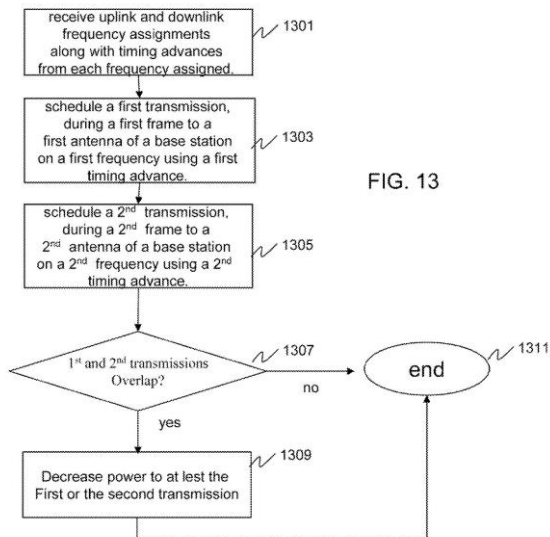


FIG. 13

72: DESSEROIR, Alexandre, MAITRASSE, Philippe, LEMAIRE, Marc, POPOWYCZ, Florence, LABOURT-IBARRE, Pierre

33: FR 31: 1157306 32: 2011-08-11

**54: DISPERSING POLYMERS WITH IMPROVED THERMAL STABILITY**

00: -

The invention relates mainly to a polymer comprising a hydrocarbon-based main chain bearing carboxylic groups and polyalkoxylated chains and up to 4% by weight of antioxidant groups, relative to the weight of the final polymer, which are grafted to the main chain. It also relates to a process for preparing such a polymer and to an adjuvant which is of use as a dispersant of suspensions of mineral particles comprising same. Finally, it relates to the use of such a polymer for fluidifying suspensions of mineral particles and reducing the water demand of hydraulic compositions.

21: 2014/00802. 22: 2/3/2014. 43: 3/5/2021

51: A01N; A23K

71: Purac Biochem B.V.

72: KOK, Symone, VOGIATZIS, Nikolaos

33: EP(NL) 31: 11173177.4 32: 2011-07-08

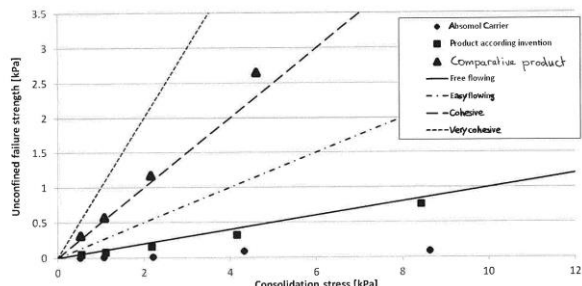
33: US 31: 61/505,810 32: 2011-07-08

**54: ACTIVE FORMULATION FOR USE IN FEED PRODUCTS**

00: -

(EN)The invention pertains to a free-flowing particulate powder comprising 2-90 wt.% of an active compound on a carrier, wherein the carrier has a D(v,0.1) of at least 100 microns, with the active compound being selected from lactylate in accordance with formula (1), Formula (1): R2-COO-[CH(CH2)-COO]<sub>n</sub>-R1 or a Na, K, Ca, Mg, Fe(II), Zn, NH<sub>4</sub>, or Cu(II) salt thereof, a glycolylate of formula (2), Formula (2): R2-COO-[CH2-COO]<sub>n</sub>-R1 or a Na, K, Ca, Mg, Fe(II), Zn, NH<sub>4</sub>, or Cu(II) salt thereof a lactate ester of formula (3), Formula (3): HO-CH(CH2)-COO-R2 and/or a glycolic acid ester of formula (4), Formula (4): HO-CH2-COO-R2 wherein in the above formulae R1 is selected from H, n stands for an integer with a value of 1-10, and R2 stands for a C1-C35 alkyl or alkenyl chain which may be branched or unbranched. The powder allows easy provision of the active compound to feed compositions.

Figure 1



21: 2014/01025. 22: 2/10/2014. 43: 3/5/2021

51: C04B; C08F; C08G; C08J; C08K

71: CHRYSO

21: 2014/01264. 22: 2/19/2014. 43: 3/5/2021

51: H04N

71: QUALCOMM Incorporated

72: CHIEN, Wei-Jung, ZHENG, Yunfei, WANG,

Xianglin, KARCZEWICZ, Marta, GUO, Liwei

33: US 31: 61/509,933 32: 2011-07-20

**54: BUFFERING PREDICTION DATA IN VIDEO CODING**

00: -

In an example, aspects of this disclosure relate to a method of coding video data that generally includes determining prediction information for a block of video data, where the block is included in a coded unit of video data and positioned below a top row of above-neighboring blocks in the coded unit, and where the prediction information for the block is based on prediction information from one or more other blocks in the coded unit but not based on prediction information from any of the top row of blocks in the coded unit. The method also generally includes coding the block based on the determined prediction information.

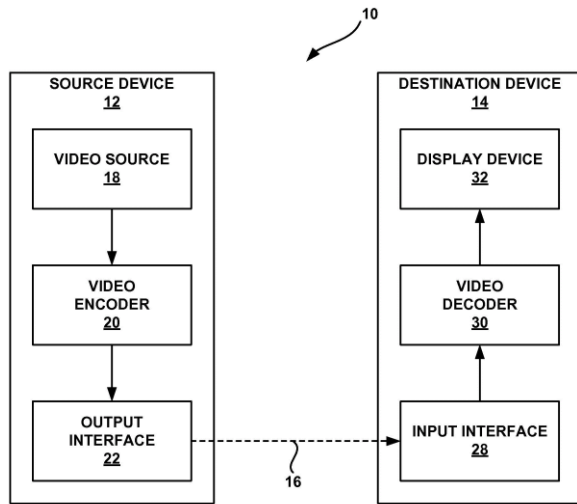


FIG. 1

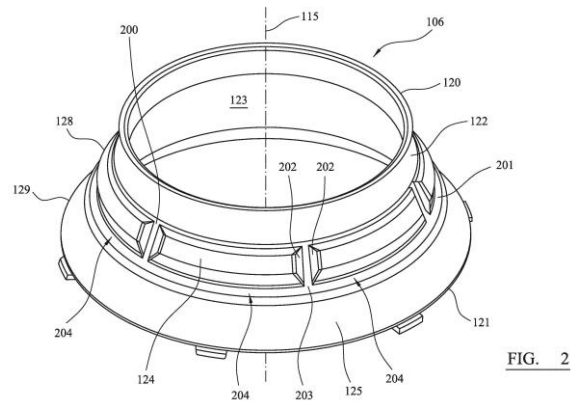


FIG. 2

21: 2014/01971. 22: 3/18/2014. 43: 3/5/2021  
 51: B02C  
 71: Sandvik Intellectual Property AB  
 72: LINDBERG, Mikael, CHRISTOFFERSSON, Andreas

**54: GYRATORY CRUSHER OUTER CRUSHING SHELL**

00: -  
 A gyratory crusher outer crushing shell. The outer crushing shell comprises an upper contact surface region that is divided into a plurality of elongate circumferentially extending shoulders. The shoulders are separated by recessed gap 5 regions adapted to accommodate a suitable backing material to structurally reinforce the shell. A channel extends circumferentially around the shell in the outward facing surface to axially separate the upper contact surface region from a lower contact surface region. The channel is also adapted to accommodate the backing material.

21: 2014/02074. 22: 3/20/2014. 43: 3/5/2021

51: A61M

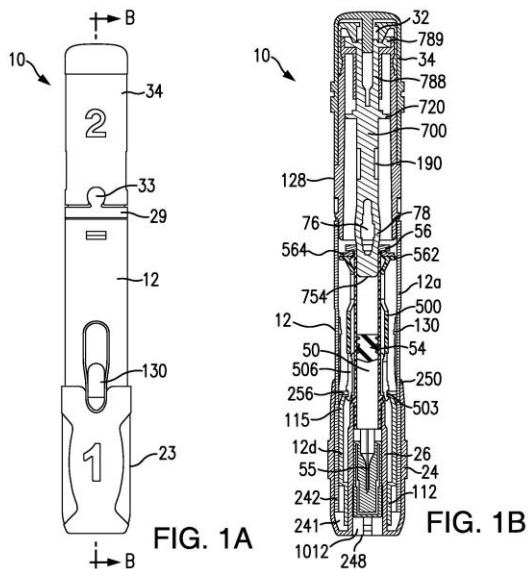
71: AbbVie Inc.

72: SHANG, Sherwin S., TSVIRKO, Eduard, CHIM, Edwin, SOMASHEKAR, Shubha Chethan, OZDARYAL, Esra, JULIAN, Joseph F., LI, Chuan  
 33: US 31: 61/538,098 32: 2011-09-22

**54: AUTOMATIC INJECTION DEVICE**

00: -

Automatic injection device includes a housing, a syringe, a plunger, and a syringe carrier. The housing includes a barrel between a first end and a second end. The barrel includes an elongated window to allow viewing of contents inside the housing. The syringe is disposed within the housing and has a reservoir. The plunger is at least partially disposed within the syringe and includes a visual indicator. The syringe carrier is disposed within the housing and configured to contain the syringe and displace the syringe within the housing between a first position and a second position. The syringe carrier can be substantially transparent. The syringe carrier can have first and second legs and an extension disposed therebetween, and at least a portion of the extension can be configured to align with the window and the reservoir when the syringe carrier is in the first position.



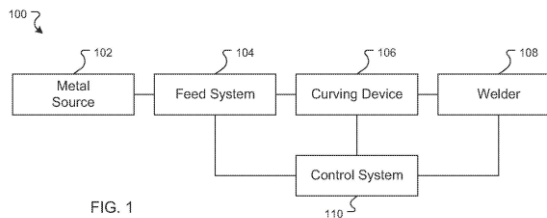
preparing both the solid composition and the aqueous dispersion, as well as to their use in therapy for the treatment and/or prevention of retroviral infections such as human immunodeficiency virus (HIV).

21: 2014/02257. 22: 3/26/2014. 43: 3/5/2021  
51: B21B

71: Keystone Tower Systems, Inc.  
72: SMITH, Eric D., TAKATA, Rosalind K., SLOCUM, Alexander H., NAYFEH, Samir A.  
33: US 31: 61/537,013 32: 2011-09-20

**54: TAPERED STRUCTURE CONSTRUCTION**  
00: -

Feeding stock used to form a tapered structure into a curving device such that each point on the stock undergoes rotational motion about a peak location of the tapered structure; and the stock meets a predecessor portion of stock along one or more adjacent edges.



21: 2014/02165. 22: 3/24/2014. 43: 3/5/2021  
51: A61K

71: The University of Liverpool  
72: GIARDIELLO, Marco Norman, McDONALD, Thomas Oliver, OWEN, Andrew, RANNARD, Steven Paul, LONG, James, MARTIN, Philip John, SMITH, Darren Lee

33: GB 31: 1115634.6 32: 2011-09-09  
**54: COMPOSITIONS OF LOPINAVIR**  
00: -

The present invention relates to a solid composition and an aqueous dispersion comprising nanoparticles of the anti-retroviral drug lopinavir. The solid composition and aqueous dispersion additionally comprise a mixture of a hydrophilic polymer and a surfactant. The surfactant is selected from vitamin-E-polyethylene glycol-succinate (Vit- E-PEG-succinate), a polyoxyethylene sorbitan fatty acid ester, N-alkyldimethylbenzylammonium chloride, sodium deoxycholate, dioctyl sodium sulfosuccinate, polyethyleneglycol-12-hydroxystearate, polyvinyl alcohol (PVA), and a block copolymer of polyoxyethylene and polyoxypropylene, or a combination thereof. The hydrophilic polymer is suitably selected from polyvinyl alcohol (PVA), a polyvinyl alcohol-polyethylene glycol graft copolymer, a block copolymer of polyoxyethylene and polyoxypropylene, polyethylene glycol, hydroxypropyl methyl cellulose (HPMC), and polyvinylpyrrolidone, or a combination thereof. The present invention also relates to processes for

21: 2014/02258. 22: 3/26/2014. 43: 3/5/2021  
51: A61K; A61P; C07K

71: Amgen Inc.  
72: DELANEY, John M., FANSLOW III, William Christian, KING, Chadwick Terence  
33: US 31: 61/538,024 32: 2011-09-22

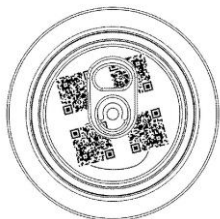
**54: CD27L ANTIGEN BINDING PROTEINS**  
00: -

The present invention relates to CD27L antigen binding proteins, such as antibodies, polynucleotides encoding said CD27L antigen binding proteins, antibody drug conjugate compositions, and methods for diagnosing and treating diseases associated with CD27L expression.

	Epitope Bin	Affinity Hu BliaCore K <sub>d</sub> nM	Native cell Avidity EC50 nM	Cyno Avidity EC50 nM	ADCC EC50 nM	ADCP EC50 pM	CDC # EC50 nM	Internalization T % (hr)
Chimeric mouse anti-human CD27L	3	1.25	0.60	2.22	0.195	2.17	2.64	0.41
Ab1	1	0.62	0.32	0.05	0.021	1.12	1.0	1.03
Ab2	1	0.59	0.24	0.24	0.034	1.19	1.17	0.69
Ab3	1	4.35	4.18	2.80	0.715	64.8	10.6	0.49
Ab4	3	3.05	0.25	0.48	0.332	1.55	1.54	0.30
Ab5	2	10.4	0.66	1.40	0.422	2.36	3.28	0.75
Ab6	4	6.06	0.87	0.87	0.167	1.88	4.20	1.08
Ab7	4	0.71	0.18	0.43	0.076	0.80	0.64	0.43
Ab8	2	10.8	0.09	0.34	> 67	1.60	> 67	1.81

21: 2014/02262. 22: 3/26/2014. 43: 3/5/2021  
 51: B41M; B65D; G06K  
 71: Crown Packaging Technology, Inc.  
 72: RAMSEY, Christopher Paul, McGIRR, Laura Jane  
 33: US 31: 61/539,784 32: 2011-09-27  
**54: CAN ENDS HAVING MACHINE READABLE INFORMATION**

00: -  
 A system and method for laser marking can end, including a can end center panel and/or pull tab. The decorated can end and/or tabs may have a machine readable image.



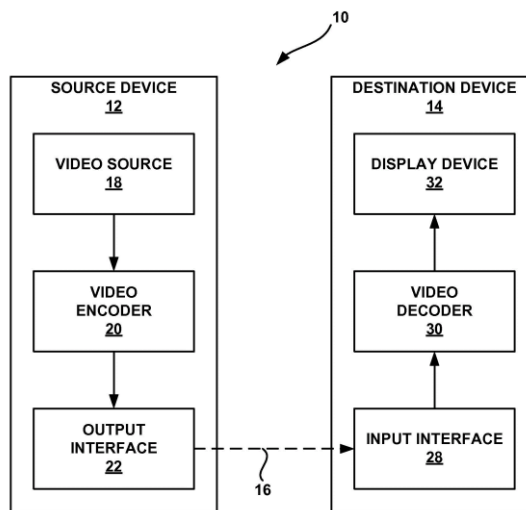
21: 2014/02734. 22: 4/14/2014. 43: 3/5/2021  
 51: B03D  
 71: Cytec Technology Corp.  
 72: NAGARAJ, Devarayasamudram R., RICCIO, Peter, BHAMBHANI, Tarun, ROTHENBERG, Alan S., QUINTANAR, Carmina, WANG, Bing  
 33: US 31: 61/548,402 32: 2011-10-18  
**54: COLLECTOR COMPOSITIONS AND METHODS OF USING THE SAME**

00: -  
 Formulations for value mineral collector compositions composed of at least one first collector selected from an organic ammonium salt of an organic sulfur-containing acid; and at least one second collector selected from neutral collectors and/or organic ammonium salts of an organic sulfur-containing acids, such that the second collector is

different from said first collector, are provided herein, along with methods for making and using same.

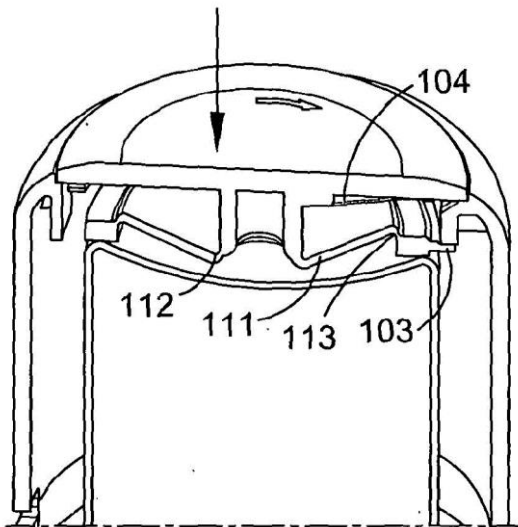
21: 2014/02834. 22: 4/16/2014. 43: 3/5/2021  
 51: H04N  
 71: QUALCOMM Incorporated  
 72: WANG, Xianglin, ZHENG, Yunfei, SEREGIN, Vadim, KARCZEWICZ, Marta  
 33: US 31: 61/535,964 32: 2011-09-17  
**54: MOTION VECTOR DETERMINATION FOR VIDEO CODING**

00: -  
 For each prediction unit (PU) belonging to a coding unit (CU), a video coder generates a candidate list. The video coder generates the candidate list such that each candidate in the candidate list that is generated based on motion information of at least one other PU is generated without using motion information of any of the PUs belonging to the CU. After generating the candidate list for a PU, the video coder generates a predictive video block for the PU based on one or more reference blocks indicated by motion information of the PU. The motion information of the PU is determinable based on motion information indicated by a selected candidate in the candidate list for the PU.



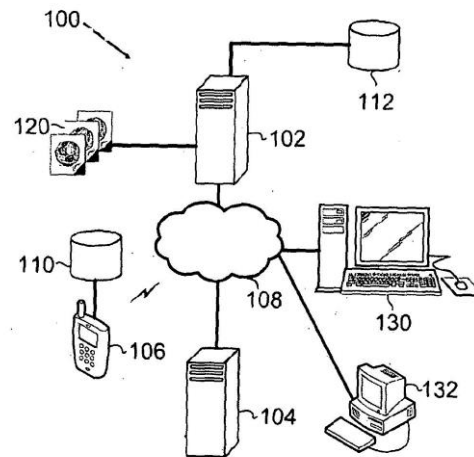
21: 2014/03156. 22: 4/30/2014. 43: 3/5/2021  
 51: A61M; B65D  
 71: EURO-CELTIQUE S.A.  
 72: DUIGNAN, Cathal, PRIOR, Peter  
 33: GB 31: 1118842.2 32: 2011-11-01  
**54: DISPENSER CAP ARRANGEMENT**

00: -  
 The present invention relates to a dispenser cap arrangement for enclosing a portion of a dispenser of a medicament. In particular, the present invention relates to a dispenser cap arrangement, a dispenser cap a dispenser cap closure device, a method of closing a dispenser, and a closure arrangement. The dispenser cap arrangement comprises a dispenser cap (71) comprising a hollow body having a lower open end for engaging with a body portion of a dispenser, and an upper open end for receiving a cap closure device for closing the upper open end, the upper open end comprising an engageable portion; and a cap closure device, comprising: an upper cap closure portion (101) for engaging with the upper open end of the dispenser cap to close the upper open end of the dispenser cap; a lower cap closure portion (102) for engaging with the engageable portion to secure the cap closure device to the dispenser cap; and a bistable portion (111, 112, 113) connecting the upper cap portion and the lower cap closure portion, the bistable portion being switchable between a first stable form in which the bistable portion is extended, and a second stable form in which the bistable portion is collapsed, wherein, when the bistable portion is in the second stable form, the upper cap closure portion engages with the upper open end of the dispenser cap to close the dispenser cap.



21: 2014/03236. 22: 5/5/2014. 43: 3/5/2021  
 51: G06F; G06Q

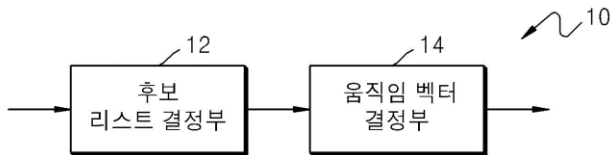
71: Gelliner Limited  
 72: MOSHAL, Martin Paul  
 33: GB 31: 1119375.2 32: 2011-11-10  
**54: INVOICE PAYMENT SYSTEM AND METHOD**  
 00: -  
 A code scanner (106) scans a quick response (QR) code that encodes a merchant identification codes assigned to a merchant that generates an invoice. The first invoice comprises invoice data. The code scanner decodes the QR code to recover the merchant identification code encoded within the QR code. The code scanner can display the invoice data and one or more selectable payment instruments. The code scanner selects a first payment instrument to pay the first invoice. The code scanner transmits, to an application server (102) for attempting to pay the invoice, the merchant identification code, data pertaining to the selected payment instrument, and at least a portion of the invoice data. The application server can attempt to pay the invoice and notify the code scanner whether the attempt to pay the invoice was successful. The code scanner can display notification that indicates whether attempt to pay the invoice was successful.



21: 2014/03267. 22: 5/6/2014. 43: 3/5/2021  
 51: H04N  
 71: Samsung Electronics Co., Ltd.  
 72: KIM, Il-Koo, PARK, Young-o  
 33: US 31: 61/557,133 32: 2011-11-08  
**54: METHOD AND DEVICE FOR DETERMINING MOTION VECTOR FOR VIDEO CODING OR VIDEO DECODING**  
 00: -



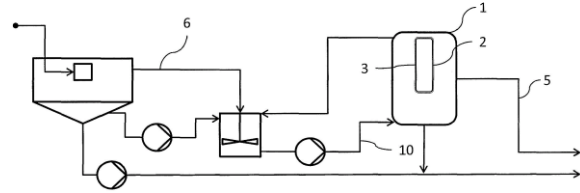
The present invention provides a method for determining a motion vector by means of motion vector prediction, and a device for the same. Disclosed is a motion vector determination method in which a candidate motion vector list is determined, the list comprising motion vectors for a plurality of candidate blocks referenced for the prediction of a motion vector for a current block, and if the reference picture for a first candidate block, among the plurality of candidate blocks, is different to the reference picture of the current block, whether or not to use, from the candidate motion vector list, the motion vector of the first candidate block is determined on the basis of whether the reference picture of the current block and the reference picture of the first candidate block are each a short-term reference picture or a long-term reference picture, and thus the motion vector for the current block is determined using the candidate motion vector selected from among the motion vectors included in the candidate motion vector list.



12 ... Candidate list determination unit  
14 ... Motion vector determination unit

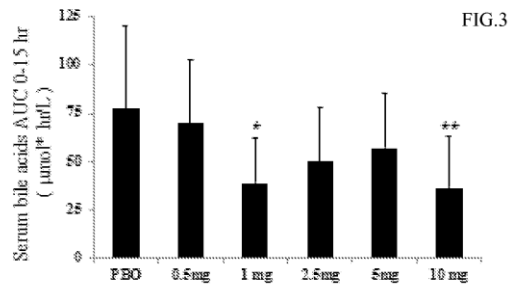
21: 2014/03344. 22: 5/9/2014. 43: 3/5/2021  
51: B01D  
71: Outotec (Filters) Oy  
72: TANTTU, Leena, KAUPPI, Janne, OINONEN, Yrjö  
33: FI 31: 20116000 32: 2011-10-11  
**54: METHOD FOR PREPARING A PRECOAT ON THE SURFACE OF THE FILTER MEDIUM OF A POLISHING FILTER, POLISHING FILTER AND USE OF A POLISHING FILTER**

00: -  
Method for preparing a precoat (3) on the surface of the filter medium (2) of a polishing filter (1), polishing filter (1) and use of a polishing filter. The essential feature in the invention is that in the polishing filter (1), the precoat (3) is formed either exclusively or jointly from the underflow created in the separation process.



21: 2014/03367. 22: 12/05/2014. 43: 4/30/2021  
51: A61K; A61P  
71: SHIRE HUMAN GENETIC THERAPIES, INC.  
72: GEDULIN, Bronislava, GREY, Michael, O'DONNELL, Niall  
33: US 31: 61/553,094 32: 2011-10-28  
33: US 31: 61/607,487 32: 2012-03-06  
**54: BILE ACID RECYCLING INHIBITORS FOR TREATMENT OF HYPERCHOLEMIA AND CHOLESTATIC LIVER DISEASE**

00: -  
Provided herein are methods of treating or ameliorating hypercholeemia or a cholestatic liver disease by administering to an individual in need thereof a therapeutically effective amount of an Apical Sodium- dependent Bile Acid Transporter Inhibitor (ASBTI) or a pharmaceutically acceptable salt thereof. Also provided are methods for treating or ameliorating a liver disease, decreasing the levels of serum bile acids or hepatic bile acids, treating or ameliorating pruritis, reducing liver enzymes, or reducing bilirubin comprising administering to an individual in need thereof a therapeutically effective amount of ASBTI or a pharmaceutically acceptable salt thereof.



LUM001 decreases serum bile acids AUC 0-15 hr in study NB4-02-06-003 (measured on day 14; \* p < 0.05, \*\* p < 0.01 compared to placebo)

21: 2014/03550. 22: 5/15/2014. 43: 3/5/2021  
51: A61K; A61P; C07K  
71: AdrenoMed AG  
72: BERGMANN, Andreas  
33: EP(DE) 31: 11189452.3 32: 2011-11-16

**54: ANTI-ADRENOMEDULLIN (ADM) ANTIBODY OR ANTI-ADM ANTIBODY FRAGMENT OR ANTI-ADM NON-IG SCAFFOLD FOR REGULATING THE FLUID BALANCE IN A PATIENT HAVING A CHRONIC OR ACUTE DISEASE**

00: -

Patients having a chronic or acute disease or acute condition, especially patients at the ICU (Intensive Care Unit) suffer from fluid imbalance. It was the subject of the present disclosure to provide a medicament for regulating the fluid balance and/or improving the fluid balance of such patients. Subject matter of the present disclosure is an anti-Adrenomedullin (ADM) antibody or an anti-adrenomedullin antibody fragment or an anti-ADM non-Ig scaffold for regulating the fluid balance in a patient having a chronic or acute disease or acute condition. Subject matter of the present disclosure is a method for regulating the fluid balance in a patient having a chronic or acute disease or acute condition. Subject matter of the present disclosure is an anti-Adrenomedullin ADM antibody or anti-ADM non-Ig scaffold or an anti-adrenomedullin antibody fragment for use in therapy of a chronic or acute disease or acute condition of a patient for the regulation of fluid balance.

21: 2014/03678. 22: 5/20/2014. 43: 3/5/2021  
51: C12M

71: Innovation Hammer LLC

72: NONOMURA, Arthur M.

33: US 31: 61/561,992 32: 2011-11-21

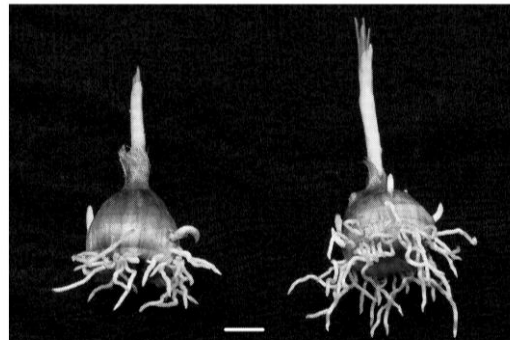
**54: METHODS AND SYSTEMS FOR GROWING PLANTS USING SILICATE-BASED SUBSTRATES, CULTIVATION OF ENHANCED PHOTOSYNTHETIC PRODUCTIVITY AND PHOTOSAFENING BY UTILIZATION OF EXOGENOUS GLYCOPYRANOSIDES FOR ENDOGENOUS GLYCOPYRANOSYL-PROTEIN DERIVATIVES, AND FORMULATIONS, PROCESSES AND SYSTEMS FOR THE SAME**

00: -

Methods for promoting plant growth based on novel photosafening treatment regimes with glycopyranosides including glycopyranosylglycopyranosides, and aryl- $\alpha$ -D-glycopyranosides, and more specifically, with one or more compounds comprising terminal mannosyl-triose, optionally in the presence of light enhanced by one or more light reflecting and/or refracting members such as silicon-based substrates.

Furthermore, chemical synthesis processes for the above compounds are disclosed for general application to plants. Silicate microbeads of the like are distributed over the ground or substrate in which roots of a plant are supported and planted, beneath and around a plant in a manner that light is refracted or reflected toward the phylloplane.

APM-treated Crocus (right) shows advanced root and shoot development as compared to Control (left) when hydroponically cultivated in 700  $\mu$ m nmd sodalime silicate microbeads. (Scale bar, 1 cm)



21: 2014/03807. 22: 5/23/2014. 43: 3/5/2021  
51: H04N

71: QUALCOMM Incorporated

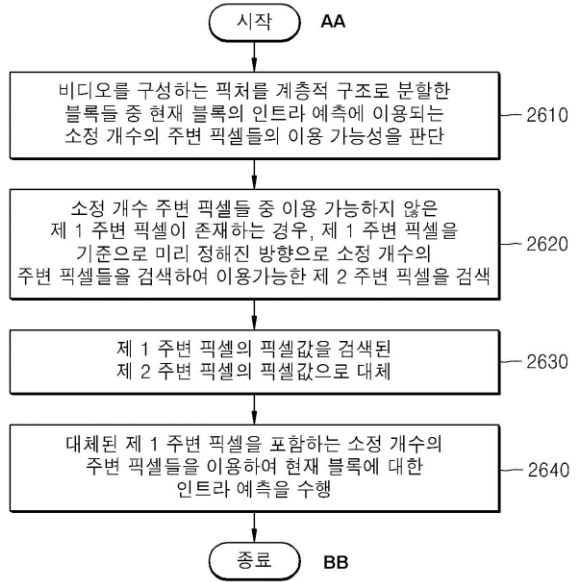
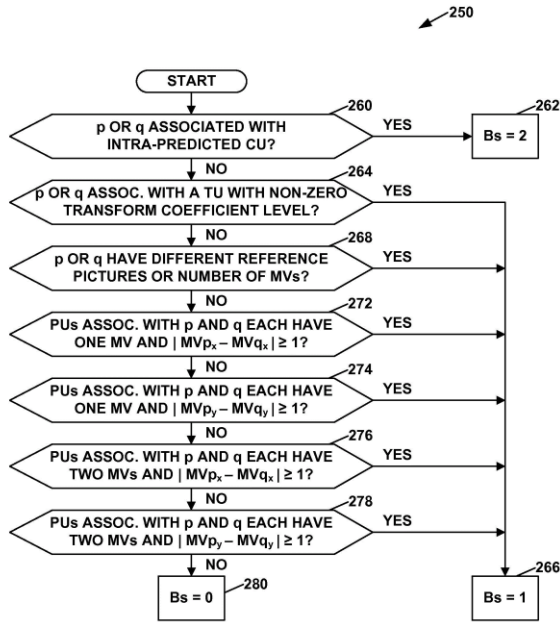
72: VAN DER AUWERA, Geert, KARCZEWICZ, Marta, WANG, Xianglin

33: US 31: 61/551,325 32: 2011-10-25

**54: DETERMINING BOUNDARY STRENGTH VALUES FOR DEBLOCKING FILTERING FOR VIDEO CODING**

00: -

A video coder associates a first boundary strength value with an edge in response to determining that a first video block or a second video block is associated with an intra-predicted coding unit (CU), where the edge occurs at a boundary between the first video block and the second video block. The video coder may associate a second or a third boundary strength value with the edge when neither the first video block nor the second video block is associated with an intra-predicted CU. The video coder may apply one or more deblocking filters to samples associated with the edge when the edge is associated with the first boundary strength value or the second boundary strength value. The third boundary strength value indicates that the deblocking filters are turned off for the samples associated with the edge.



AA ... Start  
BB ... End

- 2610 ... Among blocks in which pictures for constituting video are partitioned by hierarchical structure, availability of predetermined number of peripheral pixels used for intra prediction of current block is determined
- 2620 ... If unavailable first peripheral pixel exists among predetermined number of peripheral pixels, predetermined number of peripheral pixels are searched for in predetermined direction based on first peripheral pixel such that available second peripheral pixel is searched for
- 2630 ... Pixel value of first peripheral pixel is replaced with pixel value of searched second peripheral pixel
- 2640 ... Intra prediction for current block is performed by using predetermined number of peripheral pixels which include replaced first peripheral pixel

21: 2014/03876. 22: 5/27/2014. 43: 3/5/2021  
51: H04N

71: Samsung Electronics Co., Ltd.  
72: LEE, Tammy, CHEN, Jianle

33: US 31: 61/552,692 32: 2011-10-28

**54: METHOD AND DEVICE FOR INTRA PREDICTION OF VIDEO**

00: -

Disclosed are a method and a device for intra prediction of a video. The method for intra prediction of a video: determines the availability of a predetermined number of peripheral pixels which are used for intra prediction of a current block; searches for an available second peripheral pixel by searching for the predetermined number of the peripheral pixels in a predetermined direction on the basis of an unavailable first peripheral pixel, if the unavailable first peripheral pixel exists; and replaces a pixel value of the first peripheral pixel with a pixel value of the searched second peripheral pixel. The invention performs a replacement step using peripheral pixels which are immediately adjacent in the predetermined direction relative to an unavailable third peripheral pixel at a different position, except for the first peripheral pixel at the predetermined position.

21: 2014/04245. 22: 6/9/2014. 43: 3/5/2021  
51: A21D; A23C; A23D; A23L

71: IP Science Limited  
72: PETYAEV, Ivan

33: GB 31: 1121519.1 32: 2011-12-14

**54: FAT-BASED FOOD PRODUCTS**

00: -

The invention is in particular concerned with a food product comprising one or more fats or oils and a carotenoid compound. The products of the invention may be used in reducing elevated total cholesterol, triglycerides and inflammatory damage, as well as improving tissue microcirculation and tissue oxygenation.

21: 2014/04343. 22: 6/12/2014. 43: 3/5/2021  
51: E21B

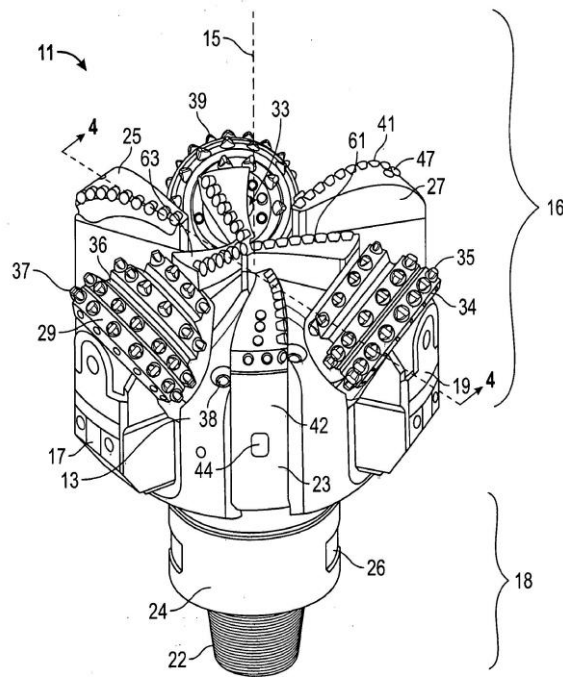
71: Baker Hughes Incorporated  
72: ZHRADNIK, Anton F., PESSIER, Rolf C., ROTHE, Mitchell A., NGUYEN, Don Q., CEPEDA,

Karlos, DAMSCHEN, Michael S., BUSKE, Robert J., HOWARD, Johnathan, VEMPATI, Chaitanya K.  
33: US 31: 61/560,083 32: 2011-11-15

**54: HYBRID DRILL BITS HAVING INCREASED DRILLING EFFICIENCY**

00: -

An earth boring drill bit is described, the bit having a bit body having a central longitudinal axis that defines an axial center of the bit body and configured at its upper extent for connection into a drillstring; at least one primary fixed blade extending downwardly from the bit body and inwardly toward, but not proximate to, the central axis of the drill bit; at least one secondary fixed blade extending radially outward from proximate the central axis of the drill bit; a plurality of fixed cutting elements secured to the primary and secondary fixed blades; at least one bit leg secured to the bit body; and a rolling cutter mounted for rotation on the bit leg; wherein the fixed cutting elements on at least one fixed blade extend from the center of the bit outward toward the gage of the bit but do not include a gage cutting region, and wherein at least one roller cone cutter portion extends from substantially the drill bit's gage region inwardly toward the center of the bit, the apex of the roller cone cutter being proximate to the terminal end of the at least one secondary fixed blade, but does not extend to the center of the bit.



21: 2014/04513. 22: 6/19/2014. 43: 3/5/2021

51: C09K

71: TUCC Technology, LLC

72: DOBSON Jr., James W., TRESCO, Kim O., HINDS, Pierre J.

33: US 31: 61/562,283 32: 2011-11-21

**54: DISSIPATIVE SURFACTANT AQUEOUS-BASED DRILLING SYSTEM FOR USE IN HYDROCARBON RECOVERY OPERATIONS FROM HEAVY OIL AND TAR SANDS**

00: -

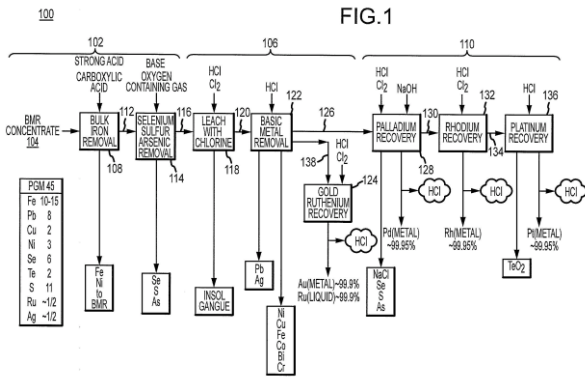
A water-based drilling fluid which includes an aqueous fluid and a water-soluble dissipative surfactant composition is described, wherein the dissipative surfactant composition includes at least one fatty acid or ester derivative of a plant or vegetable oil. Also described are methods of using such aqueous-based drilling fluids including the dissipative surfactant composition as described in hydrocarbon recovery operations associated with oil/tar sand, where such fluids act to increase the dispersant qualities of hydrocarbons within the oil/tar sand, and where such fluid exhibit a reduced coefficient of friction.

21: 2014/04609. 22: 6/23/2014. 43: 3/5/2021

51: C22B

71: Stillwater Mining Company  
 72: SHUCK, Dave, KOLSTAD, Jerry, RAPKOCH, Mark, DUNN, Grenvil Marquis  
 33: US 31: 61/566,596 32: 2011-12-02  
**54: PRECIOUS METALS RECOVERY**

00: -  
 Discloses a hydrometallurgical process and system for the recovery of precious metals; specifically palladium, rhodium, and platinum metals, at high purity and with limited waste and environmental fouling.

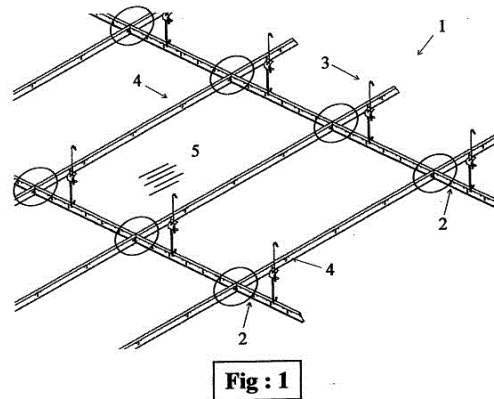


21: 2014/04790. 22: 6/27/2014. 43: 3/5/2021  
 51: A61K; C07K  
 71: Merck Patent GmbH  
 72: NASTRI, Horacio G., IFFLAND, Christel, LEGER, Olivier, AN, Qi, CARTWRIGHT, Mark, McKENNA, Sean D., SOOD, Vanita D., HAO, Gang  
 33: US 31: 61/563,903 32: 2011-11-28  
**54: ANTI-PD-L1 ANTIBODIES AND USES THEREOF**

00: -  
 The present application relates to anti-PD-L1 antibodies or antigen binding fragments thereof, nucleic acid encoding the same, therapeutic compositions thereof, and their use to enhance T-cell function to upregulate cell-mediated immune responses and for the treatment of T cell dysfunctional disorders, such as tumor immunity, for the treatment of and cancer.

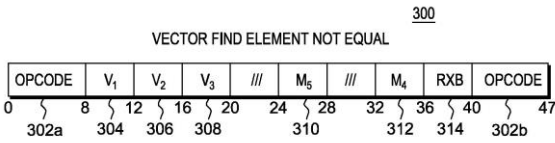
21: 2014/05719. 22: 8/1/2014. 43: 3/5/2021  
 51: E04B  
 71: Plafometal  
 72: LILLETTE, Matthieu, RIGGI, Philippe, TUROT, Xavier  
 33: FR 31: 10 04283 32: 2010-10-29  
**54: CEILING FRAMEWORK AND METHOD OF MANUFACTURING SAME**

00: -  
 The invention relates to a ceiling framework comprising main beams (2) and cross beams (4), connected to one another by means of connectors (8) which are borne by a first type of beams among the main beams (2) and the cross beams (4), and engaged in apertures (7) of the second type of beams among the main beams (2) and the cross beams (4), so as to receive tiles (5), characterized in that, for each beam of the second type, the apertures (7) are marked with symbols on each face of the beam. The invention also relates to a method of manufacturing a ceiling framework.

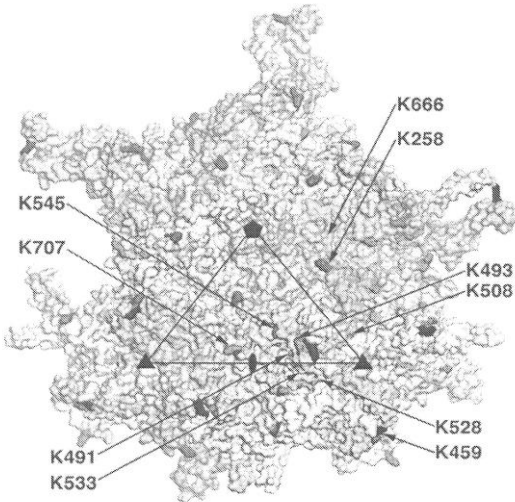


21: 2014/07243. 22: 10/6/2014. 43: 3/12/2021  
 51: G06F  
 71: International Business Machines Corporation  
 72: BRADBURY, Jonathan David, SCHWARZ, Eric Mark, SLEGEL, Timothy, GSCHWIND, Michael Karl  
 33: US 31: 13/421,442 32: 2012-03-15  
**54: VECTOR FIND ELEMENT NOT EQUAL INSTRUCTION**

00: -  
 Processing of character data is facilitated. A Find Element Not Equal instruction is provided that compares data of multiple vectors for inequality and provides an indication of inequality, if inequality exists. An index associated with the unequal element is stored in a target vector register. Further, the same instruction, the Find Element Not Equal instruction, also searches a selected vector for null elements, also referred to as zero elements. A result of the instruction is dependent on whether the null search is provided, or just the compare.

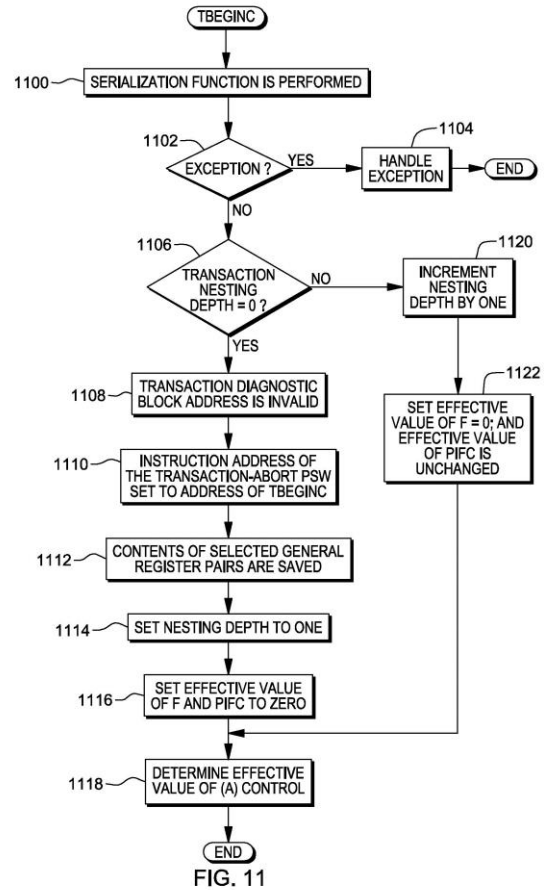


21: 2014/07582. 22: 10/17/2014. 43: 3/12/2021  
 51: A61K; C07H; C07K; C12N  
 71: The Children's Hospital of Philadelphia  
 72: YAZICIOGLU, Mustafa N., MINGOZZI, Federico, ANGUELA, Xavier, HIGH, Katherine A.  
 33: US 31: 61/635,273 32: 2012-04-18  
**54: COMPOSITION AND METHODS FOR HIGHLY EFFICIENT GENE TRANSFER USING AAV CAPSID VARIANTS**  
 00: -  
 Improved compositions and methods for AAV mediated gene therapy are disclosed.



21: 2014/08081. 22: 11/4/2014. 43: 3/12/2021  
 51: G06F  
 71: International Business Machines Corporation  
 72: GREINER, Dan, JACOBI, Christian, SLEGEL, Timothy, MITRAN, Marcel  
 33: US 31: 13/524,839 32: 2012-06-15  
**54: PROGRAM INTERRUPTION FILTERING IN TRANSACTIONAL EXECUTION**  
 00: -  
 Program exception conditions cause a transaction to abort and typically result in an interruption in which the operating system obtains control. A program interruption filtering control is provided to selectively present the interrupt. That is, the interrupt from the program exception condition may or may not be

presented depending at least on the program interruption filtering control and a transaction class associated with the program exception condition. The program interruption filtering control is provided by a TRANSACTION BEGIN instruction.



21: 2014/08314. 22: 11/12/2014. 43: 3/12/2021  
 51: B01D; E21B  
 71: Aqua Dynamics Process Technology Limited  
 72: SWEENEY, Christopher William  
 33: GB 31: 1208527.0 32: 2012-05-15  
**54: FILTERING CONTAMINANTS FROM FLUID**  
 00: -  
 The invention relates to methods of filtering contaminants from a fluid, to a filter module for filtering contaminants from a fluid, and to a filtration plant comprising at least one such filter module. In one embodiment, a method of filtering contaminants from a fluid is disclosed which comprises the steps of: directing a feedstream of a fluid containing contaminants into a filter chamber (14a) containing at least one filter element (18a); arranging at least

part of the feedstream fluid directed into the filter chamber to flow in one of: A) a forward flow direction where the fluid passes in a first direction through a wall (22a) of the filter element; and B) a reverse flow direction where the fluid passes in a second, opposite direction through the wall of the filter element. The method further comprises directing the filtrate out of the chamber and into a filtrate flowline (26) for collection; subsequently arranging the feedstream fluid directed into the filter chamber to flow through said filter element in the other one of the forward and reverse flow directions, to remove contaminant material from a surface of the wall of the element; following removal of said contaminant material by fluid flow in the other one of the forward and reverse flow directions, continuing to direct feedstream fluid through the wall of the filter element in said other direction to thereby filter out contaminants from the fluid during flow in said other direction; and subsequent to removal of said contaminant material, directing the filtrate resulting from flow through the wall of the filter element in said other flow direction out of the chamber and into the filtrate flowline for collection.

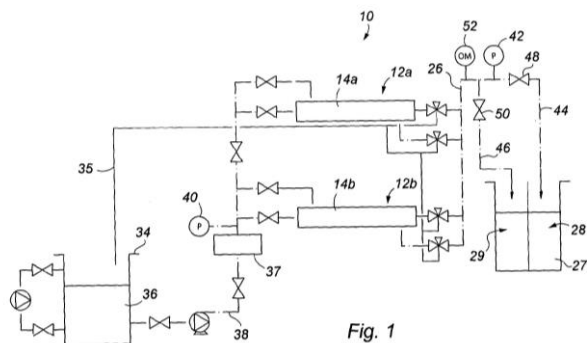


Fig. 1

21: 2014/08315. 22: 11/12/2014. 43: 3/12/2021  
51: A61M  
71: SHL Medical AG  
72: HOLMQVIST, Anders, LÖÖF, Stefan  
33: US 31: 61/625,409 32: 2012-04-17  
33: SE 31: 1250381-9 32: 2012-04-17  
**54: MEDICAMENT DELIVERY DEVICE**  
00: -

The present invention relates to a medicament delivery device having a proximal and an opposing distal end. Said device comprises a medicament container comprising a movable plunger, a neck portion and a delivery member unit; a longitudinally

extending housing along a longitudinal axis A and having a proximal open end and an opposing distal open end; a drive unit arranged at the distal end of the housing and configured to apply a force on the movable plunger; a C-shaped tubular body comprising a longitudinally extending slit/gap such that said C-shaped tubular body can be attached to the neck portion of said medicament container forming a container unit where in said C-shaped tubular body further comprises: inner support means configured to interact with the neck portion and with the delivery member unit of said medicament container such that said medicament container is prevented from being moved in relation to the C-shaped tubular body, after the medicament container is attached to said C-shaped tubular body, and outer support means configured to interact with corresponding support means of the housing such that said C-shaped tubular body is prevented from being moved in relation to the housing after the container unit is arranged within said housing through the distal open end.

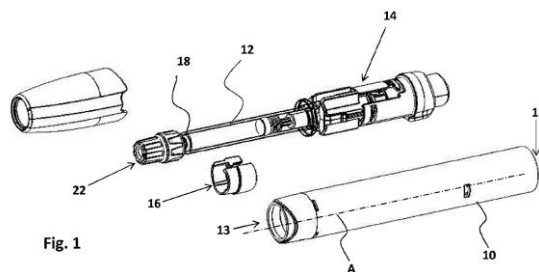
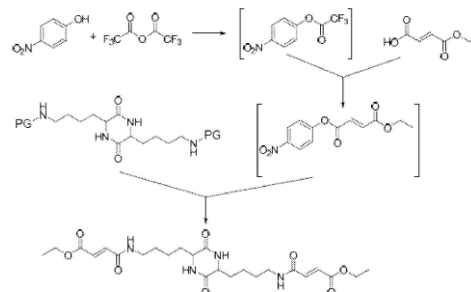
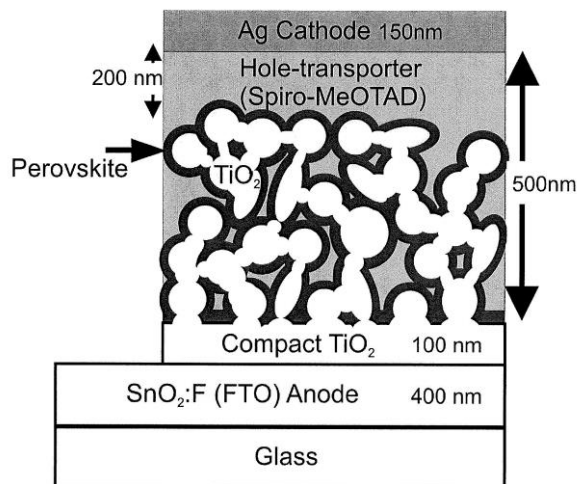


Fig. 1

21: 2014/08425. 22: 11/17/2014. 43: 3/12/2021  
51: H01G; H01L  
71: Oxford University Innovation Limited  
72: SNAITH, Henry, LEE, Michael, MURAKAMI, Takuro  
33: GB 31: 1208793.8 32: 2012-05-18  
**54: OPTOELECTRONIC DEVICES WITH ORGANOMETAL PEROVSKITES WITH MIXED ANIONS**  
00: -

The invention provides an optoelectronic device comprising a mixed-anion perovskite, wherein the mixed-anion perovskite comprises two or more different anions selected from halide anions and chalcogenide anions. The invention further provides a mixed-halide perovskite of the formula  $[I] [A][B][X]_3$ ; wherein: [A] is at least one organic cation; [B] is at least one divalent metal cation; and [X] is said two or more different halide anions. In another aspect, the invention provides the use of a mixed-anion perovskite as a sensitizer in an optoelectronic device, wherein the mixed-anion perovskite comprises two or more different anions selected from halide anions and chalcogenide anions. The invention also provides a photosensitizing material for an optoelectronic device comprising a mixed-anion perovskite wherein the mixed-anion perovskite comprises two or more different anions selected from halide anions and chalcogenide anions.



21: 2014/08429. 22: 11/17/2014. 43: 3/12/2021  
51: C07D

71: Mannkind Corp

72: KRAFT, Kelly, FREEMAN, John, SERWINSKI, Paul, PAVIA, Vinnie, PHANTSIEL, Otto, KAUR, Navneet

33: US 31: 61/639,536 32: 2012-04-27

**54: METHODS FOR THE SYNTHESIS OF ETHYLFUMARATES AND THEIR USE AS INTERMEDIATES**

00: -

Disclosed embodiments relate to improved methods for the synthesis of activated fumarate intermediates and their use in chemical synthesis. Disclosed embodiments describe the synthesis of activated fumarate esters including those derived from activating groups including: 4-nitrophenyl, diphenylphosphoryl azide, pivaloyl chloride, chlorosulfonyl isocyanate, p-nitrophenol, MEF, trifluoroacetyl and chlorine, for example, ethyl fumaroyl chloride and the subsequent use of the activated ester in situ. Further embodiments describe the improved synthesis of substituted aminoalkyl-diketopiperazines from unisolated and unpurified intermediates allowing for improved yields and reactor throughput.

21: 2014/08883. 22: 12/3/2014. 43: 3/12/2021

51: H04M

71: Interactive Intelligence, Inc.

72: BENTLEY, Warren, LEBLANC, Roger, STUMPF, Mark R.

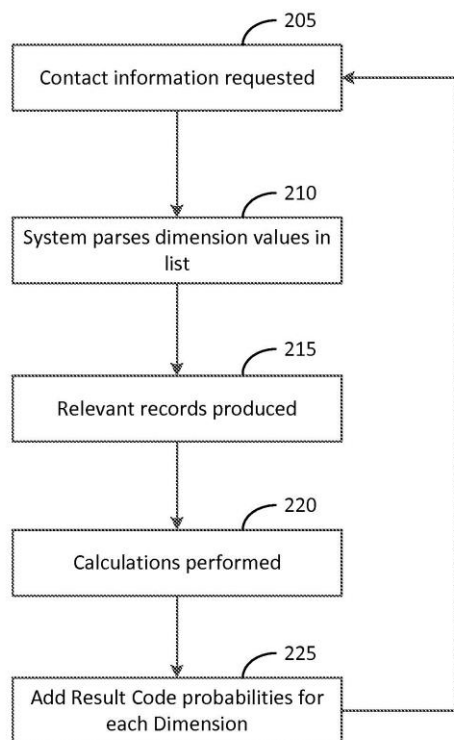
33: US 31: 61/657,925 32: 2012-06-11

**54: METHOD AND SYSTEM FOR IMPROVING THE PRODUCTIVITY OF CALLING AGENTS AND CALL YIELD**

00: -

A method and system for increasing call yield and the productivity of agents in an environment such as a contact or call center, for example, is described. Attributes may be used to classify calls and contact information. A system may learn from collected data. Calculations may be performed to aid in forecasting such as probabilities, call yield, and expected call handle time. Such calculations may be used to determine the best time to call a contact to achieve a desired result.



**200**

21: 2014/09254. 22: 12/15/2014. 43: 3/12/2021

51: A61K; A61P; C07F

71: Debiopharm International S.A.

72: PARTRIDGE, John J., COLUCCI, John, GAREAU, Yves, THERIEN, Michel, ZAMBONI, Robert, HAFKIN, Barry, MARFAT, Anthony, ZAGHDANE, Helmi

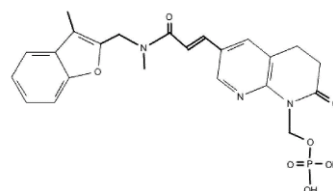
33: US 31: 61/661,559 32: 2012-06-19

**54: PRODRUG DERIVATIVES OF (E)-N-METHYL-N-((3-METHYLBENZOFURAN-2-YL)METHYL)-3-(7-OXO-5,6,7,8-TETRAHYDRO-1,8-NAPHTHYRIDIN-3-YL)ACRYLAMIDE**

00: -

In part, the present disclosure is directed to derivatives of (E)-N-methyl-N-((3-methyl-1,8-naphthyridin-3-yl)acrylamide compounds with significant solubility, solid state stability and bioavailability profiles. Said compounds have been found to be effective inhibitors of bacterial fatty acid metabolism via the effective inhibition of FabL hi

addition, certain compounds are shown to be stable towards gamma radiation sterilization treatments, and are thus well-suited to the production of a sterile formulation for use in the treatment of illnesses caused by bacterial infections.



21: 2014/09422. 22: 12/19/2014. 43: 3/12/2021

51: A61K; A61P; C07D

71: Idorsia Pharmaceuticals Ltd

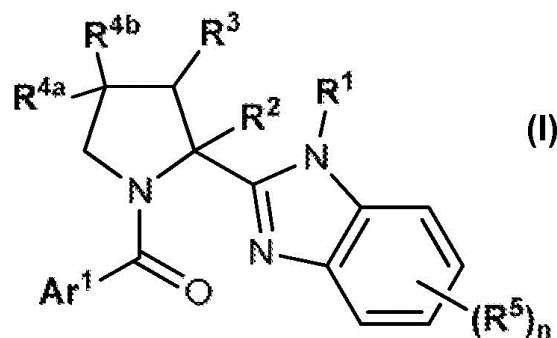
72: BOSS, Christoph, BROTSCHI, Christine, GUDE, Markus, HEIDMANN, Bibia, SIFFERLEN, Thierry, WILLIAMS, Jodi T.

33: EP(CH) 31: 12170748.3 32: 2012-06-04

**54: BENZIMIDAZOLE-PROLINE DERIVATIVES**

00: -

The present invention relates to compounds of the formula (I) wherein Ar<sup>1</sup>, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4a</sup>, R<sup>4b</sup> and (R<sup>5</sup>)<sub>n</sub> are as described in the description, to their preparation, to pharmaceutically acceptable salts thereof, and to their use as pharmaceuticals, to pharmaceutical compositions containing one or more compounds of formula (I), and especially to their use as orexin receptor antagonists.



21: 2014/09477. 22: 12/22/2014. 43: 3/12/2021

51: A61K; A61P; C07D

71: 3-V Biosciences, Inc.

72: OSLOB, Johan D., McDOWELL, Robert S., JOHNSON, Russell, YANG, Hanbiao, EVANCHIK, Marc, ZAHARIA, Cristiana A., CAI, Haiying, HU, Lily W.

33: US 31: 61/667,894 32: 2012-07-03

**54: HETEROCYCLIC MODULATORS OF LIPID SYNTHESIS**

00: -

Heterocyclic modulators of lipid synthesis are provided as well as pharmaceutically acceptable salts thereof; pharmaceutical compositions comprising such compounds; and methods of treating conditions characterized by dysregulation of a fatty acid synthase pathway by the administration of such compounds.

21: 2015/02383. 22: 4/9/2015. 43: 3/4/2021

51: A61K; A61P; C07D

71: Janssen Sciences Ireland UC

72: MC GOWAN, David Craig, LAST, Stefaan Julien, PIETERS, Serge Maria Aloysius, EMBRECHTS, Werner, JONCKERS, Tim Hugo Maria, RABOISSON, Pierre Jean-Marie Bernard

33: EP(IE) 31: 12187994.4 32: 2012-10-10

**54: PYRROLO[3,2-D]PYRIMIDINE DERIVATIVES FOR THE TREATMENT OF VIRAL INFECTIONS AND OTHER DISEASES**

00: -

This invention concerns pyrrolo[3,2-d]pyrimidine derivatives, processes for their preparation, pharmaceutical compositions, and their use in treatment and /or therapy of diseases.

21: 2015/04442. 22: 6/19/2015. 43: 3/19/2021

51: A01H; C07K; C12N

71: The New Zealand Institute for Plant and Food Research Limited

72: LAING, William Alister, HELLENS, Roger Paul, MACKNIGHT, Richard Colin, BULLEY, Sean Michael Winsley

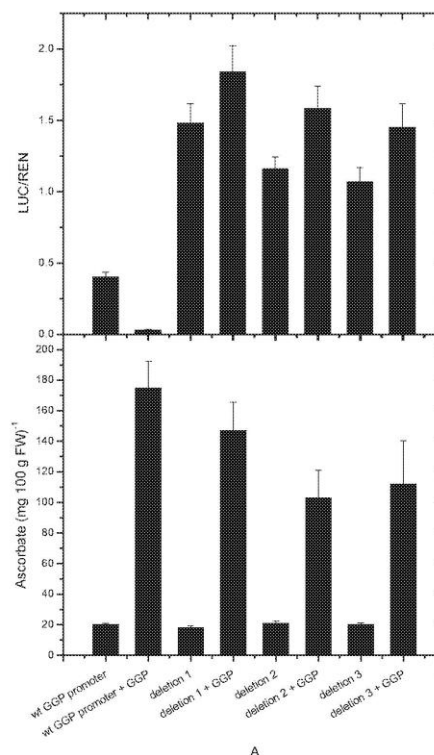
33: US 31: 61/740,751 32: 2012-12-21

**54: REGULATION OF GENE EXPRESSION**

00: -

The invention provides isolated polynucleotides comprising sequences encoding a u ORF peptides and variants and fragments thereof. The invention also provides constructs and vectors containing the polynucleotides. The invention further provides cells, plant cells and plants transformed with the polynucleotides and constructs. The invention also provides methods of using the polynucleotides to

control expression of operably linked polynucleotides. The invention also provides methods of manipulating GDP-L-Galactose phosphorylase (GGP) expression and ascorbate production in plants utilising the polynucleotides of the invention.



21: 2015/05253. 22: 7/21/2015. 43: 3/9/2021

51: B03D

71: Japan Oil, Gas and Metals National Corporation  
72: AMOS, Stephen, NAKAMURA, Ichi, LASCELLES, Dominique

33: ZA 31: 2012/09761 32: 2012-12-21

**54: CONDITIONING OF THE ORE IN THE COMMINUTION STEP AND RECOVERY OF DESIRED METAL VALUES BY FLOTATION**

00: -

The invention provides method to recover, by means of froth flotation, a desired metal value from a feedstock containing it. In a comminution step, the feedstock is comminuted using comminuting media of an iron and chrome steel alloy comprising from 12% to 30% chrome. In a conditioning step, the feedstock material is contacted with thiourea and/or oxalic acid as primary flotation reagents. The

conditioning step comprises the comminution step, in which a quantity of the primary flotation reagent/s being added and preconditioned comminuted feedstock material being obtained. The conditioning step also comprises an optional conditioning finishing step, in which a mixture of the preconditioned comminuted feedstock material and a liquid is subjected to stirring and with conditioned comminuted feedstock material being obtained from the finishing step. In a recovery step, at least some of the desired metal value is recovered by froth flotation from the preconditioned or conditioned feedstock.

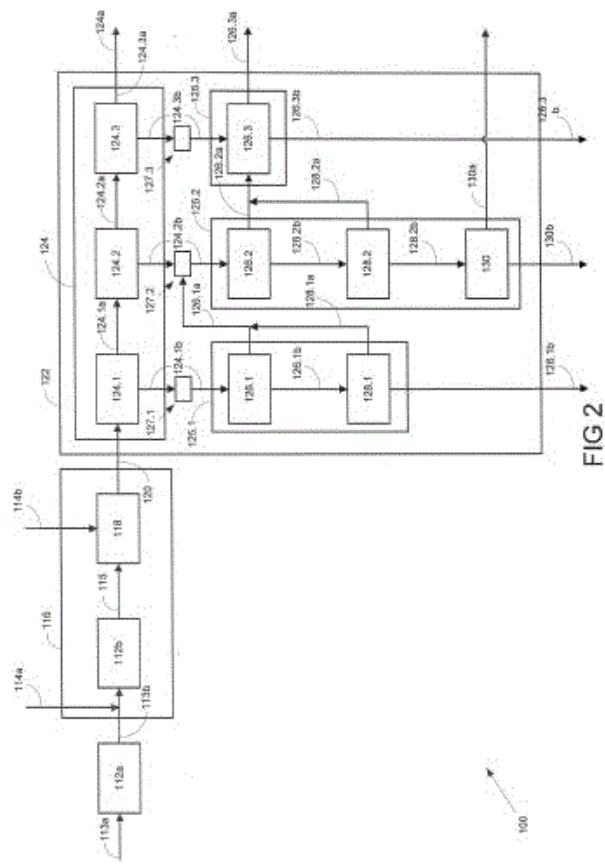
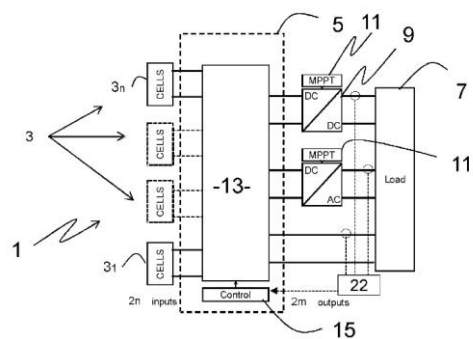


FIG 2

21: 2015/05508. 22: 31/07/2015. 43: 6/8/2016  
 51: H01L; H02J  
 71: TOTAL MARKETING SERVICES  
 72: Adrien RAMOND, Carlos CARREJO, Youssef EL BASRI, Corinne ALONSO, Bruno ESTIBALS, Lionel SEQUIER  
 33: EP 31: 13290035.8 32: 2013-02-20  
**54: ELECTRONIC MANAGEMENT SYSTEM FOR ELECTRICITY GENERATING CELLS, ELECTRICITY GENERATING SYSTEM AND**

**METHOD FOR ELECTRONICALLY MANAGING ENERGY FLOW**

00: -  
 The invention relates to an electronic management system (5) for electricity generating cells (3), the system comprising: -cell connection terminals to be connected to n associated electricity generating cells (3), n being a positive integer number, -outputs to be connected to m associated static converters (9); m being a positive integer number and at least m =2, - an energy routing module (13) adapted for routing energy flows from and between said cell connection terminals towards said outputs; and -an electronic control unit (15) adapted for controlling dynamically the energy routing module (13).



21: 2015/07481. 22: 10/8/2015. 43: 3/9/2021  
 51: A61K; A61P; C07J  
 71: AbbVie Inc.  
 72: SHEIKH, Ahmad Y., MATTEI, Alessandra, WANG, Xiu C.  
 33: US 31: 61/815,502 32: 2013-04-24  
**54: 2,2-DIFLUOROPROPIONAMIDE DERIVATIVES OF BARDOXOLONE METHYL, POLYMORPHIC FORMS AND METHODS OF USE THEREOF**

00: -  
 The present invention relates generally to the compound: N-((4aS,6aR,6bS,8aR,12aS,14aR,14bS)-11-cyano-2,2,6a,6b,9,9,12a-heptamethyl-10,14-dioxo-1,2,3,4,4a,5,6,6a,6b,7,8,8a,9,10,12a,14,14a,14b-octadecahydropicen-4a-yl)-2,2-difluoropropanamide, polymorphic forms thereof, methods for preparation and use thereof, pharmaceutical compositions thereof, and kits and articles of manufacture thereof.

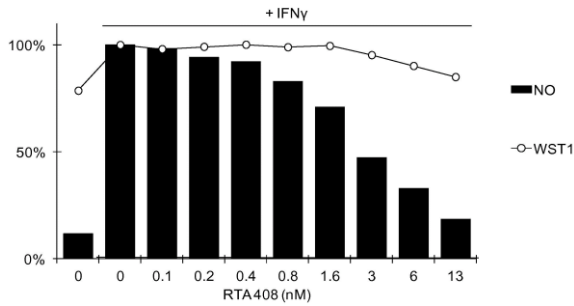


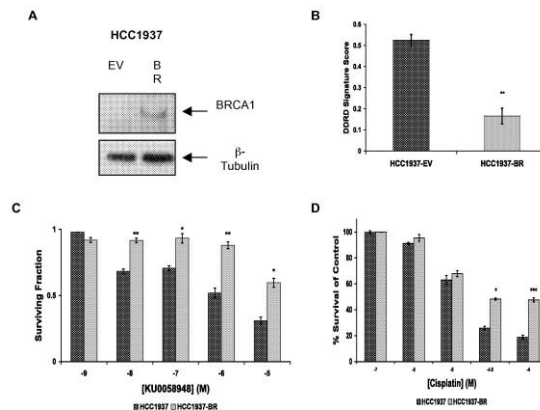
FIG. 1

21: 2015/08689. 22: 11/26/2015. 43: 3/5/2021  
51: G01N

71: Almac Diagnostics Limited  
72: O'DONNELL, Jude, BYLESJO, Max, MCDYER, Fionnuala, DEHARO, Steve, HILL, Laura A., KEATING, Katherine E., DAVISON, Timothy, PROUTSKI, Vitali, HARKIN, Denis Paul, KENNEDY, Richard, GOFFARD, Nicolas  
33: US 31: 61/383,201 32: 2010-09-15  
**54: MOLECULAR DIAGNOSTIC TEST FOR CANCER**

00: -  
Methods and compositions are provided for the identification of a molecular diagnostic test for cancer. The test defines a novel DNA damage repair deficient molecular subtype and enables classification of a patient within this subtype. The present invention can be used to determine whether patients with cancer are clinically responsive or non-responsive to a therapeutic regimen prior to administration of any chemotherapy. This test may be used in different cancer types and with different drugs that directly or indirectly affect DNA damage or repair, such as many of the standard cytotoxic chemotherapeutic drugs currently in use. In particular, the present invention is directed to the use of certain combinations of predictive markers, wherein the expression of the predictive markers correlates with responsiveness or non-responsiveness to a therapeutic regimen.

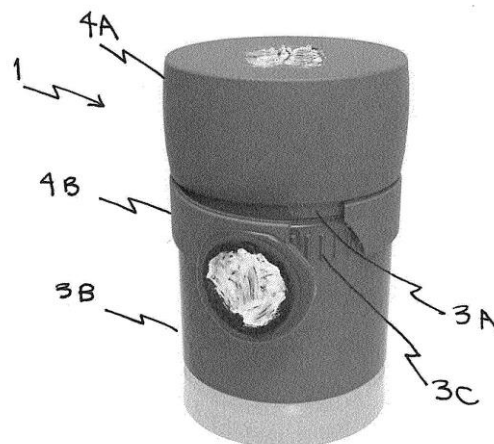
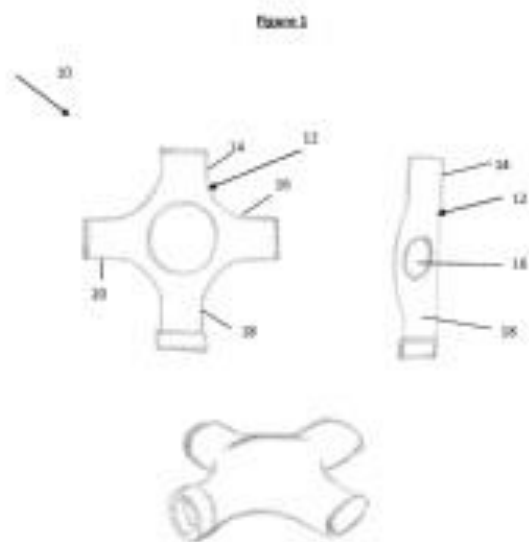
FIG. 8



21: 2016/00036. 22: 04/01/2016. 43: 9/20/2019  
51: B65D

71: VORTEX INNOVATION WORX (PTY) LTD  
72: Bester Jacobus PANSEGROUW  
33: ZA 31: 2013/05137 32: 2013-07-09  
**54: MANIFOLD ARRANGEMENT**

00: -  
The invention discloses a manifold arrangement for bulk handling of fluid material having an inner bag for holding fluid material, which includes a manifold member adapted to be located within the inner bag, the inner bag having a product inlet through which fluid material can be introduced into the inner bag and a product outlet through which the fluid material can flow from the inner bag, and being adapted to assist in forcing fluid material out of the inner bag through the product outlet and thereby reducing residue in the inner bag.



21: 2016/04977. 22: 7/18/2016. 43: 3/12/2021

51: B65D

71: GCL International S.A.R.L.

72: McPHERSON, Alexander Donald Meiklem

33: GB 31: 1401682.8 32: 2014-01-31

**54: A TAMPER-EVIDENT CLOSURE**

00: -

A tamper-evident closure (I) for a container, the closure comprising: a shell comprising a first shell part (3A) and a second shell part (3B); and a tamper-evident overcap, the overcap comprising a cap (4A) which is fixed to the exterior of the first shell part and a tamper-evident member (4B) which is releasably connected to the cap (4A) and releasably located around the exterior of at least part of the second shell part (3B), such that the first and second shell parts (3A, 3B) cannot be separated unless the member (4B) is released, and thereafter the cap (4A) is removable together with the first shell part (3A).

21: 2016/06123. 22: 9/5/2016. 43: 3/5/2021

51: A61K; A61P

71: Array BioPharma Inc.

72: FRY, David Shank, LINDEMANN, Christopher

M., PREIGH, Michael, BLOOM, Corey Jay, CRAIG,

Christopher Donovan, DUBOSE, Devon Brevard,

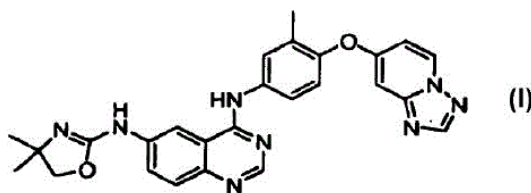
GAUTSCHI, Jeff, SMITHEY, Dan

33: US 31: 61/547,620 32: 2011-10-14

**54: PHARMACEUTICAL COMPOSITIONS OF A  
ERB2 (HER2) INHIBITOR**

00: -

A pharmaceutical composition comprising a solid dispersion of N4-(4-([1,2,4]triazolo[1,5-a]pyridin-7-yloxy)-3- methylphenyl)-N6-(4,4-dimethyl-4,5-dihydrooxazol-2-yl)quinazoline-4,6-diamine and uses thereof are provided herein.



21: 2017/00030. 22: 03/01/2017. 43: 3/12/2021

51: A01N

71: DOW AGROSCIENCES LLC

72: HERCAMP, JOSEPH C, LI, MEI, SHAO, HUI,

SHEN, HAO, ZHANG, HONG

33: US 31: 62/010,030 32: 2014-06-10

33: US 31: 62/058,484 32: 2014-10-01

**54: SOLID HERBICIDAL COMPOSITIONS  
CONTAINING A SAFENER**

00: -

Solid herbicidal compositions in the form of granules that contain pyroxsulam and cloquintocet acid are provided. These solid herbicidal compositions have excellent storage stability, are produced in a simple and efficient manner, and readily wet, disperse, and form a stable suspension in cold water.

21: 2017/00571. 22: 24/01/2017. 43: 3/19/2021  
51: C07C; A61K; A61P  
71: AGIOS PHARMACEUTICALS, INC.  
72: LEMIEUX, RENE M, POPOVICI-MULLER,  
JANETA, TRAVINS, JEREMY, CAI, ZHENWEI, CUI,  
DAWEI, ZHOU, DING

33: CN 31: PCT/CN2012/070601 32: 2012-01-19  
**54: THERAPEUTICALLY ACTIVE COMPOUNDS  
AND THEIR METHODS OF USE**

00: -  
Provided are methods of treating a cancer characterized by the presence of a mutant allele of IDH1/2 comprising administering to a subject in need thereof a compound described here.

21: 2017/00710. 22: 27/01/2017. 43: 3/12/2021  
51: A61K  
71: CSIR  
72: SCHOLEFIELD, JANINE, NAIDOO, JEROLEN,  
MHLANGA, MUSA M, BARICHIEVY, SAMANTHA  
33: ZA 31: 2014/06021 32: 2014-08-15  
33: ZA 31: 2014/09296 32: 2014-12-17

**54: PATHOGENIC CONTROL OF APOPTOSIS**

00: -  
The present invention relates to methods and compositions for modulating the control of apoptosis, specifically for modulating the interaction between hnRNP-K and lincRNA-p21 to induce or prevent apoptosis in the cell.

21: 2017/00786. 22: 01/02/2017. 43: 3/12/2021  
51: A61K; C07D; A61P  
71: NOVARTIS AG  
72: LUZZIO, Michael, Joseph, PAPILLON, Julien,  
VISSER, Michael, Scott  
33: US 31: 62/033,679 32: 2014-08-06

**54: PROTEIN KINASE C INHIBITORS AND  
METHODS OF THEIR USE**

00: -  
)PKC inhibitors are disclosed. The PKC inhibitors are useful for treating PKC associated diseases, including certain cancers. The PKC inhibitors have improved efficacy at lower dosage amounts to

achieve tumor regression, improved potency, PK profile, absorption, gastrointestinal tolerance and kinase selectivity.

21: 2017/00832. 22: 02/02/2017. 43: 3/12/2021  
51: C07K; G01N  
71: GENENTECH, INC., SPRING BIOSCIENCE  
CORPORATION, VENTANA MEDICAL SYSTEMS,  
INC.

72: LIAO, ZHIMING, KOWANETZ, MARCIN, BOYD,  
ZACHARY, KOEPPEN, HARTMUT, ZHU, YIFEI,  
ROCHE, PATRICK C, VENNAPUSA, BHARATHI  
33: US 31: 62/023,741 32: 2014-07-11

**54: ANTI-PD-L1 ANTIBODIES AND DIAGNOSTIC  
USES THEREOF**

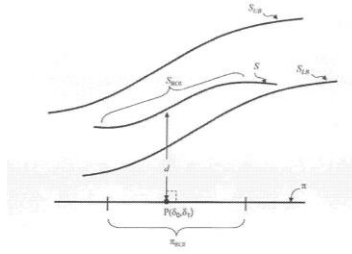
00: -  
The invention provides programmed death-ligand 1 (PD-L1) antibodies and methods of using the same.

21: 2017/00939. 22: 07/02/2017. 43: 3/19/2021  
51: G01N

71: MEMED DIAGNOSTICS LTD.  
72: EDEN, Eran, OVED, Kfir, NAVON, Roy,  
COHEN-DOTAN, Assaf, BOICO, Olga  
33: US 31: 62/037,180 32: 2014-08-14  
33: US 31: 62/105,938 32: 2015-01-21

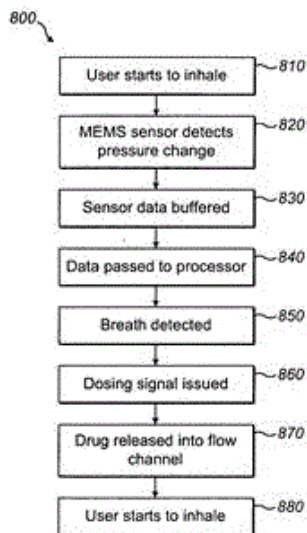
**54: COMPUTATIONAL ANALYSIS OF  
BIOLOGICAL DATA USING MANIFOLD AND A  
HYPERPLANE**

00: -  
A method of analyzing biological data containing expression values of a plurality of polypeptides in the blood of a subject. The method comprises: calculating a distance between a segment of a curved line and an axis defined by a direction, the distance being calculated at a point over the curved line defined by a coordinate along the direction. The method further comprises correlating the distance to the presence of, absence of, or likelihood that the subject has, a bacterial infection. The coordinate is defined by a combination of the expression values, wherein at least 90% of the segment is between a lower bound line and an upper bound line.



21: 2017/01046. 22: 10/02/2017. 43: 3/12/2021  
 51: A61M  
 71: MICRODOSE THERAPEUTX, INC.  
 72: MORRISON, MARK STEVEN, WEITZEL, DOUGLAS E  
 33: US 31: 62/043,126 32: 2014-08-28  
**54: TIDAL DRY POWDER INHALER WITH MINIATURE PRESSURE SENSOR ACTIVATION**  
 00: -

A tidal dry powder inhaler comprising : a miniature pressure sensor, a sensor port of said sensor being pneumatically coupled to a flow channel through which a user can inhale; a processor configured to process data received from a sensing element of the sensor to make a determination that inhalation of a spontaneous breath through said flow channel is in progress; a controller configured to, responsive to said determination, issue a start dosing signal; and a dosing mechanism configured to release dry powder medicament into the flow channel during inhalation of said spontaneous breath in response to receiving said signal.



21: 2017/01168. 22: 16/02/2017. 43: 3/12/2021

51: C07K  
 71: MEMORIAL SLOAN KETTERING CANCER CENTER  
 72: CHEUNG, NaiKong, V., AHMED, Mahiuddin, ZHAO, Qi  
 33: US 31: 62/042,457 32: 2014-08-27  
**54: ANTIBODIES, COMPOSITIONS, AND USES**  
 00: -

The present disclosure describes anti-B7H3 antibody agents and uses relating thereto. Among other things, the present disclosure demonstrates particular immunomodulatory effectiveness of certain such antibodies. The present disclosure further describes particularly high-affinity or otherwise useful antibodies and antibody agents based thereon, including particularly certain humanized and/or affinity matured versions of an 8H9 antibody. In some embodiments, provided antibody agents are useful, for example, in the treatment of cancer. In some embodiments, provided antibody agents are useful in relieving immunosuppression, for example mediated by B7H3-positive cells.

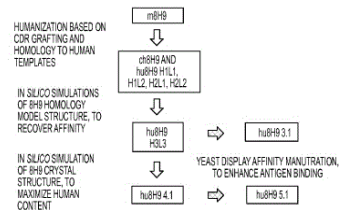


FIG. 2

21: 2017/01179. 22: 16/02/2017. 43: 3/12/2021  
 51: A61K  
 71: IO BIOTECH APS  
 72: ANDERSEN, MADH HALD  
 33: DK 31: PA 2014 70571 32: 2014-09-17  
**54: VACCINE COMPOSITIONS COMPRISING TRYPTOPHAN 2,3-DIOXYGENASE OR FRAGMENTS THEREOF**  
 00: -

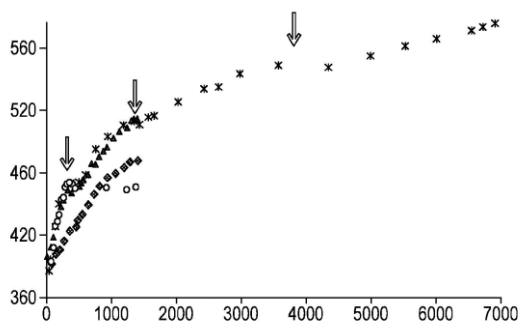
The invention relates to prophylaxis and therapy of cancer. In particular there is provided a protein Tryptophan 2,3-dioxygenase (TDO) or peptide fragments here of that are capable of eliciting anti-cancer immune responses. Specifically, the invention relates to the use of TDO or peptides derived thereof or TDO specific T-cells for treatment

of cancer. The invention thus relates to an anti-cancer vaccine which optionally may be used in combination with other immunotherapies and to TDO specific T-cells adoptively transferred or induced in vivo by vaccination as a treatment of cancer. It is an aspect of the invention that the medicaments herein provided may be used in combination with cancer chemotherapy treatment. A further aspect relates to the prophylaxis and therapy of infections by the same means as described above

21: 2017/01246. 22: 2/20/2017. 43: 2/26/2021  
51: B01L; C12Q  
71: Touchlight IP Limited  
72: PORTER, Neil, ROTHWELL, Paul, EXTANCE, Jonathan  
33: GB 31: 1415789.5 32: 2014-09-05

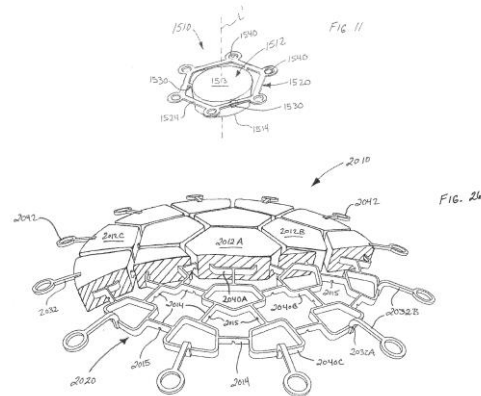
#### 54: SYNTHESIS OF DNA

00: -  
The present invention relates to an improved process for synthesis of DNA, RNA, proteins and like molecules, in particular cell-free enzymatic synthesis of DNA, preferably in large scale. The present invention relates to the synthesis of DNA using strand-displacement replication and the addition of nucleotides to the reaction mixture is controlled, thus controlling yield. The reaction mixture contains a starting amount of nucleotides, polymerase and DNA template, to which further nucleotides are supplied in a controlled manner.



21: 2017/01290. 22: 2/21/2017. 43: 3/12/2021  
51: A61B; A61F  
71: OssDsign AB  
72: ENGSTRAND, Thomas, BOHLIN, Jan, ÅBERG, Jonas, ENGQVIST, Håkan  
33: US 31: 62/037,595 32: 2014-08-14  
**54: BONE IMPLANTS FOR CORRECTING BONE DEFECTS**

00: -  
A mosaic implant (2010) comprises a mesh support frame comprising a plurality of polygonal support rings (2040 A, B, C) connected by a plurality of struts (2014), and a plurality of mosaic plates (2012). The support rings are positioned within the mosaic plates; the struts extend between adjacent plates. An implant (1510) for filling a bore hole comprises a plate (1512) and a support frame (1520) having a central portion (1522) located at least partially within the plate, a polygonal outer rim (1524) having a plurality of fastening points for attaching the implant to bone surrounding a bore hole, and a plurality of arms (1530) extending between the central portion and the outer rim. The plurality of arms extend inwardly and downwardly away from the outer rim such that the central portion is located below the plane of the outer rim and the upper surface of the plate is flush with or slightly above the upper surface of the outer rim.

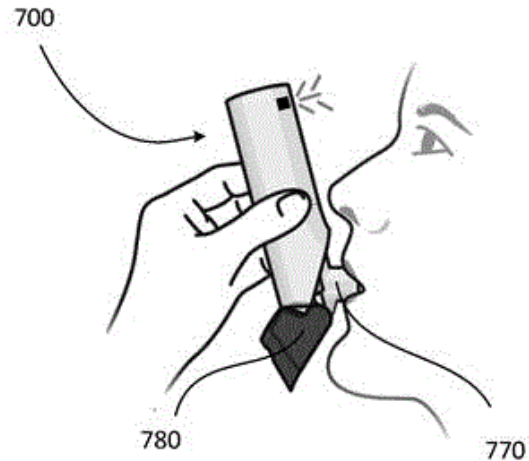
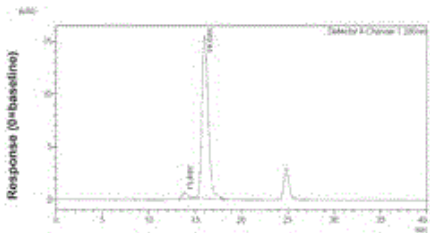
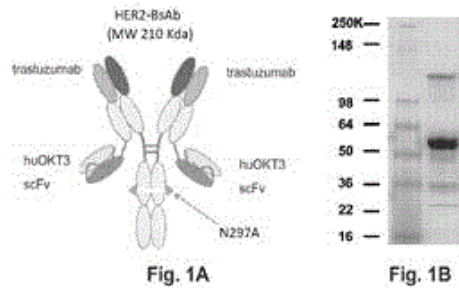


21: 2017/01341. 22: 22/02/2017. 43: 3/12/2021  
51: C07K; A61K; A61P  
71: MEMORIAL SLOAN KETTERING CANCER CENTER  
72: CHEUNG, NAI-KONG V, LOPEZ-ALBAITERO, ANDRES, XU, HONG  
33: US 31: 62/029,342 32: 2014-07-25  
**54: BISPECIFIC HER2 AND CD3 BINDING MOLECULES**

00: -  
Provided herein are compositions, methods, and uses involving bispecific binding molecules that specifically bind to HER2, a receptor tyrosine kinase, and to CD3, a T cell receptor, and mediate T cell cytotoxicity for managing and treating disorders, such as cancer. Also provided herein are uses and



methods for managing and treating HER2 -related cancers.

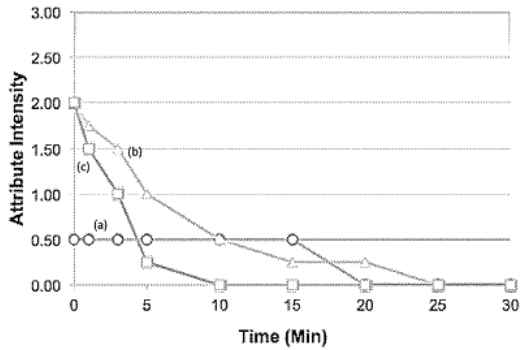


21: 2017/01458. 22: 27/02/2017. 43: 3/12/2021  
 51: A61M  
 71: NORTON (WATERFORD) LIMITED  
 72: CALDERON OLIVERAS, ENRIQUE, BUCK, DANIEL, FLEMING, FREDERIC SCOTT, WEITZEL, DOUGLAS E  
 33: US 31: 62/043,120 32: 2014-08-28  
**54: COMPLIANCE-ASSISTING MODULE FOR AN INHALER**  
 00: -

An inhaler includes a mouthpiece cover, a pressure sensor, a first indicator and a second indicator. The first indicator may be configured to indicate based on a state of the cover, and the second indicator may be configured to indicate based on an output of the pressure sensor. For example, when the mouthpiece cover opens, the first indicator may illuminate and a dose of medication may be transferred from a reservoir to a dosing cup. The second indicator may illuminate if an amount of inhaled medication reaches a predetermined threshold for successful inhalation.

21: 2017/01487. 22: 2/28/2017. 43: 3/12/2021  
 51: A61K  
 71: CEMPRA PHARMACEUTICALS, INC.  
 72: PEREIRA, David, Eugene, MAJURU, Shingai, FERNANDES, Prabhavathi  
 33: US 31: 62/173,609 32: 2015-06-10  
 33: US 31: 62/033,601 32: 2014-08-05  
**54: POWDER ORAL SUSPENSION FORMULATIONS OF ANTIBACTERIAL AGENTS**  
 00: -

Powder oral suspension formulations of antibacterial compounds are described herein. In addition, reconstitutable powders of antibacterial compounds and oral suspension formulations thereof are described herein. For many years, there has been a long-felt need for an oral suspension formulation for treating bacterial infections. It is well-understood that pediatric indications rely on such formulations for the effective treatment of bacterial infections in children and infants. In addition, other patients, such a geriatric patients, who cannot or will not swallow tablets or capsules, especially when they are above certain dimensional limits, also rely on such formulations for the effective treatment of bacterial infections.



21: 2017/01566. 22: 3/3/2017. 43: 3/12/2021  
51: C06C

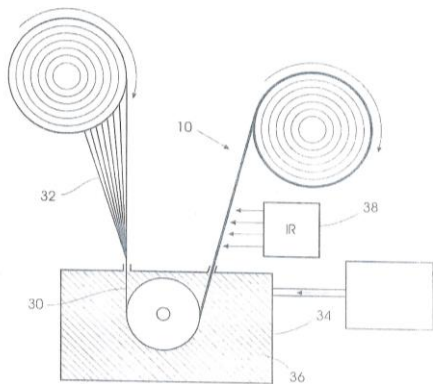
71: DETNET SOUTH AFRICA (PTY) LTD  
72: CLARE CONBOY, DANIEL MACE, JOHN STANTON, CHARLOTTE STOKES

33: ZA 31: 2016/01282 32: 2016-02-25

**54: DETONATOR CONNECTION CABLE**

00: -

A cable which includes a fibrous core, conductive material which contacts the core, and an external insulator around the fibrous core and the conductive material.



21: 2017/01670. 22: 08/03/2017. 43: 3/19/2021  
51: A61K

71: BIONTECH RNA PHARMACEUTICALS GMBH  
72: HAAS, HEINRICH, ESPARZA BORQUEZ, ISAAC HERNAN

33: EP 31: PCT/EP2014/070503 32: 2014-09-25

**54: STABLE FORMULATIONS OF LIPIDS AND LIPOSOMES**

00: -

The present invention relates to aqueous lipid and/or liposome formulations with an increased chemical stability, to methods of preparing such aqueous formulations as well as to kits comprising them. The

present invention further relates to methods of preparing lipid-based pharmaceutical compositions, to pharmaceutical compositions prepared by such methods and to methods of chemically stabilizing aqueous lipid and/or liposome formulations.

21: 2017/02553. 22: 4/11/2017. 43: 5/7/2021

51: B25B

71: POWER BOX AG

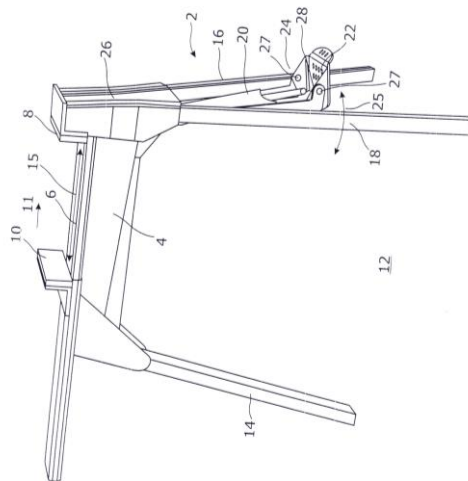
72: COCHRANE, Michael

33: GB 31: 1606276.2 32: 2016-04-12

**54: IMPROVEMENTS TO CLAMPING APPARATUS**

00: -

The invention relates to clamping apparatus for a workpiece. The apparatus includes first and second jaws, one of which is movable by operator operation of a lever assembly and locking means are provided to selectively lock the movable jaw in position. The locking means can be actuated by the operator's foot thereby leaving the operator's hands free to perform work on the workpiece. An engagement system is also provided in order to allow additional accessory components to be selectively fitted to the apparatus for use in particular work operations.



21: 2017/02728. 22: 4/18/2017. 43: 2/26/2021  
51: F17C

71: CleanTech Swiss AG

72: TILHOF, Eckhard

33: EP(CH) 31: 14192891.1 32: 2014-11-12

**54: FITTING FOR LIQUID GAS CYLINDERS AND FILLING METHOD**

00: -

The problem addressed by the invention is to reduce the technical complexity for refilling gas cylinders. In order to solve the problem, a fitting as claimed comprises a gas tap for gas withdrawal and an opening for refilling a liquid gas cylinder. The opening for a refilling of a liquid gas cylinder can be connected, in particular, in a gas-conducting manner to a hose-like or tubular line of the fitting, which can extend into a liquid gas cylinder by at least 300 mm, preferably at least 400 mm, if the fitting is connected to such a gas cylinder. In this way, the line can extend into the liquefied part of the gas, which, above all, enables very fast emptying by means of pumping. Emptying is imperative if a refilled gas cylinder proves to be leaky. A speed advantage is achieved in this way. In principle, there is an opening on the underside of the fitting adjacent to the hose-like or tubular line. The underside is the side which adjoins the liquid gas cylinder or is located fully in the cylinder or in the cylinder neck when the fitting is connected to the liquid gas cylinder. Said opening on the underside can be connected to the gas tap in a gas-conducting manner, and generally by rotating a corresponding rotary handle. The hose-like or tubular line protrudes relative to said opening, preferably by at least 200 mm, particularly preferably by at least 300 mm. A method relates to the refilling of a liquid gas cylinder comprising the claimed fitting.

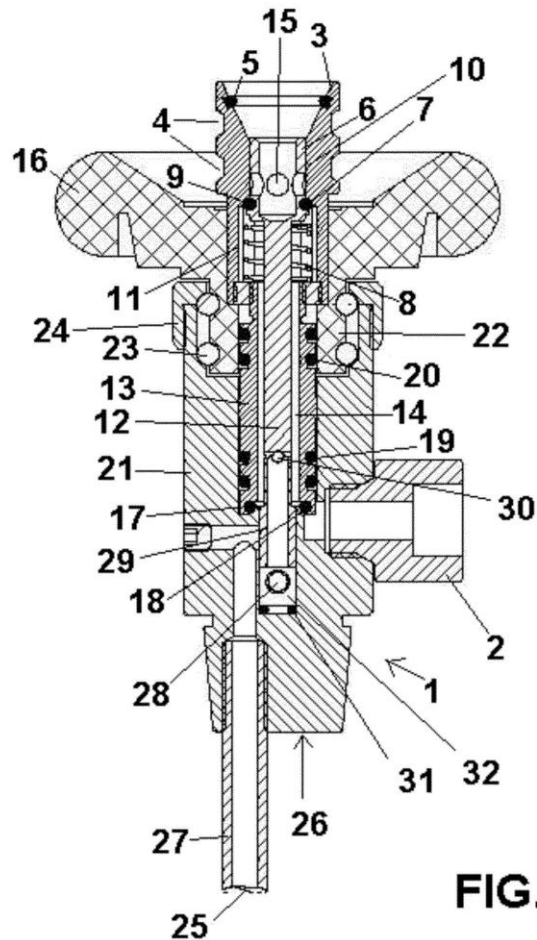


FIG. 1

21: 2017/02740. 22: 18/04/2017. 43: 4/23/2021

51: C04B; E04C

71: SAINT-GOBAIN PLACO SAS

72: BROOKS, Laura, JUPP, Nicola, SPARKES, Joanna, TABOULOT, Elodie, RICHARDSON, Adam, JONES, Nicolas, RIDEOUT, Jan

33: GB 31: 1420676.7 32: 2014-11-20

**54: CONSTRUCTION PANEL HAVING IMPROVED FIXING STRENGTH**

00: -

A plasterboard comprises a gypsum matrix having a polymeric additive distributed therein in an amount of at least 1 wt% relative to the gypsum, the gypsum matrix further having a first group of fibres and a second group of fibres embedded therein, wherein the fibres of the first group of fibres have an average length that is at least three times the average length of the fibres of the second group of fibres.

21: 2017/03701. 22: 5/30/2017. 43: 3/12/2021  
51: A61K; A61L

71: Johnson & Johnson Consumer Inc.  
72: BAI, Minggu, HOLEVA, Kenneth T.  
33: US 31: 62/073,488 32: 2014-10-31

#### 54: OPHTHALMIC COMPOSITION

00: -

The present invention relates to ophthalmic compositions for treatment of conditions in the eye. More specifically, the present invention relates to ophthalmic compositions comprising a polyquaternium compound and an anionic polymer. Methods for reducing and/or preventing the incompatibility of polyquaternium compounds with anionic polymers are also disclosed.

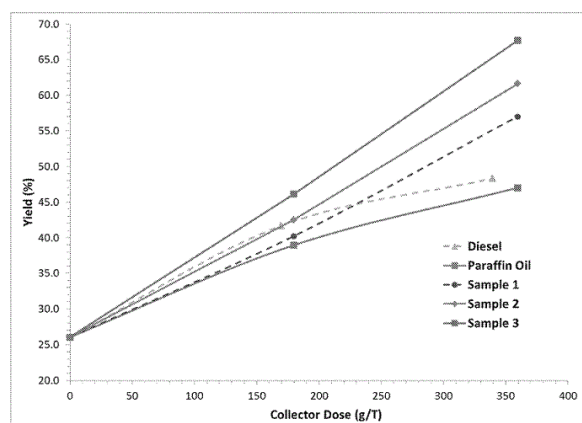
21: 2017/03790. 22: 02/06/2017. 43: 3/19/2021  
51: B03D

71: ECOLAB USA INC.  
72: COUNTER, James, Adrian, KILDEA, John, D.  
33: US 31: 14/042,994 32: 2013-10-01

#### 54: COLLECTORS FOR MINERAL FLOTATION

00: -

The invention provides methods and compositions for improving a froth flotation type separation. The method uses a microemulsion to improve the effectiveness of a collector. The improvement allows for low dosages of collector to work as well as much greater amounts of non-microemulsified collector.



21: 2017/04621. 22: 7/10/2017. 43: 3/9/2021  
51: A61K; A61P

71: Merck Patent GmbH  
72: BLADT, Friedhelm, FRIESE-HAMIM, Manja  
33: EP(DE) 31: 14004186.4 32: 2014-12-11

#### 54: COMBINATION OF A 6-OXO-1,6-DIHYDRO-PYRIDAZINE DERIVATIVE HAVING ANTI-CANCER ACTIVITY WITH A QUINAZOLINE DERIVATIVE

00: -

A pharmaceutical composition of 3-(1-{3-[5-(1-Methyl-piperidin-4-ylmethoxy)-pyrimidin-2-yl]-benzyl}-6-oxo-1,6-dihydro-pyridazin-3-yl)-benzonnitrile or a pharmaceutically acceptable salt and/or solvate thereof in combination with 4-[(S)-2-azetidin-1-yl-1-(4-chloro-3-trifluoromethyl-phenyl)-ethylamino]-quinazoline-8-carboxylic acid amide.

21: 2017/04727. 22: 7/13/2017. 43: 2/26/2021  
51: A61K; A61P; C07D

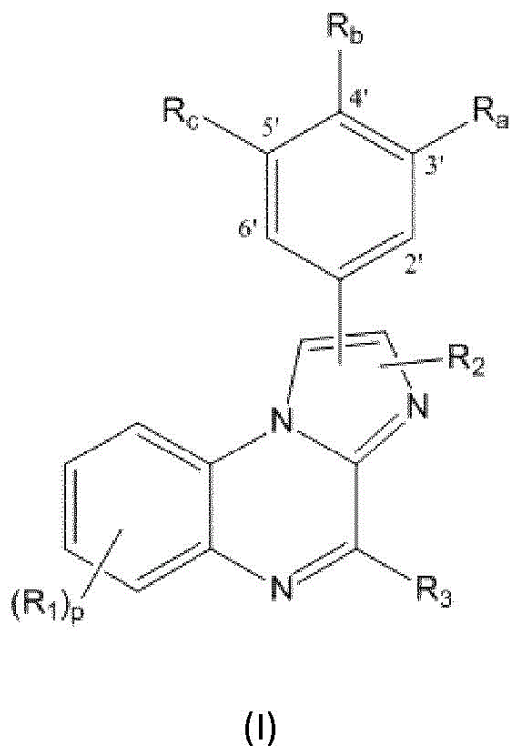
71: Université de Montpellier, Centre National de la Recherche Scientifique (C.N.R.S.), Axlr, Satt Du Languedoc Roussillon

72: DELEUZE-MASQUEFA, Carine, BONNET, Pierre-Antoine, CUQ, Pierre, PATINOTE, Cindy  
33: FR 31: 1463480 32: 2014-12-31

#### 54: NEW IMIDAZO[1,2-A]QUINOXALINES AND DERIVATES THEREOF FOR THE TREATMENT OF CANCER

00: -

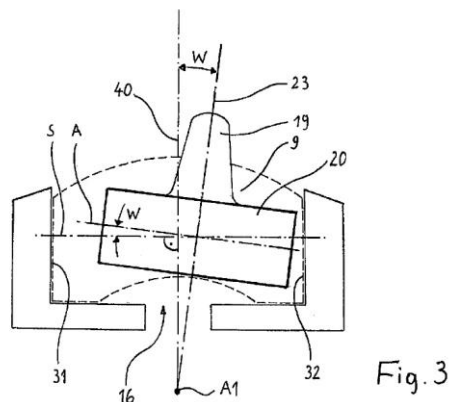
The invention relates to imidazo[1,2-a]quinoxaline compounds of formula (I) for the treatment of cancer, the pharmaceutical compositions comprising said chemical compounds, and the therapeutic uses thereof.



21: 2017/04886. 22: 18/07/2017. 43: 4/23/2021  
 51: F16D  
 71: BPW BERGISCHE ACHSEN KG  
 72: Christian ABT, Michael PEHLE, Georg GOYKE  
 33: DE 31: 10 2015 101 468.8 32: 2015-02-02  
**54: DISK BRAKE FOR A UTILITY-VEHICLE WHEEL**

00: -  
 The invention relates to a disk brake, preferably operated by compressed air, for a utility-vehicle wheel, comprising a brake caliper (1), which reaches around a brake disk (5) arranged on the wheel rotational axis (A1), a brake application device, which is arranged in the brake caliper (1) on the one side of the brake disk (5) and can be actuated by means of a force element (8) and preferably a compressed-air cylinder, brake pads (6, 7) on both sides of the brake disk (5), wherein at least the brake-application-side brake pad (6) is arranged in a pad shaft having first and second supporting surfaces (31, 32), which have the same distance from a pad-shaft center line (40) in the circumferential direction and against which the brake pad (6) lies by means of the edges of the brake pad pointing in the circumferential direction, and a brake lever (9), which is part of the brake application device and is composed of a lever arm (19), against

which the force element (8) is supported, and of a brake application shaft (20), which is connected to the lever arm (19) and is supported within the brake caliper (1) on a pivot axis (A) and is supported in a rotationally movable manner against a one- or multi-part pressure piece (10) that works against the brake-application-side brake pad (6). In order to arrive at compensation of the angled wear of the brake pads, which angled wear results from geometry, the pivot axis (A) of the brake application shaft (20) is arranged at an angle to the main pad-shaft extent (S) which extends between the two supporting surfaces (31, 32) at a right angle to the pad-shaft center line (40).



21: 2017/04944. 22: 7/20/2017. 43: 2/26/2021  
 51: A61K; A61P  
 71: Eli Lilly and Company  
 72: MANTRIPRAGADA, Sankaram B., PICHE, Claude A., VAN BETSBRUGGE, Jo Jan Filip  
 33: US 31: 62/117,031 32: 2015-02-17  
**54: NASAL POWDER FORMULATION FOR TREATMENT OF HYPOGLYCEMIA**

00: -  
 The present invention provides a powder formulation containing glucagon or a glucagon analog for nasal administration, useful in the treatment of hypoglycemia, and in particular the treatment of severe hypoglycemia. The present invention also provides a method of making this powder formulation, and to devices and methods for using the powder formulation.

21: 2017/05300. 22: 8/4/2017. 43: 2/26/2021  
 51: A61K; C07K  
 71: Janssen Vaccines & Prevention B.V.

72: BRANDENBURG, Boerries, VOGELS, Ronald, KOLKMAN, Joost A., FRIESEN, Robert Heinz Edward

33: EP(NL) 31: 15153957.4 32: 2015-02-05

**54: BINDING MOLECULES DIRECTED AGAINST INFLUENZA HEMAGGLUTININ AND USES THEREOF**

00: -

The present invention relates to monomeric and multimeric binding molecules that are capable of specifically binding to hemagglutinin (HA) of at least two influenza A virus strains, said strains comprising HA of two different HA subtypes from phylogenetic group 2; or capable of specifically binding to hemagglutinin (HA) of at least one influenza A virus strain from phylogenetic group 1 and at least one influenza A virus strain from phylogenetic group 2; or capable of specifically binding to hemagglutinin (HA) of at least one influenza B virus strain. The binding molecules preferably are also capable of neutralizing at least two influenza A virus strains from phylogenetic group 2; or capable of neutralizing at least one influenza A virus strain from phylogenetic group 1 and at least one influenza A virus strain from phylogenetic group 2; or capable of specifically neutralizing at least one influenza B virus strain.

21: 2017/06495. 22: 9/27/2017. 43: 3/19/2021

51: A61K

71: Laboratorios Microsules Uruguay S.A.

72: Pablo Bringas

33: ZA 31: 2016/05128 32: 2016-07-22

**54: A FORMULATION WHICH INCLUDES TRACE ELEMENTS AND IS FOR ADMINISTRATION TO ANIMALS**

00: -

An injectable microemulsion which includes selenomethione as its selenium salt, vitamin A palmitate, vitamin E acetate and one or minerals selected from zinc, manganese and copper. The minerals can be in the form of chelates, gluconates, propionates or edentates

21: 2017/07423. 22: 11/1/2017. 43: 3/12/2021

51: A61K; A61P; C07D

71: Merck Patent GmbH

72: FUCHSS, Thomas, SCHIEMANN, Kai

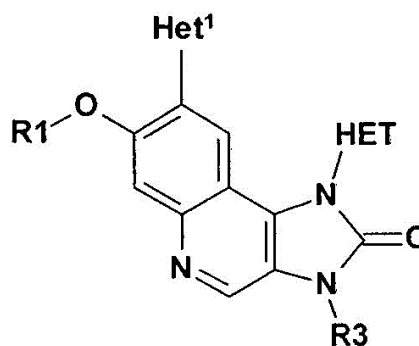
33: EP(DE) 31: 15000968.6 32: 2015-04-02

**54: IMIDAZOLONYL QUINOLINES AND USE THEREOF AS ATM KINASE INHIBITORS**

00: -

The invention relates to compounds of the formula (I), wherein R1, R3, Het<sup>1</sup> and HET have the meanings specified in claim 1, are ATM kinase inhibitors and can be used, inter alia, for treating cancer.

(I)



21: 2017/07459. 22: 11/3/2017. 43: 3/12/2021

51: E21B; F16L

71: Sandvik Intellectual Property AB

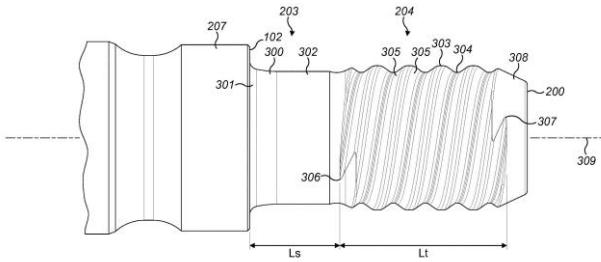
72: AHOLA, Petri, WICKSTRÖM, David, NORMAN, Andreas

33: EP(SE) 31: 15168921.3 32: 2015-05-22

**54: DRILL ROD OR ADAPTOR WITH STRENGTHENED SPIGOT COUPLING**

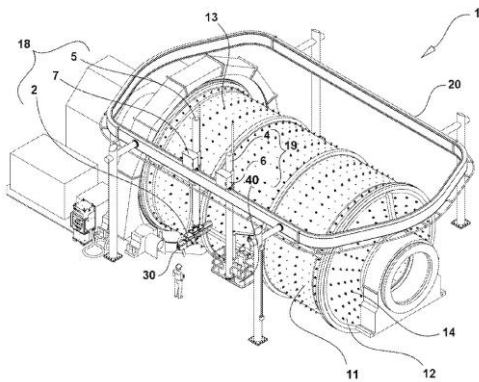
00: -

An elongate component, such as a drill rod or adaptor, to form part of a drill string having a shoulder contact male spigot coupling. The male spigot comprises a non-threaded shank and a threaded section in which an axial length of the non-threaded shank is provided at a predetermined minimum relative to an outside diameter of the spigot at the threaded section.



21: 2017/07461. 22: 11/3/2017. 43: 3/12/2021  
 51: B02C; B21J; B25J  
 71: Russell Mineral Equipment Pty Ltd  
 72: RUBIE, Peter John  
 33: AU 31: 2015901622 32: 2015-05-06  
**54: SUSPENSION AND GUIDANCE APPARATUS FOR TOOLS AND PLATFORMS RELATIVE TO A MILL**

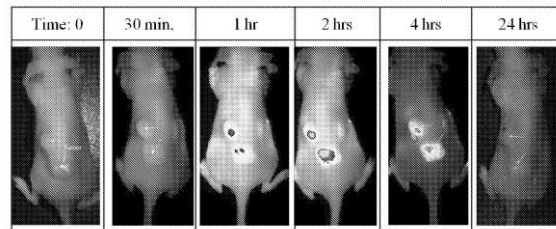
00: -  
 The present invention provides an apparatus for suspending and guiding at least one tool or work platform externally about a grinding mill, the apparatus including (a) a fixed track suspended above the grinding mill and extending about an outer periphery thereof in a plane substantially parallel to a surrounding floor of the mill, and, (b) at least one carriage assembly mounted to the track for suspending and guiding the at least one tool or work platform, the at least one carriage assembly configured to provide the at least one tool or work platform with at least two degrees of freedom, and wherein a first degree of freedom is linear movement along a first axis orthogonal to the surrounding floor of the mill.



21: 2017/07464. 22: 11/3/2017. 43: 2/26/2021  
 51: A61K; A61P

71: Coherent Biopharma, Coherent Biopharma I, Limited  
 72: HUANG, Baohua Robert, DAI, Jian, WANG, Zhongbo, XIE, Xueyuan, LIU, Xiaodong, HU, Xinli  
 33: CN 31: 201510489556.6 32: 2015-08-11  
 33: CN 31: 201510489560.2 32: 2015-08-11  
**54: MULTI-LIGAND DRUG CONJUGATES AND USES THEREOF**

00: -  
 A conjugate compounds or pharmaceutically acceptable salt thereof, comprises a payload and two or more kinds of cell-interacting molecules. The cell-interacting molecules are ligands capable of specifically binding to a cell surface receptor. A method of treating diseases, comprises delivering a payload to a subject.



21: 2017/07468. 22: 11/3/2017. 43: 3/12/2021  
 51: E21B  
 71: Sandvik Intellectual Property AB  
 72: WICKSTRÖM, David, NORMAN, Andreas  
 33: EP(SE) 31: 15168925.4 32: 2015-05-22  
**54: THREADED COUPLING END FOR A PERCUSSION DRILL STRING COMPONENT**

00: -  
 A threaded coupling for a drill string component having a body on which is formed a thread. A reduction in stress concentrations and a resistance to bending moments are achieved at the thread by reducing a thread depth at at least one axial end (300) of the thread and by adapting an endmost flank of a crest or root of the thread at an endmost helical turn.

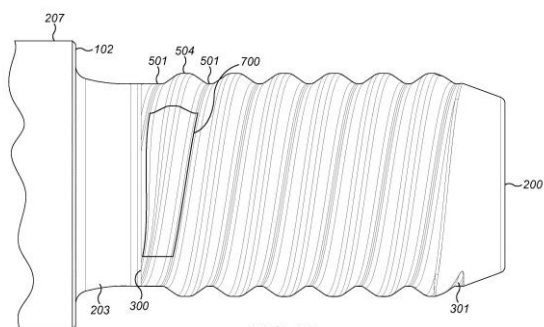
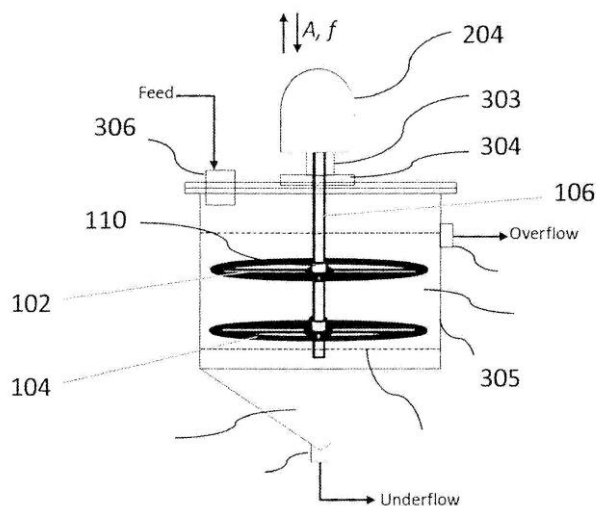


FIG. 7



21: 2017/07628. 22: 11/10/2017. 43: 3/12/2021  
 51: B01F  
 71: Virginia Tech Intellectual Properties, Inc.  
 72: YOON, Roe-Hoan, LUTTRELL, Gerald, GUPTA, Nikhil

33: US 31: 62/146,655 32: 2015-04-13

**54: APPARATUS FOR DEWATERING AND DEMINERALIZATION OF FINE PARTICLES**

00: -

Hydrophobic particles such as coal and hydrophobized mineral fines can be readily separated from hydrophilic impurities by forming agglomerates in water using a hydrophobic liquids such as oil. The agglomerates of hydrophobic particles usually entrap large amounts of water, causing the moisture of the recovered hydrophobic particles to be excessively high. This problem can be overcome by dispersing the hydrophobic agglomerates in a hydrophobic liquid that can be readily recycled. The dispersion can be achieved using specially designed apparatus and methods that can create a turbulence that can help destabilize the agglomerates in a recyclable hydrophobic liquid and facilitate the dispersion.

21: 2017/07631. 22: 11/10/2017. 43: 3/12/2021

51: A61K; A61P; C07K

71: Janssen Vaccines & Prevention B.V.

72: VAN DONGEN, Maria J.P., BUYCK, Christophe Francis Robert Nestor, SCHEPENS, Wim Bert Griet, JURASZEK, Jaroslaw, KESTELEYN, Bart Rudolf Romanie, RABOISSON, Pierre Jean-Marie Bernard, BRANDENBURG, Boerries

33: US 31: 62/159,833 32: 2015-05-11

**54: INFLUENZA VIRUS NEUTRALIZING PEPTIDOMIMETIC COMPOUNDS**

00: -

The present invention relates to novel peptidomimetic compounds that are capable of binding to and/or neutralizing influenza viruses, in particular influenza A viruses of phylogenetic group 1, and to pharmaceutical compositions comprising such compounds. The invention also relates to the use of the peptidomimetic compounds in the diagnosis, prophylaxis and/or treatment of influenza virus infections.

21: 2017/07657. 22: 11/13/2017. 43: 5/7/2021

51: E21D; E21F

71: NICAUD COMPANIES 22 (PTY) LTD

72: CROMPTON, Brendan Robert; PASTORINO, Paolo Ettore; BERGHORST, Adrian

33: ZA 31: 2017/00961 32: 2017-02-08

33: ZA 31: 2017/04183 32: 2017-06-20

33: ZA 31: 2017/06377 32: 2017-09-21

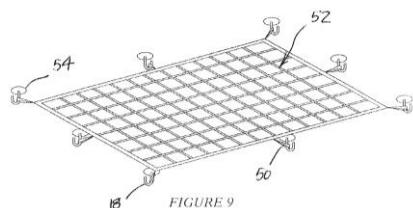
**54: SAFETY NET ATTACHMENT DEVICE**

00: -

The invention provides a releasably engageable net attachment device which includes an elongate body



which extends between a first end and a second end and which has a second end portion which is adapted to provide an attachment formation and which terminates at the second end, an anchor means at or towards the first end which is moveable between a retracted position and a projecting position and which is biased towards the projecting position and a retracting element which acts upon the anchor means, when pulled, to move the anchor means against the bias towards the retracted position.



21: 2017/07705. 22: 11/14/2017. 43: 3/12/2021  
 51: C12M; G01N; G06K; G06T  
 71: BD Kiestra B.V.  
 72: MARCELPOIL, Raphael Rodolphe, WILES, Timothy M.  
 33: US 31: 62/151,688 32: 2015-04-23  
**54: METHOD AND SYSTEM FOR AUTOMATICALLY COUNTING MICROBIAL COLONIES**

00: -  
 The present disclosure is directed to an automated method for evaluating growth on plated media, comprising: providing a culture media inoculated with a biological sample (202); incubating the inoculated culture media (204); following incubation, obtaining a first image of the inoculated media at a first time (206); after further incubation, obtaining a second image of the inoculated media at a second time (206); aligning the first image with the second image, such that the coordinates of a pixel in the second image are about the same as the coordinates of a corresponding pixel in the first image; comparing image features of the second image with image features of the first image; classifying image features of the second image as colony candidates based on image feature changes from the first time to the second time; for colony candidates determined to be from a common microorganism in the biological sample inoculated on the culture media, counting said colony

candidates and determining whether the number of counted colonies meets or exceeds the threshold count value stored in memory and indicative of significant growth.

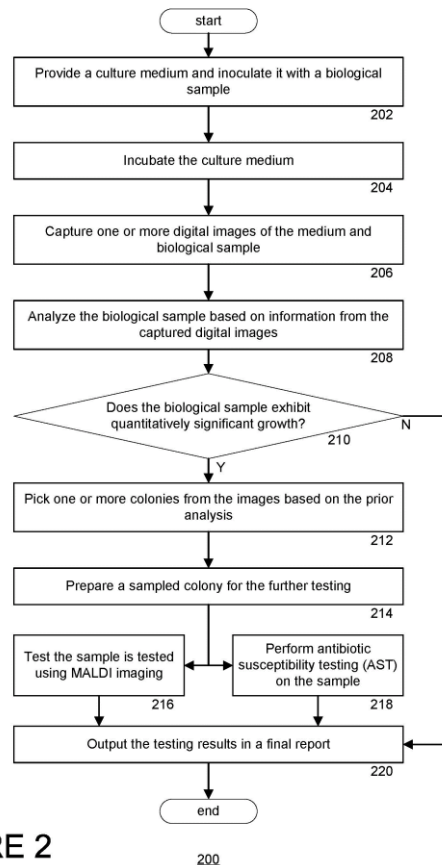
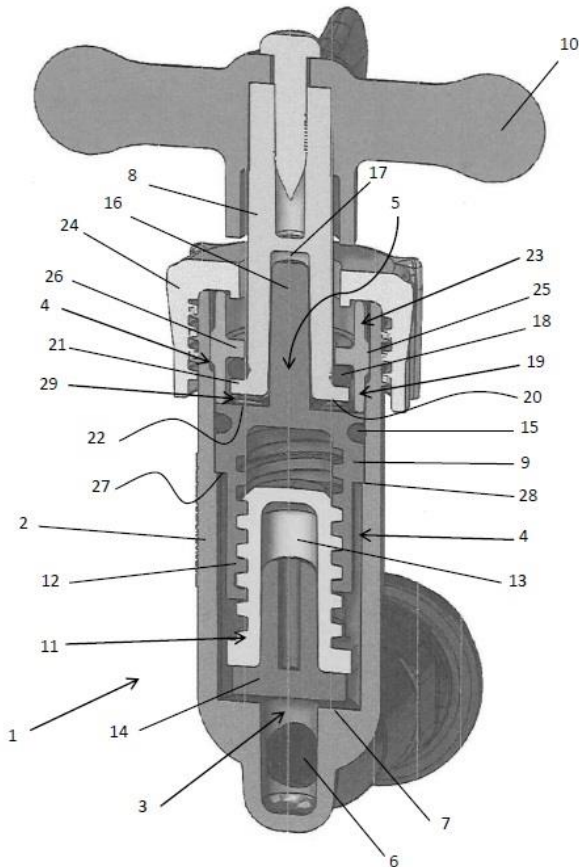


FIGURE 2

21: 2017/07769. 22: 11/16/2017. 43: 3/19/2021  
 51: F16D; F16K  
 71: PARKER MANUFACTURING (PTY) LTD  
 72: HASLAM, James Churchill  
**54: A TAP**

00: -  
 The invention relates to a tap with a housing that contains a spindle to support a handle at an outer end and a non-rising valve stem that is located at an inner end of the spindle in screw-threaded engagement with a valve closure. The spindle, valve stem and valve closure are moulded from plastics material. An inner end of the spindle has an external flange providing an outwardly facing shoulder to one side and a slip disc on an opposite side. The slip disc of the spindle engages a corresponding drive disc on the valve stem to provide an interface for a

torque-limiting clutch mechanism. The spindle extends through a spacer secured against rotation relative to the housing that supports a spring against the spindle flange and through a screw-on cover that engages the housing over the spacer.



21: 2017/07860. 22: 11/20/2017. 43: 3/12/2021

51: G06T

71: Corning Incorporated

72: MADARA, Russell Wayne

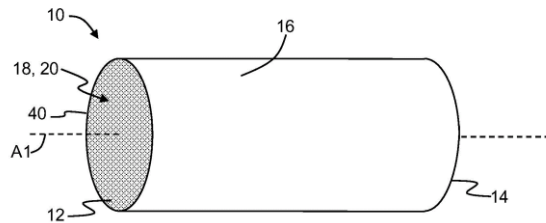
33: US 31: 62/164,988 32: 2015-05-21

**54: METHODS FOR INSPECTING CELLULAR ARTICLES**

00: -

Methods of inspecting cellular articles such as cellular ceramic articles are disclosed, wherein the methods comprise characterizing a web structure from intensity values of a digital image. One method comprising establishing an edge location for each of the walls of the web, and an edge intensity slope SE for each edge location, and then searching for a wall intensity slope SW in one of the web walls of the characterized web structure to determine the

location of a web defect. Another method involves determining at least one characteristic that defines a conforming cell, then identifying a non-conforming cell region based on the at least one characteristic, and then examining the walls within the non-conforming cell region to locate the defect in one of the walls within the non-conforming cell region.



21: 2017/07939. 22: 11/22/2017. 43: 2/26/2021

51: C01B; C01G

71: Tygrus, LLC

72: CARLSON, Lawrence, HOEL, Timothy, ADLOFF, Lawrence, WURZBURGER (Deceased), Steven

33: US 31: 62/152,009 32: 2015-04-23

**54: STABLE ELECTROLYTE MATERIAL AND SOLVENT MATERIAL CONTAINING SAME**

00: -

A composition of matter having the following chemical structure:  $[(H_x O_{(x-1)})] / 2 Z_y$  wherein x is an odd integer  $\geq 3$ ; y is an integer between 1 and 20; and Z is one of a monoatomic ion from Groups 14 through 17 having a charge value between -1 and -3 or a polyatomic ion having a charge between -1 and -3.

21: 2017/07944. 22: 11/22/2017. 43: 3/12/2021

51: A61K

71: Akamara Therapeutics, Inc.

72: GUPTA, Nimish, SARKAR, Arindam, BASSI, Heeralal, DUTTA, Pradip

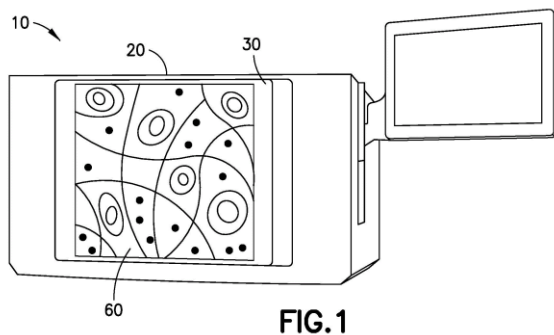
33: IN 31: 1418/DEL/2015 32: 2015-05-19

**54: PROCESS FOR PREPARING SUPRAMOLECULAR PLATINUM-BASED COMPOUNDS**

00: -  
 The present invention is in relation to the fields of nanotechnology and cancer therapeutics. In particular, the present disclosure relates to improved methods for preparing lipid- conjugated platinum compounds with high purity and good yields. The present disclosure also relates to nanoparticles comprising lipid-conjugated platinum compounds with high drug loading efficiency for use in chemotherapy, and to methods for producing said nanoparticles.

21: 2017/08045. 22: 11/27/2017. 43: 3/12/2021  
 51: B01L  
 71: Becton, Dickinson and Company  
 72: SHINDLEDECKER, Scott, SKEVINGTON, Edward, POHL, Brent Ronald, DIEMERT, Dustin, GUILLET, Thierry  
 33: US 31: 62/167,429 32: 2015-05-28  
**54: LABORATORY INSTRUMENT INDUSTRIAL DESIGN CUSTOMIZATION FOR CUSTOMER PERSONALIZATION**

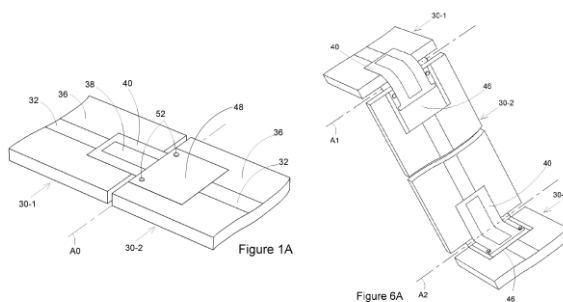
00: -  
 A customizable laboratory instrument comprising an interior space for receipt of test materials therein. An indented exterior surface of the laboratory instrument defines a boundary surface, a backing surface, and a sidewall. The backing surface is offset from the boundary surface a distance substantially equal to a depth of the sidewall. A panel having an edge is attachable to the sidewall such that a space is formed between the panel and backing surface for receipt of an object therein.



21: 2017/08073. 22: 11/28/2017. 43: 3/12/2021  
 51: H01P; H01Q; H01R; H05K  
 71: Eureco Technologies Limited  
 72: THOMPSON, Alan, THOMPSON, Martin

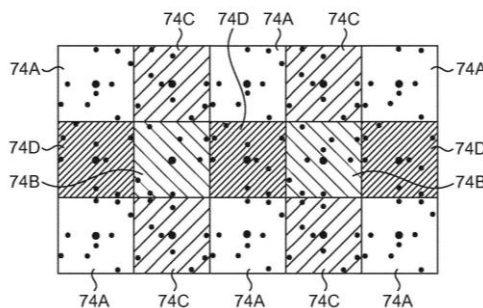
33: GB 31: 1507353.9 32: 2015-04-29  
**54: DEPLOYABLE RADIO FREQUENCY TRANSMISSION LINE**

00: -  
 A deployable radio frequency (RF) transmission line, comprising at least two members, hinged together for deployment between a folded state and an unfolded state; and at least one bridge component disposed at each inter-member junction to provide RF coupling for the transfer of RF energy between the at least two hinged members.



21: 2017/08111. 22: 11/29/2017. 43: 3/12/2021  
 51: A47J; B65D  
 71: Société des Produits Nestlé S.A.  
 72: NOTH, André  
 33: EP(CH) 31: 15165920.8 32: 2015-04-30  
**54: CODE ARRANGEMENT AND CONTAINER OF SYSTEM FOR PREPARING A BEVERAGE OR FOODSTUFF**

00: -  
 A container of a foodstuff or beverage preparation machine, the container for containing beverage or foodstuff preparation material and comprising on a surface thereof an arrangement of separate codes encoding preparation information, whereby each code encodes a distinct phase of a preparation process.



21: 2017/08114. 22: 11/29/2017. 43: 3/12/2021

51: G01N

71: BD Kiestra B.V.

72: HANSEN, Timothy R., HOLTZ, Rick, KLEEFSTRA, Martijn, MARCELPOIL, Raphael Rodolphe, PIERPONT, Rick, POHL, Brent Ronald, SHEDLOSKEY, Alyssa, SHINDLEDECKER, Scott, SKEVINGTON, Edward, SMITH, Kerry Lynn, WILES, Timothy

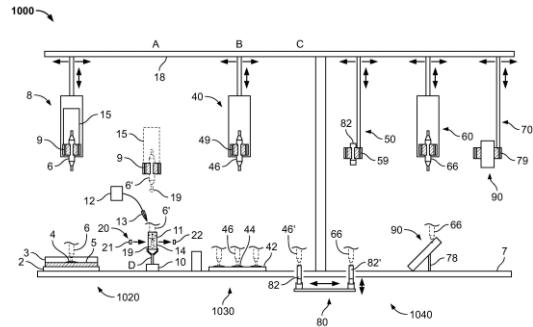
33: US 31: 62/167,593 32: 2015-05-28

33: US 31: 62/167,577 32: 2015-05-28

**54: AUTOMATED METHOD AND SYSTEM FOR OBTAINING AND PREPARING MICROORGANISM SAMPLE FOR BOTH IDENTIFICATION AND ANTIBIOTIC SUSCEPTIBILITY TESTS**

00: -

A method and automated apparatus for locating and selecting a colony of microorganisms on a culture dish and subjecting the obtained sample to a plurality of downstream tests including a test to identify the microorganism and a test to identify the susceptibility of the microorganism to antibiotics. The method includes the automated steps of locating and selecting a colony of microorganisms on a culture dish; obtaining a sample of the selected colony of microorganisms; preparing a suspension of a sample of microorganisms automatically by submerging the pick tool with the sample in a suspension, after which the pick tool is vibrated in at least the vertical direction to release the sample from the pick tool in the suspension. The turbidity of the suspension is monitored to ensure that the concentration of microorganism in suspension is sufficient so that the suspension is used a source for sample for both identification and antibiotic susceptibility of the microorganisms in the sample. The apparatus and system optionally provides for downstream processing of samples prepared for antibiotic susceptibility testing (AST). Such apparatus includes further processing after inoculation of an AST panel for the AST test. Such further processing includes capping and transferring inoculated panels to AST instrument.



21: 2017/08159. 22: 11/30/2017. 43: 3/12/2021

51: A61K; C07K; C12N

71: GlaxoSmithKline Biologicals SA

72: AMMENDOLA, Virginia, COLLOCA, Stefano, CORTESE (Deceased), Riccardo, GRAZIOLI, Fabiana, NICOSIA, Alfredo, VITELLI, Alessandra

33: GB 31: 1510357.5 32: 2015-06-12

33: PCT/EP(BE) 31: 2015/063248 32: 2015-06-12

**54: ADENOVIRUS POLYNUCLEOTIDES AND POLYPEPTIDES**

00: -

There is provided inter alia an isolated polynucleotide, wherein the polynucleotide encodes a polypeptide selected from the group consisting of: (a) a polypeptide having the amino acid sequence according to SEQ ID NO: 1, (b) a functional derivative of a polypeptide having the amino acid sequence according to SEQ ID NO: 1, wherein the functional derivative has an amino acid sequence which is at least 80% identical over its entire length to the amino acid sequence of SEQ ID NO: 1, and (c) a polypeptide having the amino acid sequence according to SEQ ID NO: 3.

21: 2017/08231. 22: 04/12/2017. 43: 3/19/2021

51: C12Q

71: OXFORD BIODYNAMICS LIMITED

72: HUNTER, Ewan, RAMADASS, Aroul, AKOULITCHEV, Alexandre

33: GB 31: 1511079.4 32: 2015-06-24

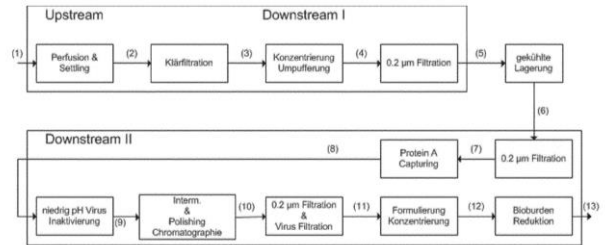
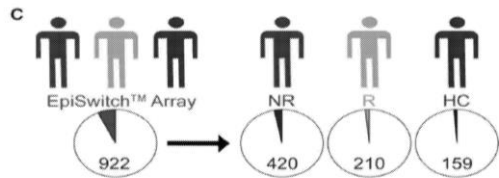
33: GB 31: 1511080.2 32: 2015-06-24

33: GB 31: 1519555.5 32: 2015-11-05

**54: DETECTION OF CHROMOSOME INTERACTIONS**

00: -

A method of determining the epigenetic chromosome interactions which are relevant to a companion diagnostic.



- (1) perfusion & setting
- (2) clarification
- (3) concentration buffering
- (4), (6) 0.2 µm filtration
- (5) cooled storage
- (7) protein A capturing
- (9) low pH virus inactivation
- (10) intern. & polishing chromatography
- (11) 0.2 µm filtration & virus filtration
- (12) formulation concentration
- (13) bioburden reduction

21: 2017/08284. 22: 12/6/2017. 43: 3/19/2021  
51: B01D; C07K; C12M

71: Bayer Aktiengesellschaft

72: MAISER, Benjamin, SCHWAN, Peter,  
LOBEDANN, Martin, MÖHRLE, Volker

33: EP(DE) 31: 15166686.4 32: 2015-05-07

**54: MODULAR SYSTEM AND METHOD FOR CONTINUOUSLY PRODUCING AND/OR PREPARING A PRODUCT IN A DISINFECTED MANNER**

00: -

The invention relates to a method for continuously producing and/or preparing a biopharmaceutical biological macromolecular product from a heterogeneous cell culture/fluid mixture in a disinfected manner, having the following steps: (a) providing a particle-free fluid from a heterogeneous cell culture/fluid mixture, said fluid containing the product, in the form of a product flow, (b) carrying out at least one filtering process, whereby a filtrate is obtained, (c) carrying out at least two chromatography steps for cleaning the product, (d) carrying out at least one virus-removing process, and (e) carrying out at least one ultrafiltration process and/or at least one diafiltration process on the product flow from step (b), (c), and/or (d), said method being characterized in that the at least two chromatography steps from step (c) include a cleaning process using at least two respective chromatography columns and/or membrane adsorbers and in that the method is carried out in a closed and modular manner. The invention further relates to a corresponding modular system for carrying out the method.

21: 2017/08317. 22: 12/7/2017. 43: 3/12/2021  
51: A61K; A61Q

71: L'Oréal

72: BAGHDADLI, Nawel, JEGOU, Gwenaëlle

33: FR 31: 1557769 32: 2015-08-17

**54: PROCESS FOR TREATING KERATIN FIBRES WITH AN ALKOXYSILANE POLYMER BEARING A NUCLEOPHILIC GROUP AND AN ACTIVATED (THIO)ESTER**

00: -

The present invention relates to a process for treating keratin fibres, comprising the application to the fibres i) of at least one nucleophilic alkoxy silane polymer, in particular at least one aminoalkoxy silane polymer, and ii) at least one aliphatic-chain activated (thio)ester. The invention also relates to a cosmetic composition comprising ingredients i) and ii) and to a kit comprising ingredients i) and ii) for performing such a process. The process gives the treated damaged fibre a long-lasting hydrophobic surface state, the hydrophobicity effect being persistent after one or more shampoo washes, while at the same time affording a good cosmetic feel.

21: 2017/08341. 22: 12/8/2017. 43: 3/19/2021  
51: A61K; A61P; C07D

71: H. Lundbeck A/S.

72: SVENSTRUP, Niels, WEN, Kate, WANG,  
Yazhou

33: DK 31: PA201500393 32: 2015-07-07

**54: PDE9 INHIBITORS WITH IMIDAZO TRIAZINONE BACKBONE AND IMIDAZO PYRAZINONE BACKBONE FOR TREATMENT OF PERIPHERAL DISEASES**

00: -

The present invention relates to PDE9 inhibitors and their use for treatment of benign prostate hyperplasia and sickle cell disease.

21: 2017/08422. 22: 12/12/2017. 43: 2/26/2021  
 51: B65G  
 71: Sandvik Intellectual Property AB  
 72: KRIBITZ, Gerald

**54: BELT TURNING STATION AND METHOD**

00: -  
 The invention relates to a mountable construction in the form of a deflection device for a belt for continuously conveying material and a method for deflecting a belt. The mountable construction (100) is in the form of a deflection device for a belt (500) for continuously conveying material, the mountable construction (100) comprises: a first support frame (1000) arranged in a first direction (1) and a second support frame (2000) arranged in a second direction (2); the support frames (1000, 2000) are coupleable with each other; the mountable construction further comprises first and second belt deflectors (121, 122; 231, 232, 233, 234) being arranged in connection to the support frames (1000, 2000), wherein the first belt deflector (121, 122) is arranged substantially vertically and the second belt deflector (231, 232, 233, 234) is arranged substantially horizontally; and the mountable construction includes a connection module (2100) for coupling the second support frame (2000) with the first support frame (1000), the connection module (2100) being adapted such that the second support frame (2000) is coupleable to the first support frame (1000) at a variable or different horizontal angle (Z).

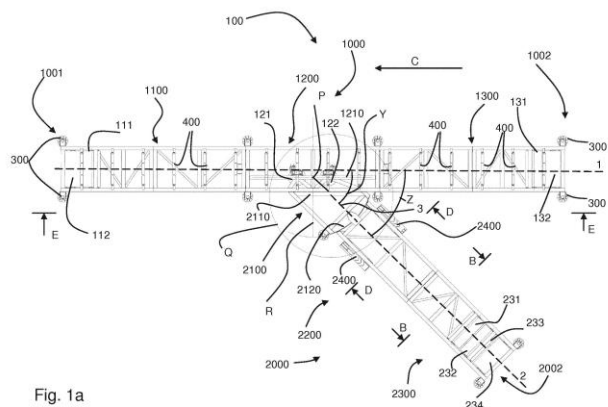


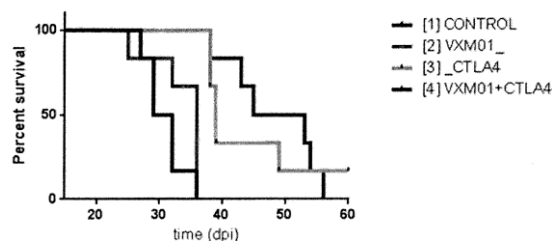
Fig. 1a

21: 2017/08439. 22: 12/12/2017. 43: 4/6/2021  
 51: A61K  
 71: VAXIMM AG

72: LUBENAU, Heinz  
 33: EP 31: 15001803.4 32: 2015-06-18  
**54: VEGFR-2 TARGETING DNA VACCINE FOR COMBINATION THERAPY**

00: -  
 The present invention relates to an attenuated strain of Salmonella comprising at least one copy of a DNA molecule comprising an expression cassette encoding a VEGF receptor protein, for use in the treatment of cancer, wherein the treatment further comprises the administration of at least one further anti-cancer agent. The present invention further relates to a pharmaceutical composition comprising an attenuated strain of Salmonella comprising at least one copy of a DNA molecule comprising an expression cassette encoding a VEGF receptor protein, wherein the pharmaceutical composition further comprises at least one further attenuated strain of Salmonella comprising at least one copy of a further DNA molecule comprising a further expression cassette encoding a tumor antigen or a tumor stroma antigen.

Figure 24



21: 2018/00320. 22: 1/17/2018. 43: 3/19/2021  
 51: F01N B01J  
 71: BASF CORPORATION

72: DEEBA, Michel, SUN, Yipeng, LUO, Tian, LEUNG, Emi, RUVINSKIY, Pavel, DANG, Dinh  
 33: US 31: 62/184,215 32: 2015-06-24  
**54: LAYERED AUTOMOTIVE CATALYST COMPOSITES**

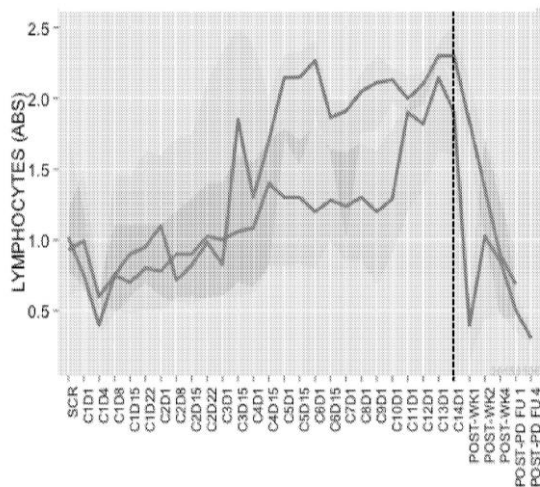
00: -  
 Provided are automotive catalyst composites having a catalytic material on a carrier, wherein the catalytic material comprises at least two layers. The first layer

is deposited directly on the carrier and comprises a first palladium component supported on a first refractory metal oxide component, a first oxygen storage component, or a combination thereof. The second layer is deposited on top of the first layer and comprises a rhodium component supported on a second refractory metal oxide component and a second palladium component supported on a second oxygen storage component, a third refractory metal oxide component or a combination thereof. Generally these catalyst composites are used as three-way conversion (TWC) catalysts. Methods of making and using the same are also provided.

<b>Rh/Alumina + Pd/OSC</b>
<b>Pd/OSC + Pd/Al<sub>2</sub>O<sub>3</sub> + BaO</b>
<b>Monolith Carrier</b>

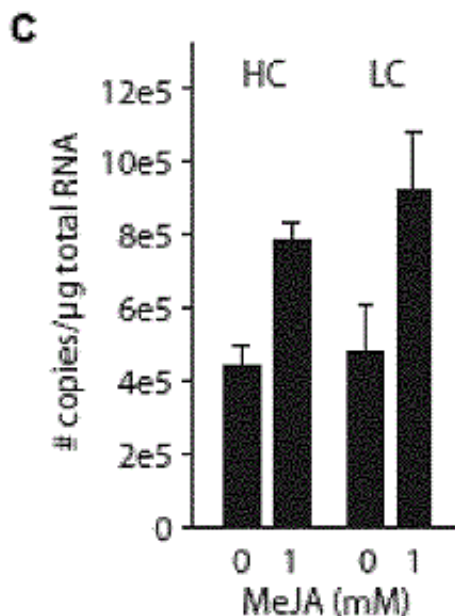
21: 2018/00476. 22: 1/23/2018. 43: 3/19/2021  
 51: A61K; C07K  
 71: Janssen Biotech, Inc.  
 72: AHMADI, Tahamtan, CASNEUF, Tineke, LOKHORST, Henk M., MUTIS, Tuna, SASSER, Amy  
 33: US 31: 62/184,018 32: 2015-06-24  
**54: IMMUNE MODULATION AND TREATMENT OF SOLID TUMORS WITH ANTIBODIES THAT SPECIFICALLY BIND CD38**

00: -  
 The present invention relates to methods of immunomodulation and treating patients having solid tumors with antibodies that specifically bind CD38.



21: 2018/00555. 22: 1/26/2018. 43: 3/19/2021  
 51: A01H C12N  
 71: MEDICAGO INC., UNIVERSITE LAVAL  
 72: D'AOUST, Marc-André, ROBERT, Stephanie, GOULET, Marie-Claire, MICHAUD, Dominique, SAINSBURY, Frank  
 33: US 31: 62/188,182 32: 2015-07-02  
**54: JASMONIC ACID PATHWAY ACTIVATOR**  
 00: -

A method of increasing expression of an heterologous protein of interest in a plant or portion of the plant is provided. The method comprises treating the plant or portion of the plant with ajasmonate-pathway activator, and introducing a nucleotide sequence operably linked to a regulatory region derived from a DNA plant virus and encoding the heterologous protein of interest into the plant or portion of the plant. Alternatively, the plant or plant portion may comprise the nucleic acid and encoding the heterologous protein of interest, and the plant or portion of the plant is treated with the jasmonate pathway activator. The treated plant is incubated under conditions to permit expression of the nucleotide sequence encoding the heterologous protein of interest.



21: 2018/00569. 22: 26/01/2018. 43: 3/19/2021  
 51: A01N; A01P  
 71: J. V. BARRETT & CO. LIMITED  
 72: WHELAN, IAN

33: GB 31: 1511791.4 32: 2015-07-06

**54: COMPOSITIONS AND METHODS FOR THE CONTROL OF ARTHROPODS**

00: -

A composition for the eradication or control of arthropods comprising at least one film-forming compound dispersed in a water continuous phase and at least one wetting agent, wherein the film-forming compound does not comprise silicone. Methods of preparing a composition according to the present invention, uses of the composition and a kit of parts for preparing the composition are also disclosed.

21: 2018/00630. 22: 1/30/2018. 43: 3/19/2021  
51: B65D

71: Shanghai Hongyan Returnable Transit Packagings Co., Ltd.

72: SU, Yongping, JIAN, Yuanli

33: CN 31: 201510409691.5 32: 2015-07-13

**54: FOLDABLE CONTAINER**

00: -

Disclosed is a foldable container (100), comprising a base (1), side plates (2, 3) and a small door (31). The side plates are connected to the base (1). The small door (31) is arranged on the side plates. The small door (31) at least comprises a first part (312), wherein the width of the first part (312) gradually reduces from the upper end to the lower end, first meshing portions (315) are provided on the left end wall and the right end wall of the first part (312), and first meshing structures (342) matching the first meshing portions (315) are provided on the side plates. When the container overall has a full load, the outward deformation of the small door is small when the small door is extruded by goods, thereby saving on conveyance or stacking space of the container, and the reliability of stacking and conveyance is improved.

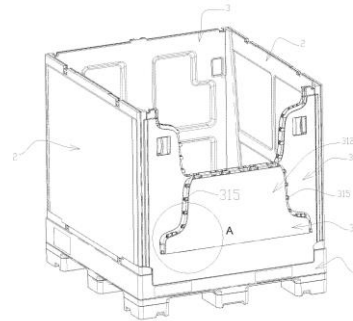


图 2

21: 2018/00675. 22: 31/01/2018. 43: 3/19/2021  
51: A63B

71: WORLD GOLF SYSTEMS LIMITED

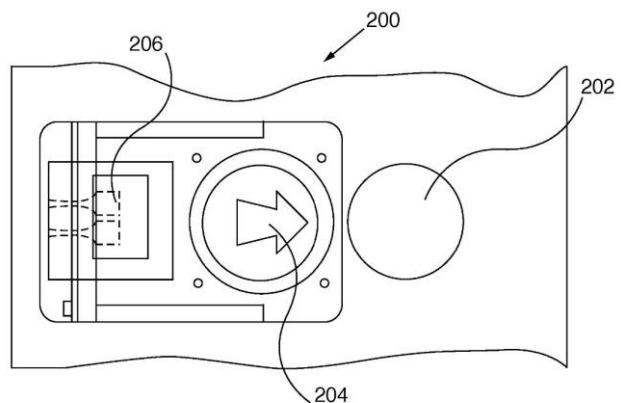
72: JOLLIFFE, David Victor, JOLLIFFE, Steven Paul

33: GB 31: 1512037.1 32: 2015-07-09

**54: GOLF BALL GAME APPARATUS**

00: -

A ball game apparatus in which movements of a coded ball (20) are detected by detector units (100, 206) and an automatic indication of a player's score is given, where data relating to the ball (20) are stored in a database connected to the detector units (100, 206), the data including the code of a ball (20) and a code relating to a player to whom the ball (20) has been allocated, the ball (20) being configured to temporarily store, and to intermittently transfer to the detector units (100, 206) and thence to the database, data relating to the ball's movements. A rechargeable battery (40) is contained within the ball (20), and is arranged to be charged by a battery charging system. Features of the game may be controlled by means of a player's mobile telephone.



21: 2018/00769. 22: 06/02/2018. 43: 3/19/2021

51: C05F; C07K; C12N

71: PIVOT BIO, INC.



72: TEMME, KARSTEN, TAMSIR, ALVIN, BLOCH, SARAH, CLARK, ROSEMARY, TUNG, EMILY

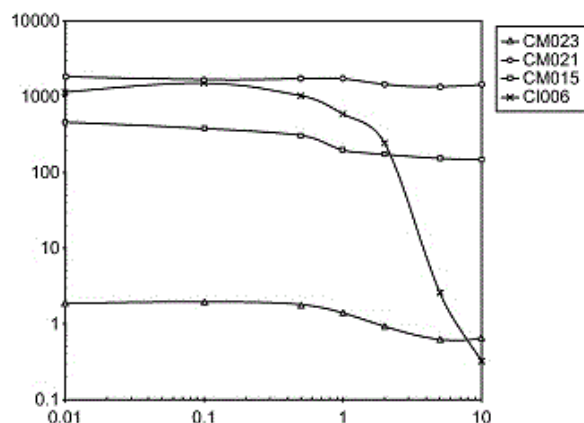
33: US 31: 62/192,009 32: 2015-07-13

33: US 31: 62/213,567 32: 2015-09-02

**54: METHODS AND COMPOSITIONS FOR IMPROVING PLANT TRAITS**

00: -

Disclosed herein are methods of increasing nitrogen fixation in a non-leguminous plant. The methods can comprise exposing the plant to a plurality of bacteria. Each member of the plurality comprises one or more genetic variations introduced into one or more genes or non-coding polynucleotides of the bacteria's nitrogen fixation or assimilation genetic regulatory network, such that the bacteria are capable of fixing atmospheric nitrogen in the presence of exogenous nitrogen. The bacteria are not intergeneric microorganisms. Additionally, the bacteria, *in planta*, produce 1% or more of the fixed nitrogen in the plant.



21: 2018/00770. 22: 06/02/2018. 43: 3/19/2021

51: C07K; A61K

71: GENENTECH, INC.

72: KOENIG, PATRICK, LEE, CHINGWEI VIVIAN, RAJAGOPAL, KARTHIKAN, FAMILI, AMIN, FUH, GERMAINE

33: US 31: 62/222,698 32: 2015-09-23

33: US 31: 62/271,913 32: 2015-12-28

**54: OPTIMIZED VARIANTS OF ANTI-VEGF ANTIBODIES**

00: -

The present invention provides anti-VEGF antibodies and compositions that include anti-VEGF antibodies (e.g., antibody conjugates, fusion proteins, and polymeric formulations), and uses thereof, for example for treatment of disorders

associated with pathological angiogenesis. The present invention also provides methods of identifying antibody variants with improved properties, for example, enhanced binding affinity, stability, pharmacokinetics, and/or expression.

21: 2018/00771. 22: 2/6/2018. 43: 3/19/2021

51: A61K; A61P; C07D

71: Array BioPharma Inc.

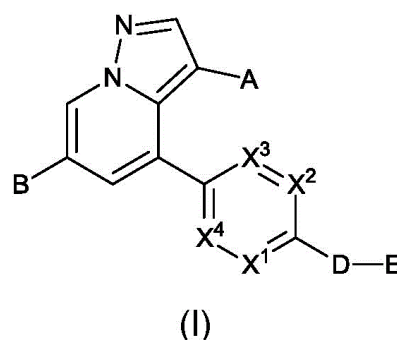
72: ANDREWS, Steven W., BLAKE, James F., CHICARELLI, Mark J., GOLOS, Adam, HAAS, Julia, JIANG, Yutong, KOLAKOWSKI, Gabrielle R.

33: US 31: 62/193,448 32: 2015-07-16

**54: SUBSTITUTED PYRAZOLO[1,5-A]PYRIDINE COMPOUNDS AS RET KINASE INHIBITORS**

00: -

Provided herein are compounds of the General Formula I: and stereoisomers and pharmaceutically acceptable salts or solvates thereof, in which A, B, D, E, X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup> and X<sup>4</sup> have the meanings given in the specification, which are inhibitors of RET kinase and are useful in the treatment and prevention of diseases which can be treated with a RET kinase inhibitor, including diseases or disorders mediated by a RET kinase.



21: 2018/00776. 22: 06/02/2018. 43: 3/19/2021

51: H04L; H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

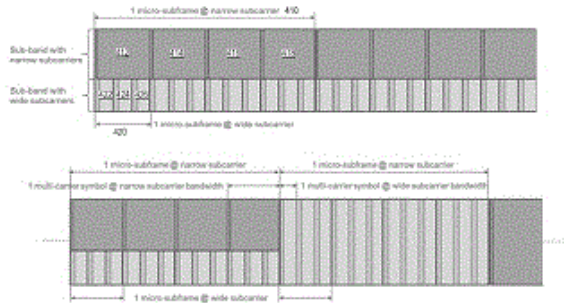
72: BALDEMAIR, ROBERT, PARKVALL, STEFAN, DAHLMAN, ERIK, WERNER, KARL, BJÖRKEGREN, HÅKAN

**54: RESOURCE ALLOCATION FOR DATA TRANSMISSION IN WIRELESS SYSTEMS**

00: -

Techniques are disclosed for allocating time-frequency resources in a system that uses multiple multicarrier modulation numerologies. According to one aspect, a method in a first wireless node comprises allocating (1310) time-frequency resources for use by a second wireless node, where said allocating comprises selecting, for use in multicarrier modulation in the allocated time-frequency resources, one of two or more subcarrier

bandwidths that the second wireless node is adapted to use for modulating or demodulating of data. In some embodiments, the method further comprises sending (1320) resource allocation information to the second wireless node, the resource allocation information identifying the allocated time-frequency resources.



21: 2018/01012. 22: 2/14/2018. 43: 3/19/2021  
 51: A61K; A61Q  
 71: Colgate-Palmolive Company  
 72: THOMSON, Paul, DOGU, Nihal, RAJAH, Divino, PRENCIPE, Michael  
 33: US 31: 62/354,269 32: 2016-06-24  
**54: ORAL CARE COMPOSITIONS AND METHODS OF USE**

00: -  
 This invention relates to oral care compositions comprising a first source of stannous, a second source of stannous, wherein the second source of stannous contains stannous pyrophosphate, and a zinc source selected from the group consisting of: zinc oxide, zinc citrate, zinc lactate, and combinations thereof, as well as to methods of using and of making these compositions.

21: 2018/01017. 22: 14/02/2018. 43: 3/19/2021  
 51: H04B  
 71: VIASAT, INC.  
 72: DANKBERG, MARK  
 33: US 31: 62/199,800 32: 2015-07-31  
**54: FLEXIBLE CAPACITY SATELLITE CONSTELLATION**

00: -  
 Embodiments provide in-flight configuration of satellite pathways to flexibly service terra-link and cross-link traffic in a constellation of non-processed satellites, for example, to facilitate flexible forward-channel and return-channel capacity in a satellite

communications system. For example, each satellite in the constellation can include one or more dynamically configurable pathway, and switching and/or beamforming can be used to configure each pathway to be a forward-channel pathway or a return-channel pathway in each of a number of timeslots according to a pathway configuration schedule. At least some of the pathways can be further selectively configured, in each timeslot, to carry "terra-link" traffic to and/or from terrestrial terminals and "cross-link" traffic to and/or from one or more other satellites of the constellation.

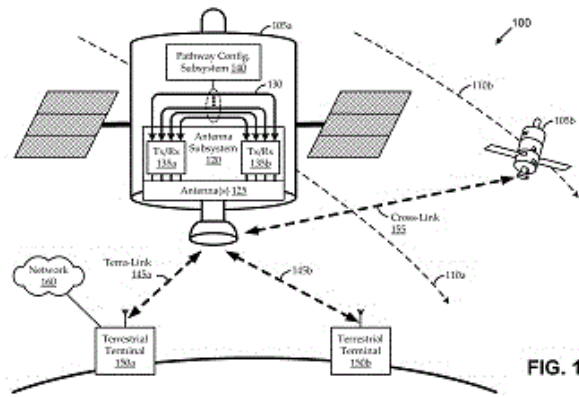


FIG. 1

21: 2018/01022. 22: 14/02/2018. 43: 3/19/2021  
 51: A61P  
 71: BYONDIS B.V.  
 72: VOORTMAN, GERRIT, KOPER, NORBERT PETER  
 33: EP 31: 15186258.8 32: 2015-09-22  
 33: EP 31: 16169699.2 32: 2016-05-13  
 33: EP 31: 16158710.0 32: 2016-03-04  
**54: SYD985 TREATMENT OF T-DM1 REFRACTORY CANCER PATIENTS**

00: -  
 The present invention relates to the duocarmycin-containing antibody-drug conjugate (ADC) trastuzumab vc-seco-DUBA (SYD985) for use in the treatment of trastuzumab emtansine (T-DM1) refractory HER2 IHC 3+ or HER2 IHC 2+/FISH positive cancer patients, particularly T-DM1 refractory breast cancer patients.

21: 2018/01052. 22: 15/02/2018. 43: 3/19/2021  
 51: A61K; C07K  
 71: MORPHOSYS AG

72: ENDELL, JAN, WINDERLICH, MARK,  
BOXHAMMER, RAINER

33: EP 31: 15181925.7 32: 2015-08-21

**54: COMBINATIONS AND USES THEREOF**

00: -

The present disclosure describes a pharmaceutical combination of an anti-CD19 antibody and a phosphoinositide 3-kinase inhibitor for the treatment of non-Hodgkin's lymphoma, chronic lymphocytic leukemia and/or acute lymphoblastic leukemia.

21: 2018/01092. 22: 16/02/2018. 43: 3/19/2021

51: C30B; C23C

71: PARAGRAF LIMITED

72: THOMAS, SIMON CHARLES STEWART

33: GB 31: 1514542.8 32: 2015-08-14

33: GB 31: 1610467.1 32: 2016-06-15

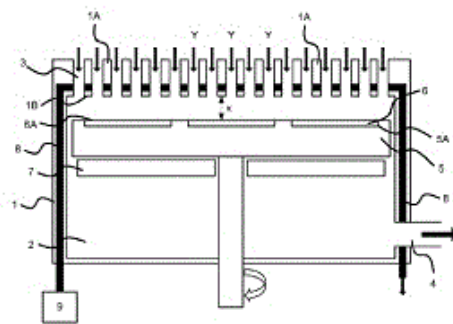
33: GB 31: 1519182.8 32: 2015-10-30

33: GB 31: 1523083.2 32: 2015-12-30

**54: A METHOD OF PRODUCING A TWO-DIMENSIONAL MATERIAL**

00: -

A method of producing graphene or other two-dimensional material such as graphene comprising heating the substrate held within a reaction chamber to a temperature that is within a decomposition range of a precursor, and that allows two-dimensional crystalline material formation from a species released from the decomposed precursor; establishing a steep temperature gradient (preferably  $>1000^{\circ}\text{C}$  per meter) that extends away from the substrate surface towards an inlet for the precursor; and introducing precursor through the relatively cool inlet and across the temperature gradient towards the substrate surface. The steep temperature gradient ensures that the precursor remains substantially cool until it is proximate the substrate surface thus minimising decomposition or other reaction of the precursor before it is proximate the substrate surface. The separation between the precursor inlet and the substrate is less than 100mm.



21: 2018/01121. 22: 2/19/2018. 43: 3/19/2021

51: A24C; A24D

71: British American Tobacco Mexico, S.A. DE C.V.

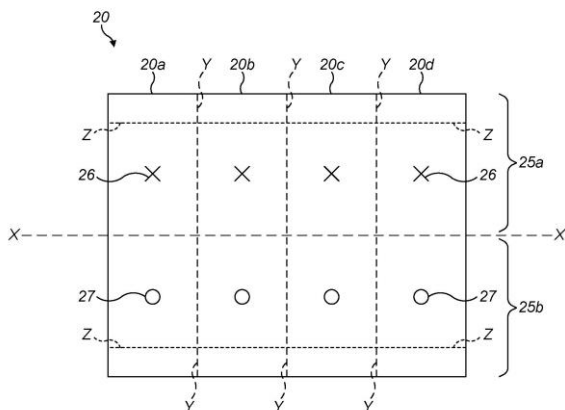
72: ARREDONDO, Lucio

**54: A WEB OF TIPPING PAPER**

00: -

A web of tipping paper (20) for supplying a smoking article manufacturing machine (17) which cuts the web into individual patches and wraps each patch about a respective dual length filter rod (1) to attach rods of smokable material (4) to the ends of each dual length filter rod is disclosed. A first lateral portion (25a) of the tipping paper web comprises a first longitudinal series of first indicators (26), and a second lateral portion (25b) of the tipping paper web comprises a second longitudinal series of indicators (27), the first and second indicators being different to each other so that a first indicator is indicative of a first type of smoking article and a second indicator is indicative of a second type of smoking article which is different to the first type of smoking article, wherein the tipping paper web is configured to be loaded onto a smoking article manufacturing machine so that the machine wraps a first part of a patch of tipping paper which is formed from the first lateral portion of the tipping paper web around a first portion of the dual length filter rod in the formation of a smoking article of the first type and so that a first indicator on the first part of the patch denotes that said first portion of the dual length filter rod is a part of a smoking article of the first type and, so that the machine wraps a second part of the patch which is formed from the second lateral portion of the tipping paper web around a second portion of the dual length filter rod in the formation of a smoking article of the second type and so that a second indicator on the second part of the patch denotes that said

second portion of the dual length filter rod is a part of a smoking article of the second type, prior to cutting the dual length filter rod and the patch into a first filter rod segment that is wrapped in said first part of the patch and which forms, together with the rod of smokable material attached thereto, a smoking article of the first type, and into a second filter rod segment that is wrapped in said second part of the patch and which forms, together with the rod of smokable attached thereto, a smoking article of the second type.



21: 2018/01130. 22: 19/02/2018. 43: 3/19/2021  
 51: A61K  
 71: DALAN ANIMAL HEALTH INC.  
 72: SALMELA, HELI, FREITAK, DALIAL  
 33: FI 31: 20155564 32: 2015-07-24  
**54: EDIBLE VACCINATION AGAINST MICROBIAL PATHOGENS**  
 00: -

The present invention relates to animals and more specifically to insects. In more details the invention relates to an edible composition or insect artificial diet comprising bacteria, fungi or any fragment or spore thereof for use as a vaccine in preventing a microbial disease or infection in an insect. Still, the present invention relates to preventive methods and different uses relating to said compositions or bacteria, fungi or fragments or spores thereof.

21: 2018/01253. 22: 23/02/2018. 43: 4/23/2021  
 51: A62B; E04G  
 71: SAFETYLINK PTY LTD  
 72: POLDMAA, Arvo, POLDMAA, Daniel  
 33: AU 31: 2015901598 32: 2015-05-05  
**54: AN ANCHOR**  
 00: -

The present invention is directed to an anchor for anchoring to an elevated worksite. The anchor includes a shock absorbing portion configured to progressively distort under sudden loading, the shock absorbing portion having one or more serpentine shaped members each defining one or more serpentine shaped curves visible from a front view of the shock absorbing portion, the shock absorbing portion having a curved profile defining one or more curves visible from a side view of the shock absorbing portion. The curved profile is configured to progressively distort under sudden loading so as to provide a first level of shock absorption, and the serpentine shaped curves are configured to progressively distort under sudden loading to provide a second level of shock absorption.

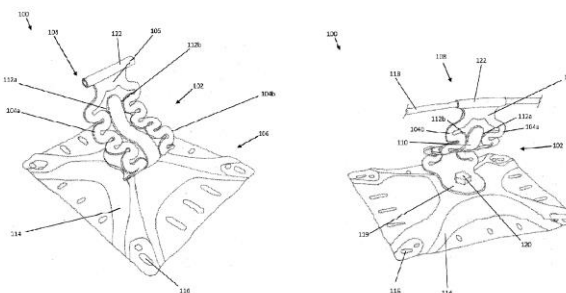


Figure 1A

Figure 1B

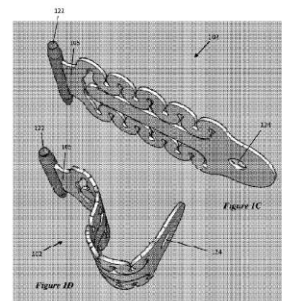
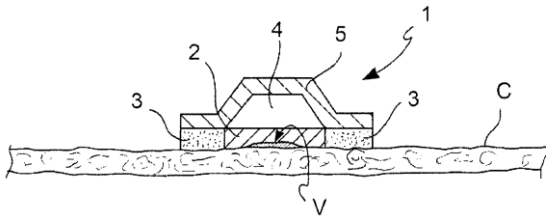


Figure 1C

Figure 1D

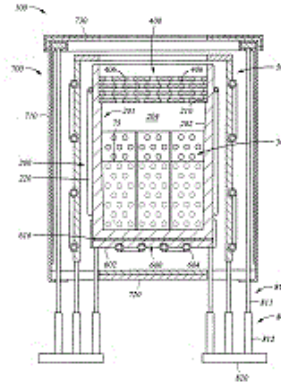
21: 2018/01300. 22: 26/02/2018. 43: 4/30/2021  
 51: A61K; A61P  
 71: POLI MD S.R.L., POLI, Elena  
 72: POLI, Elena  
 33: IT 31: 102015000048609 32: 2015-09-04  
 33: IT 31: 102016000049308 32: 2016-05-13  
**54: COMPOSITION AND MEDICAL DEVICE COMPRISING ACETYLSALICYLIC ACID FOR THE TREATMENT OF HUMAN PAPILLOMA VIRUS SKIN INFECTIONS**  
 00: -

A medical device for the treatment of papilloma virus (HPV) skin infections is the object of this invention, in particular for the treatment of warts and related pathologies. In particular, this invention relates to acetylsalicylic acid for use in the topical treatment of HPV skin infections in particular benign infections and more in particular warts. Acetylsalicylic acid may be administered by plaster or patch, both in a solid state, such as a tablet, powder or granulate, and by a hydrophilic or hydrophobic gel.



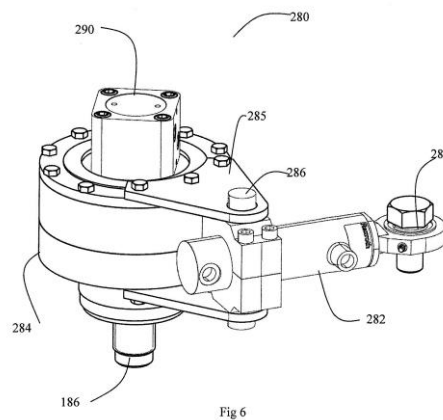
21: 2018/01346. 22: 27/02/2018. 43: 3/19/2021  
 51: C23C  
 71: FLISOM AG  
 72: RUTH, MARTA, PFEIFFER, RETO  
 33: US 31: 62/208,417 32: 2015-08-21  
 33: US 31: 62/371,545 32: 2016-08-05  
**54: HOMOGENEOUS LINEAR EVAPORATION SOURCE**  
 00: -

Embodiments of the present disclosure generally relate to evaporation sources used for physical vapor deposition of material onto substrates and more particularly for controlled coating of large substrates, such as vacuum deposition of copper, indium, gallium, selenium, tellurium, cadmium, or zinc on flexible substrates. Embodiments disclosed herein are able to control the evaporation rate of the source material during processing so as to obtain a uniform deposition across the width of the substrate as the complete length of a roll-to-roll substrate is moved past the evaporation source during processing.



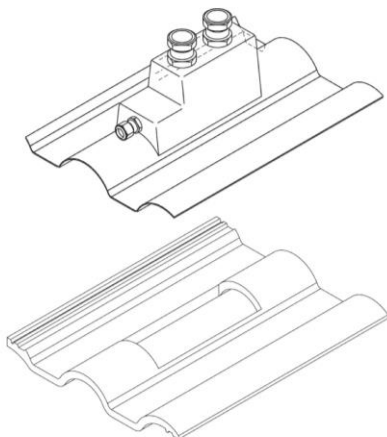
21: 2018/01438. 22: 3/1/2018. 43: 3/19/2021  
 51: F04D; F15B; F16H  
 71: Weir Minerals Australia Ltd  
 72: RADEMACHER, Marcelo  
 33: AU 31: 2015903630 32: 2015-09-04  
**54: A HYDRAULICALLY POWERED ROTARY ACTUATOR**  
 00: -

A hydraulically powered rotary actuator is described including: a hydraulic linear actuator which is moveable in both directions between a retracted position and an extended position; a clutch device which is operable between an engaged condition and a disengaged condition; and a rotary output member; wherein the linear actuator is coupled to the rotary output member by way of the clutch.



21: 2018/01530. 22: 3/6/2018. 43: 5/6/2021  
 51: E03C; F24H  
 71: CITY PARK TRADING 254 (PTY) LTD  
 72: ROCCO STEENBERGEN  
**54: WATERPROOFING APPARATUS**  
 00: -

The invention relates to a waterproofing apparatus utilised when installing a solar geyser on a roof of a dwelling or the like.



21: 2018/02447. 22: 4/13/2018. 43: 3/19/2021  
51: B22F; C01G; C22B

71: Sherritt International Corporation

72: QIN, Fu

33: US 31: 62/242,184 32: 2015-10-15

**54: HYDROGEN REDUCTION OF METAL SULPHATE SOLUTIONS FOR DECREASED SILICON IN METAL POWDER**

00: -

Process to decrease silicon content of metal powder produced by hydrogen reduction from ammoniacal ammonium sulphate solutions containing metal ammine complexes, wherein metal (Me) is Ni, Co, or Cu. The process controls the precipitation of metal hydroxide, which is found to be an effective scavenger for silicon. Silicon is preferentially removed from metal diammine sulphate-containing solutions by precipitating with a small amount of a metal hydroxide, and then separating the silicon-bearing metal hydroxide precipitate from the solution. This solution, from which the silicon impurity has been removed with the metal hydroxide precipitate, can then be reduced in one or more densification cycles with a reducing gas to produce an elemental metal powder having a decreased silicon content. Alternatively, the solution is reduced to produce a low silicon metal powder seed material for the first of the one or more densification cycles.

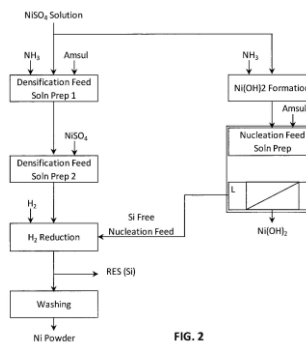


FIG. 2

21: 2018/02621. 22: 19/04/2018. 43: 3/19/2021  
51: D21H

71: SOLENIS TECHNOLOGIES, L.P., UPM-KYMMENE CORPORATION

72: HARRINGTON, JOHN C, LUSVARDI, KATE MARRITT, ZHANG, FUSHAN

33: US 31: 14/880,873 32: 2015-10-12

**54: METHOD OF INCREASING DRAINAGE PERFORMANCE OF A PULP SLURRY DURING MANUFACTURE OF PAPER PRODUCTS, AND PRODUCTS THEREFROM**

00: -

A method of increasing the drainage performance of a pulp slurry during the manufacture of paper products by adding (a) at least one microfibrillated cellulose and (b) at least one associative polymer or at least one branched or crosslinked copolymer to the pulp slurry. This addition occurs before the dewatering step where the pulp slurry is formed into a fibrous mat.

21: 2018/02923. 22: 04/05/2018. 43: 3/19/2021  
51: E04B; F24J

71: TRAC GROUP HOLDINGS LTD

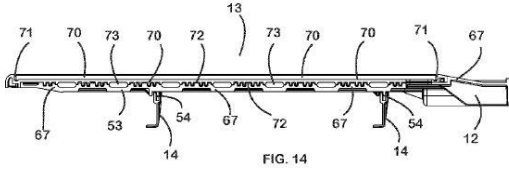
72: PERKINS, Jason Dean

**54: SOLAR THERMAL COLLECTOR**

00: -

There is provided a cladding member (13) formed of a supporting body portion (67) having mounts (54) and a head portion (12), and an absorber surface portion (70) having a peripheral boundary wall (71) defining a recess into which a solar cell array (removed in this view for clarity) is bonded. The supporting (67) and absorber surface (70) body portions are pressure moulded from polyvinyl ester/glassfibre (30%)/fire retardant (40%)/pigment sheet moulding compound. Complementary bonding portions (72) form a glue line in assembly and have complementary water passages (73) defined therebetween. The bonding portions (72) contrive a

generally sinusoidal glue space (74) that is longer than the transverse sectional dimension of the bonding portions (72), cooperating with the adhesive system to resist water pressure in the passages (73).



21: 2018/03091. 22: 5/11/2018. 43: 4/23/2021  
51: G06F; G06Q

71: Tata Consultancy Services Limited  
72: KRISHNAMURTHY, Girish, GOEL, Rupesh, SESHADRI, Srikrishna

33: IN 31: 201721016518 32: 2017-05-11

**54: SYSTEM AND METHOD FOR VIRTUAL ENABLEMENT OF HEALTHCARE SERVICES**

00: -

The disclosure presents a DiNC system and method to contextually communicate and share data amongst networked healthcare entities. It is configured to dynamically design virtual enablement services for the networked healthcare entities. DiNC is a service focused arrangement where communication is core to effect healthcare delivery. It allows user interaction both in context of a case management or in general communication. These interactions can be performed using multiple communication channels. It also facilitates healthcare services between the patients, who visit hospital and present in remote areas, with hospitals and doctors. The services provided are one amongst a catalog including but not limited to appointment scheduling, virtual doctor consultation, care follow ups of the patients and maintaining the case history of individual patients. It can predicts possible treatment outcome and possible epidemic outbreak. Further it provides triaging in healthcare provision by identifying level of care required and a probability of outcome.

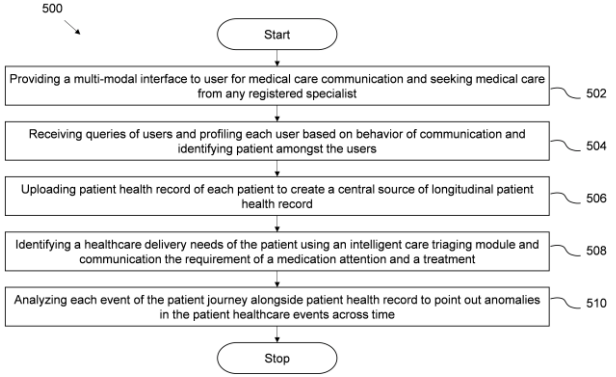


Fig. 5

21: 2018/03288. 22: 5/17/2018. 43: 4/23/2021  
51: B63B

71: OPACMARE S.r.l

72: FURLAN, Andrea

33: IT 31: 102017000053937 32: 2017-05-18

**54: STERN PLATFORM ASSEMBLY FOR AN OUTBOARD PROPELLED BOAT**

00: -

A stern platform assembly for an outboard propelled boat (B), comprising a pair of side support wings (11), a movable platform (13) arranged adjacent to the side support wings (11), and a motion mechanism (20; 20'; 20'') housed within each of the side support wings (11) and carrying the movable platform (13), wherein the movable platform (13) is movable between a terminal elevation position, in which it is arranged adjacent to the top of the side support wings (11), and a terminal lowering position, while keeping a predetermined orientation with respect to the side support wings (11) and keeping a closeness relationship with them, and wherein, when viewed in plan view, the assembly encompasses a room (R) circumscribed on three sides by the movable platform (13) and by the side support wings (11).

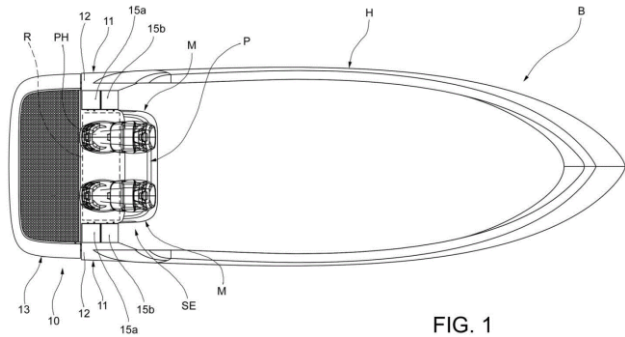
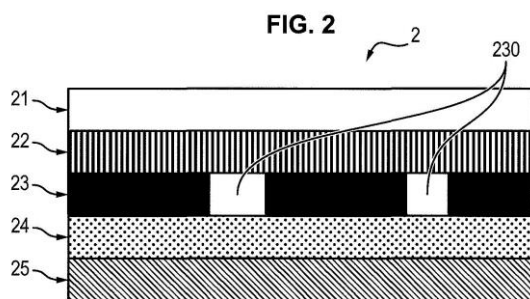


FIG. 1

21: 2018/03517. 22: 5/28/2018. 43: 3/19/2021  
 51: B42D; D21H  
 71: Oberthur Fiduciaire SAS  
 72: GILLOT, Julien, CHAPEAU, Guillaume, BORDE, Xavier  
 33: FR 31: 1561635 32: 2015-12-01  
**54: SECURITY DOCUMENT AND ELEMENT**  
 00: -

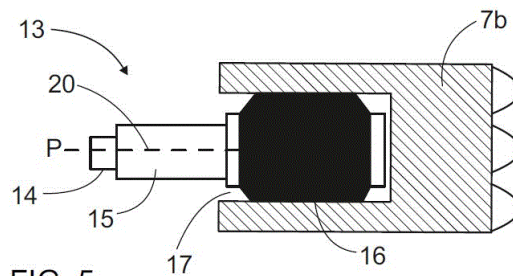
The present invention relates in particular to a multilayer security element (2), which comprises a transparent or translucent planar mounting (21), characterised in that one of the opposing faces of said mounting (21) is coated with the following consecutive layers: a) a layer with variable optical effect (22), i.e. which, under observation of the mounting (21), provides at least one change of appearance which is visible to the naked eye, in accordance with the observation conditions; b) a dark opaque layer (23) which has at least one slit (230); c) a semi-reflective layer (24), i.e. which is reflective when the mounting (21) is observed under reflected light, and which is transparent when the mounting is observed by transmission, said semi-reflective layer (24) being provided at least opposite one portion of said slit (230); d) a visible layer (25), i.e. which is visible under reflected light as well as by transmission, provided at least vertically in line with the one or more regions in which the semi-reflective layer (24) is provided.



21: 2018/03575. 22: 5/30/2018. 43: 3/26/2021  
 51: B25J; E21B  
 71: Sandvik Mining and Construction Oy  
 72: JÄRVENTAUSTA, Sami, SIMILÄ, Jukka  
 33: EP(FI) 31: 17175451.8 32: 2017-06-12  
**54: GRIPPING DEVICE AND METHOD OF GRIPPING DRILLING TOOLS**  
 00: -

A gripping device, rock drilling unit and method of gripping drilling tools. The gripping device (13) comprises a frame (15) and at least one elastic

gripping element (16) connected fluid-tightly to the frame. The gripping element may be expanded by conveying pressurized fluid (P) between surfaces of the frame and the gripping element whereby the gripping element moves against surfaces of the drilling tool (7) and generates friction forces and support.



**FIG. 5**

21: 2018/03942. 22: 6/13/2018. 43: 4/23/2021  
 51: A61K; A61P  
 71: CIPLA LIMITED  
 72: PHULL, Manjinder Singh, RAO, Dharmaraj Ramachandra, BIRARI, Dilip Ramdas  
 33: IN 31: 201721020606 32: 2017-06-13  
**54: NOVEL PROCESSES FOR PREPARATION OF INTEGRASE INHIBITOR**  
 00: -  
 The present invention provides processes and intermediates for the synthesis of bictegravir and its pharmaceutical salt.

21: 2018/03978. 22: 6/14/2018. 43: 3/12/2021  
 51: C07K  
 71: Janssen Vaccines & Prevention B.V.  
 72: LANGEDIJK, Johannes Petrus Maria, CALLENDRET, Benoit Christophe Stephan, VAN MANEN, Danielle, KRARUP, Anders, STITZ, Jorn, WEGMANN, Frank, VELLINGA, Jort  
 33: EP(NL) 31: 15200138.4 32: 2015-12-15  
**54: HUMAN IMMUNODEFICIENCY VIRUS ANTIGENS, VECTORS, COMPOSITIONS, AND METHODS OF USE THEREOF**  
 00: -

Synthetic HIV envelope proteins, vectors and compositions thereof, and methods for inducing protective immunity against human immunodeficiency virus (HIV) infection are described. Viral expression vectors encoding the synthetic HIV envelope proteins can be used in vaccines to provide improved protective immunity against HIV.



21: 2018/04211. 22: 6/22/2018. 43: 3/19/2021  
 51: G06T; G09G; H04N

71: Koninklijke Philips N.V.

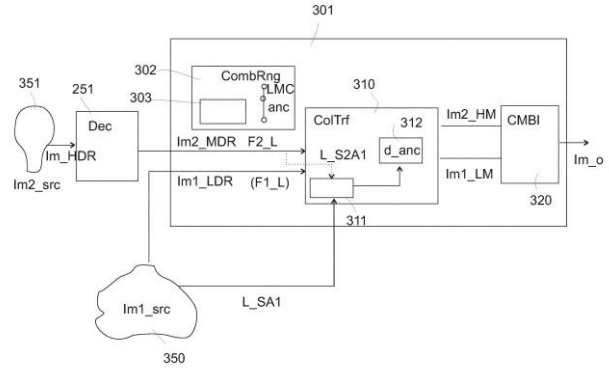
72: MERTENS, Mark Jozef Willem

33: EP(NL) 31: 15196054.9 32: 2015-11-24

**54: HANDLING MULTIPLE HDR IMAGE SOURCES**

00: -

To allow the needed versatile image or video combination now that HDR videos of considerably different luminance characteristics are appearing, the apparatus (301) for combining two images or two videos of images (Im\_HDR, Im\_LDR), one of them being a high dynamic range image or video, the apparatus comprising: - a dynamic range establishing unit (302) arranged to establish a combination luminance dynamic range (CombRng), being characterized by at least a maximum luminance (LMC) which is determined based on at least one of: a maximum luminance of at least one of the two images or the two videos of images, and a peak brightness of a display for rendering the two images or the two videos of images, the dynamic range establishing unit further comprising a luminance anchor determining unit (303), arranged to determine an anchor luminance (anc) in the combination luminance dynamic range (CombRng), - a color transformation unit (310), arranged to perform at least a luminance transformation on at least one of the two images or videos, wherein the color transformation unit (310) comprises a source anchor luminance reading unit (311) arranged to read at least one source anchor luminance (L\_SA1) from a first source (350) which delivers a first image or video (Im1\_LDR) of the two images or videos, and wherein the color transformation unit is arranged to establish a color transformation (FF\_1) to be applied to the first image or video, which color transformation is independent on the value of the source anchor luminance (L\_SA1) by having the property that the source anchor luminance (L\_SA1) is mapped to an output luminance in a vicinity of the anchor luminance (anc); and - an image combination unit (320) arranged to combine the two images or two videos of images to form at least one output image (Im\_o).



21: 2018/04377. 22: 6/29/2018. 43: 3/31/2021  
 51: H01M

71: BUCHNER, Peter John

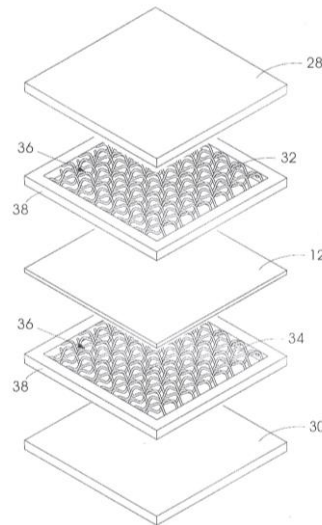
72: BUCHNER, Peter John

33: ZA 31: 2017/03418 32: 2017-05-17

**54: CATALYTIC HYDROGEN DISPERSAL MECHANISM**

00: -

The invention provides a fuel cell which includes a cathode, an anode and a proton-exchange membrane which separates the cathode and the anode, wherein the cathode and the anode respectively include a current collector plate and a catalyst coated grid interposed between the respective current collector plate and the proton-exchange membrane and wherein the grid is in electrical communication with both the plate and the membrane.



21: 2018/04868. 22: 7/19/2018. 43: 3/23/2021  
 51: B28C; E21B; E21D

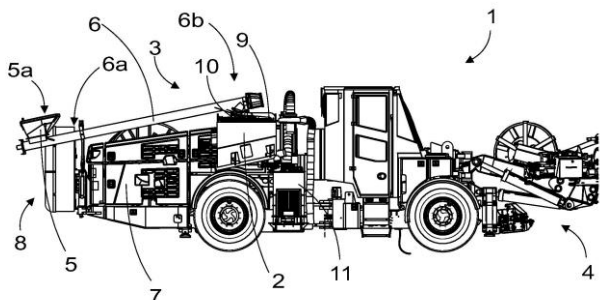
71: Sandvik Mining and Construction Oy  
 72: SIMILÄ, Jukka, YLI-HANNUKSELA, Tero,  
 JÄRVENTAUSTA, Sami

33: EP(FI) 31: 16152020.0 32: 2016-01-20

**54: FEED APPARATUS AND METHOD FOR FEEDING CEMENT TO A CEMENT SILO**

00: -

A feed apparatus (3) for feeding cement to a cement silo (2) of a mining machine (1) comprises a receptacle (5) for receiving cement, a transfer tube (6) connected at a first end (6a) to the receptacle (5) for guiding the cement from the receptacle (5) to the cement silo (2) connectable at a second end (6b) of the transfer tube (6) and transfer means arranged in connection with the transfer tube (6) and arranged to move cement within the transfer tube (6) from the receptacle (5) to the cement silo (2). The transfer tube (6) comprises at least one transfer tube section comprising a tube-like inner space for cement to be transferred.



21: 2018/05414. 22: 14/08/2018. 43: 3/19/2021

51: G06Q

71: OPINIONSHIELD

72: GRUBER, VICTOR, CWIEKA, DANIEL  
 THOMAS, SCALZO, TIMOTHY

33: US 31: 62/286,216 32: 2016-01-22

33: US 31: 62/300,575 32: 2016-02-26

33: US 31: 62/355,774 32: 2016-06-28

33: US 31: 62/278,172 32: 2016-01-13

33: US 31: 62/320,303 32: 2016-04-08

**54: DISTRIBUTED DATA PROCESSING SYSTEM FOR AUTHENTICATING AND DISSEMINATING USER-SUBMITTED DATA OVER A WIDE AREA NETWORK**

00: -

Systems and methods for providing electronic transaction verification and verified user submitted data may include a processor and a non-transitory memory device storing instructions that, when executed by the processor, cause the computing

system to transmit, to a user device via a first communication network, a message including information corresponding to an executed electronic transaction. The processor receives, from the user device via the first communication network, an electronic verification message verifying the electronic transaction and causes the user device to display a user interface screen corresponding to the verified executed transaction, the user interface screen including user inputs for selecting a plurality of pre-defined data entry elements. The selected data entry elements may be used to generate verified user submitted data based on the received plurality of user inputs disseminated over a wide area network and/or over a plurality of interconnected networks.

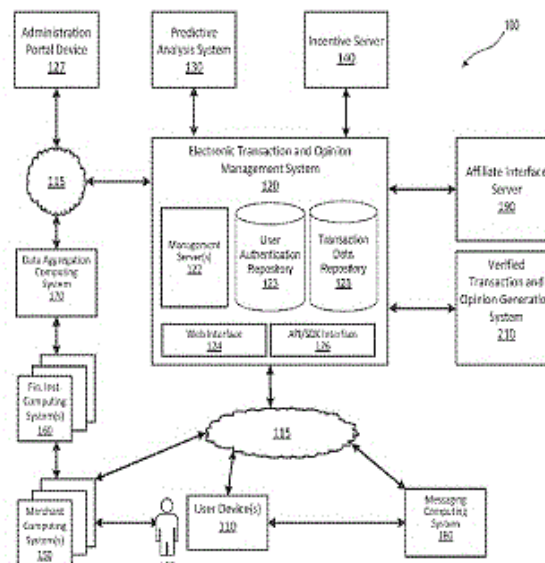


FIG. 1

21: 2018/05683. 22: 24/08/2018. 43: 4/23/2021

51: C05G

71: YARA INTERNATIONAL ASA

72: COLPAERT, Filip, LEDOUX, Francois, VAN  
 BELZEN, Ruud

33: EP 31: 16157221.9 32: 2016-02-24

**54: LIQUID UREASE INHIBITOR FORMULATIONS**

00: -

The present application generally related to a method for the manufacture of a liquid composition essentially consisting of an organic solvent of the type glycol and a urease inhibitor of the type phosphoric triamide and products obtained therewith.

21: 2018/06356. 22: 9/21/2018. 43: 3/19/2021  
51: A61K; A61P; C07D

71: Bristol-Myers Squibb Company

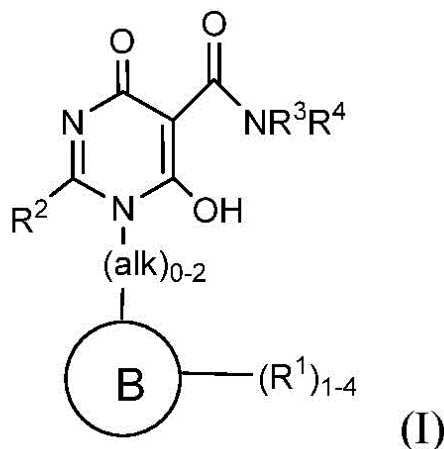
72: PI, Zulan, BILDER, Donna M., BRIGANCE, Robert Paul, FINLAY, Heather, JIANG, Wen, JOHNSON, James A., LAWRENCE, R. Michael, MENG, Wei, MYERS, Michael C., PHILLIPS, Monique, TORA, George O., ZHANG, Xiaojun

33: US 31: 62/312,780 32: 2016-03-24

**54: 6-HYDROXY-4-OXO-1,4-DIHYDROPYRIMIDINE-5-CARBOXAMIDES AS APJ AGONISTS**

00: -

The present invention provides compounds of Formula (I) wherein all variables are as defined in the specification, and compositions comprising any of such novel compounds. These compounds are APJ agonists which may be used as medicaments.



21: 2018/06860. 22: 15/10/2018. 43: 3/23/2021  
51: A61K; C07K

71: IMCYSE SA

72: VANDER ELST, Luc

33: EP 31: 16166054.3 32: 2016-04-19

**54: NOVEL IMMUNOGENIC CD1D BINDING PEPTIDES**

00: -

The invention relates to isolated immunogenic peptides comprising a CD1d binding peptide, and immediately adjacent or separated from said CD1d binding peptide, a redox motif sequence which is further flanked by a histidine or tryptophan amino acids. The invention further relates to these peptides for use as a medicament The invention further relates to methods wherein these peptides are used

for generating NKT cells which are cytolytic against cells presenting the cognate antigen.

21: 2018/07009. 22: 10/19/2018. 43: 3/12/2021  
51: D01D; D04H; G01N

71: Innovative Mechanical Engineering Technologies B.V.

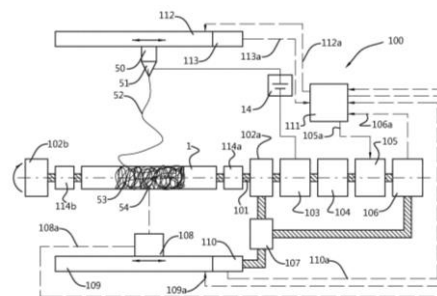
72: JANSSEN, Paul Johannes Franciscus Maria, SOLBERG, Ramon Hubertus Mathijs

33: NL 31: 2016652 32: 2016-04-21

**54: ELECTROSPINNING DEVICE AND METHOD**

00: -

An electrospinning device is provided with a container for holding a liquid comprising a polymer melt or a polymer solution, and a nozzle arranged to outlet a stream of the liquid from the container. A collector collects electro spun material during electrospinning so as to form a fibrous structure. The device comprises an optical measurement system that measures a baseline distance between the collector and the optical measurement system for at least one location on a surface of the collector, and also measures a momentary distance between the optical measurement system and a momentary top layer of the fibrous structure during the electrospinning process. A processor calculates a momentary thickness of the fibrous structure. Once a required thickness is reached the electrospinning can be stopped.



21: 2018/07019. 22: 22/10/2018. 43: 3/19/2021  
51: F24J

71: 247SOLAR INC.

72: ANDERSON, BRUCE, TREECE, WILLIAM DEAN

33: US 31: 61/613,948 32: 2012-03-21

33: US 31: 61/613,954 32: 2012-03-21

33: US 31: 61/613,950 32: 2012-03-21

33: US 31: 61/613,947 32: 2012-03-21

**54: MULTI-THERMAL STORAGE UNIT SYSTEMS, FLUID FLOW CONTROL DEVICES, AND LOW PRESSURE SOLAR RECEIVERS FOR SOLAR POWER SYSTEMS, AND RELATED COMPONENTS AND USES THEREOF**

00: -  
 Inventive concentrated solar power systems using solar receivers, and related devices and methods, are generally described.

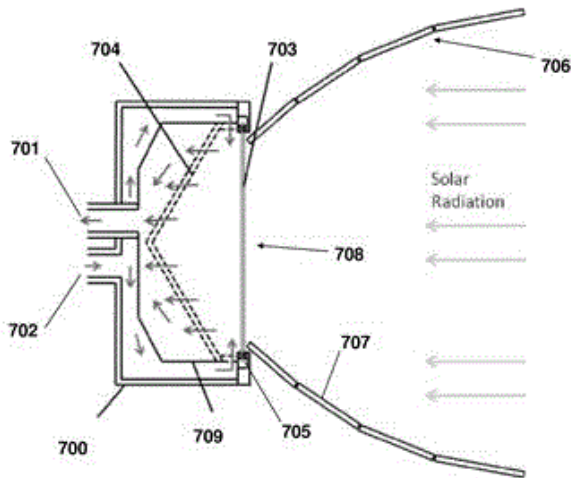


FIG. 7A

21: 2018/07132. 22: 10/25/2018. 43: 3/12/2021  
 51: A61K; A61P; C07K  
 71: Fourth Military Medical University  
 72: CHEN, Zhinan, ZHU, Ping, HUANG, Wan, ZHANG, Zheng, ZHANG, Yang, ZHANG, Mengyao, BIAN, Huijie, JIANG, Jianli  
 33: CN 31: 201610285139.4 32: 2016-04-29

**54: HUMANIZED ANTI-BASIGIN ANTIBODIES AND THE USE THEREOF**

00: -  
 Provided herein is a humanized anti-BASIGIN antibody or antigen binding fragment thereof, which comprises heavy chain variable region(V<sub>H</sub>) comprising an amino acid sequence of SEQ ID NO:1, optionally further comprises light chain variable region (V<sub>L</sub>) comprising an amino acid sequence of SEQ ID NO: 2. Also provided a composition comprising the humanized anti-BASIGIN antibody or antigen binding fragment thereof, an isolated nucleic acid sequence encoding the humanized anti-BASIGIN antibody or antigen binding fragment thereof, a vector comprising the nucleic acid, a host cell comprising the vector, and use of the humanized anti-BASIGIN antibody or antigen binding fragment thereof.

21: 2018/07136. 22: 10/25/2018. 43: 3/12/2021

51: A61K; A61P  
 71: Anika Therapeutics, Inc.  
 72: WHITE, Colin D., AHN, Edward S., NOEL, Sekoni Daouda  
 33: US 31: 62/328,396 32: 2016-04-27  
**54: COMPOSITIONS FOR USE IN TREATING TENDON DEGENERATION**

00: -  
 Injectable compositions and methods for treating an injured tendon in an animal or human are disclosed herein. The injectable compositions include an effective amount of a carbohydrate to increase osteotendinous hydration and lubrication.

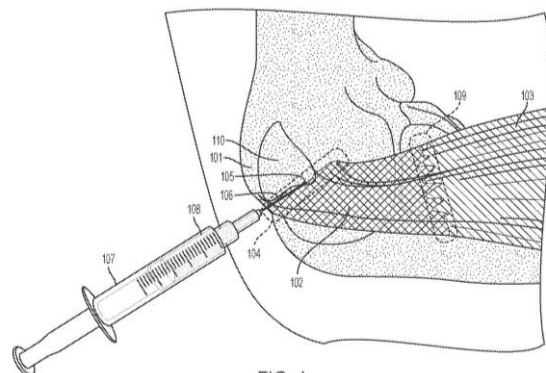


FIG. 1

21: 2018/07219. 22: 10/29/2018. 43: 3/12/2021  
 51: G01N; G02B; G06K  
 71: S.D. Sight Diagnostics Ltd  
 72: ESHEL, Yochay Shlomo, HOURI YAFIN, Arnon, POLLAK, Joseph Joel, BACHAR, Neta, MARCIANO, Annael, LEVY SCHREIER, Sarah  
 33: US 31: 62/315,223 32: 2016-03-30

**54: DISTINGUISHING BETWEEN BLOOD SAMPLE COMPONENTS**

00: -  
 Apparatus and methods are described for use with an output device (34), and a blood sample (12) that was drawn from a subject. A microscope system (10) acquires first and second images of the blood sample at respective times. A computer processor (28) determines whether, between acquisitions of the first and second images, there was relative motion between at least one erythrocyte within the sample and at least one entity within the sample, by comparing the first and second images to one another. At least partially in response thereto, the computer processor determines whether the entity is an extra- erythrocytic or an intra-erythrocytic entity, and generates an output on the output device, at

least partially in response thereto. Other applications are also described.

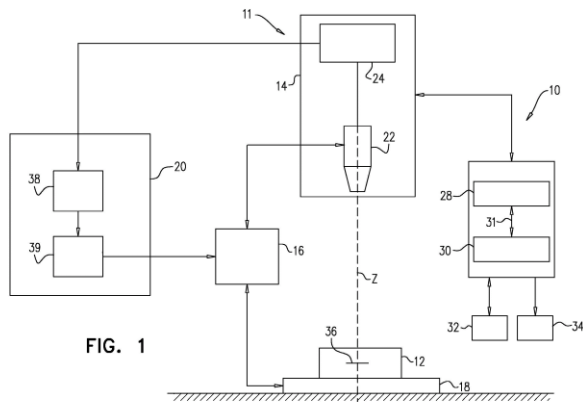


FIG. 1

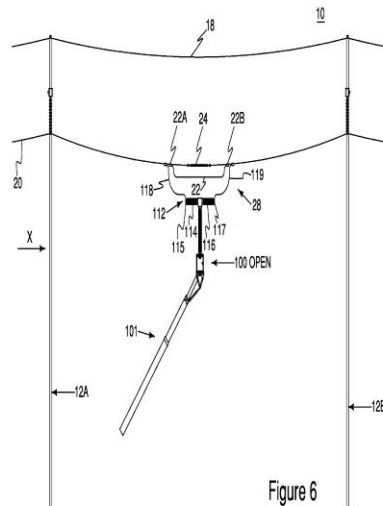


Figure 6

21: 2018/07266. 22: 10/30/2018. 43: 3/12/2021  
 51: H01H; H02G  
 71: Quanta Associates, L.P.  
 72: O'CONNELL, Daniel Neil, WABNEGGER, David Karl

33: US 31: 62/316,232 32: 2016-03-31

**54: A BOOM MOUNTABLE BREAKER AND METHODS OF USING SAME**

00: -

A boom mountable breaker system and a method of using same for interrupting electrical transmission through a portion of an energized conductor downstream of a desired break location. The method includes: mounting the jumper onto the energized conductor across the desired break location so as to form an electrically conductive first parallel electrical path; installing an in-line opener in the energized conductor at the desired break location on the energized conductor; positioning the breaker at the desired break location on the energized conductor, and electrically connecting the breaker, while open, across the desired break location and across the opposite ends of the jumper so as to form a second parallel electrical path when the breaker is closed; closing the breaker to thereby complete the second parallel electrical path; removing the jumper from across the desired break location; and, opening and then removing the breaker.

21: 2018/07476. 22: 11/7/2018. 43: 3/19/2021  
 51: A61K; A61Q

71: Colgate-Palmolive Company  
 72: YANG, Ying, CHEN, Dandan, D'AMBROGIO, Robert, THOMSON, Paul, TRIVEDI, Harsh Mahendra, PRENCIPE, Michael, MASTERS, James Gerard, JARACZ, Stanislav  
 33: US 31: 62/354,279 32: 2016-06-24

**54: ORAL CARE COMPOSITION AND METHOD OF USE**

00: -

This invention relates to oral care compositions comprising zingerone, bisabolol, a stannous ion source, zinc oxide, and zinc citrate, as well as to methods of using and of making these compositions.

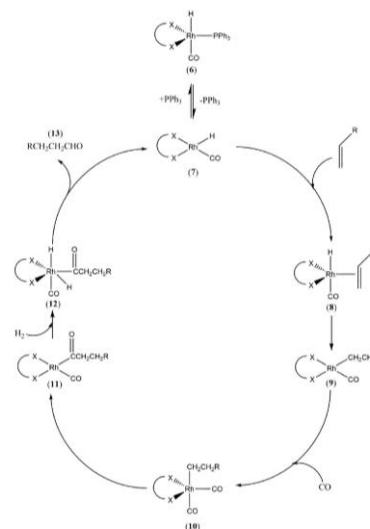
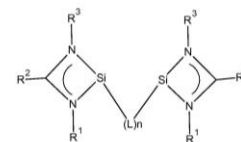
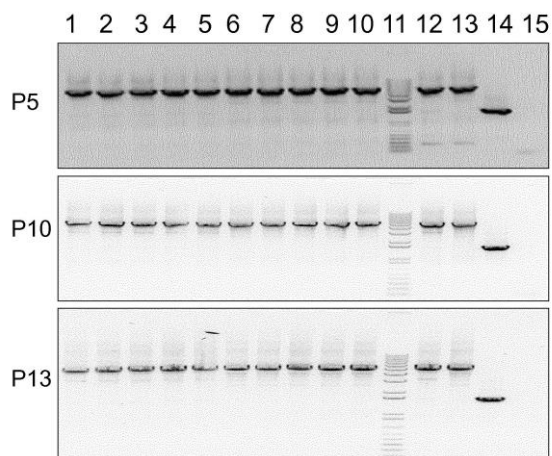
21: 2018/07542. 22: 11/9/2018. 43: 3/19/2021  
 51: C12N

71: Janssen Vaccines & Prevention B.V.  
 72: WUNDERLICH, Kerstin, VELLINGA, Jort  
 33: EP(NL) 31: 16169284.3 32: 2016-05-12

**54: POTENT AND BALANCED BIDIRECTIONAL PROMOTER**

00: -

The invention provides a bidirectional hCMV-CAG4 promoter and recombinant vectors and recombinant virus comprising the bidirectional hCMV-CAG4 promoter operably linked to a first transgene in one direction and to a second transgene in the opposite direction. The invention also provides methods of making and using such recombinant vectors and recombinant virus.



21: 2018/07579. 22: 11/12/2018. 43: 3/19/2021  
 51: C07C; C07F  
 71: Technische Universität Berlin  
 72: DRIESS, Matthias, SCHOMÄCKER, Reinhard,  
 BLOM, Burgert, SCHMIDT, Marcel  
 33: DE 31: 10 2016 206 303.0 32: 2016-04-14  
**54: CATALYST FOR THE HYDROFORMYLATION  
 OF OLEFINS, AND USE THEREOF**  
 00: -

The invention relates to a catalyst for the hydroformylation of at least one olefin, comprising a ligand of the general formula (I) -  $R^1$ ,  $R^2$ ,  $R^3$  selected from the group comprising substituted and non-substituted alkyl, substituted and non-substituted aryl, substituted and non-substituted alkenyl, substituted and non-substituted alkynyl, substituted and non-substituted cycloalkyl, and substituted and non-substituted heterocycles, - wherein  $R^1$ ,  $R^2$  and  $R^3$  can each be the same or different, L is selected from a group comprising a sandwich complex, an oxygen group, substituted and non-substituted alkylene or heterocycles, and substituted aryl or heteroaryl; and aryl and heteroaryl is each substituted with groups which contain at least two heteroatoms and are coupled to the Si via the at least two heteroatoms of the substituents, -  $n = 1-10$ , preferably 1-5, particularly preferably 1, 2, or 3; and - the ligand is coupled to the metal M from the group VIIIb of the periodic table of elements via the Si group.

21: 2018/07581. 22: 11/12/2018. 43: 3/19/2021  
 51: A61K; C07K; C12N  
 71: F. Hoffmann-La Roche AG  
 72: FERRARA KOLLER, Claudia, CLAUS, Christina,  
 KLEIN, Christian, SEEBER, Stefan, AMANN, Maria,  
 GRAU-RICHARDS, Sandra, BRUENKER, Peter,  
 UMANA, Pablo, LEVITSKI, Viktor, MOESSNER,  
 Ekkehard  
 33: EP(CH) 31: 16169487.2 32: 2016-05-13  
**54: ANTIGEN BINDING MOLECULES  
 COMPRISING A TNF FAMILY LIGAND TRIMER  
 AND PD1 BINDING MOIETY**  
 00: -

The invention relates to novel TNF family ligand trimer-containing antigen binding molecules comprising (a) at least one moiety capable of specific binding to PD1 and (b) a first and a second polypeptide that are linked to each other by a disulfide bond, characterized in that the first polypeptide comprises two ectodomains of a TNF ligand family member or fragments thereof that are connected to each other by a peptide linker and in that the second polypeptide comprises only one ectodomain of said TNF ligand family member or a fragment thereof.

21: 2018/07630. 22: 11/13/2018. 43: 3/19/2021

51: B60L

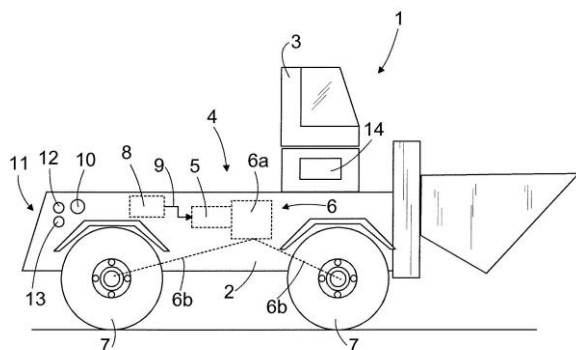
71: Sandvik Mining and Construction Oy  
72: VÄRE, Ville, KITULA, Mikko, HAIKIO, Sami,  
JOUTSELA, Matti

33: EP(FI) 31: 16174977.5 32: 2016-06-17

**54: CHARGING CONNECTOR ARRANGEMENT IN UNDERGROUND VEHICLE**

00: -

An underground mining vehicle (1) comprises an electric motor (5) for driving the vehicle and a rechargeable battery (8) for supplying electric energy to the electric motor. The vehicle further comprises a charging system (15) to be connected to an electric power source (17) external to the vehicle (1) for recharging the at least one rechargeable battery (8), a cooling system (19) to be connected to a cooling agent source (24) external to the vehicle (1) for cooling the rechargeable battery (8), and at least one detection element (28, 30) for detecting the cooling system (19) being connected to the external cooling agent source (24).



21: 2018/07633. 22: 11/13/2018. 43: 3/19/2021

51: A61K; A61P; C07K

71: Eli Lilly and Company

72: DEMATTOS, Ronald Bradley, IRIZARRY,  
Michael Carl

33: US 31: 62/357,579 32: 2016-07-01

**54: ANTI-N3pGlu AMYLOID BETA PEPTIDE ANTIBODIES AND USES THEREOF**

00: -

The invention is directed to a short term induction treatment with anti-N3pGlu A $\beta$  antibodies of a disease characterized by deposition of A $\beta$  in the brain, that include Alzheimer's disease (AD), Down's syndrome, and cerebral amyloid angiopathy (CAA). In certain embodiments, patients are administered an induction dose of 10 to 60 mg/kg of an anti-N3pGlu A $\beta$  antibody for a period of 6 months or less.

21: 2018/07652. 22: 14/11/2018. 43: 3/19/2021

51: A61K; C07H; A61P

71: NUCANA PLC

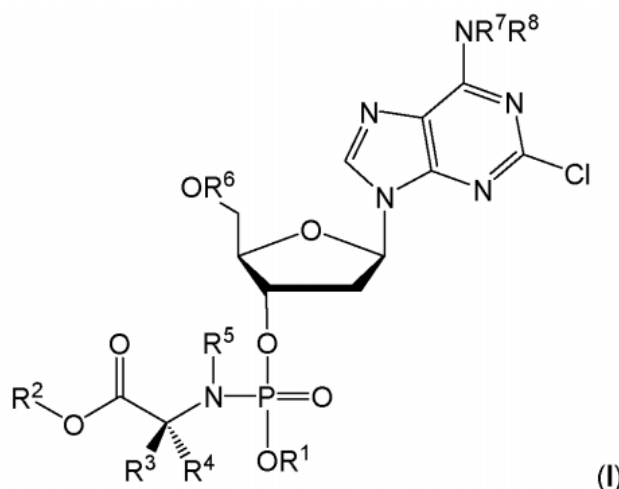
72: GRIFFITH, Hugh, SERPI, Michaela,  
SLUSARCZYK, Magdalena, MCGUIGAN,  
Christopher (Deceased)

33: GB 31: 1609601.8 32: 2016-06-01

**54: PHOSPHoramidate NUCLEOSIDE DERIVATIVES AS ANTICANCER AGENTS**

00: -

This invention relates to derivatives of cladribine of Formula (I). The compounds are phosphoramidate derivatives in which the phosphoramidate moiety is situated on the 3'-hydroxyl group of cladribine. The invention also relates to pharmaceutical formulations of the cladribine derivatives and their use in methods of treatment. The compounds are useful in the treatment of cancer.



(I)

21: 2018/07687. 22: 11/15/2018. 43: 3/19/2021

51: G01N

71: S.D. Sight Diagnostics Ltd

72: ZAIT, Amir, HOURI YAFIN, Arnon, GLUCK, Dan,  
PECKER, Sharon, ESHEL, Yochay Shlomo, LEVY  
SCHREIER, Sarah, POLLAK, Joseph Joel

33: US 31: 62/334,517 32: 2016-05-11

**54: PERFORMING OPTICAL MEASUREMENTS ON A SAMPLE**

00: -

Apparatus and methods are described for use with a blood sample (48, 50), including measuring hemoglobin concentration within at least a portion (48) of the blood sample, by performing a first measurement on the blood sample. Mean corpuscular hemoglobin in the blood sample (48, 50) is measured, by performing a second measurement

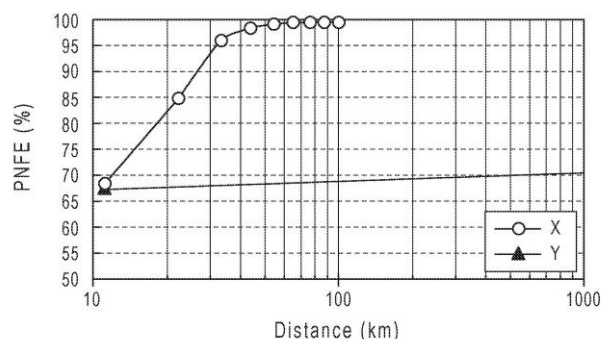
on the blood sample (48, 50). A parameter of the blood sample is determined, based on a relationship between the concentration of hemoglobin and the mean corpuscular hemoglobin. Other applications are also described.

21: 2018/07691. 22: 11/15/2018. 43: 3/19/2021  
 51: C07C; C10G  
 71: REG Synthetic Fuels, LLC  
 72: ABHARI, Ramin, SLADE, David A., TOMLINSON, H. Lynn, ASHBY, Erik, GREEN, Nate, GOLDEN, Caroline  
 33: US 31: 62/334,968 32: 2016-05-11  
**54: BIORENEWABLE KEROSENE, JET FUEL, JET FUEL BLENDSTOCK, AND METHOD OF MANUFACTURING**  
 00: -

The present technology provides compositions that include at least about 98 weight percent ("wt%") n-paraffins which, among other surprising features, may be suitable for use as a diesel fuel, an aviation fuel, a jet fuel blendstock, a blendstock to reduce the cloud point of a diesel fuel, a fuel for portable heaters, and/or as a charcoal lighter fluid. The composition includes at least about 98 wt% C<sub>7</sub>-C<sub>12</sub> n-paraffins, where at least about 10 wt% of composition includes n-decane, at least about 20 wt% of the composition includes n-dodecane, and at least about 75 wt% of the composition includes even carbon number paraffins. The composition also includes less about 0.1 wt% oxygenates and less than about 0.1 wt% aromatics. The composition may be produced by a process that includes hydrotreating a biorenewable feedstock comprising at least one of palm kernel oil, coconut oil, babassu oil, microbial oil, or algal oil.

21: 2018/07733. 22: 11/16/2018. 43: 3/19/2021  
 51: C10L; F01N  
 71: Corning Incorporated  
 72: ROSE, Dominik  
 33: US 31: 62/337,552 32: 2016-05-17  
**54: POROUS CERAMIC FILTERS AND METHODS FOR FILTERING**  
 00: -

Disclosed herein are particulate filtration systems comprising a fuel source, a fuel burner, and a porous ceramic structure, the fuel source comprising at least one fuel additive capable of producing ash upon combustion. The resulting ash can be deposited on the porous ceramic structure in an amount sufficient to improve the filtration efficiency of the structure over a relatively short period of time or relatively short driving distances. Vehicles comprising such particulate filtration systems and methods for filtering particulate matter from a fluid stream are also disclosed herein. Further disclosed herein are methods for conditioning a particulate filter to improve the initial filtration efficiency.



21: 2018/07893. 22: 11/22/2018. 43: 3/19/2021  
 51: A24F; A61M  
 71: Nicoventures Holdings Limited  
 72: FRASER, Rory, JAIN, Siddhartha  
 33: GB 31: 1610220.4 32: 2016-06-13  
**54: AEROSOL DELIVERY DEVICE**  
 00: -

An aerosol delivery device (1) comprising a mouthpiece end (18); an aerosol generation chamber (16) in fluid communication with the mouthpiece end via a primary air channel (3), wherein the aerosol generation chamber comprises an aerosol source for generating an aerosol from a source material for inhalation by a user through the mouthpiece end during use; and a sensor (8) for detecting when a user inhales on the mouthpiece end, wherein the sensor is in fluid communication with the mouthpiece end via a secondary air channel (5), and wherein the sensor is located further from the mouthpiece end than the aerosol source, and the secondary air channel bypasses the aerosol generation chamber.



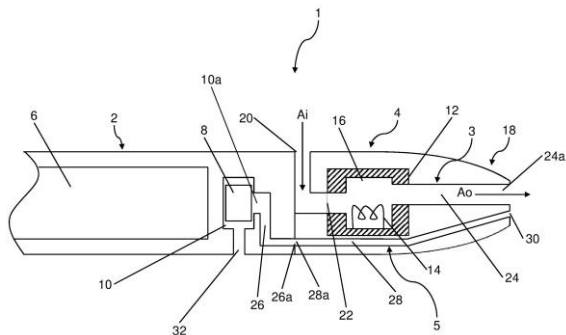
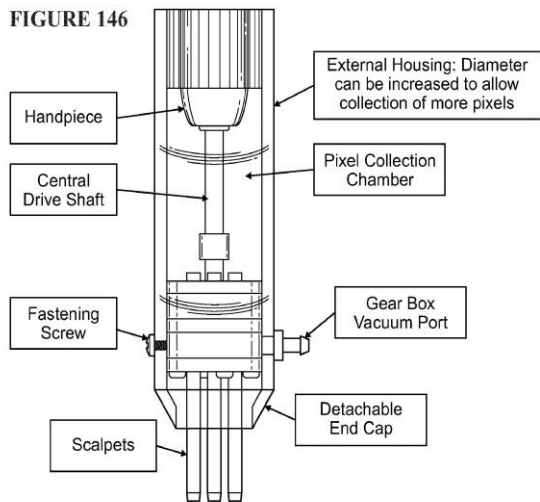


Fig. 2

21: 2018/07936. 22: 11/23/2018. 43: 3/19/2021  
 51: A61B; A61M  
 71: SRGI Holdings, LLC, KNOWLTON, Edward  
 72: KNOWLTON, Edward  
 33: US 31: 62/331,076 32: 2016-05-03  
**54: PIXEL ARRAY MEDICAL SYSTEMS, DEVICES AND METHODS**

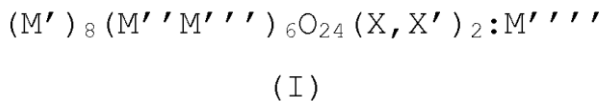
00: -  
 Systems, instruments, methods, and compositions are described involving removing a portion of the epidermis within a donor site on a subject, and harvesting dermal plugs within the donor site. An injectable filler is formed by mincing the dermal plugs. The injectable filler is configured for injecting into a recipient site on the subject.



21: 2018/08108. 22: 29/11/2018. 43: 3/19/2021  
 51: A61K; B42D; C01B; C09K; F21K  
 71: TURUN YLIOPISTO  
 72: LASTUSAARI, Mika, NORRBO, Isabella  
 33: FI 31: 20165392 32: 2016-05-09

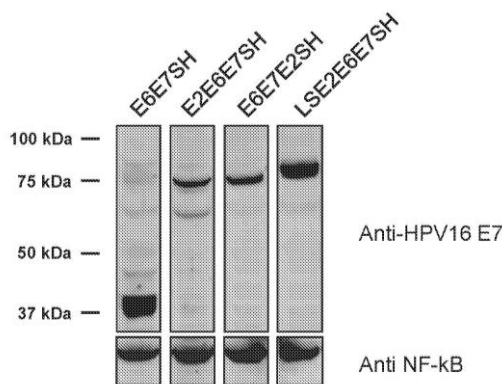
**54: LUMINESCENT MATERIAL**

00: -  
 The invention relates to a material represented by the following formula (I). Further, the invention relates to a luminescent material, to different uses, and to a device.



21: 2018/08121. 22: 11/30/2018. 43: 3/19/2021  
 51: A61K; C07K  
 71: Janssen Vaccine & Prevention B.V., Bavarian Nordic A/S  
 72: CUSTERS, Jerome H.h.v., SCHEPER, Gerrit C., KHAN, Selina, KALLA, Markus, WEIDNER, Katrin, BUNNIK, Evelien M.  
 33: US 31: 62/330,562 32: 2016-05-02  
**54: THERAPEUTIC HPV VACCINE COMBINATIONS**

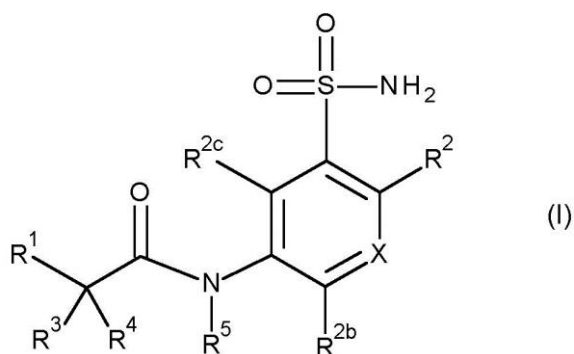
00: -  
 Vectors, vaccines, vaccine compositions and vaccine combinations for use as therapeutics against HPV18 and/or HPV16 are described.



21: 2018/08130. 22: 11/30/2018. 43: 3/19/2021  
 51: A61K; A61P; C07C; C07D  
 71: Bayer Pharma Aktiengesellschaft  
 72: WERNER, Stefan, MESCH, Stefanie, CLEVE, Arwed, BRÄUER, Nico, HERBERT, Simon Anthony, KOCH, Markus, DAHLLÖF, Henrik, OSMERS, Maren, HARDAKER, Elizabeth, LISHCHYNSKYI, Anton  
 33: EP(DE) 31: 16167996.4 32: 2016-05-03  
**54: AROMATIC SULFONAMIDE DERIVATIVES**

00: -  
 Substituted aromatic sulfonamides of formula (I) pharmaceutical compositions and combinations

comprising said compounds and the use of said compounds for manufacturing a pharmaceutical composition for the treatment or prophylaxis of a disease.



21: 2018/08131. 22: 11/30/2018. 43: 3/19/2021  
51: A61K; A61P; C07D  
71: Bayer Pharma Aktiengesellschaft  
72: COLLIN-KRÖPELIN, Marie-Pierre, KOLKHOFF, Peter, NEUBAUER, Thomas, FÜRSTNER, Chantal, POOK, Elisabeth, WITTMER, Matthias Beat, LUSTIG, Klemens, BUCHMÜLLER, Anja, TINEL, Hanna, DRÖBNER, Karoline, MONDRITZKI, Thomas, SCHIRMER, Heiko, KRETSCHMER, Axel, SCHMECK, Carsten, WASNAIRE, Pierre, CERNECKA, Hana  
33: EP(DE) 31: 16168165.5 32: 2016-05-03  
**54: AMIDE-SUBSTITUTED PYRIDINYLTRIAZOLE DERIVATIVES AND USES THEREOF**  
00: -

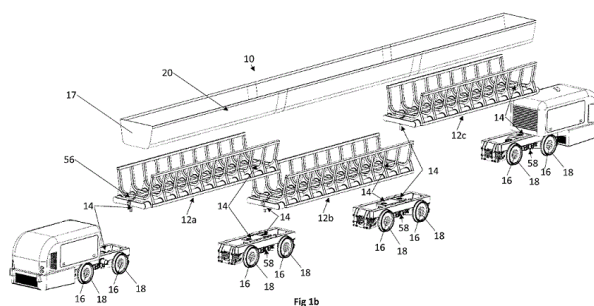
The present invention relates to novel 5-(carboxamide)-1-pyridinyl-1,2,4-triazole derivatives, to processes for the preparation of such compounds, to pharmaceutical compositions containing such compounds, and to the use of such compounds or compositions for the treatment and/or prevention of diseases, in particular for the treatment and/or prevention of renal and cardiovascular diseases.

21: 2018/08132. 22: 11/30/2018. 43: 3/19/2021  
51: D21H  
71: Solenis Technologies, L.P.  
72: EHRHARDT, Susan M., VARNELL, Daniel F.  
33: US 31: 62/331,000 32: 2016-05-03  
**54: BIOPOLYMER SIZING AGENTS**  
00: -

A composition and method for imparting paper and paperboard with resistance to aqueous penetrants using renewable biopolymers, and the resulting paper and paperboard, are disclosed. The renewable biopolymers when combined with water-soluble, hydroxylated polymers or water-soluble salts and applied to the surface of paper or paperboard, results in resistance to aqueous penetrants.

21: 2018/08159. 22: 12/3/2018. 43: 3/19/2021  
51: B61D B61F B61C B65G  
71: BULK ORE SHUTTLE SYSTEM PTY LTD  
72: WYATT, Stephen, DE HAAS, David  
33: AU 31: 2016901741 32: 2016-05-10  
33: AU 31: 2016901686 32: 2016-05-06  
**54: RAIL TRANSPORT SYSTEM**  
00: -

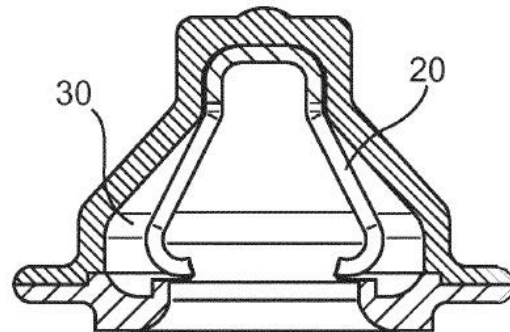
A rail transport system 10 has at least two load carrying bodies 12 which are arranged end to end. Mutually adjacent bodies 12 are coupled together by respective coupling systems 14. The rail transport system 10 further includes a plurality of axles 16 each provided at opposite ends with respective rail wheels 18 which support the bodies 12. A flexible liner 20 is supported by the bodies 12. The liner 20 is configured to span respective coupling systems 14. In this way the bodies 12 and the flexible liner 20 form a continuous load carrying structure 22. The continuous load carrying structure 22 is arranged so as to be able to pivot about an axis perpendicular to the axles 16 to facilitate unloading of cargo from the bodies 12.



21: 2018/08647. 22: 20/12/2018. 43: 3/19/2021  
51: G01N  
71: MORPHOSYS AG  
72: ENDELL, JAN, WINDERLICH, MARK, BOXHAMMER, RAINER  
33: EP 31: 16171885.3 32: 2016-05-30

**54: METHODS FOR PREDICTING THERAPEUTIC BENEFIT OF ANTI-CD19 THERAPY IN PATIENTS**

00: -  
 The present disclosure is directed to a method of identifying a subject having chronic lymphocytic leukemia (CLL), non-Hodgkin's lymphoma (NHL), small lymphocytic lymphoma (SLL) or acute lymphoblastic leukemia (ALL) that is responsive to treatment with an anti-CD19 antibody, said method comprising: a) providing a blood sample obtained from said subject prior to treatment with said anti-CD19 antibody, b) determining the level of at least one biomarker in said sample selected from the group consisting of: i) peripheral NK cell count, and ii) CD16 expression levels on peripheral NK cells, c) comparing the level of said at least one biomarker in said sample to a predetermined cut off level, wherein levels of said at least one biomarker at or above the predetermined cut off level is indicative of a subject who would benefit from treatment with an anti-CD19 antibody. The present disclosure is also directed to a method for selecting a patient for treatment according to the above and to the use of an anti-CD19 antibody for the treatment of such a patient.



21: 2019/00029. 22: 03/01/2019. 43: 4/23/2021  
 51: A01K  
 71: ALLFLEX EUROPE  
 72: Johan DECALUWE, Jean-Jacques HILPERT, Jean-Jacques DESTOUMIEUX, Bruno TEYCHENE  
 33: FR 31: 1657216 32: 2016-07-27

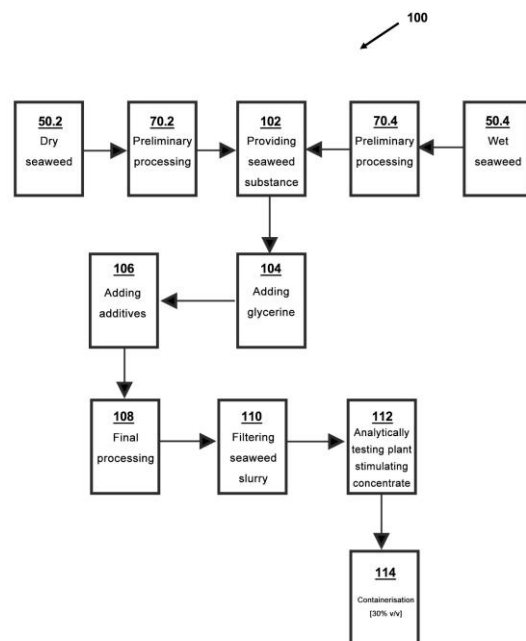
**54: FEMALE PART OF AN ANIMAL IDENTIFICATION DEVICE COMPRISING AN ELEMENT FOR LOCKING THE MALE PART INSIDE THE FEMALE PART**

00: -  
 The invention relates to a female part of an animal identification device, comprising a cavity (30) intended to receive a head of a male part of said animal identification device. According to the invention, said cavity (30) comprises a locking element (20) intended to retain the head inside the cavity, the locking element comprising a base and at least two resilient claws extending from the base towards the entrance of the cavity, the claws being movable between at least two positions, including an insertion position allowing the head to be inserted into the cavity and a locking position allowing the head to be locked inside the cavity.

21: 2019/00434. 22: 1/22/2019. 43: 4/14/2021  
 51: A01N; A01P  
 71: BOSHOFF, George Albert  
 72: BOSHOFF, George Albert  
 33: ZA 31: 2017/07274 32: 2017-10-26

**54: PLANT STIMULATING CONCENTRATE**

00: -  
 The invention pertains to a method of producing a plant stimulating concentrate, and a plant stimulating concentrate. The method of producing the plant stimulating concentrate includes the basic steps of providing a seaweed substance and adding glycerine to the seaweed substance to produce a seaweed slurry. The plant stimulating concentrate thus includes seaweed and glycerine.



21: 2019/00634. 22: 1/30/2019. 43: 3/1/2021  
 51: F21V  
 71: BEKA SCHRÉDER (PROPRIETARY) LIMITED  
 72: RUSSEL, Irwin, KASPER, Daniel, SCOTT, Marius  
 33: ZA 31: 2018/00622 32: 2018-01-30  
**54: LUMINAIRE HOUSING**

00: -  
 A luminaire housing is provided, comprising a base component comprising a base wall and a body fitted to the base wall. The body comprises a first, inner peripheral wall that defines a first cavity at a distance of the base wall, the first cavity corresponding to a control gear housing for accommodating luminaire control gear; and a second outer wall arranged such that the second outer wall and the base wall surround the first, inner peripheral wall. The luminaire housing further comprises a lighting sub-assembly secured to the body at a location outside of the first cavity and so as to cover and enclose the first cavity, the lighting sub-assembly comprising an intermediate support carrying lighting elements and a cover. The base wall includes at least one mounting formation outside the first cavity and the lighting sub-assembly, to enable the luminaire housing to be fitted to a supporting structure.

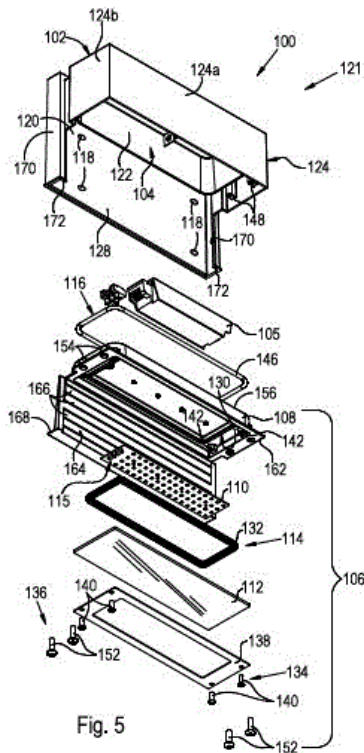


Fig. 5

21: 2019/00741. 22: 2/5/2019. 43: 3/19/2021  
 51: H04W  
 71: Huawei Technologies Co., Ltd.  
 72: LI, Bingzhao, QUAN, Wei, ZHANG, Jian, YANG, Xiaodong  
**54: COMMUNICATION METHOD, TERMINAL DEVICE, AND ACCESS-NETWORK DEVICE**

00: -  
 The embodiments of the present application provide a communication method, terminal device, and access-network device, said method comprising: a terminal device in a first state determining that a paging area of said terminal device has changed; the terminal device sending a first message to a first access-network device, said first message being used for notifying the first access-network device that the paging area of the terminal device has changed; the terminal device receiving a second message send by the first access-network device according to the first message; according to the second message, the terminal device determining a state in which the terminal device must be; when the terminal device determines the required second state, the terminal device entering the second state according to the stored connection context information. The embodiments of the present application reduce signaling overhead.

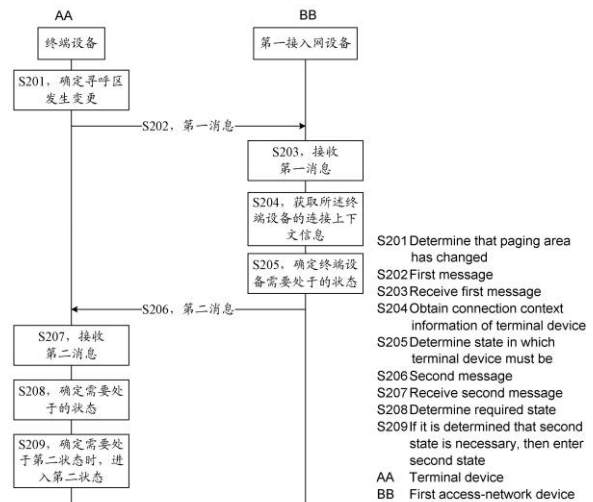


图 2

21: 2019/00761. 22: 2/6/2019. 43: 2/26/2021  
 51: E04B; E04H  
 71: GEORGIEV, George Mihaylov  
 72: GEORGIEV, George Mihaylov  
 33: ZA 31: 2018/01451 32: 2018-03-02  
**54: A BUILDING STRUCTURE**

00: -  
 A building structure 10 for use as a training station for sensitising humans to the possibility of deep space travel and facilitate training of humans for space exploration and missions. The building structure 10 comprises a hollow vertical cylindrical central tower 12, a vertical outer hexagonal tubular structure 14 surrounding the tower, a vertical inner hexagonal tubular structure 16 disposed between the tower and the outer tubular structure and a faraday shield structure 18 surrounding the outer tubular structure. The building structure includes an upper spiral formation 28 and a lower spiral formation 30 at upper and lower ends of the central tower, respectively, for intersecting incident visible light so as to generate an optical vortex within the central tower. In side elevation the building structure comprises a metal framework and glass wall panel base structure 40 and superstructure 42.

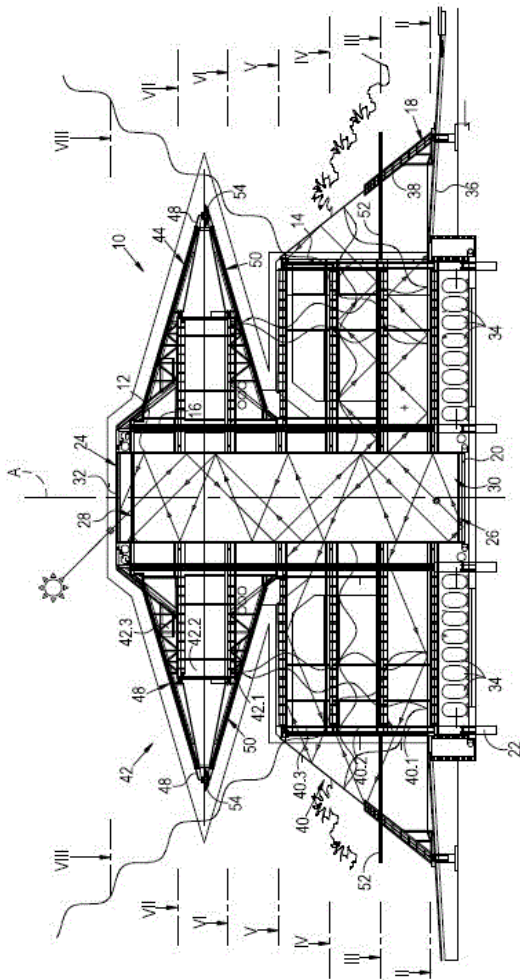
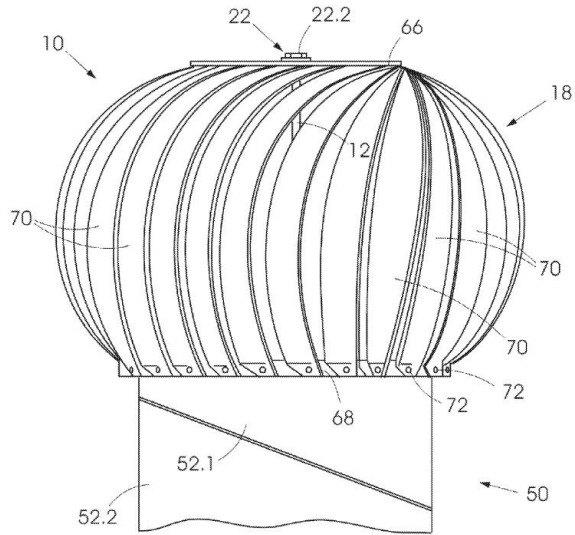


Fig. 1

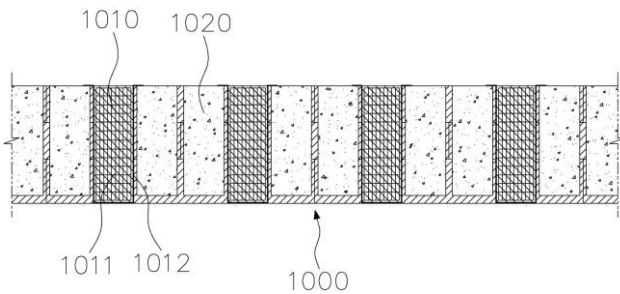
21: 2019/00826. 22: 08/02/2019. 43: 3/19/2021  
 51: F04D; F24D  
 71: VAN BILJOEN, Jeffrey  
 72: VAN BILJOEN, Jeffrey  
 33: ZA 31: 2016/05683 32: 2016-08-17  
**54: A VENTILATOR**

00: -  
 This invention relates to a ventilator (10), particularly this invention relates to a smoke ventilator. The ventilator (10) comprises a shaft (12) having a bearing means (14) supporting the shaft (12) at a first end region thereof, wherein the shaft (12) is rotatable relative to the bearing means (14). A ventilator element (18) is further provided and mounted to the shaft (12). A heat diffusion plate (24) is further provided being spaced apart from the bearing means (14) but connected thereto. The heat diffusion plate (24) extends outwardly away from, and substantially orthogonal to, a longitudinal axis of the ventilator (10) so as to shield the bearing means (14) when in use from heated air and/or smoke passing upwardly past the heat diffusion plate (24), the bearing means (14), through the ventilator element (18) and to an outside environment.



21: 2019/00942. 22: 13/02/2019. 43: 4/14/2021  
 51: E02B; E02D  
 71: YUJOO CO., LTD.  
 72: YUJOO CO., LTD.  
 33: KR 31: 10-2016-0107522 32: 2016-08-24  
**54: CAISSON BLOCK CONSTRUCTION METHOD AND CAISSON BLOCK STRUCTURE**  
 00: -

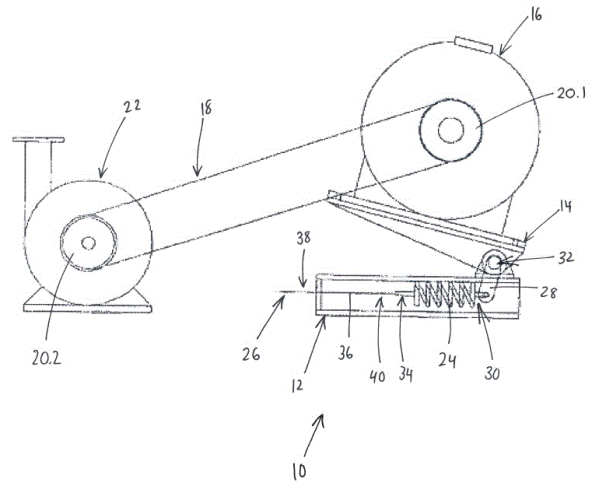
The present invention provides a caisson block construction method and a caisson block structure constructed thereby, the caisson block construction method being a novel type of method whereby a plurality of caisson blocks are arranged so as to be mutually offset, and the plurality of caisson blocks are filled with riprap and coupled by means of a vertical coupling concrete column part, thereby enabling a very sturdy structure to be formed.



21: 2019/00974. 22: 2/15/2019. 43: 5/5/2021  
 51: F16M  
 71: PICK, Vickus  
 72: PICK, Vickus  
 33: ZA 31: 2018/00252 32: 2018-01-15  
**54: A TENSIONING ASSEMBLY**  
 00: -

The tensioning assembly (10) includes a base (12), a support member (14) displaceably mounted on the base (12) for supporting a drive means in the form of a motor (16) clear of the base (12), the support member (14) being displaceable between an inoperative slack position wherein an elongate connecting member (18) extending between rotatable components in the form of pulleys (20.1) and (20.2) of the motor (16) and a driven means in the form of a driven machine (22), respectively, is slack and an operative tensioned condition wherein the motor (16) is displaced away from the driven machine (22) thereby tensioning the elongate connecting member (18), a spring (24) extending between and interconnecting the base (12) and the support member (14) for biasing the support member (14) toward the operative tensioned condition in use and a displacement mechanism (26) for displacing the spring (24) between an inoperative condition and an operative biasing condition, which conditions correspond with the inoperative slack and

operative tensioned conditions of the support member (14), respectively.



21: 2019/01056. 22: 19/02/2019. 43: 5/10/2021  
 51: C05F  
 71: VERATIN PTY LTD  
 72: VERATIN PTY LTD  
 33: AU 31: 2016903498 32: 2016-09-01  
**54: ORGANIC FERTILISER AND SOIL IMPROVER COMPRISING KERATIN**  
 00: -

The present invention relates to a fertiliser and/or soil improver, for use in enhancing the growth of plants, comprising keratin, preferably obtained from wool. Also described is a method of enhancing the growth of plants using a fertiliser and/or soil improver comprising keratin.

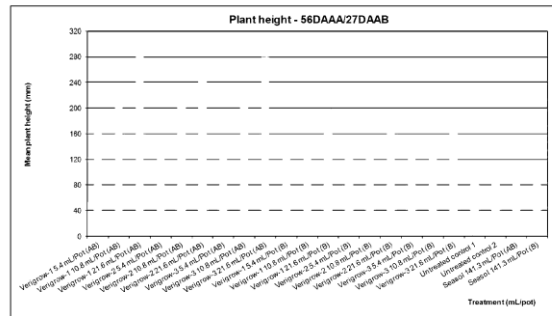
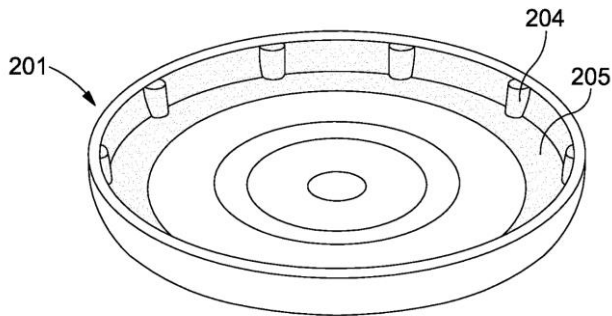


Figure 1: Plant height at 56DAAA/27DAAB

21: 2019/01075. 22: 19/02/2019. 43: 4/6/2021  
 51: B65D  
 71: CROWN PACKAGING TECHNOLOGY, INC.  
 72: RAMSEY, CHRISTOPHER PAUL, HORTON, PHILIP NORMAN

33: GB 31: 1612852.2 32: 2016-07-25  
**54: CONTAINER CLOSURE WITH RIBS FORMED IN SEALING COMPOUND**

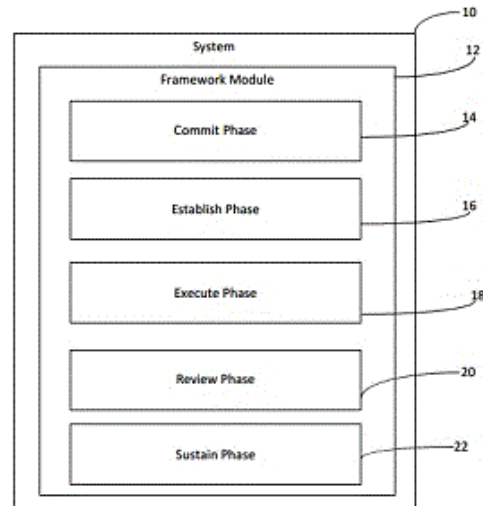
00: -  
 A closure for a container comprises an end panel, a sidewall depending from the end panel and having an inwardly directed curl, and a sealing compound (205) extending down the inner surface of the sidewall. A plurality of ribs (204) are formed in the sealing compound, spaced apart around the circumference of the sidewall, each rib extending down the sidewall and projecting radially inwardly.



21: 2019/01081. 22: 2/20/2019. 43: 3/5/2021  
 51: G06Q  
 71: TSHWANE UNIVERSITY OF TECHNOLOGY  
 72: MNCWABE, NOMPUMELELO, MPOFU, KHUMBULANI, KANAKANA, MUKONDELELI GRACE  
 33: ZA 31: 2018/01149 32: 2018-02-20  
**54: ENERGY MANAGEMENT SYSTEM AND METHOD**

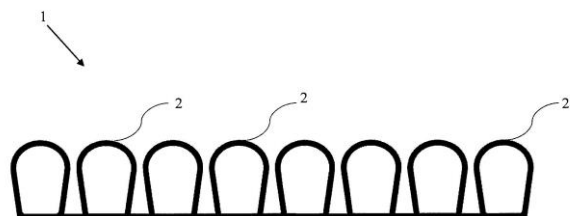
00: -  
 The invention relates to an energy management system 10 which includes a framework module 1 which is configured to provide at least four phases for an energy efficiency project/program. The module 12 is also configured to display details of the phases on a display screen of a user terminal/computing device. The phases include an identification/establish/planning phase 16, an execute/execution phase 18, a review/check phase 20 and a sustain phase 22. In the identification/establish/planning phase 16 the user is prompted, via a user interface provided by the framework module 12, to identify certain energy management/compliancy standard(s) that need to be met. In the execute/execution phase 18 the user is prompted, via the user interface, to develop/implement a change management plan in

order to meet the identified energy management/compliancy standard(s). In the review/check phase 20 the user is prompted, via the user interface, to review the change management plan after/once it has been developed/implemented. In the sustain phase 22 the user is prompted, via the user interface, to review the change management plan, after it has been implemented, on a continual/regular basis.



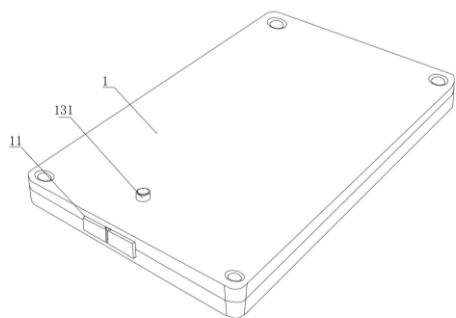
21: 2019/01094. 22: 2/20/2019. 43: 2/26/2021  
 51: D02G; D04D  
 71: Yunteks Tekstil Sanayi VE Ticaret Limited Şirketi  
 72: ŞENÇOPUR, Mehmet Abdullah  
 33: TR 31: 2017/04579 32: 2017-03-27  
**54: A THREAD WITH RINGS AND KNITTING METHOD USING THE THREAD WITH RINGS**

00: -  
 The invention is related to a thread (1) with rings (2) that can be used to obtain large surfaced knitted items without using knitting apparatus such as crochet hooks, knitting needs etc., and a method (100) with which knitted items are obtained using said thread (1) with rings (2).



21: 2019/01218. 22: 1/9/2019. 43: 5/11/2021  
 51: G06F; G11C  
 71: MAANSHAN CHUANGJIU TECHNOLOGY CO., LTD  
 72: ZHANG, JUN  
 33: CN 31: 201811521384.6 32: 2018-12-12  
**54: SOLID STATE DISK WITH LOCKING FUNCTION**

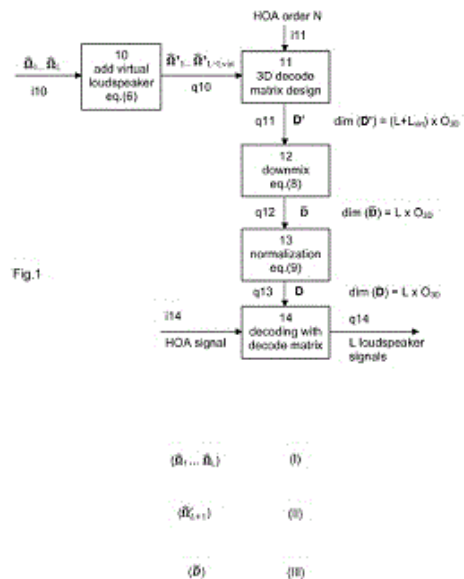
00: -  
 The invention disclosed a solid state disk with locking function, comprising a hard disk shell and a storage element installed in the hard disk shell; the side wall of the hard disk shell is provided with an interface slot for the plug to be inserted into, and the inside of the hard disk shell is respectively installed with a vertical separator, a bottom shell, and a vertical rod; a sliding main rod is provided through the bottom shell, and the main rod is fixed with an opening at one end and a sealed sleeve at the other end; the main rod is positioned at the bottom of the inside of the bottom shell and is installed with a telescopic auxiliary rod. When it is in use, the jamming key of the plug is in alignment with the T-shape slot and is inserted into and aligned with it; the plug is inserted into the inside of the hard disk shell, and the sphere slides to the bend of the L-shape slot; at this time, since the spring A is always in a compressed state, the main rod is pushed up to drive the plug interface to move up. The plug interface and the plug are staggered to achieve the purpose of locking. When it is required to unlock, the main rod is pressed and the sphere reaches the bend of the L-shape slot, and the spring B rebounds, sending the plug interface and the plug out, then the jamming key is slid out of the T-shape slot.



21: 2019/01243. 22: 27/02/2019. 43: 3/19/2021  
 51: H04S

71: DOLBY INTERNATIONAL AB  
 72: KEILER, FLORIAN, BOEHM, JOHANNES  
 33: EP 31: 13290255.2 32: 2013-10-23  
**54: METHOD FOR AND APPARATUS FOR DECODING AN AMBISONICS AUDIO SOUNDFIELD REPRESENTATION FOR AUDIO PLAYBACK USING 2D SETUPS**

00: -  
 Sound scenes in 3D can be synthesized or captured as a natural sound field. For decoding, a decode matrix is required that is specific for a given loudspeaker setup and is generated using the known loudspeaker positions. However, some source directions are attenuated for 2D loudspeaker setups like e.g. 5.1 surround. An improved method for decoding an encoded audio signal in soundfield format for L loudspeakers at known positions comprises steps of adding (10) a position of at least one virtual loudspeaker to the positions of the L loudspeakers, generating (11) a 3D decode matrix (D'), wherein the positions (Formula I) of the L loudspeakers and the at least one virtual position (Formula II) are used, downmixing (12) the 3D decode matrix (D'), and decoding (14) the encoded audio signal (i14) using the downscaled 3D decode matrix (Formula III). As a result, a plurality of decoded loudspeaker signals (q14) is obtained.



21: 2019/01244. 22: 2/27/2019. 43: 3/5/2021  
 51: G02C  
 71: UNIVERSITY OF JOHANNESBURG



72: NAUDÉ, MARGARET CHARLOTTE,  
 CAMPBELL, ANGUS DONALD  
 33: ZA 31: 2017/08136 32: 2017-11-30

**54: SPECTACLES AND HINGE ARRANGEMENT  
 FOR USE IN THE MANUFACTURING THEREOF**  
 00: -

THIS invention relates to spectacles, and more particularly but not exclusively to a hinge arrangement suitable for use in manufacturing spectacles. The spectacles include a frame, suitable for receiving lenses, two temple arms extending from opposing ends of the frame, and two hinge mechanisms for hingedly securing the temple arms to ends of the frame. The spectacles are characterised in that each hinge mechanism includes a first end that is rigidly securable to one of the frame or the temple arm, and a second end that is hingedly securable to the other of the frame or the temple arm, and furthermore in that the first end of the hinge mechanism at least partially surrounds the part of the frame or temple arm to which it is secured.

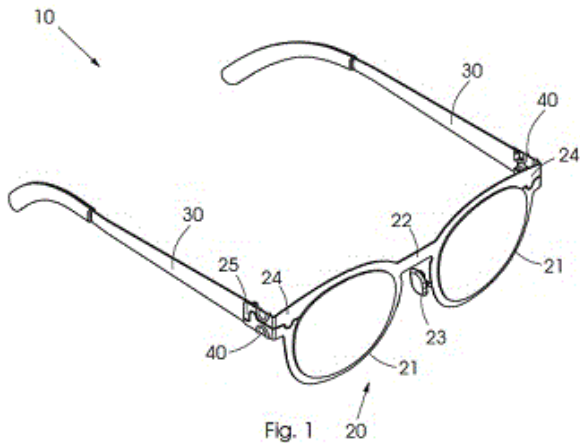
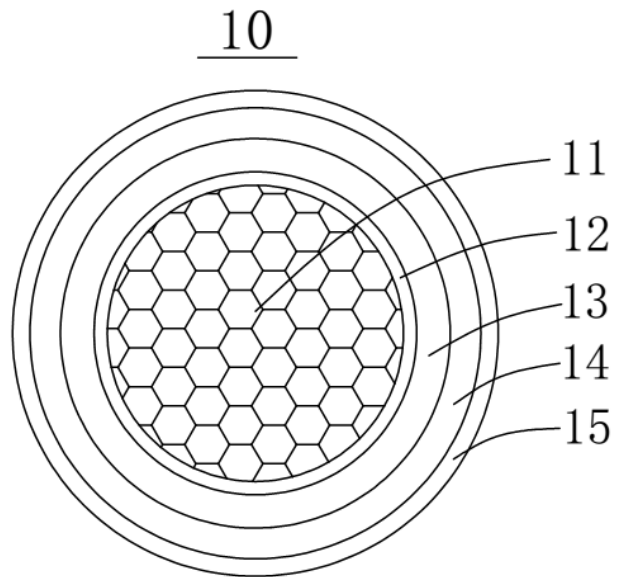


Fig. 1 20

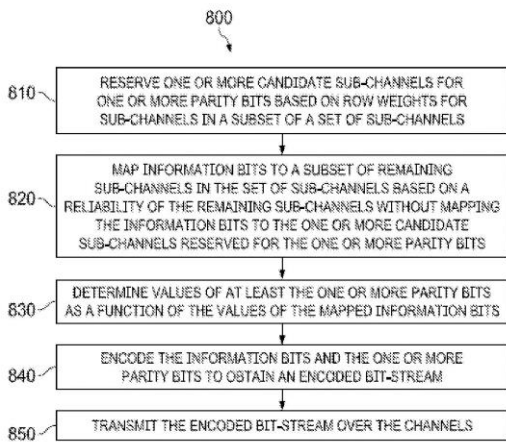
21: 2019/01347. 22: 04/03/2019. 43: 4/23/2021  
 51: H01B  
 71: JIANGSU HENGTONG POWER CABLE CO., LTD.  
 72: LI, Yongzhi, WANG, Lu, CHEN, Xiaoqi, KANG, Hui  
 33: CN 31: 2018216791162 32: 2018-10-16  
**54: DOUBLE INSULATED PHOTOVOLTAIC WIRE AND PHOTOVOLTAIC SYSTEM**  
 00: -  
 The present disclosure relates to a double insulated photovoltaic wire and a photovoltaic system, belonging to the technical field of photovoltaic wires.

The insulated photovoltaic wire provided in the present disclosure includes a wire core, a taped covering, an inner insulation layer, an outer insulation layer, and a nylon layer that are wrapped sequentially from inside to outside, the taped covering has a thickness of less than or equal to 0.14 mm, the taped covering has a wrap overlap rate of 10-20%, and the nylon layer has a thickness of 0.2-0.6 mm. Compared with existing photovoltaic wires of the same category, the double insulated photovoltaic wire provided in the present disclosure has fine performances such as small wall thickness, protection against rats and insects, and flame retardancy, and it can be safely and reliably applied to a photovoltaic system so as to improve the service life of the whole photovoltaic system.

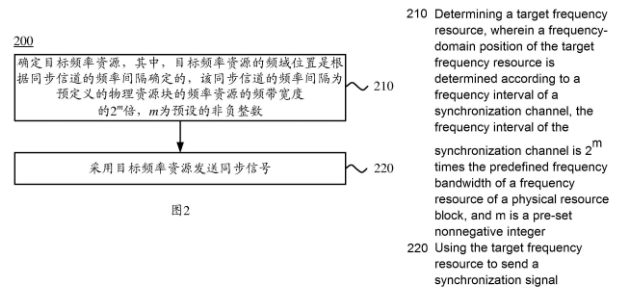


21: 2019/01831. 22: 3/25/2019. 43: 2/26/2021  
 51: H03M  
 71: Huawei Technologies Co., Ltd.  
 72: ZHANG, Huazi, TONG, Jiajie, LI, Rong, WANG, Jun, TONG, Wen, GE, Yiqun, LIU, Xiaocheng, ZHANG, Gongzheng, WANG, Jian, CHENG, Nan, ZHANG, Qifan  
 33: US 31: 62/395,312 32: 2016-09-15  
**54: METHOD AND APPARATUS FOR ENCODING DATA USING A POLAR CODE**  
 00: -  
 Embodiment techniques map parity bits to sub-channels based on their row weights. The row weight for a sub-channel may be viewed as the number of "ones" in the corresponding row of the

Kronecker matrix or as a power of 2 with the exponent (i.e. the hamming weight) being the number of "ones" in the binary representation of the sub-channel index (further described below). In one embodiment, candidate sub-channels that have certain row weight values are reserved for parity bit (s). Thereafter, K information bits may be mapped to the K most reliable remaining sub-channels, and a number of frozen bits (e.g. N-K) may be mapped to the least reliable remaining sub-channels. Parity bits may then mapped to the candidate sub-channels, and parity bit values are determined based on a function of the information bits.

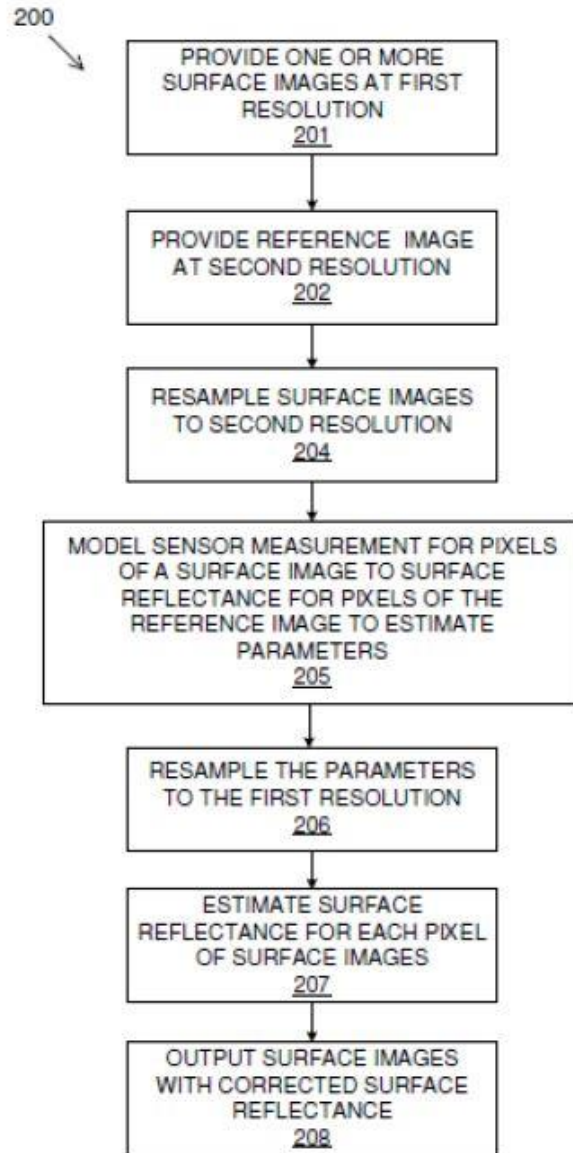
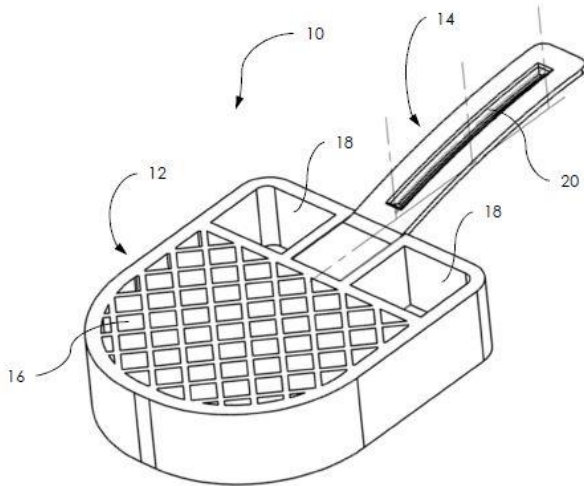


Provided are a synchronization signal sending method, a receiving method and an apparatus. The sending method comprises: determining a target frequency resource, wherein a frequency-domain position of the target frequency resource is determined according to a frequency interval of a synchronization channel, the frequency interval of the synchronization channel is  $2^m$  times the predefined frequency bandwidth of a frequency resource of a physical resource block, and m is a pre-set nonnegative integer; and using the target frequency resource to send a synchronization signal. In the embodiments of the present application, a frequency-domain position of a frequency resource occupied by a synchronization signal is determined according to the frequency interval of a synchronization channel, and the frequency interval of the synchronization channel is  $2^m$  times the predefined frequency bandwidth of a frequency resource of a physical resource block, thereby facilitating increasing the quantity of candidate frequency resources of the synchronization signal, so that the number of frequency-domain mapping positions that can be selected by the synchronization signal can be increased.



21: 2019/01980. 22: 3/29/2019. 43: 3/19/2021  
 51: H04W  
 71: Huawei Technologies Co., Ltd.  
 72: SUN, Hao, CHEN, Zheng, CHENG, Yan, XUE, Lixia  
 33: CN 31: 201610884855.4 32: 2016-10-10  
**54: SYNCHRONIZATION SIGNAL SENDING METHOD AND RECEIVING METHOD, AND APPARATUS**  
 00: -

21: 2019/02110. 22: 4/4/2019. 43: 5/13/2021  
 51: A43B  
 71: NDSS Trading (Pty) Ltd  
 72: NAICKER, Assogen Narain  
**54: INTEGRAL HEEL AND SHANK MOULDING FOR FOOTWEAR**  
 00: -  
 This invention relates to footwear with rubber or plastic soles moulded directly to the shoe upper. The invention provides a heel plug 12 and an arch shank 14 integrally moulded into a single moulding 10. The integral heel and shank moulding is of injection moulded plastics and is intended to be moulded into the rubber or plastics moulded sole. The arch shank 14 is constituted by a thin, flexible shank that is integrally moulded with the heel plug 12. The arch shank 14 is shaped to extend at least partially across the sole arch once moulded into the shoe sole.



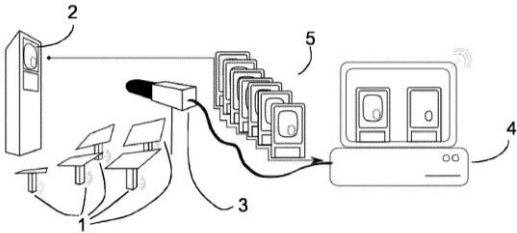
21: 2019/02176. 22: 08/04/2019. 43: 4/6/2021  
 51: G06K; G06T  
 71: STELLENBOSCH UNIVERSITY  
 72: VAN NIEKERK, Adriaan, HARRIS, Dugal Jeremy  
 33: ZA 31: 2016/06581 32: 2016-09-23  
**54: GENERATING RADIOMETRICALLY CORRECTED SURFACE IMAGES**

00: -  
 A system and method for generating radiometrically corrected surface images is provided. This includes providing one or more surface images of a first resolution of a surface area in the form of digital images which has a surface image sensor measurement of an intensity value of radiation in a given wavelength band reflected from the surface for each pixel of the images. A reference image of a second resolution of a corresponding surface area is provided to the surface of the surface image. The reference image has a surface reflectance for each pixel of the reference image for an equivalent wavelength band to the given wavelength band of the surface image. A functional relationship is modelled which relates the surface image sensor measurement for pixels of a surface image to the surface reflectance for pixels of the reference image to provide an estimated surface reflectance for each pixel of the surface images.

21: 2019/02224. 22: 4/9/2019. 43: 3/15/2021  
 51: F24S  
 71: Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.  
 72: BERN, Gregor, SCHOETTL, Peter, VAN ROOYEN, De Wet, NITZ, Peter, HEIMSATH, Anna  
 33: DE 31: 10 2016 119 000.4 32: 2016-10-06  
**54: CALIBRATION METHOD AND CALIBRATION DEVICE FOR A GROUP OF REFLECTORS FOR CONCENTRATING SOLAR RADIATION ONTO A RADIATION RECEIVER**

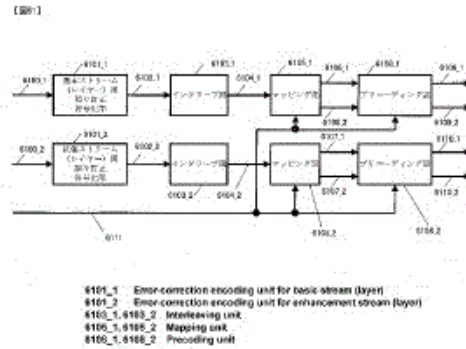
00: -  
 The invention relates to a calibration method for a group of reflectors for concentrating solar radiation onto a radiation receiver, having the following steps:  
 A) aligning the reflectors in order to at least partly

expose a calibration surface to solar radiation reflected by the reflectors; B) modifying the intensity distribution of the radiation incident on the calibration surface by carrying out a pattern of movements by means of each reflector of the group, wherein at least one specified parameter for the pattern of movements of each reflector differs from the parameters of the other reflectors, said parameter being selected from the group: - movement frequency, - movement amplitude, - movement phase position, and - path curve of the solar radiation reflected by the reflector within the calibration surface; C) recording rows of pixels for a plurality of differently located location points of the calibration surface by means of at least one camera, each row of pixel having at least five temporally offset pixel recordings; D) ascertaining a spectrum for each row of pixels by transforming the row of pixels into the frequency domain; E) assigning a subset of spectra to the reflectors on the basis of the movement pattern parameter of the reflector; and F) determining at least one reflection target position for each reflector at least on the basis of the subset of spectra assigned to the reflector. The invention additionally relates to a calibration device for a group of reflectors for concentrating solar radiation onto a radiation receiver.



21: 2019/02449. 22: 4/17/2019. 43: 3/19/2021  
 51: H04B; H04J  
 71: SUN PATENT TRUST  
 72: MURAKAMI, Yutaka, KIMURA, Tomohiro, OUCHI, Mikihiro  
 33: JP 31: 2010-234061 32: 2010-10-18  
**54: TRANSMISSION METHOD, TRANSMISSION DEVICE, RECEPTION METHOD, AND RECEPTION DEVICE**  
 00: -

A precoding method that generates a plurality of precoded signals from a plurality of baseband signals, said precoded signals being transmitted in the same frequency band at the same time. One matrix is selected from among  $N$  matrices ( $F[i]$ , with  $i = 0, 1, 2, \dots, N$ ) for the aforementioned plurality of baseband signals, and a first precoded signal ( $z1$ ) and second precoded signal ( $z2$ ) are generated. A first encoded block and second encoded block are generated using a prescribed error-correction-block encoding scheme. One  $M$ -symbol baseband signal is generated from the first encoded block and another from the second encoded block. Then, a precoding process is performed on the combination of the baseband signal generated from the first encoded block and the baseband signal generated from the second encoded block, thereby generating an  $M$ -slot precoded signal.



21: 2019/02483. 22: 4/17/2019. 43: 3/19/2021  
 51: H04L  
 71: Alibaba Group Holding Limited  
 72: QIU, Honglin

**54: A DOMAIN NAME MANAGEMENT SCHEME FOR CROSS-CHAIN INTERACTIONS IN BLOCKCHAIN SYSTEMS**

00: -  
 Implementations of the present disclosure include obtaining, by a computing system, a unified blockchain domain name (a UBCDN) message of a blockchain instance, wherein the UBCDN message includes a UBCDN of the blockchain instance, a digital signature of an owner of the UBCDN of the blockchain instance (a UBCDN owner) on the UBCDN, and a domain certificate of the UBCDN; verifying whether the domain certificate of the UBCDN is issued by a trusted certificate authority (CA) using a public key of the CA; and verifying whether the UBCDN is issued by the UBCDN owner using a public key of the UBCDN owner. The UBCDN message includes a blockchain domain name and a chain identifier of the blockchain instance uniquely corresponding to the blockchain domain name.

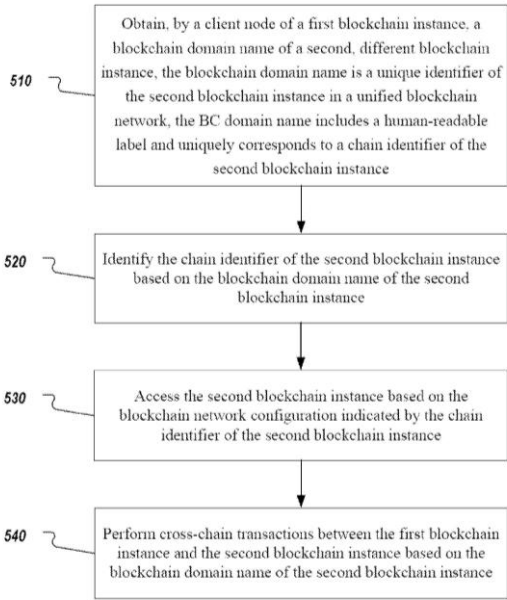


FIG. 5

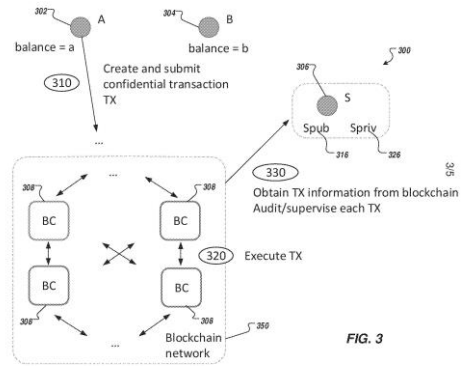


FIG. 3

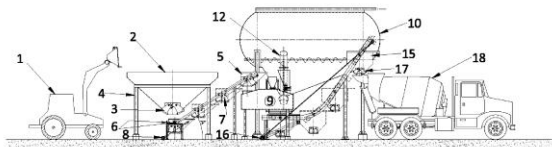
21: 2019/02560. 22: 4/23/2019. 43: 3/19/2021  
 51: G06Q  
 71: Alibaba Group Holding Limited  
 72: LIU, Zheng, LI, Lichun, WANG, Huazhong  
**54: REGULATING BLOCKCHAIN CONFIDENTIAL TRANSACTIONS**

00: -  
 Implementations of the present disclosure include obtaining, by a client node of a blockchain network, a public key of a regulator node; generating, by the client node, one or more commitment values of a confidential transaction of the client node by applying a cryptographic commitment scheme to transaction data of the confidential transaction; generating, by the client node, encrypted regulatory information of the confidential transaction by encrypting the transaction data using the public key of the regulator node; and transmitting, by the client node to a consensus node of the blockchain network, a content of the confidential transaction for execution, wherein the content of the confidential transaction includes: the one or more commitment values; the encrypted regulatory information; and one or more zero-knowledge proofs of the transaction data.

21: 2019/02782. 22: 03/05/2019. 43: 4/23/2021  
 51: B28C

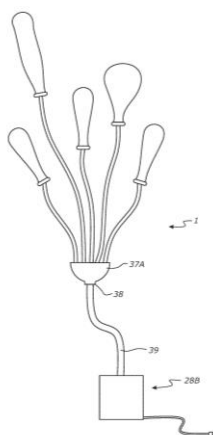
71: BHAT, Adde Jagadish  
 72: BHAT, Adde Jagadish  
 33: IN 31: 201641034550 32: 2016-10-07  
**54: A CONCRETE BATCHING PLANT HAVING REDUCED CYCLE TIME AND REDUCED INSTALLATION AND DISMANTLING TIME**  
 00: -

A method of operating a concrete batching plant comprises: - loading aggregates comprising sand and stones into aggregate storage bin (2), divided into different compartments, from the ground level by wheel loader (1); - discharging the material from storage bins (2) by gravity through batching gates (3) fitted at their bottom into a weighing hopper (5); - lifting the aggregates after being weighed in the weighing hopper (5) from 2 mtrs to 3 mtr - 3.5 mtr. above the ground level hydraulically (8); - simultaneously conveying cement through screw conveyor (12) into a Cement weigher (11) and discharging the same into mixer (9); - mixing and compacting of the aggregates, which are cement, water and chemicals, for a pre-determined time; - discharging the mixed and compacted concrete into a concrete carrying hopper (15); - transporting the concrete carrying hopper (15) with the concrete to desired height either lifted hydraulically on rail (16), rack and pinion or rope arrangement; and - loading the concrete into mobile transit mixer (18) or concrete pump, based on the site requirement.



21: 2019/02929. 22: 10/05/2019. 43: 3/19/2021  
 51: A63H  
 71: ZURU (SINGAPORE) PTE. LTD.  
 72: MOWBRAY, Mathew Peter  
 33: NZ 31: 718690 32: 2016-04-04  
 33: NZ 31: 727945 32: 2016-12-23  
**54: GAS INFLATABLE BALLOONS**

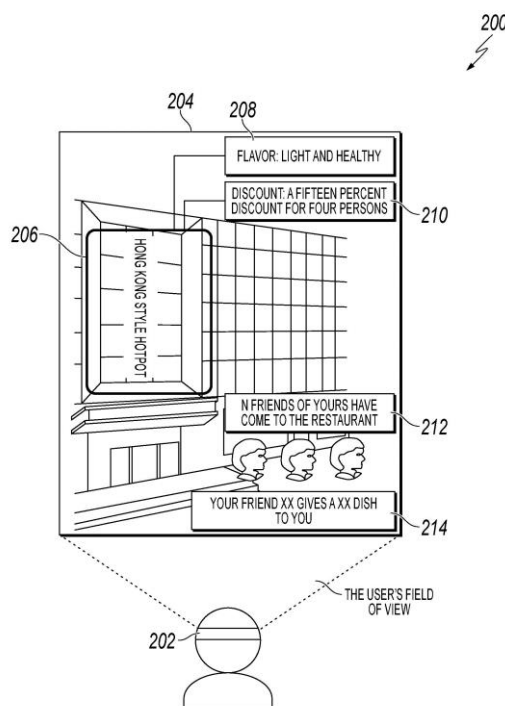
00: -  
 A tethered balloon assembly the balloon, to be inflated via the tether which is to be subsequently closed by a one way valve to keep the balloon inflated and allow additional inflation as desired, controllable by its tether.



21: 2019/02938. 22: 5/10/2019. 43: 3/15/2021  
 51: G06T  
 71: Alibaba Group Holding Limited  
 72: YIN, Huanmi, ZENG, Xiaodong, LIN, Feng, WU, Jun  
 33: CN 31: 201610896495.X 32: 2016-10-13  
**54: OFFLINE-SERVICE MULTI-USER INTERACTION BASED ON AUGMENTED REALITY**

00: -  
 A method for offline-service multi-user interaction based on augmented reality (AR) includes scanning, by an AR client terminal of a user, an offline service label at an offline service site. Information of the offline service label is transmitted to a server terminal. Based on the information of the offline service label, the server terminal establishes a

service group including the user and a second user that scanned the offline service label. In response to transmitting the information of the offline service label, service data is received from the server terminal. The service data includes information related to the user and information related to the second user. Based on the service data, a service interactive interface is outputted. The service interactive interface displays the information related to the user and the information related to the second user at a position corresponding to the offline service label in an AR scene.



21: 2019/02996. 22: 5/14/2019. 43: 3/19/2021  
 51: A01N A01P A61K A61L C02F  
 71: REMMAL, Adnane  
 72: REMMAL, Adnane, OUKHOUIA, Mounia, SENNOUNI, Chaimae, Imane, MOUSSA, Hakima, MARZOUQ, Meryem  
 33: FR 31: 16/70691 32: 2016-11-18  
**54: STABLE SOLID COMPOSITION BASED ON AN AROMATIC COMPOUND AND USES THEREOF**

00: -  
 The invention relates to a water-dispersible and stable solid composition characterised in that it comprises: at least one aromatic alcohol, at least one emulsifying agent and/or an oil; at least one

texturing agent; and at least one effervescent acid-base pair. The invention also relates to the uses of said composition, particular as a phytosanitary product.

21: 2019/03117. 22: 5/17/2019. 43: 2/26/2021  
51: A01N

71: Incotec Holding B.V.

72: REECE, Tyler Alan, LATHAM, Ryan Thomas, DENNY, Gerard Henry

33: US 31: 62/425,870 32: 2016-11-23

#### 54: SEED COATING COMPOSITION

00: -

The invention is directed to a seed coating composition containing a polymeric binder, a filler and a fibrous material. The seed coating composition can be formed by combining an aqueous composition pre-blend which contains a polymeric binder with a powder pre-blend which contains a filler and a fibrous material. The polymeric binder preferably contains polyvinylpyrrolidone, the filler preferably contains talc and the fibrous material preferably contains cellulose fibers.

21: 2019/03265. 22: 5/23/2019. 43: 3/19/2021  
51: B65G

71: CRRC Yangtze Co., Ltd.

72: SU, Lijie, HUANG, Heng, PENG, Quanhai, HU, Yueming, SUN, Xianjun, CAI, Fan, ZHANG, Nan, XU, Li, LIU, Zhiqiang, FENG, Zhi, LI, Qiaoneng

33: CN 31: 201610935898.0 32: 2016-10-24

#### 54: SKY RAIL-BASED MULTIMODAL TRANSPORTATION INTERWORKING SYSTEM

00: -

An aerial railway-based multimodal transport interconnecting system, the system at least comprising: overpass columns, a railway system (30), a freight transport multiple-unit train (40), a transfer apparatus (32), and a processor. The transfer apparatus is used for transferring a goods loading device (33) from a transportation tool to a position under the freight transport multiple-unit train and loading same to the freight transport multiple-unit train (40), or unloading the goods loading device from the freight transport multiple-unit train and transferring same to the transportation tool. The processor is connected to the freight transport multiple-unit train (40) and the transfer apparatus (32); the railway system connects harbors with railway or aviation logistics centers; the processor

controls the transfer apparatus to transfer the goods loading device, and controls the freight transport multiple-unit train to move on railway beams after the goods loading device is snap-fitted to the freight transport multiple-unit train, thereby implementing the multimodal transport between harbors and railway or aviation logistics centers.

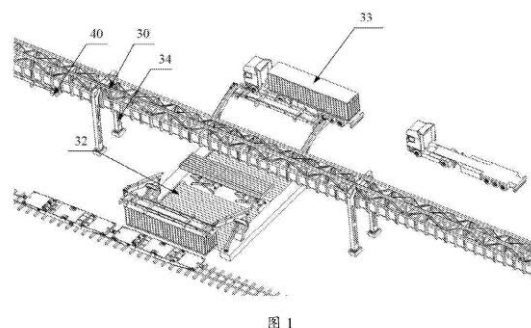


图 1

21: 2019/03419. 22: 5/29/2019. 43: 2/26/2021  
51: B41M; C09D

71: SICPA HOLDING SA

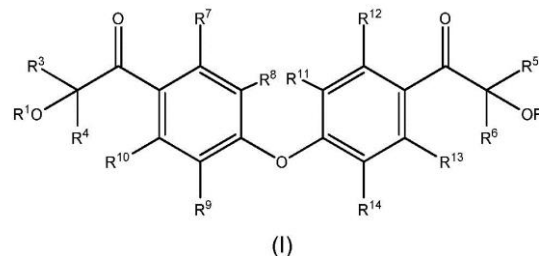
72: HOGGETT, John, CHABRIER, Stéphane

33: EP(CH) 31: 16203168.6 32: 2016-12-09

#### 54: LOW ENERGY CURING OFFSET AND LETTERPRESS PRINTING INKS AND PRINTING PROCESS

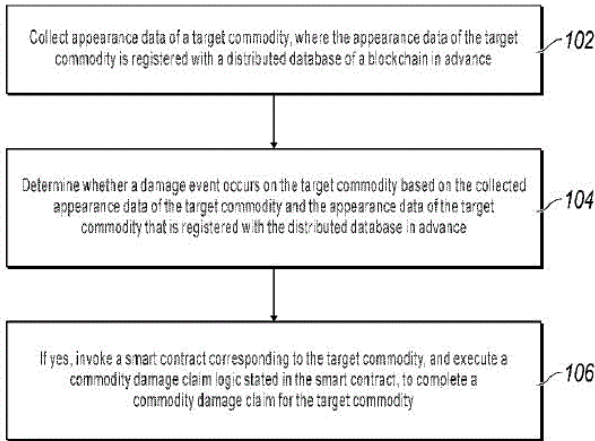
00: -

The present invention relates to the field of low energy radically curable inks for offset or letterpress printing of security documents. In particular, the invention relates to low energy radically curable offset or letterpress printing inks for offset or letterpress printing on a substrate or security document, said low energy radically curable inks having a viscosity in the range of about 2.5 to about 25 Pa s at 40°C and 1000 s<sup>-1</sup> and comprising radically curable (meth)acrylate compounds, one or more one or more photoinitiators of formula (I), one or more machine readable materials and one or more fillers and/or extenders.



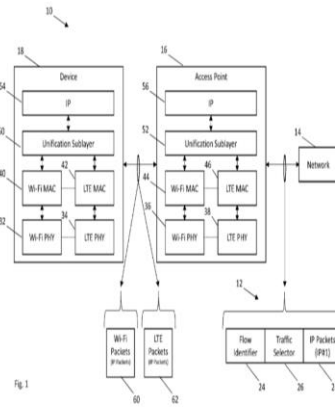
21: 2019/03714. 22: 6/10/2019. 43: 3/19/2021  
 51: G06Q  
 71: Alibaba Group Holding Limited  
 72: HU, Danqing  
 33: CN 31: 201810534737.X 32: 2018-05-29  
**54: BLOCKCHAIN-BASED COMMODITY CLAIM METHOD AND APPARATUS, AND ELECTRONIC DEVICE**  
 00: -

One or more implementations of the present specification provide a blockchain-based commodity claim method and apparatus, and an electronic device. The method can include: collecting appearance data of a target commodity, where the appearance data of the target commodity is registered with a distributed database of a blockchain in advance. Whether a damage event occurred on the target commodity is determined based on the appearance data of the target commodity and the appearance data of the target commodity that is registered with the distributed database in advance. If the determination is yes a smart contract corresponding to the target commodity is invoked. Commodity damage claim logic stated in the smart contract is executed to complete the commodity damage claim for the target commodity.



21: 2019/03782. 22: 6/12/2019. 43: 5/11/2021  
 51: H04B; H04L; H04W  
 71: Chengdu Kilopower Technology Corporation  
 72: DU, Jiang, SONG, Ting  
 33: CN 31: 201910405352.8 32: 2019-05-16  
**54: LONG TERM EVOLUTION (LTE) NETWORK DEVICE**  
 00: -

A LTE network device, comprising: a network layer, configured to facilitate generating an Internet protocol (IP) flow; a cellular physical layer (PHY) configured to exchange LTE packets with an access point; a non-cellular PHY configured to exchange LTE packets with the access point; a unification sublayer configured to act as a logical interface between the IP layer and the first and second PHYs, including facilitating partitioning of at least a first portion of a plurality of LTE packets carried in the IP flow through the first PHY as first packets and partitioning at least a second portion of the plurality of LTE packets through the second PHY as second packets; and a first data link layer between the unification sublayer and the first PHY, the first data link layer being configured to encapsulate the LTE packets for transport from the first PHY as the first packets.

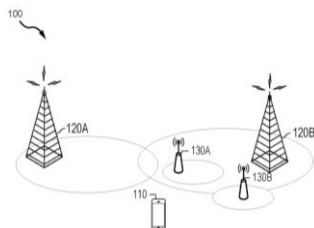


21: 2019/03788. 22: 6/12/2019. 43: 5/11/2021  
 51: H04B; H04L; H04W  
 71: Chengdu Kilopower Technology Corporation  
 72: DU, Jiang, SONG, Ting  
 33: CN 31: 201910405784.9 32: 2019-05-16  
**54: WIRELESS COMMUNICATION SYSTEM FOR WLAN AND LTE COMMUNICATIONS**  
 00: -

In one embodiment, a wireless communication system for wireless local area network (WLAN) and long term evolution (LTE) communications, the wireless communication system comprising: a wireless device comprising a first/WLAN modem, a second/LTE modem, and a first communication processor; and a base station comprising, and a second communication processor, wherein the first communication processor is configured to determine



time intervals during which the LTE modem is not listening to a medium, the wireless device is configured to provide measurement reports to the base station, the WLAN modem is configured to enable the wireless device to perform the WLAN communications using the time intervals, and the second communication processor is configured to determine a WLAN-friendly scheduling of downlink and uplink data over an unlicensed spectrum, in response to receiving of the measurement reports by the first modem.



21: 2019/03996. 22: 6/19/2019. 43: 3/19/2021  
 51: B23K  
 71: CRC-EVANS PIPELINE INTERNATIONAL, INC.  
 72: RAJAGOPALAN, SHANKAR, MALLICK, SIDDHARTH, KIRK, BRIAN L.  
 33: US 31: 15/632,061 32: 2017-06-23  
**54: SYSTEMS AND METHODS FOR USE IN WELDING PIPE SEGMENTS OF A PIPELINE**  
 00: -

A system for welding two pipes includes a first pipe clamp, a second pipe clamp, a weld torch, an inspection detector, a motor, one or more processors, and a grinder. The weld torch is configured to create a weld joint between the pipes at an interface region between the pipes. The inspection detector is configured to emit an inspection beam of radiation. The motor is operatively associated with the inspection detector to direct the inspection beam of radiation along the weld joint between the pipes. The one or more processors are operatively associated with the inspection detector to determine a profile of the weld joint between the pipes. The grinder is configured to grind at least a portion of the weld joint between the pipes based on the profile of the weld joint between the pipes.

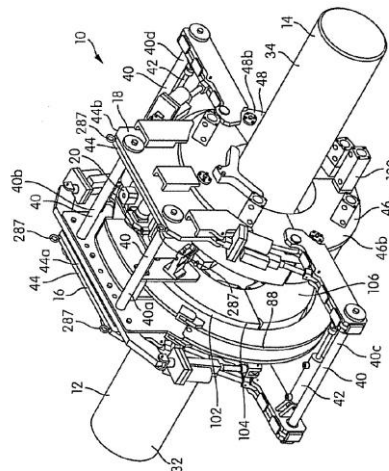
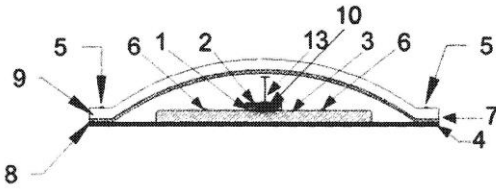


FIG. 1

21: 2019/04041. 22: 6/21/2019. 43: 3/19/2021  
 51: F21K; G02B; H01L  
 71: Optical Saver Technologies, S.A.P.I. de C.V.  
 72: CAPILLA BERMUDEZ, Enrique  
 33: MX 31: MX/a/2016/015395 32: 2016-11-24

**54: OPTICAL DEVICE AUGMENTING THE EMISSION OF ELECTRO-LUMINESCENT LIGHT SOURCES WITH HELP OF A DICHROIC ZNO NANOROD COMPRISING FILTER**

00: -  
 The invention relates to an optical device formed by an optical filter and a reflector, said reflector being a diffuse or specular metal surface having a reflectance of no less than 98% and having a shape and size matching the corresponding lamp. The optical filter is a rigid structure transparent to visible light, has a shape and size also matched to the corresponding lamp, and is made from organic or inorganic material, serving as a substrate on which a layer of zinc oxide is applied, specifically a nanostructure of zinc oxide wires, in order to form a layer that is simultaneously partially reflective and anti-reflective according to the wavelength of the light passing therethrough. Once suitably positioned on the luminescent layer of a white-light LED or fluorescent lamp, the optical device can retroreflect the majority of the high-energy, short-wavelength light to the luminescent layer, in order for it to be converted into light with a longer wavelength and less energy by said luminescent layer of the source, thereby increasing the total light emission by at least 20% without altering the colour rendering index (CRI) of the source.



21: 2019/04088. 22: 6/24/2019. 43: 3/19/2021  
51: G06F; H04L

71: Alibaba Group Holding Limited

72: LI, Jing, LI, Liang

33: CN 31: 201611070218.X 32: 2016-11-25

**54: METHOD AND APPARATUS FOR IDENTITY AUTHENTICATION IN CONNECTION WITH MOBILE PAYMENT TRANSACTIONS**

00: -

Provided are an identity verification method and apparatus, which are applied to a virtual reality device. The method can comprise: displaying a plurality of virtual reality items when an identity verification process for a user is initiated; determining selection operation information about the user for the virtual reality items; and determining that the user passes identity verification when the selection operation information matches pre-defined standard selection operation information. By means of the technical solution of the present application, identity verification in a virtual reality scene can be realized, and the verification process is efficient and convenient.

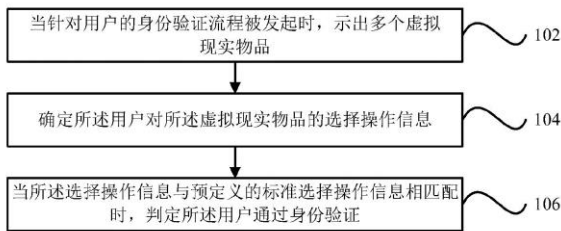


图 1

- 102 Displaying plurality of virtual reality items when identity verification process for user is initiated
- 104 Determining selection operation information about user for virtual reality items
- 106 Determining that user passes identity verification when selection operation information matches pre-defined standard selection operation information

33: CN 31: 201710294841.1 32: 2017-04-28

**54: SERVICE PROCESSING METHOD AND DEVICE**

00: -

The present application provides a method and apparatus for interaction processing, said method comprising: detecting the device type of an electronic device needing to display interaction data; obtaining an instruction processing rule corresponding to the detected device type; according to said instruction processing rule, obtaining a device interaction instruction initiated by said electronic device, and converting said device interaction instruction to a corresponding unified interaction instruction; calling an interaction processing means corresponding to the converted and obtained unified interaction instruction and processing said interaction data, and providing the processed interaction data to the electronic device for display. In the embodiments of the present application, it is possible to achieve the same interaction results on the basis of different terminal devices and support capabilities, and it is unnecessary to develop different interaction modules for different devices; therefore is it possible to significantly reduce development resources and costs and improve development efficiency.

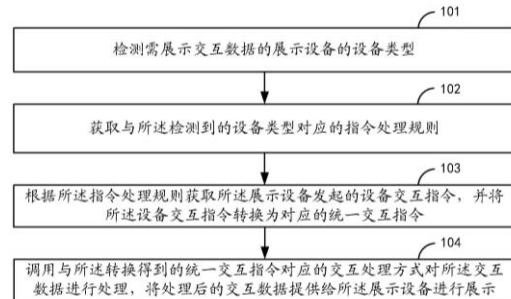


图 1B

- 101 Detecting device type of display device needing to display interaction data
- 102 Obtaining instruction processing rule corresponding to detected device type
- 103 According to said instruction processing rule, obtaining device interaction instruction initiated by said display device, and converting said device interaction instruction to corresponding unified interaction instruction
- 104 Calling interaction processing means corresponding to converted and obtained unified interaction instruction and processing said interaction data, and providing processed interaction data to display device for display

21: 2019/04089. 22: 6/24/2019. 43: 3/1/2021  
51: G06F

71: Alibaba Group Holding Limited

72: ZHOU, Yuguo

21: 2019/04091. 22: 6/24/2019. 43: 3/19/2021

51: G06F

71: Alibaba Group Holding Limited

72: SUN, Qingqing

33: CN 31: 201611055619.8 32: 2016-11-25

**54: NAME MATCHING METHOD AND APPARATUS**

00: -

A name matching method and apparatus. The method comprises: obtaining a name to be matched (S101); determining a standard name set for matching the name to be matched (S102); detecting the name to be matched, so as to determine whether the name to be matched is synonymous with at least one name in the standard name set and is not completely identical to characters therein (S103); and determining, according to a detection result, a matching result of the name to be matched (S104). By means of the method and apparatus, the matching precision can be improved, and the false alarm rate of a risk control system can be reduced.

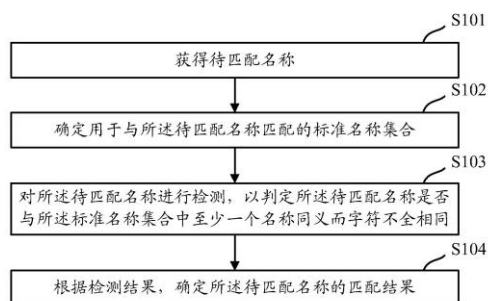


图 1

S101 OBTAINING A NAME TO BE MATCHED

S102 DETERMINING A STANDARD NAME SET FOR MATCHING THE NAME TO BE MATCHED

S103 DETECTING THE NAME TO BE MATCHED, SO AS TO DETERMINE WHETHER THE NAME TO BE MATCHED IS SYNONYMOUS WITH AT LEAST ONE NAME IN THE STANDARD NAME SET AND IS NOT COMPLETELY IDENTICAL TO CHARACTERS THEREIN

S104 DETERMINING, ACCORDING TO A DETECTION RESULT, A MATCHING RESULT OF THE NAME TO BE MATCHED

21: 2019/04124. 22: 6/25/2019. 43: 3/19/2021

51: A61K; A61P; C07J

71: GUANGZHOU OCUSUN OPHTHALMIC BIOTECHNOLOGY CO., LTD.

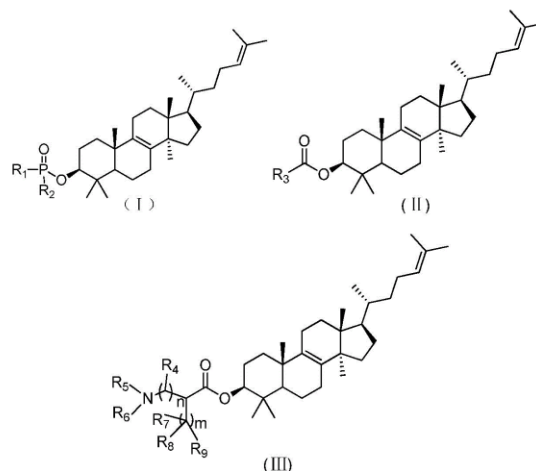
72: LIU, Yizhi, WANG, Yandong, LI, Xiaolin, LUO, Zhi, SHEN, Liang, HOU, Lijuan, WEN, Xinxin, HE, Haiying, LI, Jian, CHEN, Shuhui

33: CN 31: 201710061039.8 32: 2017-01-25

**54: LANOSTEROL PRODRUG COMPOUND AND PREPARATION METHOD THEREFOR AND USE THEREOF**

00: -

Disclosed are a lanosterol prodrug compound, a pharmaceutically acceptable salt and an isomer thereof, and a pharmaceutical composition comprising the lanosterol prodrug compound and the use thereof in the preparation of a drug for treating cataracts. The lanosterol prodrug compound has a better permeability than lanosterol.



21: 2019/04220. 22: 6/27/2019. 43: 3/19/2021

51: B21D; E04C

71: PROTEKTORWERK Florenz Maisch GmbH &amp; Co. KG

72: WILLERSCHIED, Heiner, WEINMANN, Andreas

33: DE 31: 10 2017 100 920.5 32: 2017-01-18

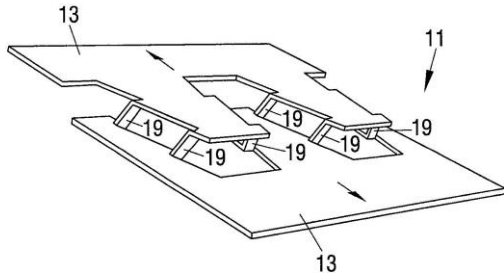
**54: METHOD AND DEVICE FOR EXPANDING A METAL ELEMENT**

00: -

The invention relates to a method for expanding an elongated metal element (11) which is flat in at least some regions and each of which has two opposing edge regions (13) extending in the longitudinal direction (L) and an interposed central region (17) provided with cuts (15). The edge regions (13) are moved apart transversely to the longitudinal direction (L) and parallel to the areal extension of the metal element (11) such that central region (17) connection sections (19) which are formed by the cuts (15) and which connect the edge regions (13) together are folded. The edge regions (13) are offset relative to each other in a first method step before being moved apart transversely to the areal extension of the metal element (11) and are moved

apart in the offset state in a subsequent second method step. The invention likewise relates to a device for expanding an elongated metal element (11) which is flat in at least some regions.

Fig.3



21: 2019/04224. 22: 6/27/2019. 43: 3/19/2021

51: G06F

71: Alibaba Group Holding Limited

72: TANG, Qiang

33: CN 31: 201710190786.1 32: 2017-03-28

**54: BLOCKCHAIN-BASED CONSENSUS METHOD AND DEVICE**

00: -

Disclosed in the embodiments of the present application are a block chain-based consensus method and device, where in one block chain node comprises a first server, a second server and at least one database. The method comprises: a database stores consensus data required for carrying out a consensus so as to enable a first server and a second server to invoke the data in a process of carrying out the consensus; when an abnormality occurs in the first server before carrying out the consensus or in the process of carrying out the consensus, the first server is replaced with the second server so as to acquire the consensus data from the database, carry out the consensus according to the consensus data and generate a consensus result; and the second server stores the consensus result in the database. According to the embodiments of the present application, a normal server in the node may take over for an abnormal server so as to acquire consensus data from a database and carry out a consensus, thereby guaranteeing normal carrying out of the consensus, which may increase the success rate of a consensus

process to a certain extent, as well as increase the service processing efficiency of a blockchain.

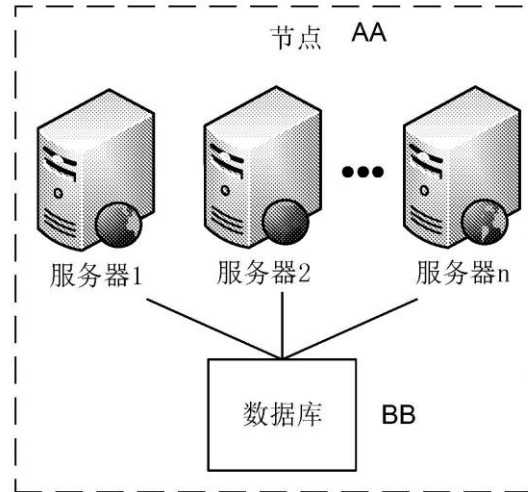


图 2b

- 1 Server 1
- 2 Server 2
- n Server n
- AA Node
- BB Database

21: 2019/04230. 22: 6/27/2019. 43: 3/19/2021

51: H04L

71: Alibaba Group Holding Limited

72: LI, Yi

33: CN 31: 201710191462.X 32: 2017-03-28

**54: SERVICE PROCESSING AND CONSENSUS METHOD AND DEVICE**

00: -

Disclosed in the embodiments of the present application are a service processing and consensus method and device; in the method, a first blockchain node contains a plurality of servers; by means of the contained plurality of servers, the first blockchain node may receive a service request sent from a client and store said service request, and, by means of a server among the plurality of servers, retrieve at least one service request from a service storage device contained in said first blockchain node to obtain a preprocessing block, and send said preprocessing block to each second blockchain node of a consensus network by means of said

server, so as to perform service consensus on said preprocessing block by means of the second blockchain nodes. Of the plurality of servers contained in the first blockchain node, as long as one server is available, it is possible to ensure the availability of the first blockchain node and thereby improve the stability of the first blockchain node in the consensus network.

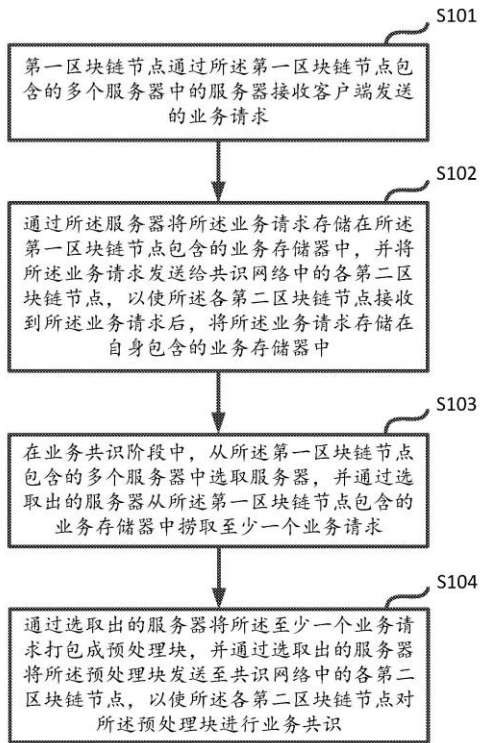


图 1

S101 By means of server among plurality of servers contained in first blockchain node, first blockchain node receives service request sent from client and stores service request  
 S102 By means of server, service request is stored in service storage device contained in first blockchain node, and service request is sent to second blockchain nodes in consensus network such that after second blockchain nodes have received service request, service request is stored in service storage device contained second blockchain nodes  
 S103 In service consensus stage, server is selected from plurality of servers contained in first blockchain node, and by means of selected server, at least one service request is retrieved from service storage device contained in first blockchain node  
 S104 By means of selected server, at least one service request is packaged as preprocessing block, and preprocessing block is sent to second blockchain nodes in consensus network by means of selected server, so that second blockchain nodes perform service consensus on preprocessing block

21: 2019/04398. 22: 7/4/2019. 43: 2/26/2021  
 51: H04L  
 71: Sony Corporation  
 72: CAO, Jianfei  
 33: CN 31: 201710470653.X 32: 2017-06-20  
**54: ELECTRONIC DEVICE, METHOD AND STORAGE MEDIUM FOR WIRELESS COMMUNICATION SYSTEM**

00: -

The disclosure relates to an electronic device and method for a wireless communication system, and a storage medium. Various embodiments regarding beam management are described. In one embodiment, an electronic device for a base station side in a wireless communication system can comprise a processing circuit system. The processing circuit system can be configured to repeatedly send a synchronous signal to a terminal device by utilising different transmission beams based on a transmission beam configuration, the synchronous signal can indicate transmission beam information used for sending the synchronous signal. The processing circuit system can be configured to acquire feedback from a terminal device, and the feedback can comprise transmission beam information for managing a transmission beam.

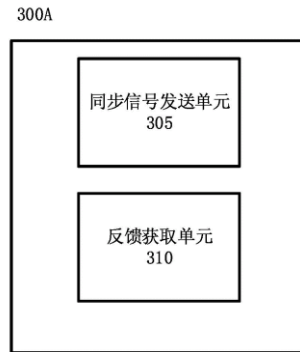


图 3A

305 SYNCHRONOUS SIGNAL SENDING UNIT  
 310 FEEDBACK ACQUISITION UNIT

21: 2019/04435. 22: 7/5/2019. 43: 3/19/2021  
 51: E01F  
 71: DELTA BLOC International GmbH  
 72: EDL, Thomas, SPITZER, Franz  
 33: AT 31: A 51118/2016 32: 2016-12-07  
**54: REINFORCING ELEMENT**

00: -

The invention relates to a reinforcing element (1) for a concrete barrier-wall element (3), which concrete barrier-wall element has a repelling profile on at least one longitudinal side (2), wherein the reinforcing element (1) has longitudinal reinforcing bars (4) and has bows (5), which extend transversely to the longitudinal reinforcing bars (4) and are connected to the longitudinal reinforcing

bars (4). According to the invention, the reinforcing element (1) has at least one first region (6) and the first region (6) largely has the repelling profile. The invention further relates to a method for producing a concrete barrier-wall element having a repelling profile on at least one longitudinal side (2).

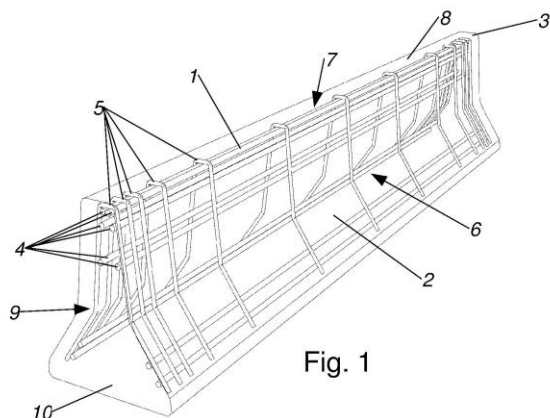
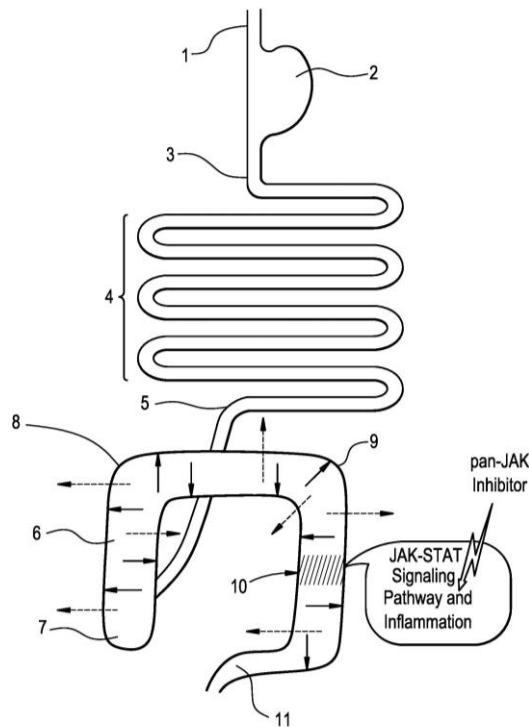


Fig. 1



21: 2019/04615. 22: 7/15/2019. 43: 3/19/2021  
51: A61K; A61P; C07D

71: Janssen Pharmaceutica NV  
72: KREUTTER, Kevin D., LEONARD, Kristi, RIZZOLIO, Michele C., SMITH, Russell C., TICHENOR, Mark S., WANG, Aihua, KOUDRIAKOVA, Tatiana  
33: US 31: 62/435,609 32: 2016-12-16  
**54: SMALL MOLECULE INHIBITORS OF THE JAK FAMILY OF KINASES**

00: -  
2-((1r,4r)-4-(imidazo[4,5-d]pyrrolo[2,3-b]pyridin-1(6H)-yl)cyclohexyl)acetonitrile compounds, pharmaceutical compositions containing them, methods of making them, and methods of using them including methods for treating disease states, disorders, and conditions mediated by JAK, such as inflammatory bowel disease.

21: 2019/04616. 22: 7/15/2019. 43: 2/26/2021  
51: A61K; A61P; C07D

71: Pfizer Inc.  
72: ASPNES, Gary Erik, BAGLEY, Scott W., CURTO, John M., DOWLING, Matthew S., EDMONDS, David James, FLANAGAN, Mark E., FUTATSUGI, Kentaro, GRIFFITH, David A., HUARD, Kim, INGLE, Gajendra, JIAO, Wenhua, LIMBERAKIS, Chris, MATHIOWETZ, Alan M., PIOTROWSKI, David W., RUGGERI, Roger B.  
33: US 31: 62/435,533 32: 2016-12-16  
**54: GLP-1 RECEPTOR AGONISTS AND USES THEREOF**

00: -  
Provided herein are 6-carboxylic acids of benzimidazoles and 4-aza-, 5-aza-, 7-aza- and 4,7-diaza-benzimidazoles as GLP-1R agonists, processes to make said compounds, and methods comprising administering said compounds to a mammal in need thereof.

21: 2019/04655. 22: 7/16/2019. 43: 2/26/2021  
51: A61K; A61P

71: Treeway TW001 B.V.  
72: MOOLENAAR, Sytske Hyke, VAN DER GEEST, Ronald  
33: EP(NL) 31: 17151741.0 32: 2017-01-17

**54: TREATMENT COMPRISING ORAL OR GASTRIC ADMINISTRATION OF EDARAVONE**

00: -

The invention relates to a liquid pharmaceutical composition for use in medical treatment, said liquid pharmaceutical composition being a monophasic aqueous solution of non-complexed 3-methyl-1-phenyl-2-pyrazolin-5-one (edaravone) and comprising at least 7 wt.% water and 0.2-9mg/mL of edaravone, wherein the treatment comprises oral or gastric administration of 10-250 mL of the liquid pharmaceutical composition to provide 30-300mg edaravone.

21: 2019/04656. 22: 7/16/2019. 43: 3/19/2021

51: G06F; H04L; H04W

71: Alibaba Group Holding Limited

72: LI, Yi

33: CN 31: 201710102824.3 32: 2017-02-24

**54: KEY ESTABLISHMENT AND DATA SENDING METHO\*-D AND APPARATUS**

00: -

The present application discloses a data sending method for solving the problem of low data security in an existing data exchange process. The method includes: writing, by a data transaction platform, a data transaction agreement achieved between a first user and a second user into a block chain and storing the agreement; receiving, by a data exchange platform, a first key sent by a first terminal and used for decrypting encrypted first data, the first terminal being a terminal corresponding to the first user; sending, by the first terminal, the encrypted first data to a second terminal, the second terminal being a terminal corresponding to the second user; sending, by the data exchange platform, the first key to the second terminal; and decrypting, by the second terminal, the received encrypted first data based on the first key to obtain the first data. The present application further discloses a data sending apparatus.

21: 2019/04695. 22: 7/17/2019. 43: 3/15/2021

51: A61K; A61P; C07D

71: AstraZeneca AB, Cancer Research Technology Limited

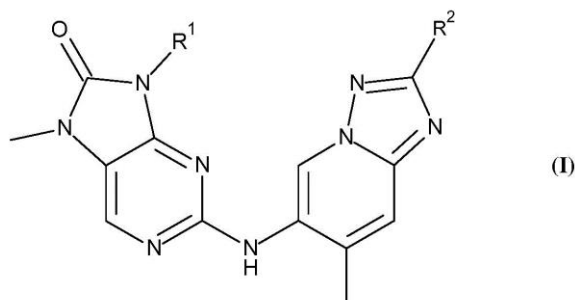
72: FINLAY, Maurice Raymond Verschoyle, GOLDBERG, Frederick Woolf, TING, Attila Kuan Tsuei

33: US 31: 62/436,619 32: 2016-12-20

**54: AMINO-TRIAZOLOPYRIDINE COMPOUNDS AND THEIR USE IN TREATING CANCER**

00: -

The specification generally relates to compounds of Formula (I) and pharmaceutically acceptable salts thereof, where R<sup>1</sup> and R<sup>2</sup> have any of the meanings defined herein. The specification also relates to the use of such compounds and salts thereof to treat or prevent DNA-PK mediated disease, including cancer. The specification further relates to pharmaceutical compositions comprising such compounds and salts; kits comprising such compounds and salts; methods of manufacture of such compounds and salts; intermediates useful in the manufacture of such compounds and salts; and to methods of treating DNA-PK mediated disease, including cancer, using such compounds and salts.



21: 2019/04773. 22: 7/19/2019. 43: 2/26/2021

51: A61B; G01N

71: Medicortex Finland Oy

72: HAREL, Adrian, VÄLIMAA, Lasse

33: US 31: 62/461,277 32: 2017-02-21

**54: NON-INVASIVE BRAIN INJURY DIAGNOSTIC DEVICE**

00: -

Provided herein is a device for conducting a non-invasive diagnostic test in a subject suspected of suffering brain injury. The device for diagnosing a brain injury in a subject includes a probe of a porous matrix, an indicator formulation disposed on the porous matrix and comprises at least one lectin and/or antibody capable of selectively binding to a glycan-based biomarker indicative of brain injury in a sample, and a visually detectable label; and a handle in communication with the probe, wherein at least one of the lectin and/or antibody and/or the visually detectable label is immobilized in and/or on a detection zone in the porous matrix, and the visually detectable label develops a color intensity level and becomes visible upon a binding event of the glycan-based biomarker to the lectin and/or antibody. Also provided is a method for using the device described below and methods for producing the same.

dissolution (E1) of a gelling agent; and ii. the gelling agent, - a step of drawing off (E4) the compound; - a step of in-line cooling (E5) of the compound so as to bring it below a second temperature at which it gels; - a step of transferring (E6) to a distribution line; - a step of cutting (E7) the gelled compound into blocks at the outlet of the distribution line; and - a step of distributing the blocks of gel into a farming container immediately after the gel is cut into blocks. Such a method allows blocks of gel to be produced continuously and as required in the context of rearing livestock, in particular rearing insects. The invention also relates to a corresponding device.

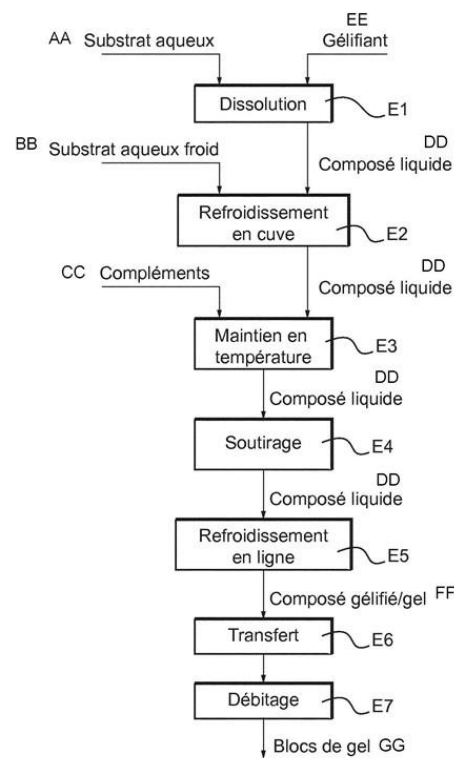
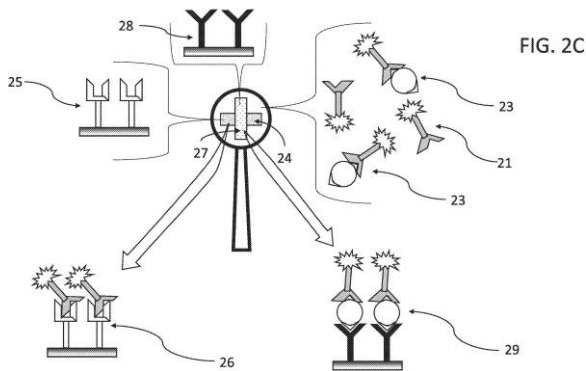


Fig. 1

- AA Aqueous substrate
- BB Cold aqueous substrate
- CC Supplements
- DD Liquid compound
- EE Gelling agent
- E1 Dissolution
- E2 Cooling in vat
- E3 Maintain temperature
- E4 Drawing off
- E5 In-line cooling
- E6 Transfer
- E7 Cutting
- FF Gelatinised compound/gel
- GG Blocks of gel

21: 2019/04930. 22: 7/26/2019. 43: 3/19/2021  
 51: A23K; A23L; A23N; A23P; B01J  
 71: Ynsect  
 72: COMPARAT, Solene, CLESSE, Loïc, DU JONCHAY, Thibault, LEFEBVRE, Thomas, BERRO, Fabrice, BEREZINA, Nathalie, SEGUIMBRAUD, Clementine  
 33: FR 31: 1663522 32: 2016-12-29  
**54: METHOD FOR SUPPLYING WATER IN THE REARING OF LIVESTOCK AND DEVICE FOR PRODUCING BLOCKS OF AN AQUEOUS GEL**  
 00: -  
 The invention relates to a method for producing blocks of an aqueous gel, comprising: a step of forming a compound by mixing: i. an aqueous substrate which is liquid at ambient temperature and which is brought to a temperature allowing the



21: 2019/04931. 22: 7/26/2019. 43: 3/19/2021  
 51: A23K; A23N  
 71: Ynsect  
 72: PEYRICHOU, Fanny, COMPARAT, Solene, CLESSE, Loïc, DU JONCHAY, Thibault, LEFEBVRE, Thomas, BOUZIANE, Myriem, BERRO, Fabrice, LORRETTE, Benedicte, BEREZINA, Nathalie, SEGUIMBRAUD, Clementine  
 33: FR 31: 1663523 32: 2016-12-29  
**54: GEL COMPRISING A LIQUID COPRODUCT FROM AGRO-INDUSTRY AND USE THEREOF FOR REARING INSECTS**

00: -  
 The present invention relates to a gel used as a source of water and/or nutrients for rearing insects. The gel comprises 90 to 99.6% by weight of an aqueous substrate comprising at least 25% by weight, of the total weight of the aqueous substrate, of a liquid coproduct from agro-industry, 0.3 to 2% by weight of a gelling agent, and 0.1 to 5% by weight of a preservative, the percentages by weight of aqueous substrate, gelling agent and preservative being expressed over the total weight of the gel.

21: 2019/04934. 22: 7/26/2019. 43: 3/26/2021  
 51: G06Q; G06Q  
 71: Alibaba Group Holding Limited, Advanced New Technologies Co., Ltd.  
 72: SONG, Xuyang, YAN, Ying, QIU, Honglin, ZHAO, Boran, LIN, Li  
**54: OFF-CHAIN SMART CONTRACT SERVICE BASED ON TRUSTED EXECUTION ENVIRONMENT**

00: -  
 Implementations of the specification include receiving, by a smart contract service provider including a trusted computation execution environment (TEE) from a client associated with a target blockchain network, a request for operating cross-chain data of one or more blockchain networks different from the target blockchain, wherein the smart contract service provider is off the target blockchain network; sending, by the smart contract service provider to a data visiting service provider, a request for the cross-chain data; receiving, by the smart contract service provider, the cross-chain data from the data visiting service provider; generating, by the TEE, a result using the cross-chain data; and returning, by the smart contract service provider, the result to the client.

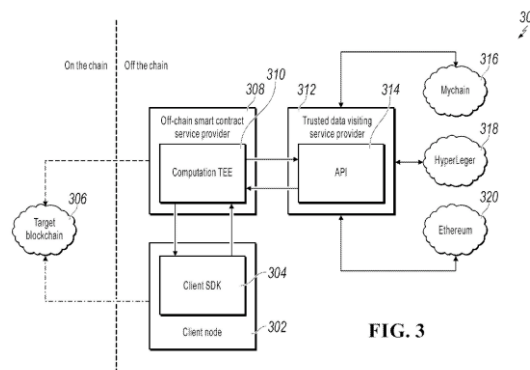
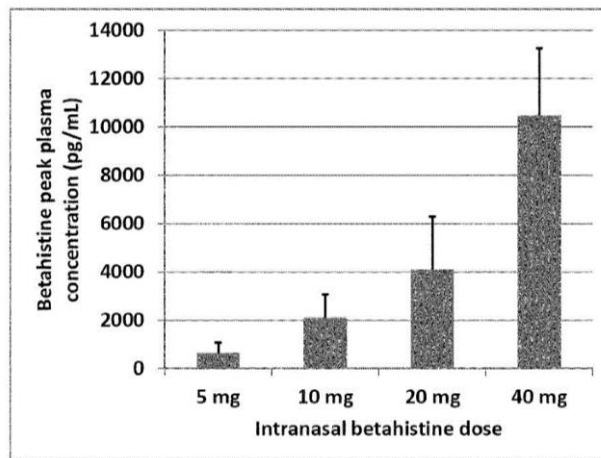


FIG. 3

21: 2019/04955. 22: 29/07/2019. 43: 2/26/2021  
 51: A61K; A61P  
 71: OTOLANUM AG  
 72: WRAIGHT, Christopher, John, MEYER, Thomas  
 33: US 31: 62/453,931 32: 2017-02-02  
**54: INTRANASAL COMPOSITION COMPRISING BETAHISTINE**

00: -  
 The present disclosure relates to a pharmaceutical composition comprising as active substance betahistine or a pharmaceutically acceptable salt thereof, for use in the treatment of otological or neurological disorders in a human subject by intranasal application.



21: 2019/05012. 22: 7/30/2019. 43: 2/26/2021  
 51: C01B; C01D; H01M  
 71: Albemarle Germany GmbH  
 72: VITZE, Hannes, NICKEL, Vera, LANG, Sebastian, MÜLLER, Marc-Christian, PIETZNER, Sebastian, PLATH, Armine  
 33: DE 31: 10 2017 201 772.4 32: 2017-02-03

**54: HIGHLY REACTIVE, DUST-FREE AND FREE-FLOWING LITHIUM SULPHIDE AND METHOD FOR THE PRODUCTION THEREOF**

00: -

The invention relates to a highly reactive, highly pure, free-flowing and dust-free lithium sulphide powder having an average particle size between 250 and 1500 N2/g. The invention further relates to a method for the production thereof, where in a first step lithium hydroxide monohydrate is heated in a temperature-controlled apparatus to a reaction temperature between 150°C and 450°C under the exclusion of air and an inert gas is passed over or through the apparatus and residual water of crystallization of the lithium hydroxide formed is less than 5 wt.% and, in a second step, the water of crystallization of the lithium hydroxide formed in the first step is mixed with or has passed over or through it a gaseous sulphur source from a group of hydrogen sulphide, elemental sulphur, carbon disulphide, mercaptanes or sulphur nitrides.

21: 2019/05117. 22: 8/1/2019. 43: 3/19/2021  
51: G06F; G06K; G08G

71: Kapsch TrafficCom AG  
72: GIL AGUIRREBEITIA, Carlos, GARCÍA CASADO, Rubén

33: EP(AT) 31: 17154099.0 32: 2017-02-01

**54: A METHOD OF PREDICTING A TRAFFIC BEHAVIOUR IN A ROAD SYSTEM**

00: -

The invention relates to a method of predicting a traffic behaviour in a road system, comprising the following steps carried out by at least one processor (9, 11, 14, 17) connected to a database (7, 12, 16), which contains a set of traffic profiles (6): clustering the traffic profiles (6); for each cluster (CL<sub>i</sub>), determining a dissimilarity measure (D); receiving a request (Req) having one or more request tags (RT); checking whether all request tags (RT) match one of the characteristic vectors (CV<sub>i</sub>) of the clusters (CL<sub>i</sub>), and if so, outputting a predicted traffic behaviour (PTB), else, eliminating one of the request tags (RT) from the request (Req) and returning to the beginning of said step of checking.

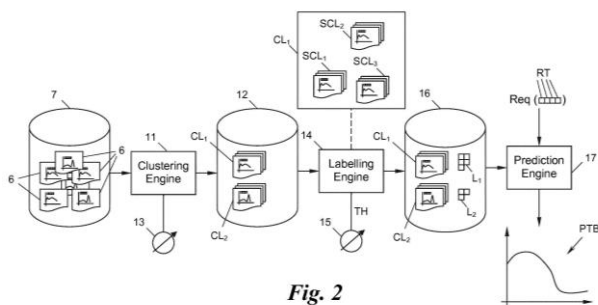


Fig. 2

21: 2019/05160. 22: 8/5/2019. 43: 3/19/2021  
51: C07K A61K

71: BIOMUNEX PHARMACEUTICALS  
72: ZHUKOVSKY, Eugene, LEGER, Olivier

33: EP 31: 17305022.0 32: 2017-01-09

**54: A POLYPEPTIDE LINKER FOR PREPARING MULTISPECIFIC ANTIBODIES**

00: -

The present invention relates to a mutant polypeptide linker for preparing multispecific

antibodies, said multispecific antibodies, and methods for producing said multispecific antibodies.

21: 2019/05186. 22: 8/6/2019. 43: 3/19/2021  
51: H02J

71: Katlego Systems, LLC

72: CLAY, Rodney L., WILLIAMS, Lloyd W., CLAY, Wally J.

33: US 31: 62/350,326 32: 2016-06-15

**54: POWER SUPPLY CHARGING SYSTEM**

00: -

A power supply charging system having first and second alternating power cells, a motor driven generator adapted to operably switch between providing power between the first and second alternating power cells, a third power cell which supplies power to the motor driven generator, and a control system having a power cell managing module and a charge control module. The power cell module is adapted to alternate the motor driven generator to operably switch between providing power to the first and second alternating power cells. The charge control module is adapted to detect the occurrence of a pre-determined power supply condition to activate the motor driven generator to provide power to the first or second alternating power cells. The power supply charging system may find particular use in generating a direct current, converting the direct current to an alternating current, and providing a continuous alternating current to a facility or equipment.

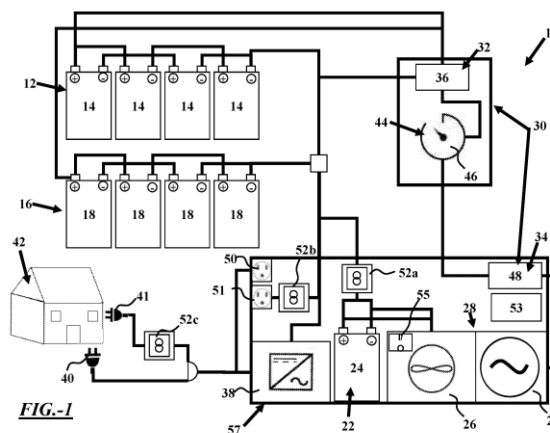


FIG.-1

21: 2019/05299. 22: 12/08/2019. 43: 3/19/2021  
51: B67D

71: FREEZIO AG

72: KRÜGER, MARC, EMPL, GÜNTER, FISCHER, DANIEL

33: DE 31: 10 2016 200 254.6 32: 2016-01-12

33: DE 31: 10 2016 212 013.1 32: 2016-07-01

33: DE 31: 10 2016 218 509.8 32: 2016-09-27

33: DE 31: 10 2016 218 884.4 32: 2016-09-29

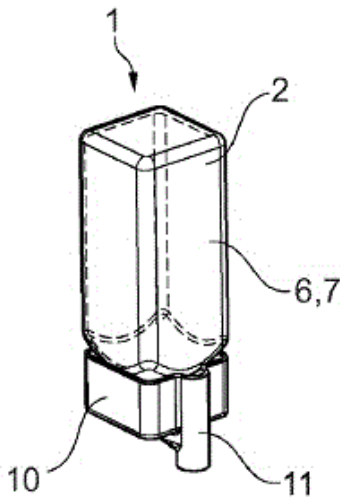
33: DE 31: 10 2016 218 507.1 32: 2016-09-27

33: DE 31: 10 2016 212 012.3 32: 2016-07-01

**54: CARTRIDGE RECEIVER, CARTRIDGE SYSTEM, DRINK PREPARATION MACHINE AND METHOD FOR PRODUCING A DRINK**

00: -

The invention relates to a cartridge system (1) for producing a drink in a drink preparation machine, comprising a cartridge (2) that has a reservoir (6) filled with a drink substance (7), and a cartridge receiver (10) that can be reversibly connected to the cartridge, said cartridge receiver (10) comprising a mixing chamber (8) and a cartridge discharge device (34) which causes at least partial transfer of the drink substance (7) from the reservoir (6) into the mixing chamber (8), and said cartridge receiver (10) comprising a fluid supply (12) which opens into the mixing chamber (8). The invention also relates to the cartridge receiver (10) of the cartridge system (1), the drink preparation machine, and the corresponding method for producing a drink (70).



33: DE 31: 10 2016 218 509.8 32: 2016-09-27

33: DE 31: 10 2016 212 013.1 32: 2016-07-01

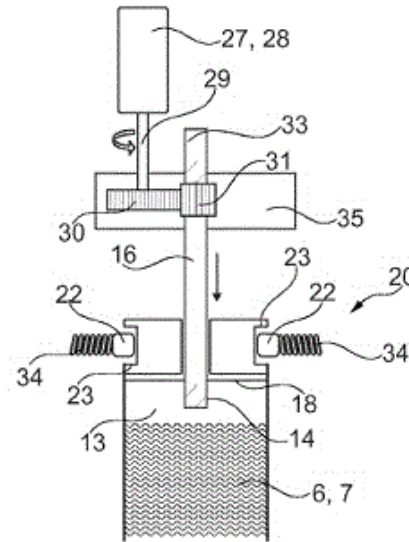
33: DE 31: 10 2016 200 254.6 32: 2016-01-12

33: DE 31: 10 2016 218 884.4 32: 2016-09-29

**54: SYSTEM, CARTRIDGE, BEVERAGE PREPARATION UNIT AND METHOD FOR PRODUCING A BEVERAGE**

00: -

Disclosed is a system for producing a beverage, in particular a cold beverage, comprising a cartridge that has a reservoir filled with a beverage substance, a beverage preparation unit with a cartridge receptacle into which the cartridge can be reversibly inserted, and a cartridge discharge device which causes at least partial transfer of the beverage substance from the reservoir into a mixing chamber; furthermore, the beverage preparation unit comprises a fluid supply which opens into the mixing chamber, or the system includes a movable plunger which is placed inside the reservoir and can be transferred from a starting position into a final position by means of the cartridge discharge device.



21: 2019/05302. 22: 12/08/2019. 43: 3/19/2021

51: B67D

71: FREEZIO AG

72: KRÜGER, MARC, EMPL, GÜNTER, FISCHER, DANIEL

33: DE 31: 10 2016 212 012.3 32: 2016-07-01

33: DE 31: 10 2016 218 507.1 32: 2016-09-27

21: 2019/05304. 22: 12/08/2019. 43: 3/19/2021

51: B67D

71: FREEZIO AG

72: KRÜGER, MARC, EMPL, GÜNTER, FISCHER, DANIEL

33: DE 31: 10 2016 200 254.6 32: 2016-01-12

33: DE 31: 10 2016 218 507.1 32: 2016-09-27

33: DE 31: 10 2016 218 884.4 32: 2016-09-29

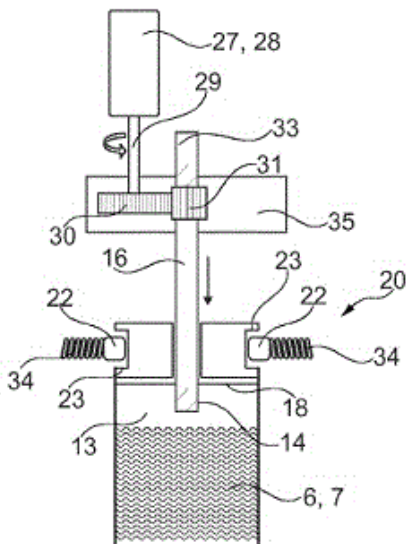
33: DE 31: 10 2016 212 013.1 32: 2016-07-01

33: DE 31: 10 2016 218 509.8 32: 2016-09-27

33: DE 31: 10 2016 212 012.3 32: 2016-07-01

**54: SYSTEM, CARTRIDGE, BEVERAGE PREPARATION UNIT AND METHOD FOR PRODUCING A BEVERAGE**

00: -  
 Disclosed is a system for producing a beverage, in particular a cold beverage, comprising a cartridge that has a reservoir filled with a beverage substance, a beverage preparation unit with a cartridge receptacle into which the cartridge can be reversibly inserted, and a cartridge discharge device which causes at least partial transfer of the beverage substance from the reservoir into a mixing chamber; furthermore, the beverage preparation unit comprises a fluid supply which opens into the mixing chamber, or the system includes a movable plunger which is placed inside the reservoir and can be transferred from a starting position into a final position by means of the cartridge discharge device.

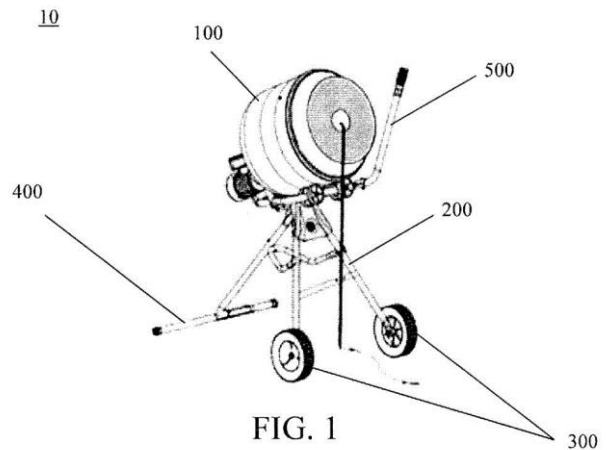


21: 2019/05305. 22: 12/08/2019. 43: 3/15/2021  
 51: C12M; C12N  
 71: LOCUS IP COMPANY, LLC  
 72: FARMER, Sean, ALIBEK, Ken, DIXON, Tyler  
 33: US 31: 62/457,445 32: 2017-02-10

**54: PORTABLE DEVICE AND METHODS FOR EFFICIENT PRODUCTION OF MICROBES**

00: -  
 Provided are devices and methods for producing microbe-based compositions that can be used in the oil and gas industry, environmental cleanup, as well as for other applications. The devices and methods can produce scalable, submerged yeast cultures for inoculating larger-scale, on-site fermentation

systems. A device can include a rotatable drum mounted on a support frame and a motor connected to the drum and causing the drum to rotate.



21: 2019/05311. 22: 8/12/2019. 43: 2/26/2021  
 51: G06F  
 71: Alibaba Group Holding Limited  
 72: GUO, Wei  
 33: CN 31: 201710076533.1 32: 2017-02-13  
**54: IMAGE GENERATION METHOD AND DEVICE**

00: -  
 The present application discloses an image generation method and device. The method includes: parsing an original two-dimensional code into a two-dimensional array; and generating an image by using the two-dimensional array according to a preset pattern. The method can generate an image by using an original two-dimensional code on the basis of a preset pattern thereby verifying the original two-dimensional code by using the image. In this way, it can be judged, when there is no network available, whether the two-dimensional code is tampered. The present application has abundant use scenarios, is not limited by networks or mobile terminals, and makes two-dimensional code verification more interesting.



FIG. 4A

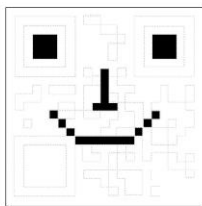


FIG. 4B

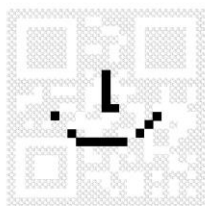
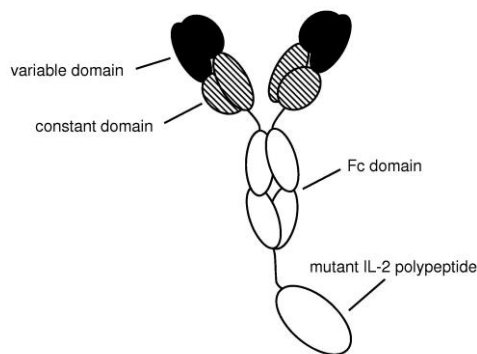


FIG. 4C



21: 2019/05517. 22: 8/21/2019. 43: 3/19/2021  
51: A61K; C07K

71: F. Hoffmann-La Roche AG

72: CODARRI DEAK, Laura, KLEIN, Christian, LAUENER, Laura, NICOLINI, Valeria G., SEEBER, Stefan, UMAÑA, Pablo, WALDHAUER, Inja  
33: EP(CH) 31: 17164533.6 32: 2017-04-03

**54: IMMUNOCONJUGATES OF AN ANTI-PD-1 ANTIBODY WITH A MUTANT IL-2 OR WITH IL-15**  
00: -

The present invention generally relates to immunoconjugates, particularly immunoconjugates comprising a mutant interleukin-2 polypeptide and an antibody that binds to PD-1. In addition, the invention relates to polynucleotide molecules encoding the immunoconjugates, and vectors and host cells comprising such polynucleotide molecules. The invention further relates to methods for producing the mutant immunoconjugates, pharmaceutical compositions comprising the same, and uses thereof.

21: 2019/05540. 22: 8/22/2019. 43: 3/15/2021  
51: C07C

71: BASF SE

72: MISSKE, Andrea, FLECKENSTEIN, Christoph, FLEISCHHAKER, Friederike

33: EP 31: 17153566.9 32: 2017-01-27

**54: METHODS FOR PRODUCING (METH)ACRYLIC ACID NORBORNYL ESTERS**  
00: -

The invention relates to a method for producing norbornyl (meth)acrylate by reacting norbornene with (meth)acrylic acid in the presence of boron trifluoride as a catalyst, characterised in that e) boron trifluoride is added to (meth)acrylic acid, f) the mixture is heated to a temperature of 75 to 110°C, g) norbornene is added, and h) the norbornyl-(meth)acrylate obtained is isolated from the reaction mixture. The invention further relates to a method for producing norbornyl (meth)acrylate by reacting norbornene with (meth)acrylic acid in the presence of boron trifluoride as a catalyst, characterised in that e) boron trifluoride is added to an organic solvent, f) the mixture is heated to a temperature of 75 to 110°C, g) a mixture containing norbornene and (meth)acrylic acid is added, and h) the norbornyl-(meth)acrylate obtained is isolated from the reaction mixture.

21: 2019/05543. 22: 8/22/2019. 43: 3/19/2021  
51: A61K; C07K

71: Pfizer Inc.

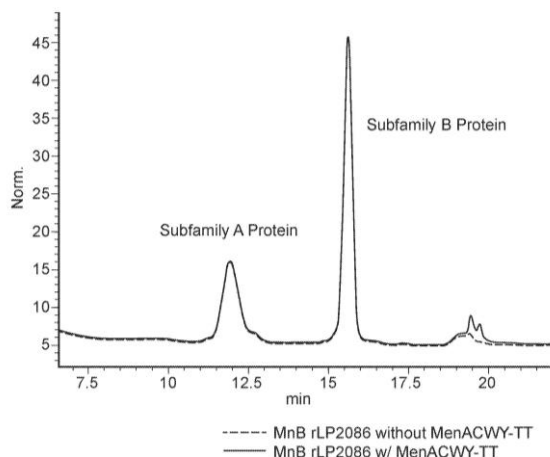
72: JANSEN, Kathrin Ute, ANDERSON, Annaliesa Sybil, ABSALON, Judith, BEESLAAR, Johannes Frederik, FARLEY, John Erwin, FLETCHER, Leah Diane, HARRIS, Shannon Lea, JONES, Thomas Richard, KHANDKE, Lakshmi, LIBERATOR, Paul, PEREZ, John Lance, PHELAN, Lynn Marie, ZLOTNICK, Gary Warren, COOPER, David, ASTE-AMÉZAGA, José Miguel, KANEVSKY, Isis

33: US 31: 62/452,963 32: 2017-01-31

**54: NEISSERIA MENINGITIDIS COMPOSITIONS AND METHODS THEREOF**

00: -

In one aspect, the invention relates to a composition including a factor H binding protein (fHBP) and a *Neisseria meningitidis* non-serogroup B capsular polysaccharide. The invention further relates to uses of a composition that includes fHBP, such as, for example, uses to elicit an immune response against *N. meningitidis* serogroup B strains and non-serogroup B strains. The compositions and methods described herein are directed to administration in humans, including adults, adolescents, toddlers, and infants.



21: 2019/05546. 22: 8/22/2019. 43: 2/26/2021

51: A61K; A61P; C07K

71: Les Laboratoires Servier

72: ABASTADO, Jean-Pierre, AMELLAL, Nadia, BRUNO, Alain, BURBRIDGE, Michaël Frank, CATTAN, Valérie, LEGER, Catherine

33: EP(FR) 31: 17161630.3 32: 2017-03-17

**54: COMBINATION BETWEEN TRIFLURIDINE/TIPIRACIL HYDROCHLORIDE, AN ANTI-TUMOR PLATINUM COMPLEX, AND AN IMMUNE CHECKPOINT MODULATOR**

00: -

Combination between: the FTD-TPI drug, an anti-tumor platinum complex, and an immune checkpoint modulator. Corresponding medicaments.

21: 2019/05609. 22: 26/08/2019. 43: 2/26/2021

51: A61K; A61P

71: NYMOX CORPORATION

72: AVERBACK, Paul

33: US 31: 15/446,406 32: 2017-03-01

**54: COMPOSITIONS AND METHODS FOR IMPROVING SEXUAL FUNCTION**

00: -

The embodiments include methods of improving sexual function in a male with benign prostatic hyperplasia (BPH), using compositions containing compounds based on small peptides and a pharmaceutically acceptable carrier. The method includes, but is not limited to, administering the compounds intramuscularly, orally, intravenously, intraprostatically, intrathecally, intratumorally, intranasally, topically, transdermally, etc., either alone or conjugated to a carrier to a male in need thereof.

21: 2019/05618. 22: 8/26/2019. 43: 3/19/2021

51: A61K; A61P; C07D

71: Theravance Biopharma R&amp;D IP, LLC

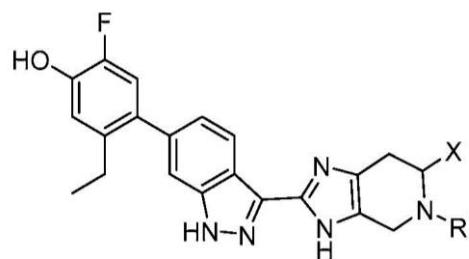
72: FATHEREE, Paul R., BRANDT, Gary E.L., SMITH, Cameron, SULLIVAN, Steven D.E., VAN ORDEN, Lori Jean, KLEINSCHKE, Melanie A., CRATER, Glenn D.

33: US 31: 62/469,073 32: 2017-03-09

**54: FUSED IMIDAZO-PIPERIDINE JAK INHIBITORS**

00: -

The invention provides compounds of formula (I): (I) where the variables are defined in the specification, or a pharmaceutically-acceptable salt thereof, that are useful as JAK kinase inhibitors. The invention also provides pharmaceutical compositions comprising such compounds, methods of using such compounds to treat respiratory diseases, and processes and intermediates useful for preparing such compounds.



(I)

21: 2019/05711. 22: 8/29/2019. 43: 3/12/2021

51: A61P; C07K

71: Eli Lilly and Company, Zymeworks Inc.

72: D'ANGELO, Igor Edmondo Paolo, LI, Yiwen, LUDWIG, Dale Lincoln, SHEN, Yang, ZHANG, Yi

33: US 31: 62/484,025 32: 2017-04-11

**54: ANTI-PD-L1-ANTI-TIM-3 BISPECIFIC ANTIBODIES**

00: -

The present invention relates to antibodies that are heterodimeric and bind human PD-L1 and human TIM-3, and may be useful for treating cancer alone and in combination with chemotherapy and other cancer therapeutics.

21: 2019/05817. 22: 9/3/2019. 43: 3/12/2021

51: A61K; A61P; C07D

71: Fuji Yakuhin Co., Ltd.

72: UDA, Junichiro, KOBASHI, Seiichi, HASEGAWA, Misa

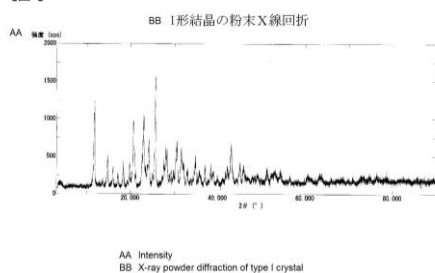
33: JP 31: 2017-099334 32: 2017-04-28

**54: CRYSTAL FORM AND SALT OF 3-(3,5-DICHLORO-4-HYDROXYBENZOYL)-1,1-DIOXO-2,3-DIHYDRO-1,3-BENZOTHIAZOLE**

00: -

Provided are: a pharmaceutical composition containing a type I crystal of 3-(3,5-dichloro-4-hydroxybenzoyl)-1,1-dioxo-2,3-dihydro-1,3-benzothiazole, a type II crystal of 3-(3,5-dichloro-4-hydroxybenzoyl)-1,1-dioxo-2,3-dihydro-1,3-benzothiazole, a hydrate of 3-(3,5-dichloro-4-hydroxybenzoyl)-1,1-dioxo-2,3-dihydro-1,3-benzothiazole, a salt thereof, and a pharmaceutically acceptable carrier; and a method for producing the same.

[図1]



21: 2019/05902. 22: 9/6/2019. 43: 3/5/2021

51: A61K; A61P; C07D

71: Bayer Aktiengesellschaft, Bayer Pharma Aktiengesellschaft

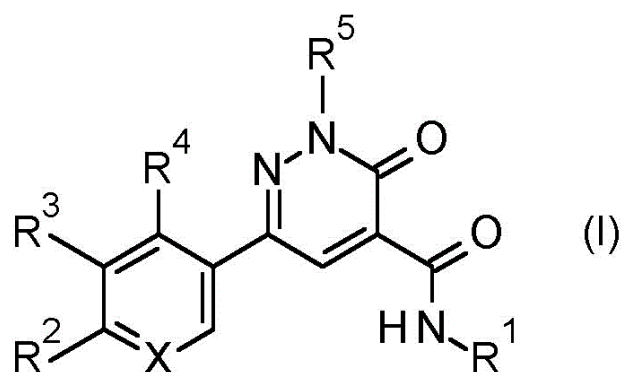
72: GUTCHER, Ilona, RÖHN, Ulrike, SCHMEES, Norbert, ZORN, Ludwig, RÖSE, Lars, BADER, Benjamin, KOBBER, Christina, CARRETERO, Rafael, STÖCKIGT, Detlef, IRLBACHER, Horst, PLATTEN, Michael

33: EP(DE) 31: 17155406.6 32: 2017-02-09

**54: 2-HETEROARYL-3-OXO-2,3-DIHYDROPYRIDAZINE-4-CARBOXAMIDES FOR THE TREATMENT OF CANCER**

00: -

The present invention covers 2-heteroaryl-3-oxo-2,3-dihydropyridazine-4-carboxamide compounds of general formula (I), in which X, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup> are as defined herein, methods of preparing said compounds, intermediate compounds useful for preparing said compounds, pharmaceutical compositions and combinations comprising said compounds and the use of said compounds for manufacturing pharmaceutical compositions for the treatment or prophylaxis of diseases, in particular of cancer or conditions with dysregulated immune responses or other disorders associated with aberrant AHR signaling, as a sole agent or in combination with other active ingredients.



21: 2019/05921. 22: 09/09/2019. 43: 3/9/2021

51: G06F

71: GENOMSYS SA

72: BALUCH, Mohamed Khoso, ALBERTI, Claudio, ZOIA, Giorgio, RENZI, Daniele

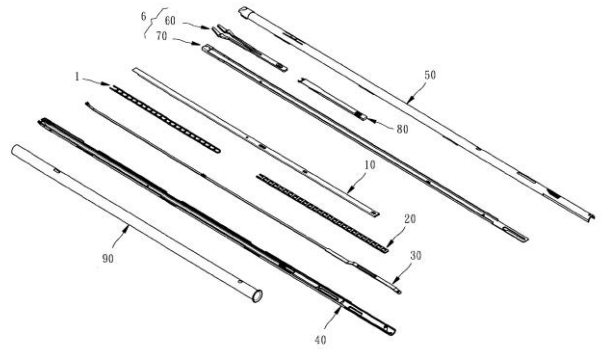
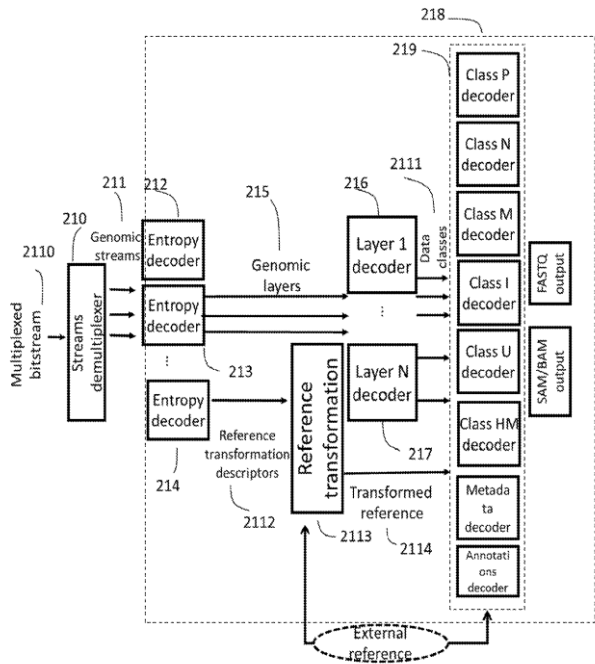
33: WO 31: PCT/US2017/017842 32: 2017-02-14

33: WO 31: PCT/US2017/041591 32: 2017-07-11

**54: METHOD AND APPARATUS FOR THE COMPACT REPRESENTATION OF BIOINFORMATICS DATA USING MULTIPLE GENOMIC DESCRIPTORS**

00: -

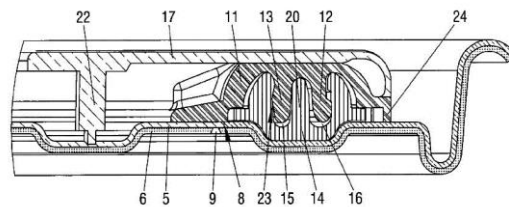
Method and apparatus for the compression of genome sequence data produced by genome sequencing machines. Sequence reads are coded by aligning them with respect to pre-existing or constructed reference sequences, the coding process is composed of a classification of the reads into data classes followed by the coding of each class in terms of a multiplicity of descriptors blocks. Specific source models and entropy coders are used for each data class in which the data is partitioned, and each associated descriptor block.



21: 2019/06031. 22: 12/09/2019. 43: 2/26/2021  
 51: B65D  
 71: PIECH, Gregor, Anton  
 72: PIECH, Gregor, Anton  
 33: EP 31: 17165039.3 32: 2017-04-05

**54: CONTAINER FOR HERMETICALLY SEALED STORAGE OF PRODUCTS, IN PARTICULAR FOODSTUFFS**

00: -  
 Disclosed is a container for hermetically sealed storage of liquid, paste-like and/or solid products, more particularly foodstuffs, characterised in that the lid of the container is designed to be re-sealable and a largely stable pull-tab lid (2) is also provided, the opening of the lid not involving the separation of a metal surface leading to swarf formation and the re-sealing of said lid guaranteeing the required air tightness.



21: 2019/06063. 22: 9/13/2019. 43: 2/26/2020  
 51: C12N C12P  
 71: CJ CHEILJEDANG CORPORATION  
 72: LEE, Ji Hye, PARK, So-jung, BAEK, Min Ji, CHANG, Jin Sook, YOON, Byoung Hoon  
 33: KR 31: 10-2018-0087597 32: 2018-07-27  
**54: NOVEL 5'-INOSINIC ACID DEHYDROGENASE AND METHOD OF PREPARING 5'-INOSINIC ACID USING THE SAME**

00: -  
 Provided are a variant of 5'-inosinic acid dehydrogenase, a microorganism including the same, and a method of preparing 5'-inosinic acid using the same.

21: 2019/05924. 22: 9/9/2019. 43: 3/12/2021  
 51: A61B  
 71: Apex Glory Holdings Ltd.  
 72: FAN, Hong-Yang, HUANG, Shih-Hao  
 33: TW 31: 105136728 32: 2016-11-10  
**54: CLIP PUSHING MECHANISM FOR SURGICAL CLIP APPLICATOR**

00: -  
 A clip pushing mechanism used in a surgical clip applicator for loading and pushing clips (1) that are arranged in series with a clip pitch defined between each two adjacent of said clips (1) is disclosed. The clip pushing mechanism includes a clip holder bar (10) including an accommodation channel for accommodating the clips (1) in a series, a clip feeding ladder member (20) including a clip pushing portion and a plurality of driven portions spaced along a length thereof with a pitch defined between each two adjacent of said driven portions, and a clip pusher (30) including a body, a front pusher for pushing a leading clip (1) and a rear pusher for pushing each driven portion of the clip feeding ladder member (20).



21: 2019/06079. 22: 9/13/2019. 43: 3/5/2021  
51: C10M

71: Klüber Lubrication München SE & Co. KG,  
Universität Bielefeld

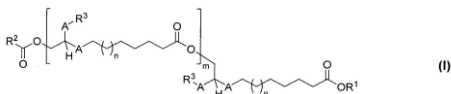
72: BETKE, Tobias, PLASS, Carmen, GRÖGER,  
Harald, LODERER, Dirk, SEEMEYER, Stefan,  
KILTHAU, Thomas, MA, Ling

33: DE 31: 10 2017 003 647.0 32: 2017-04-13

**54: NOVEL ESTER COMPOUNDS, METHOD FOR THE PRODUCTION THEREOF AND USE THEREOF**

00: -

The invention relates to novel ester compounds of general formula (I), to methods for the production thereof, and to their use. These ester compounds can contain a mixture of at least two compounds of general formula (I).



21: 2019/06104. 22: 9/16/2019. 43: 3/12/2021  
51: A61K; A61P; C07D

71: Innate Tumor Immunity, Inc.

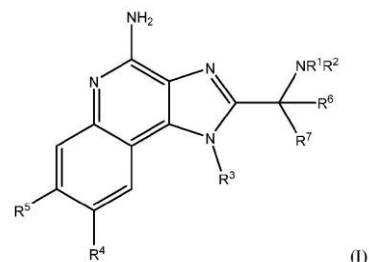
72: GLICK, Gary, GHOSH, Shomir, ROUSH, William R., OLHAVA, Edward James, O'MALLEY, Daniel

33: US 31: 62/460,677 32: 2017-02-17

**54: SUBSTITUTED IMIDAZO-QUINOLINES AS NLRP3 MODULATORS**

00: -

This disclosure features chemical entities (e.g., a compound or a pharmaceutically acceptable salt, and/or hydrate, and/or cocrystal, and/or drug combination of the compound) that modulate (e.g., agonizes or partially agonizes) NLRP3 that are useful, e.g., for treating a condition, disease or disorder in which an increase in NLRP3 signaling may correct a deficiency in innate immune activity (e.g., a condition, disease or disorder associated with an insufficient immune response) that contributes to the pathology and/or symptoms and/or progression of the condition, disease or disorder (e.g., cancer) in a subject (e.g., a human). This disclosure also features compositions as well as other methods of using and making the same.



21: 2019/06154. 22: 18/09/2019. 43: 3/19/2021  
51: A61K; A61P

71: PHARMALEADS

72: PORAS, Hervé, WURM, Michel, MELIK PARSADANIANTZ, Stéphane, REAUX-LE GOAZIGO, Annabelle

33: FR 31: 1751912 32: 2017-03-09

33: FR 31: 1759005 32: 2017-09-28

**54: AMINOPHOSPHINIC DERIVATIVES FOR PREVENTING AND TREATING EYE INFLAMMATION**

00: -

The invention relates to compounds of formula (I): (I) R<sup>1</sup>-NH-CH(R<sup>2</sup>)-P(=O)(OH)-CH<sub>2</sub>-C(R<sup>3</sup>)(R<sup>4</sup>)-CONH-C(R<sup>5</sup>)(R<sup>6</sup>)-COOR<sup>7</sup> in which R<sup>1</sup> to R<sup>7</sup> are as defined in the claims, for the use thereof in treating and/or preventing eye inflammation, and more particularly for improving the eye healing process. Thus, the compounds of formula (I) are notably useful for preventing neovascularisation, or for preventing or treating eye inflammation linked to keratitis, scleritis, episcleritis, uveitis, a cataract, a synechia, a macular oedema, a detachment of the retina, an ocular hypertension and degeneration of the optic nerve caused by glaucoma.

21: 2019/06196. 22: 9/19/2019. 43: 3/25/2021  
51: E04C E04B F16L

71: PARKD LTD.

72: MCUTCHEN, Peter, James, Stirling

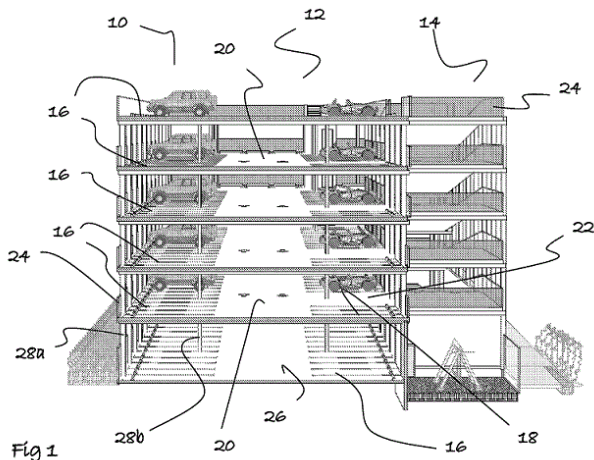
33: AU 31: 2017900630 32: 2017-02-24

**54: BUILDING STRUCTURE**

00: -

The invention relates to a lightweight concrete building structure using pre-stressed lightweight structural beams 46 with a lightweight floor panel (48) spanning between beams (46). In a particular arrangement, the parking system using building structure (10) may be about less than half the weight than traditional parking building structures. In accordance with one arrangement of the particular

embodiment of the invention, the building structure comprises floor structures having one or more structural beams, and one of more lightweight panels for attachment to the structural beam, wherein the floor structure is defined by joining together the one or more lightweight structural beams and the one of more lightweight panels. This particular arrangement is particularly useful because it permits defining a floor structure capable of sustaining relative large loads (such as a multitude of vehicles) using lightweight floor panels.



21: 2019/06201. 22: 9/19/2019. 43: 2/26/2021  
 51: A62C; G08B  
 71: Oy Halton Group Ltd.  
 72: LIVCHAK, Andrey V., SCHROCK, Derek W., LYONS, Gregory A., SANDUSKY, Jimmy, SUNDERLIN, Kyle, MEREDITH, Philip J., HARLOW, Nicholas  
 33: US 31: 62/473,747 32: 2017-03-20

**54: FIRE SAFETY DEVICES METHODS AND SYSTEMS**

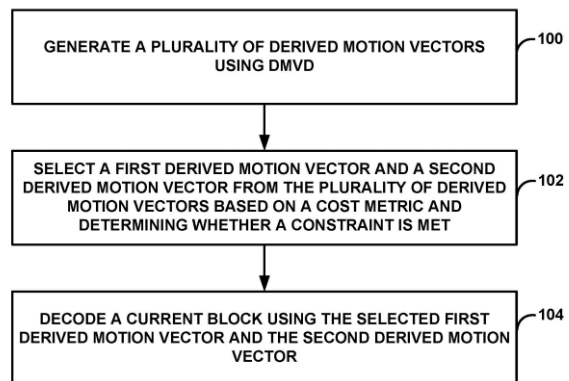
00: -  
 A fire safety system particularly adapted for commercial kitchen applications provides control of exhaust levels for energy efficiency and intelligently responds to fires or fire risks. In embodiments, systems may provide early warning of fire hazards or impending fires. Embodiments employ probabilistic estimates with alarms that can be canceled. Embodiments employ classifiers that can make use of alarm cancellations as a mechanism for supervised learning.

21: 2019/06240. 22: 9/20/2019. 43: 3/5/2021

51: H04N  
 71: QUALCOMM Incorporated  
 72: KARCZEWICZ, Marta, CHEN, Yi-Wen, CHIEN, Wei-Jung, CHUANG, Hsiao-Chiang, LI, Xiang, CHEN, Jianle

33: US 31: 62/475,177 32: 2017-03-22  
**54: CONSTRAINING MOTION VECTOR INFORMATION DERIVED BY DECODER-SIDE MOTION VECTOR DERIVATION**

00: -  
 Techniques related to decoder-side motion vector derivation (DMVD) are described. For example, this disclosure describes techniques related to applying one or more constraints to motion information, such as a motion vector (MV) derived by DMVD, and/or a MV difference between an initial MV and an MV derived by DMVD. When the constraint is applied to the DMVD, in certain examples, only the derived motion information which meets the constraint is regarded as valid motion information. Conditions may be placed on the constraints.

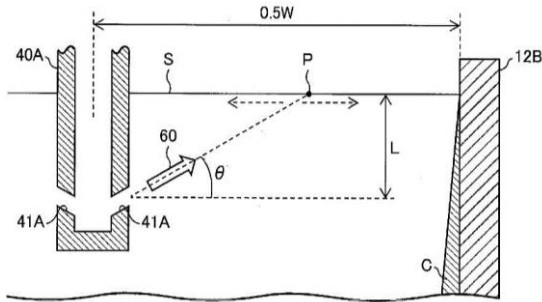


21: 2019/06308. 22: 25/09/2019. 43: 3/19/2021  
 51: B22D  
 71: NIPPON STEEL STAINLESS STEEL CORPORATION  
 72: HONDA, Yuki, MORIKAWA, Hiroshi, SUZUKI, Yasuhiro  
 33: JP 31: PCT/JP2017/024528 32: 2017-07-04  
 33: JP 31: 2017-040658 32: 2018-03-03

**54: CONTINUOUS CASTING METHOD AND CONTINUOUS CASTING DEVICE**

00: -  
 The present invention effectively inhibits foreign matter from being trapped on a solidifying shell. Provided is a continuous casting method using a continuous casting device, the method including: a discharge step for discharging molten steel from

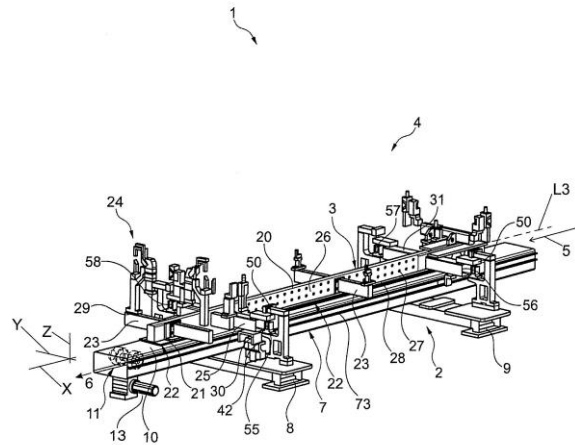
discharge holes (41A); and a stirring step for stirring the molten steel such that an arrival position (P) of the molten steel when the molten steel discharged in the discharge step goes in a straight line is the surface (S) of the molten steel in a mold, and a line segment connecting the discharge hole (41A) and the arrival position (P) is entirely included in a stirring area.



21: 2019/06317. 22: 9/25/2019. 43: 2/26/2021  
 51: B62D  
 71: EBZ Systec GmbH  
 72: STADLER, Rainer  
 33: DE 31: 10 2017 107 822.3 32: 2017-04-11  
**54: CONVEYOR DEVICE FOR AN AUTOMATED PRODUCTION LINE, COMPONENT CARRIER CARRIAGE FOR A CONVEYOR DEVICE, AND METHOD FOR OPERATING A CONVEYOR DEVICE**

00: -  
 The invention relates to a conveyor device (1) for an automated production line, comprising at least one conveyor belt (2) along a course of the production line, at least one component carrier carriage (3) for transporting components or component groups, particularly vehicle bodies, in said production line, wherein the production line comprises transfer sections and work stations (4) and the conveyor belt (2) passes through these along the course of the production line. According to the invention, the conveyor belt (2) is designed as a single-track belt (7), preferably a single-track belt (7) extending along a central longitudinal axis (L3) of the component carrier carriage (3), and the conveyor belt (2) comprises a plurality of rollers (11) which are driven at least partially by drives (13), the component carrier carriage (3) comprising at least one frictional surface (22) by means of which the component carrier carriage (3) can be driven by said rollers (11)

of the conveyor belt (2), and in particular can be moved along the conveyor belt (2) dynamically.

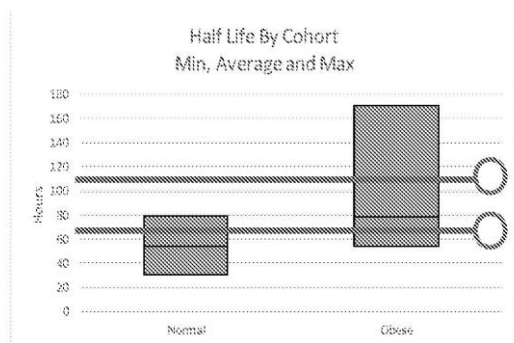


21: 2019/06319. 22: 9/25/2019. 43: 3/15/2021  
 51: A61K; A61P; C07D

71: Rundle Research, LLC  
 72: SRINIVASAN, Sundar, CHOW, Christina  
 33: US 31: 15/474,675 32: 2017-03-30

**54: METHODS OF TREATING DEPRESSION**  
 00: -

The present disclosure relates to methods of transitioning patients or obese patients being treated with vortioxetine to treatment with a monoamine oxidase inhibitor (MAOI). The methods provided include delaying administration of the MAOI for certain time periods after stopping administration of vortioxetine. The patients or obese patients possess various capabilities of metabolizing vortioxetine. The current disclosure also includes methods of switching patients to a MAOI intended to treat psychiatric disorders while being treated with vortioxetine. The methods disclosed further comprise determining vortioxetine plasma clearance and washout time for patients with different body fat status and/or different CYP2D6 metabolizer status.



21: 2019/06343. 22: 26/09/2019. 43: 2/26/2021

51: B65D

71: PIECH, Gregor, Anton

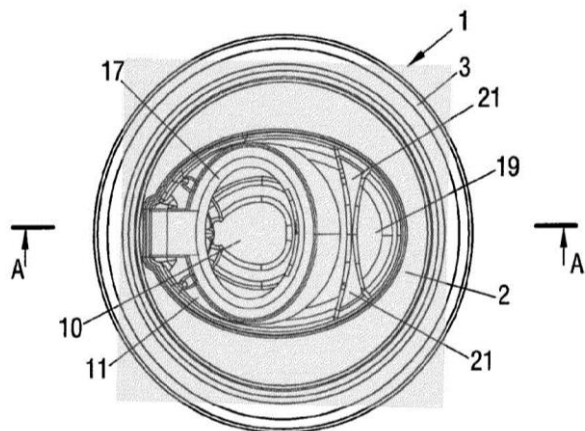
72: PIECH, Gregor, Anton

33: EP 31: 17165040.1 32: 2017-04-05

#### 54: METALLIC CAN LID

00: -

Disclosed is a re-sealable can lid, the opening of the lid not involving the separation of a metal surface leading to swarf formation and the re-sealing of said lid guaranteeing the required air tightness, even in the event of a pressure build-up in the container. The lid has high functional reliability and can be manufactured particularly economically.



21: 2019/06345. 22: 26/09/2019. 43: 2/26/2021

51: B01J; C07C

71: EXXONMOBIL CHEMICAL PATENTS INC.

72: IDE, Matthew, S., LEVIN, Doron, WEIGEL, Scott, J., LOVELESS, Brett, T., BEECKMAN, Jean, W.

33: US 31: 62/478,237 32: 2017-03-29

33: US 31: 62/478,340 32: 2017-03-29

33: EP 31: 17174274.5 32: 2017-06-02

#### 54: METHODS FOR REMOVING IMPURITIES FROM A HYDROCARBON STREAM AND THEIR USE IN AROMATIC ALKYLATION PROCESSES

00: -

Methods for removing impurities from a hydrocarbon stream using a guard bed material are disclosed. The guard bed material includes compositions which comprises a zeolite and a mesoporous support or binder. The zeolite has a Constraint Index of less than 3. The mesoporous support or binder comprises a mesoporous metal oxide having a particle diameter of greater than or equal to 20  $\mu\text{m}$  at 50% of the cumulative pore size distribution ( $d_{50}$ ), a pore volume of less than 1 cc/g, and an alumina content of greater than 75%, by weight. Also disclosed are processes for producing mono-alkylated aromatic compounds (e.g., ethylbenzene or cumene) using impure feed streams that are treated by the disclosed methods to remove impurities which act as catalyst poisons to downstream alkylation and/or transalkylation catalysts.

21: 2019/06358. 22: 9/26/2019. 43: 2/26/2021

51: A61K; C07K

71: F. Hoffmann-La Roche AG

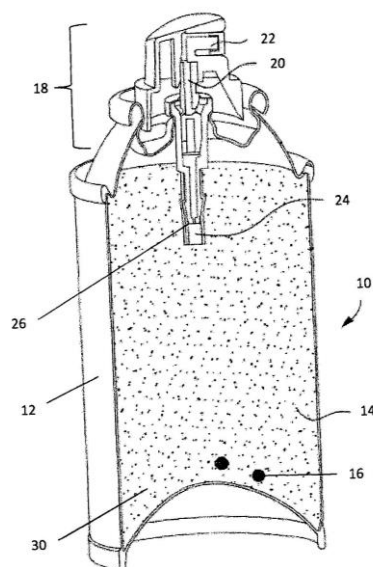
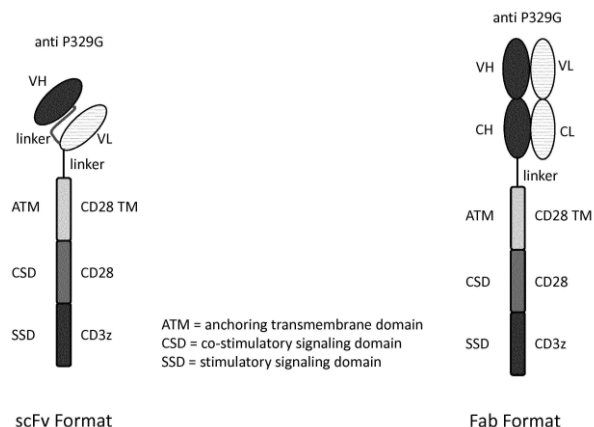
72: STUBENRAUCH, Kay-Gunnar, MOESSNER, Ekkehard, KLEIN, Christian, DAROWSKI, Diana

33: EP(CH) 31: 17163090.8 32: 2017-03-27

#### 54: IMPROVED ANTIGEN BINDING RECEPTORS

00: -

The present disclosure generally relates to antigen binding receptors capable of specific binding to mutated Fc domains with reduced Fc receptor binding and T cells expressing these antigen binding receptors. More precisely the application deals with an engineered Fc receptor consisting of a CD3 intracellular domain coupled to CD28 internal and transmembrane domains. The extracellular part preferably consists of an anti Pro329Gly antibody variable domain. Uses in cancer therapy and diagnosis



21: 2019/06387. 22: 9/27/2019. 43: 3/19/2021  
51: B01J; F17C  
71: Simply Breathe Ltd  
72: BARRATT, Joe Michael, SYGROVE, Matthew James  
33: GB 31: 1703286.3 32: 2017-03-01  
**54: IMPROVEMENTS IN GAS STORAGE DEVICES**  
00: -

The invention relates to a device (10) for dispensing oxygen (30) under pressure. The device comprises a canister (12) filled with activated carbon (14) and oxygen (30) at a pressure of between 4 and 20 barg, when measured at room temperature. The canister is sealed with a valve assembly (18) allowing release of oxygen from the canister on actuation of the valve assembly. To ensure the activated carbon does not react with the oxygen generating carbon monoxide the device further comprises a catalyst (16) that prevents or significantly reduces the presence of carbon monoxide. In a further aspect there is a device (10) for dispensing a gas (30) under pressure which device comprises a canister (12) with a volume of 1 l or less filled with activated carbon (14) to adsorb the gas under a pressure of between 4 and 20 barg when measured at room temperature. The canister (12) is sealed with a valve assembly (18) crimped to the canister over a seal allowing release of the gas (30) from the canister on actuation of the valve assembly, wherein the gas is carbon dioxide, oxygen, nitrogen or air, and the canister is a steel canister. In a particularly favoured embodiment the device is filled with carbon dioxide and includes a high volume discharge valve making it useful as a pet behaviour correction device.

21: 2019/06395. 22: 9/27/2019. 43: 3/5/2021  
51: A61K; A61P; C07D

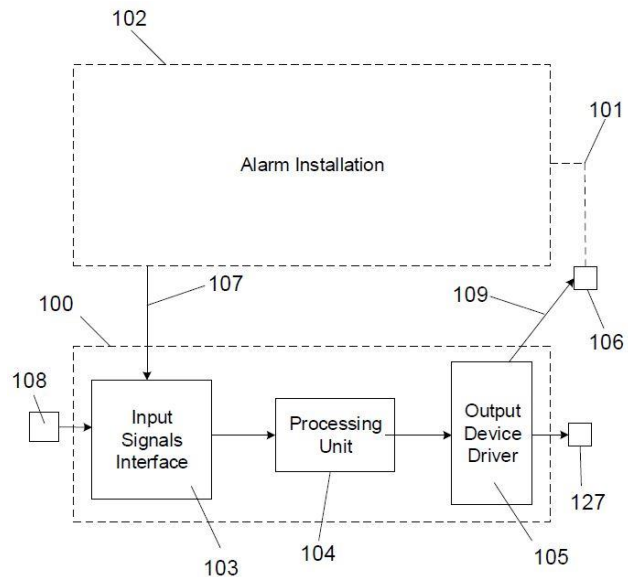
71: Janssen Pharmaceuticals, Inc., Katholieke Universiteit Leuven  
72: KESTELEYN, Bart Rudolf Romanie, BONFANTI, Jean-François, COESEMANS, Erwin, RABOISSON, Pierre Jean-Marie Bernard, MARCHAND, Arnaud Didier M., BARDIOT, Dorothee Alice Marie-Eve  
33: EP(BE) 31: 17164048.5 32: 2017-03-31  
**54: SUBSTITUTED INDOLINE DERIVATIVES AS DENGUE VIRAL REPLICATION INHIBITORS**  
00: -

The present invention relates to substituted indoline derivatives, methods to prevent or treat dengue viral infections by using said compounds and also relates to said compounds for use as a medicine, more preferably for use as a medicine to treat or prevent dengue viral infections. The present invention furthermore relates to pharmaceutical compositions or combination preparations of the compounds, to the compositions or preparations for use as a medicine, more preferably for the prevention or treatment of dengue viral infections. The invention also relates to processes for preparation of the compounds.

21: 2019/06436. 22: 30/09/2019. 43: 4/14/2021  
51: G08B  
71: DE VILLIERS, Marius de Wet  
72: DE VILLIERS, Marius de Wet  
33: GB 31: 1705244.0 32: 2017-03-31

**54: AN ACCESSORY FOR PROVIDING A DYNAMICALLY CHANGEABLE ALARM SIGNAL IN AN ALARM INSTALLATION**

00: -  
 An accessory (100) for an alarm installation (102) is provided. The alarm installation (102) comprises at least one automatic sensor (107) and an alarm control unit adapted to detect when an automatic sensor has been triggered and provide a first output (109) for activating a first warning signal generated by a first signal emitting device (106). The alarm control unit may be adapted to monitor the trigger event. The accessory (100) receives either a second output from the alarm installation or an output from a manually operable trigger (108) based on personal observation as a second input to the accessory (100) which activates a second warning signal generated by the first (106) or a second signal emitting device (127). The second warning signal is distinguishable from the first signal and is configured to have at least one characteristic that conveys that a situation or location is requiring urgent attention.



21: 2019/06552. 22: 10/4/2019. 43: 3/19/2021  
 51: A61N  
 71: Akulight AS  
 72: SOLBERG, Jan Fredrik  
 33: NO 31: 20170329 32: 2017-03-06  
**54: OPTICAL THERAPEUTIC DEVICE**

00: -  
 An optical therapeutic device comprising a front body portion, a light source provided in said front body portion, a spherical, translucent quartz lens

provided in front of said light source, a bezel provided on said front body portion and configured to hold said spherical, translucent quartz lens such that a portion of the quartz lens protrudes outside the rim of the bezel. Also described is a method of using the device to apply light stimulation to acupuncture points of a human or animal body and a method for manufacturing the device.

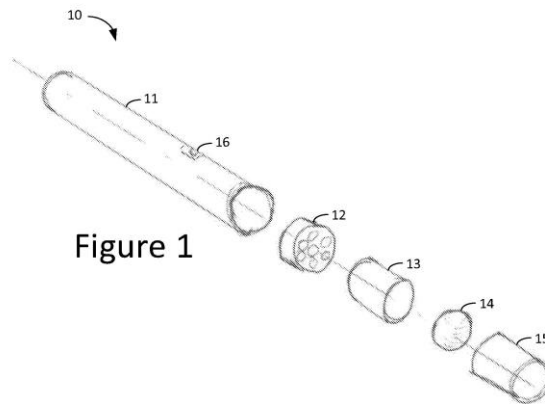
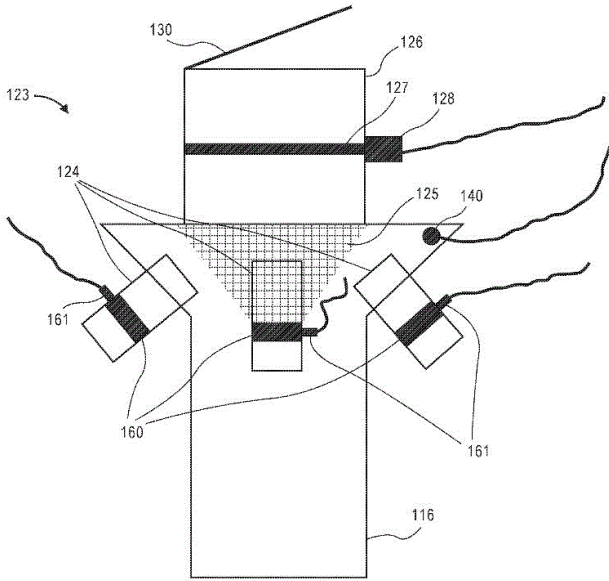


Figure 1

21: 2019/06579. 22: 07/10/2019. 43: 3/19/2021  
 51: A01C  
 71: PRECISION PLANTING LLC  
 72: FRANK, William, PLATTNER, Chad, NOREEN, Trenton  
 33: US 31: 62/502,432 32: 2017-05-05  
**54: CONTROL SYSTEM FOR AIR SEEDER VENTING SYSTEM**

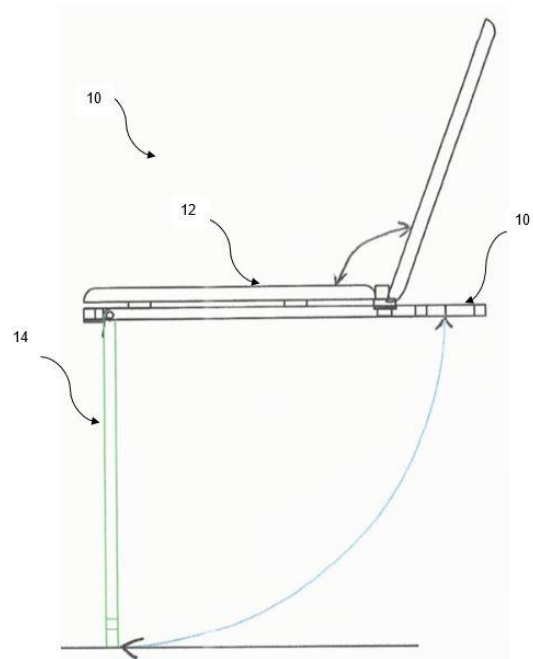
00: -  
 In one embodiment, an air seeder tower includes a valve with an actuator, and a closed loop feedback control with a sensor to control actuation of the valve to control air flow out of the air seeder vent tower.



21: 2019/06717. 22: 10/11/2019. 43: 8/5/2020  
 51: A47K; B60R  
 71: OLIVIER, David Abraham  
 72: OLIVIER, David Abraham

**54: SANITARY DEVICE**

00: -  
 A sanitary device used for the disposal of human urine or faeces is provided. The device is adapted for use by a person next to a vehicle and having a seat and an elongate support with a hinged end and a ground engaging end opposite one another, the sanitary device may be configured to be selectively transformed from a stow-away configuration in which the seat is juxtaposed with the hinged- and ground engaging ends; and an, in use, suspended configuration, in which the seat is connected to the vehicle and extends radially away from the vehicle such that a person can be seated adjacent the vehicle on the seat with the seat being suspended a distance from the ground next to the vehicle while being held in position by the elongate support.



21: 2019/06724. 22: 11/10/2019. 43: 1/27/2021  
 51: B08B; F04B; F16K  
 71: BALLESTEROS, Jonathan  
 72: BALLESTEROS, Jonathan  
 33: US 31: 62/605,425 32: 2017-08-14  
 33: US 31: 62/707,592 32: 2017-11-09  
 33: AU 31: 2017901021 32: 2017-03-22  
 33: AU 31: 2017901022 32: 2017-03-23  
 33: AU 31: 2017902571 32: 2017-07-03

**54: LOW-FLOW FLUID DELIVERY SYSTEM AND LOW-FLOW DEVICES THEREFOR**

00: -  
 Low-flow fluid delivery system. The system includes a pump assembly comprising a pump mechanism having an inlet side and an outlet side, wherein the inlet side is configured to fluidly couple to a fluid supply. The system further includes a pressure sensor operably coupled to the outlet side and configured to measure a fluid pressure at the outlet side. An actuator mechanically is coupled to the pump mechanism to drive the pump mechanism. A controller is coupled to the pressure sensor, wherein the controller is configured with a preselected set of fluid pressure set points and one or more preselected sets of fluid flow rates and wherein the controller is further configured to control the actuator to increase a fluid flow rate to a first flow rate in the preselected set of fluid flow rates when the fluid pressure at the outlet side falls to a lower one of

corresponding fluid pressure set point in the preselected set of fluid pressure set points. The controller is further configured to control the actuator to reduce the fluid flow rate to a second fluid flow rate in the preselected set of fluid flow rates, when the fluid pressure at the outlet side rises to an upper one of a corresponding fluid pressure set point in the preselected set of fluid pressure set points.

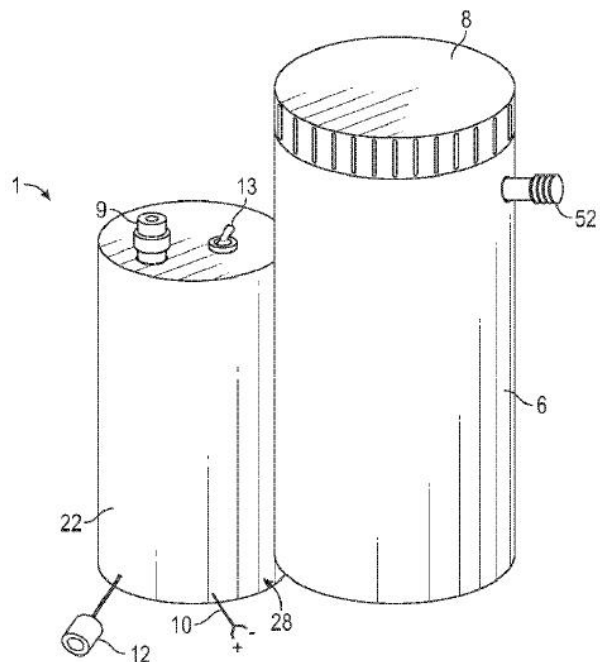


FIG. 1

21: 2019/06759. 22: 14/10/2019. 43: 2/26/2021  
51: A01H; C12Q  
71: SEMINIS VEGETABLE SEEDS, INC  
72: ALLERSMA, Anton, Pieter, AVNER, Diane, Kerr, BERKE, Terry, ECKARD, Jonathan, Tyler, JUST, Brian, J.

33: US 31: 62/490,554 32: 2017-04-26  
**54: PEPPER PLANTS WITH IMPROVED PEST RESISTANCE**

00: -  
Pepper plants exhibiting resistance to root knot nematode species are provided, together with methods of producing, identifying, or selecting plants or germplasm with a root knot nematode resistance phenotype. Such plants include pepper plants comprising introgressed genomic regions conferring pest resistance. Compositions, including novel polymorphic markers for detecting plants comprising

introgressed pest resistance alleles, are further provided.

21: 2019/06875. 22: 10/18/2019. 43: 3/5/2021  
51: A61K; A61P; C07D  
71: AstraZeneca AB  
72: NILSSON, Karl Magnus, ÅSTRAND, Annika Birgitta Margareta, BERGGREN, Anna Ingrid Kristina, JOHANSSON, Johan R., LEPISTÖ, Matti Juhani, KAWATKAR, Sameer Pralhad, SU, Qibin, KETTLE, Jason Grant  
33: US 31: 62/447,057 32: 2017-01-17  
**54: JAK1 SELECTIVE INHIBITORS**

00: -  
Disclosed herein are compounds of Formula (I), and pharmaceutically acceptable salts thereof, wherein R.

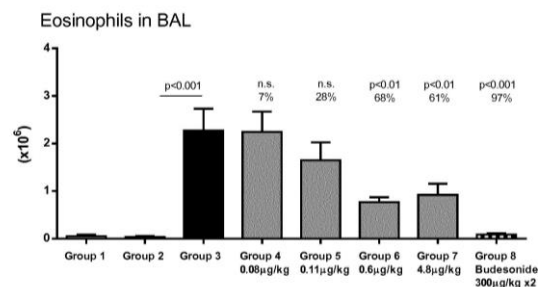
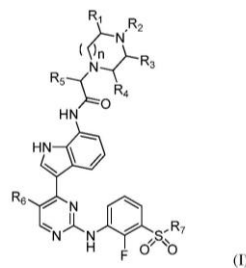


FIG. 3



21: 2019/07013. 22: 24/10/2019. 43: 2/26/2021  
51: C08L  
71: BOREALIS AG  
72: LUMMERSTORFER, Thomas, STOCKREITER, Wolfgang, JERABEK, Michael, HOCHRADL, Stefan, TRANNINGER, Michael  
33: EP 31: 17183650.5 32: 2017-07-28  
**54: LONG CARBON FIBRE REINFORCED POLYPROPYLENE COMPOSITION**  
00: -  
Polypropylene composition comprising a polypropylene base material, a carbon fibre and an adhesion promoter with an excellent impact/stiffness



balance, its preparation, articles comprising the composition and the use of the composition.

21: 2019/07026. 22: 10/24/2019. 43: 3/19/2021  
51: C03C

71: Saint-Gobain Glass France  
72: DEVYS, Lucie, GUILLEMOT, François  
33: FR 31: 1753773 32: 2017-04-28

**54: ITEM PROTECTED BY A ROUGH  
TEMPORARY PROTECTIVE COVER**

00: -

The invention relates to an item comprising a glass substrate comprising two main faces defining two main surfaces separated by edges and a temporary protective layer comprising an organic polymer matrix deposited on at least one portion of a main surface of the glass substrate, characterised in that the temporary protective layer has a rough surface defined by a surface roughness parameter Sa corresponding to the arithmetical mean height of the profile of the surface: more than 0.2 µm.

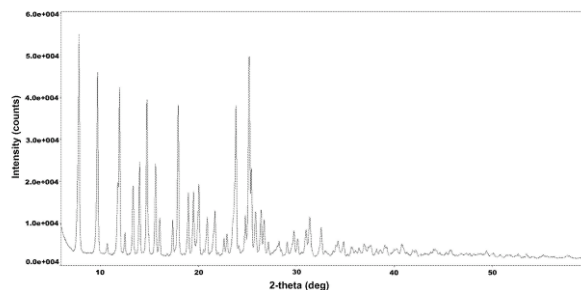
21: 2019/07027. 22: 10/24/2019. 43: 3/19/2021  
51: A01N

71: Arysta Lifescience Inc.  
72: PRASAD, Vic, LARSON, Christopher L., GIBB, Cameron Seath  
33: US 31: 15/879,073 32: 2018-01-24

**54: FLUCARBAZONE SODIUM HEMIHYDRATE  
METHOD AND COMPOSITION**

00: -

A flucarbazone sodium hemihydrate method and composition. A method of suppressing growth of grass and broadleaf weeds is described including applying to said weeds at least one dust-free composition comprising flucarbazone sodium-hemihydrate as an active ingredient. A method for preparing flucarbazone sodium-hemihydrate is also described including treating 4,5-dihydro-3-methoxy-4-methyl-5-oxo-N-[[2-(trifluoromethoxy)phenyl]sulfonyl]-1H-1,2,4-triazole-1-carboxamide (MSU) with aqueous sodium hydroxide under pH-controlled conditions; and confirming that a hemihydrate flucarbazone sodium has been obtained.



21: 2019/07091. 22: 10/28/2019. 43: 3/19/2021  
51: A61K; A61P; C07D; C07F

71: Calithera Biosciences, Inc.  
72: SJOGREN, Eric B., LI, Jim, VAN ZANDT, Michael, WHITEHOUSE, Darren  
33: US 31: 62/248,632 32: 2015-10-30

**54: COMPOSITIONS AND METHODS FOR  
INHIBITING ARGINASE ACTIVITY**

00: -

The invention relates to a novel class of compounds that exhibit activity inhibitory activity toward arginase, and pharmaceutical compositions comprising the compounds of the invention. Also provided herein are methods of treating cancer with the arginase inhibitors of the invention.

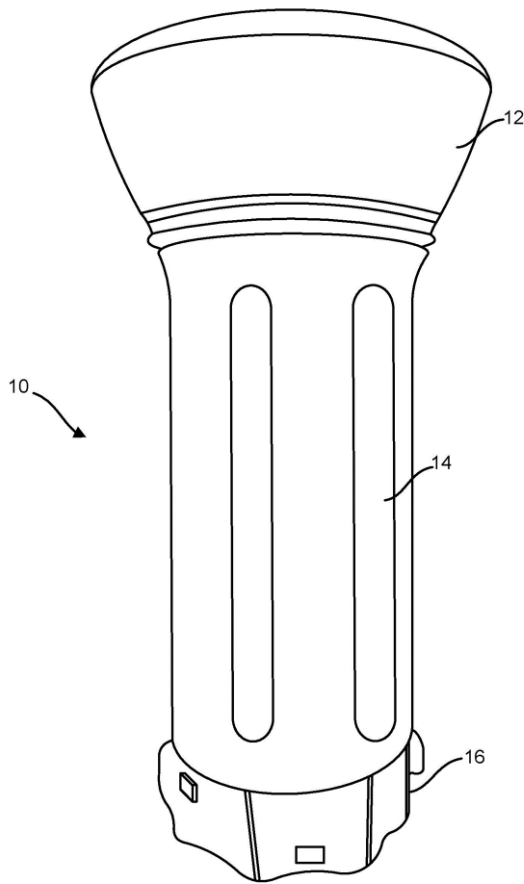
21: 2019/07108. 22: 10/28/2019. 43: 3/16/2021  
51: B65D; E04H

71: Innovative Water Care, LLC  
72: SIMONSEN, Frederick  
33: US 31: 62/504,593 32: 2017-05-11

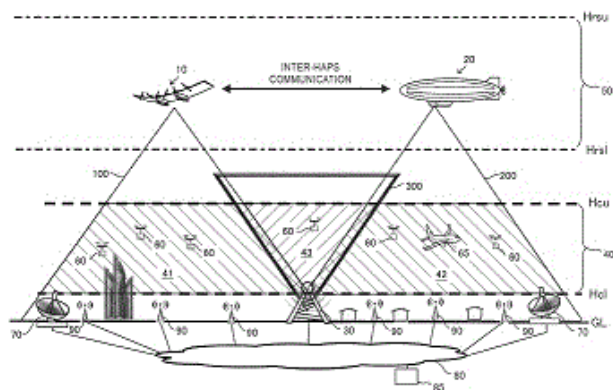
**54: FLOATING POOL SANITIZER WITH LOCKING  
DEVICE**

00: -

A floating chemical dispenser is disclosed that is configured to dispense a chemical into a body of water, such as pool water. The chemical dispenser includes a float attached to a container. The container contains a chemical composition, such as a chlorine source. The container also defines an aperture that allows water to enter the container at a controlled rate. When the dispenser is placed in a body of water, water enters the container and gradually dissolves and releases the chemical. An end cap is positioned on the container and rotates between a closed position and at least one chemical dispensing position. The end cap further includes a locking device that locks the end cap into a closed position to prevent inadvertent release of the chemical.



The communication system comprises a plurality of radio relay for relaying a radio communication between a terrestrial base station and a terminal apparatus. The plurality of radio relay stations include a plurality of first radio relay stations capable of communicating with each other, each first radio relay station being provided in a floating object controlled to be located in a floating airspace with an altitude less than or equal to 100 [km] by an autonomous control or an external control, and a second radio relay station for relaying a communication between the plurality of first radio relay stations and the terrestrial base station, the second radio relay station being provided in a floating object moored on the ground or the sea so as to be located in a floating airspace with an altitude less than or equal to 100 [km].



21: 2019/07224. 22: 30/10/2019. 43: 3/5/2021  
 51: H04W; B64C; B64D; B64F  
 71: SOFTBANK CORP.  
 72: MIYAKAWA, JUNICHI, KIMURA, KIYOSHI  
 33: JP 31: 2017-095412 32: 2017-05-12  
**54: INTER-HAPS COMMUNICATION AND HIGH-CAPACITY MULTI-CELL HAPS FOR CONSTRUCTING THREE-DIMENSIONALIZED NETWORK OF FIFTH- GENERATION COMMUNICATION**

00: -  
 A highly robust communication system capable of stably realizing a three-dimensionalized network over a wide area can be provided, in which a propagation delay is low, a simultaneous connection with a large number of terminals in a wide-range area and a high-speed communication can be performed, and a system capacity per unit area is large, in radio communications with terminal apparatuses including devices for the IoT, in mobile communications of the fifth generation or the like.

21: 2019/07313. 22: 04/11/2019. 43: 3/5/2021  
 51: A61K; C07K  
 71: DR. REDDY'S LABORATORIES LIMITED  
 72: JAYARAMAN, Murali, NAIR, Pravin, KAUR, Navneet, T, Deepak  
 33: IN 31: 201741013746 32: 2017-04-18  
**54: STABLE LIQUID PHARMACEUTICAL COMPOSITION**

00: -  
 The present invention provides a stable liquid formulation of an antibody in phosphate-amino acid based dual buffer system. The antibody formulated in phosphate-amino acid based dual buffer system imparts optimum stability to the antibody, at lower as well as higher concentrations. Further, the antibody formulated in phosphate-amino acid based buffer system has low viscosity and is suitable for therapeutic administration of high concentrations of antibody.

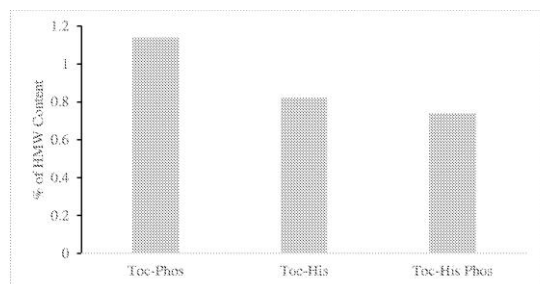


Figure I (a)

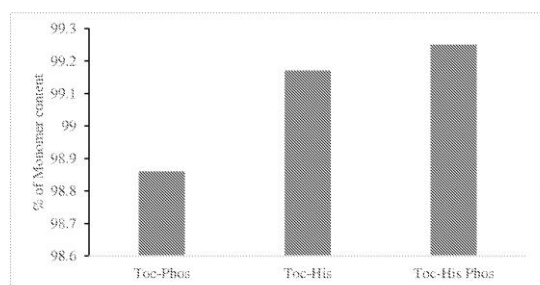
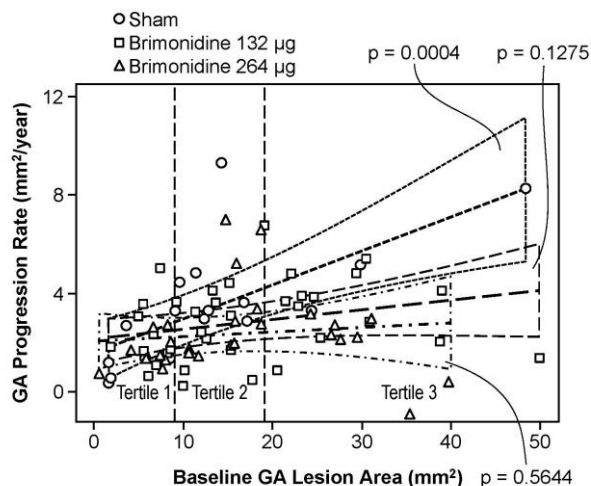


Figure I (b)



21: 2019/07329. 22: 05/11/2019. 43: 2/26/2021  
51: A61F; A61K; A61P

71: ALLERGAN, INC.  
72: KERR, Kevin, LOPEZ, Francisco  
33: US 31: 62/502,375 32: 2017-05-05  
54: **BRIMONIDINE FOR USE AND CLINICAL TRIAL DESIGN FOR GEOGRAPHIC ATROPHY DUE TO AGE-RELATED MACULAR DEGENERATION**

21: 2019/07359. 22: 06/11/2019. 43: 2/26/2021

51: C07D

71: BAYER AKTIENGESELLSCHAFT, BAYER CROSCIENCE AKTIENGESELLSCHAFT

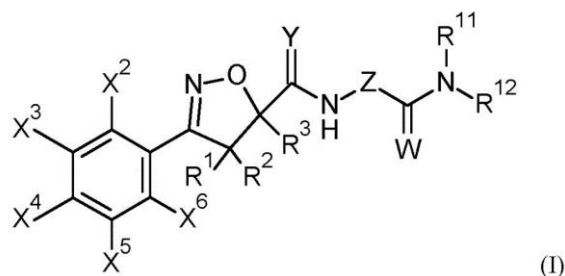
72: PETERS, Olaf HAAF, Klaus, Bernhard  
BOJACK, Guido LAW, Katherine, Rose  
MACHETTIRA, Anu, Bheemaiah DIETRICH,  
Hansjörg GATZWEILER, Elmar ROSINGER,  
Christopher, Hugh ASMUS, Elisabeth  
33: EP 31: 17175780.0 32: 2017-06-13  
54: **HERBICIDALLY ACTIVE 3-PHENYLISOXAZOLINE-5-CARBOXAMIDES OF TETRAHYDRO AND DIHYDROFURAN CARBOXAMIDES**

00: -

The invention relates to 3-phenylisoxazoline-5-carboxamides of tetrahydro and dihydrofuran carboxamides of general formula (I) and to their agrochemically compatible salts (I) as well as to the use thereof in the field of plant protection.

00: -

Methods of treating or slowing the growth of a lesion associated with geographic atrophy and methods of evaluating a drug (brimonidine) or agent for use in treating, reducing the progression of or slowing the growth of a lesion associated with geographic atrophy.



21: 2019/07363. 22: 11/6/2019. 43: 3/12/2021

51: F16L

71: Public Joint-Stock Company "Machine-Building Plant "Zio-Podolsk", Joint Stock Company "Science and Innovations"

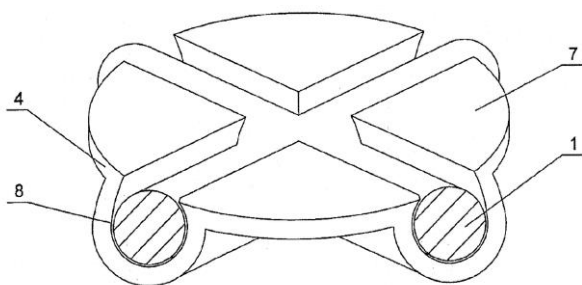
72: KRAINOV, Boris Vladimirovich

33: RU 31: 2017111880 32: 2017-04-07

**54: REINFORCED REMOVABLE THERMAL INSULATION**

00: -

A reinforced removable thermal insulation comprises thermal insulation blocks which are conjoined to each other and are arranged on the outer surface of an apparatus requiring insulation. A thermal insulation block is made of a thermal insulation material and consists of a reinforcing skeleton structure encased on all sides by stainless steel facing sheets. The thermal insulation blocks are mutually and detachably connected to each other by means of a snap lock. Using the proposed snap lock results in guaranteed tensioning, thus preventing expansion gaps from arising between the lateral faces of the thermal insulation blocks at the inaccessible inner bases of the thermal insulation during fluctuations in temperature, and obviating the need for adjustment operations and the welding of tensioned locks on the surface of blocks in situ during installation and assembly operations on the apparatus. The thermal insulation blocks allow a stainless steel weight saving, a 2.56 increase in the strength of the thermal insulation blocks, and a significant reduction in manufacturing costs.



21: 2019/07366. 22: 11/6/2019. 43: 3/19/2021

51: A01N; A01P

71: Syngenta Participations AG

72: BELL, Gordon Alastair

33: GB 31: 1707930.2 32: 2017-05-17

**54: LACTONES AS SOLVENTS IN AGROCHEMICAL FORMULATIONS**

00: -

The present invention relates to the use of a water soluble lactone-derivative as a solvent in agrochemical formulations, as well as to such formulations per se in both concentrated and dilute form, and methods of making such formulations. In

particular the invention relates to such formulations (and more specifically still, emulsifiable concentrates and/or emulsions or microemulsions) comprising a lactone derivative having six-carbon atoms and at least one pesticidally active agrochemical ingredient selected from the group consisting of a herbicide, safener, insecticide, fungicide, nematocide, molluscicide, and a plant growth regulator.

21: 2019/07443. 22: 11/11/2019. 43: 4/30/2021

51: G06Q

71: PAMBOBYTE (PTY) LTD

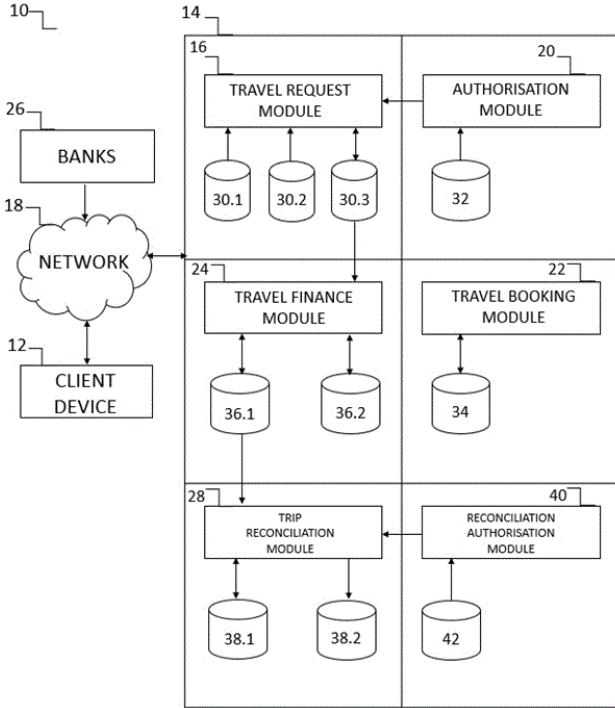
72: PIENAAR, Samuel, Petrus

33: ZA 31: 2019/05825 32: 2019-09-03

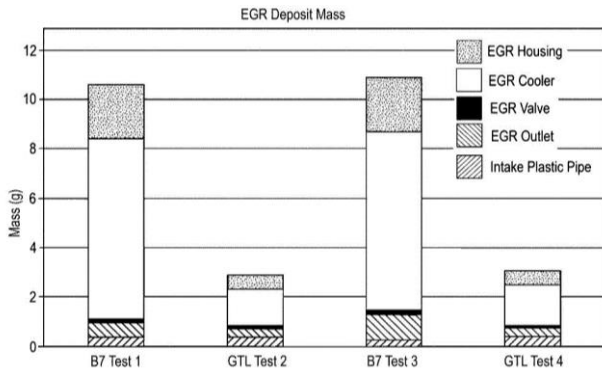
**54: A METHOD AND SYSTEM FOR ADMINISTRATING TRAVEL EXPENSES AND RELATED ACTIVITIES**

00: -

A system for administering travel expenses 10 and related activities includes an input interface for facilitating input of travel request data for a future trip by an employee/client. The input interface is accessible via client device 12. A travel expense administration unit in the form of a server 14 includes a travel request module 16 for receiving travel request data entered at the input interface, the travel request data being transmitted to the travel request module 16 via a communications network 18.



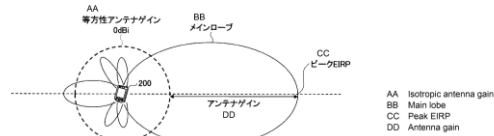
21: 2019/07450. 22: 11/11/2019. 43: 2/26/2021  
 51: C10L  
 71: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V.  
 72: GEE, Michael, CLARK, Richard, Hugh, WILLIAMS, Rodney, Glyn  
 33: EP 31: 17179423.3 32: 2017-07-03  
**54: USE OF A PARAFFINIC GASOIL**  
 00: -  
 Use of a paraffinic gasoil in a diesel fuel composition for reducing the build up of deposits in an Exhaust Gas Recirculation (EGR) system of a compression ignition internal combustion engine.



21: 2019/07453. 22: 11/11/2019. 43: 3/3/2021  
 51: H04B; H04W  
 71: NTT DOCOMO, INC.

72: ANDOU, Kei  
 33: JP 31: 2017-151737 32: 2017-08-04  
**54: USER EQUIPMENT AND BASE STATION APPARATUS**

00: -  
 This user device communicates with a base station device, and comprises: a transmission unit that uses a directional antenna to undertake beamforming and transmits to the base station device; and a control unit that controls the maximum transmission power in the beamforming transmission, on the basis of the gain of the antenna.



21: 2019/07518. 22: 13/11/2019. 43: 4/23/2021  
 51: C21D; C22C  
 71: ARCELORMITTAL

72: Bernard RESIAK (French Citizen)  
 33: IB 31: PCT/IB2017/053004 32: 2017-05-22  
**54: METHOD FOR PRODUCING A STEEL PART AND CORRESPONDING STEEL PART**

00: -  
 The method comprises casting a steel having a composition comprising: 0.10% = C = 0.35%, 0.8% = Si = 2.0%, 1.8% = Mn = 2.5%, P = 0.1 %, 0% = S = 0.4%, 0% = Al = 1.0%, N = 0.015%, 0% = Mo = 0.4%, 0.02% = Nb = 0.08%, 0.02% = Ti = 0.05%, 0.001 % = B = 0.005%, 0.5 % = Cr = 1.8%, 0% = V = 0.5%, 0% = Ni = 0.5%, to obtain a semi-product, hot rolling the semi-product at a hot rolling starting temperature higher than 1000°C and cooling the product through air to room temperature to obtain a hot rolled steel part having a microstructure consisting of 70% to 90% of bainite, 5% to 25% of M/A compounds and at most 25% of martensite, the bainite and the M/A compounds containing retained austenite such that the total content of retained austenite in the steel is comprised between 5% and 25%, the carbon content of the retained austenite being comprised between 0.8% and 1.5%.

21: 2019/07538. 22: 11/14/2019. 43: 2/26/2021  
 51: B63G; G01V

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

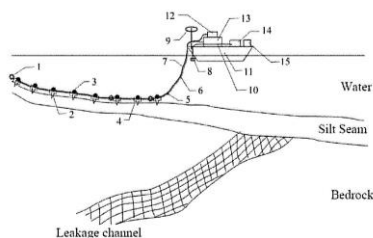
72: ZHANG, Pingsong, OU, Yuanchao, SUN, Binyang, LI, Shenglin, LIU, Chang, XU, Shiang

33: CN 31: 201911007529.5 32: 2019-10-22

**54: TOWED UNDERWATER GEOELECTRIC DETECTION SYSTEM AND METHOD**

00: -

The present invention discloses a towed underwater geoelectric detection system and method, and the system comprises: underwater cable, simple underwater electrodes, water pressure measurement sensing units, a cable floating and sinking unit, an underwater GPS positioning system, an inflator, an electrical data collection and storage module and a data processing module, wherein the water cable wire is fixed with the cable floating and sinking unit, and the cable floating and sinking unit is connected with the inflator; the underwater cable is connected with the electrical data collection and storage module and the data processing module in sequence; the simple underwater electrodes and the water pressure measurement sensing units are fixed on the underwater cable; the underwater GPS positioning system comprises transponders, a shipborne transducer and a GPS; the transponder is fixed at a front simple underwater electrode, a middle simple underwater electrode and a rear simple underwater electrode on the underwater cable; the transponders are wirelessly connected with the shipborne transducer; and the GPS is fixed on a towboat. A towed underwater geoelectric detection system and method provided in the present invention systematically solves the insufficiencies and problems at present existing in the underwater geoelectric detection, and has a better application prospect.



21: 2019/07558. 22: 08/11/2019. 43: 2/26/2021  
51: A01N; C07D

71: BAYER AKTIENGESELLSCHAFT, BAYER CROPS SCIENCE AKTIENGESELLSCHAFT  
72: PETERS, Olaf, HAAF, Klaus, Bernhard LINDELL, Stephen, David, BOJACK, Guido LAW, Katherine, Rose, MACHETTIRA, Anu, Bheemaiah, DIETRICH, Hansjörg, GATZWEILER, Elmar, ROSINGER, Christopher, Hugh  
33: EP 31: 17175777.6 32: 2017-06-13

**54: HERBICIDALLY ACTIVE 3-PHENYLISOXAZOLINE-5-CARBOXAMIDES OF TETRAHYDRO AND DIHYDROFURAN CARBOXYLIC ACIDS AND ESTERS**

00: -

The invention relates to 3-phenylisoxazoline-5-carboxamides of tetrahydro and dihydrofuran carboxylic acids and esters of the general formula (I) and their agro-chemically acceptable salts and to the use thereof in the field of plant protection.

21: 2019/07578. 22: 15/11/2019. 43: 2/26/2021  
51: A01N; A01P

71: INSTITUTE OF BAST FIBER CROPS, CHINESE ACADEMY OF AGRICULTURAL SCIENCES

72: QIU, Caisheng, WANG, Yufu, GUO, Yuan, LONG, Songhua, WANG, Hui, HAO, Dongmei, ZHONG, Guoqian, FAN, Zhifang

33: CN 31: 2017110974924.5 32: 2017-10-19

**54: METHOD FOR DEFOLIATING HEMP, DEFOLIANT AND APPLICATION THEREOF**

00: -

The present application relates to a method for defoliating hemp, a defoliant and application thereof. The method for defoliating hemp according to the present application comprises applying 2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine before harvesting hemp, the amount of application of 2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine being 20-450 g of active substances per mu, preferably 90 g of active substances per mu. The method according to the present application has the advantages of high efficiency, low toxicity, no impairment to the quality of hemp fiber, small amount of application, and economical and practical properties.

21: 2019/07607. 22: 18/11/2019. 43: 3/19/2021  
51: C07B; C07D

71: DEUTSCHES KREBSFORSCHUNGSZENTRUM, RUPRECHT-KARLS-UNIVERSITÄT HEIDELBERG

72: EDER, MATTHIAS, KOPKA, KLAUS, SCHÄFER, MARTIN, BAUDER-WÜST, ULRIKE, HABERKORN, UWE, EISENHUT, MICHAEL, MIER, WALTER, BENESOVA, MARTINA

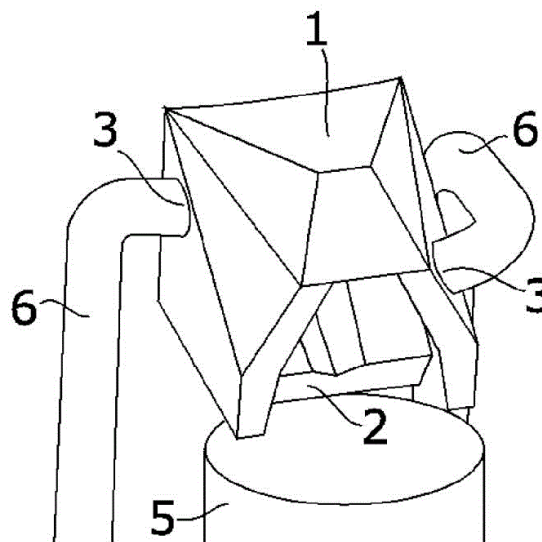
33: EP 31: 13004991.9 32: 2013-10-18

33: EP 31: 14175612.2 32: 2014-07-03

**54: LABELED INHIBITORS OF PROSTATE SPECIFIC MEMBRANE ANTIGEN (PSMA), THEIR USE AS IMAGING AGENTS AND PHARMACEUTICAL AGENTS FOR THE TREATMENT OF PROSTATE CANCER**

00: -

The present invention generally relates to the field of radiopharmaceuticals and their use in nuclear medicine as tracers, imaging agents and for the treatment of various disease states of prostate cancer. Thus, the present invention concerns compounds that are represented by the general Formulae (Ia) or (Ib).



21: 2019/07609. 22: 18/11/2019. 43: 2/26/2021

51: C01B; F27D

71: WACKER CHEMIE AG

72: BERTAKIS, Evangelos, EULENBERGER, Ronald, SCHEI, Einar, Olav

**54: HOOD FOR SI-METAL TAPPING AND PROCESS FOR PRODUCTION OF SILICON USING SUCH A HOOD**

00: -

The present invention provides a hood (1) for a taphole (4) and a tapping spout (2) in a submerged arc furnace in the production of silicon wherein the hood (1) has at least two suction ducts (3) which are placed on either side of the hood (1). The present invention further provides a process for the production of silicon in a submerged arc furnace, wherein liquid silicon and refining gas escape from a taphole (4) of a crucible (7), wherein the liquid silicon is flowing on a tapping spout (2) into a ladle (5), wherein the refining gas is sucked in a hood (1) which has at least two suction ducts (3) which are placed on either side of the hood (1).

21: 2019/07641. 22: 19/11/2019. 43: 3/19/2021

51: C07K; C07H; C12N; C12Q; A61K

71: THE UNIVERSITY OF CHICAGO

72: GAJEWSKI, THOMAS F, SIVAN, AYELET, CORRALES, LETICIA

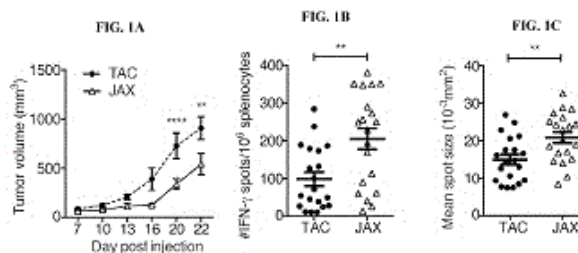
33: US 31: 62/169,112 32: 2015-06-01

33: US 31: 62/248,741 32: 2015-10-30

**54: TREATMENT OF CANCER BY MANIPULATION OF COMMENSAL MICROFLORA**

00: -

Provided herein are methods of treatment and/or prevention of cancer by manipulation of commensal microflora. In particular, the amount, identity, presence, and/or ratio of microflora (e.g., gut microflora) in a subject is manipulated to facilitate one or more co-treatments.



21: 2019/07670. 22: 11/20/2019. 43: 2/26/2021

51: C02F

71: GOODWIN PLC

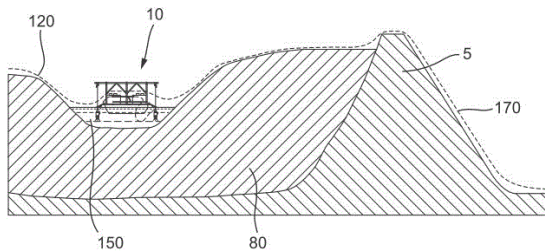
72: GOODWIN, Richard, Stanley, CHAPMAN, Andrew, WANASINGHE, Mithila, Tharanath, SMALLWOOD, Garry, O'NIEN, Stephen

33: GB 31: GB1902635.0 32: 2019-02-27  
 33: GB 31: GB1902726.7 32: 2019-02-28  
 33: GB 31: GB1914520.0 32: 2019-10-08

#### 54: METHOD OF EXCAVATING A TAILINGS LAGOON

00: -

A method of dewatering a tailings lagoon retained by a dam comprising: excavating an excavation hole in the tailings lagoon; allowing water from surrounding tailings to enter the excavation hole; and pumping water in the excavation hole out of the excavation hole and discharging beyond a toe of the dam. Also disclosed is a method comprising: excavating a channel in a tailings lagoon from a shore of the tailings lagoon and floating a pontoon in water in the channel from the shore along the channel, wherein: excavating involves breaking down solid tailings in the tailings lagoon into a slurry using water and removing the slurry using a submersible slurry pump mounted on the pontoon.

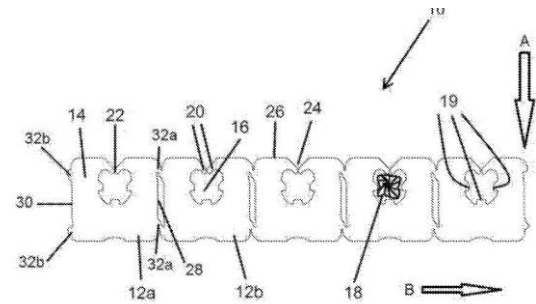


21: 2019/07672. 22: 20/11/2019. 43: 2/26/2021  
 51: B65D  
 71: SCHUTTE BAGCLOSURES B.V.  
 72: VAN DRUNEN, Frank, Emiel, Leon  
 33: NL 31: 2019208 32: 2017-07-10

#### 54: STRIP OF FLAT CLOSURES MADE OF PLASTIC FOAM THAT ARE COUPLED TOGETHER

00: -

The invention relates to a strip (10) of flat closures (12) coupled together, made of plastic, wherein each closure (12) comprises a body (14) with an opening (16) therein for receiving and holding the access side (18) of a flexible packaging, as well as a slot (22), delimited by leg parts (20), which extends between the perimeter of the body (14) and the opening (16), and coupling parts (32a, 32b) for coupling to an adjacent closure, wherein the plastic is a plastic foam. A strip of this kind displays good fracture behaviour in existing closing machines.



21: 2019/07673. 22: 20/11/2019. 43: 3/19/2021  
 51: A61K; C07K; A61P

71: GENZYME CORPORATION

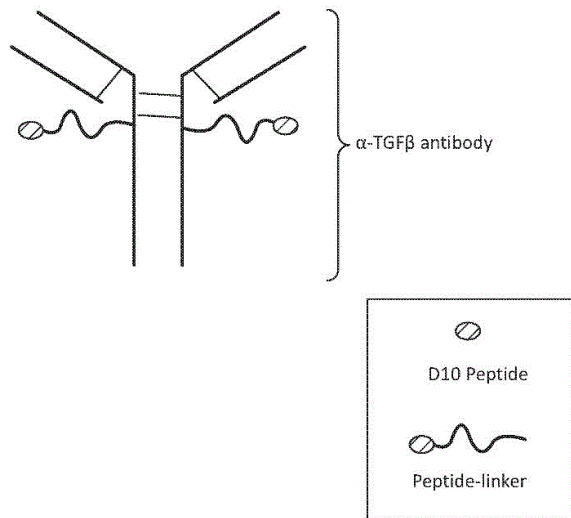
72: QIU, Huawei, PARK, Sunghae, STEFANO, James

33: US 31: 62/448,763 32: 2017-01-20

#### 54: BONE-TARGETING ANTIBODIES

00: -

Provided are recombinant and chemically-conjugated antibodies and fragments thereof modified with one or more poly-aspartate (poly-D) peptides (e.g., a D10 sequence) to improve localization of the antibodies or fragments to bone. Methods of making and using of these antibodies and fragments also are disclosed.



21: 2019/07708. 22: 21/11/2019. 43: 3/19/2021  
 51: D01D  
 71: M-TECHX INC.  
 72: Ikegaya, Morihiko, Echizenya, Takatsugu, Sota, Hiroyoshi  
 33: JP 31: 2017-101292 32: 2017-05-22



**54: NANOFIBER MANUFACTURING DEVICE AND HEAD USED FOR SAME**

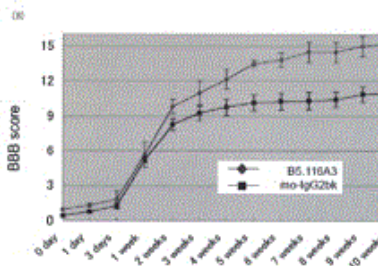
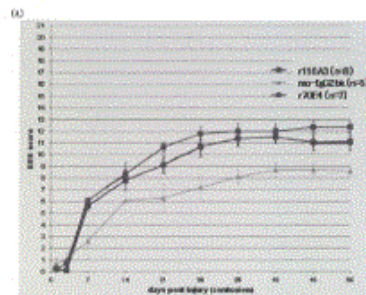
00: -  
 Provided are: a nanofiber manufacturing device which can be manufactured by a cutting process and effectively carry a molten resin on a gas flow; and a head used for the nanofiber manufacturing device. This head (20) for a nanofiber manufacturing device (1) has: a raw material outlet surface (22) in which a raw material flow passage (2) for discharging a liquid-phase raw material is formed; and a gas outlet surface (23) which is disposed so as to form an angle  $\alpha$  (where  $0 < \alpha = 90$  degrees) with respect to the raw material outlet surface (22) and in which a gas flow passage (26) for discharging gas is formed. In addition, the raw material flow passage (25) is formed perpendicular to the raw material outlet surface (22), the gas flow passage (26) is formed perpendicular to the gas outlet surface (23), and the raw material flow passage (25) and the gas flow passage (26) are disposed so that gas jetted from the gas flow passage (26) is sprayed and attached to the liquid-phase raw material discharged from the raw material flow passage (25).

21: 2019/07773. 22: 25/11/2019. 43: 3/19/2021  
 51: C07K; A61K; A61P; C12N; C12P  
 71: MITSUBISHI TANABE PHARMA CORPORATION, OSAKA UNIVERSITY, NATIONAL UNIVERSITY CORPORATION CHIBA UNIVERSITY  
 72: HASHIMOTO, MOTONORI, YAMASHITA, TOSHIHIDE  
 33: JP 31: 2015-091095 32: 2015-04-28

**54: RGMA BINDING PROTEIN AND USE THEREOF**

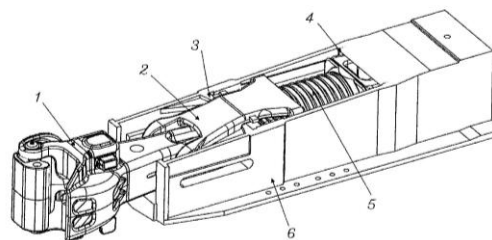
00: -  
 The present invention addresses the problem of obtaining an anti-repulsive guidance molecule a (RGMa) antibody which has a high binding activity and few side effects and can be used as a medicine for preventing, treating, or preventing the relapse of neurological or immunological diseases. Said problem is solved by providing an isolated RGMA binding protein which does not inhibit binding between RGMA and neogenin, but neutralizes the neuritis growth inhibiting activity of RGMA, and preferably by providing an anti-RGMA antibody which has a complementarity determining region having an amino acid sequence of SEQ ID NOS: 30-

35 or SEQ ID NOS: 36-40 in the sequence listing, and SFG.



21: 2019/07807. 22: 21/11/2019. 43: 2/26/2021  
 51: B61G; G01G  
 71: AMSTED RAIL COMPANY, INC.  
 72: SEIDEL, Andrew  
 33: US 31: 15/624,143 32: 2017-06-15  
**54: RAILWAY FREIGHT CAR COUPLING FORCE MONITORING SYSTEM**

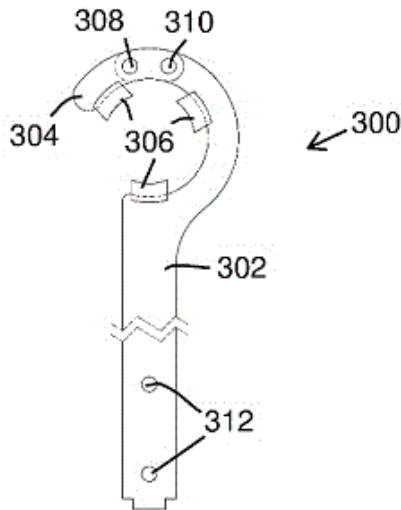
00: -  
 A system for measuring in-train and coupling forces of freight rail cars is provided. The system includes at least four strain sensing elements mounted to the coupler of a railway vehicle. Signals from the strain sensing elements are transmitted to a receiver where they are converted into force readings.



21: 2019/07830. 22: 26/11/2019. 43: 3/12/2021  
 51: F24S  
 71: ABSOLICON SOLAR COLLECTOR AB  
 72: BYSTRÖM, JOAKIM  
 33: SE 31: 1750617-1 32: 2017-05-17

**54: HOLDER FOR SECURING A FLUID TUBE, A SOLAR COLLECTOR, AND METHOD OF ARRANGING A FLUID TUBE**

00: -  
 A holder (300) for securing a fluid tube to a trough-formed solar collector. In an operation mode of the solar collector, the holder (300) partly encircles a circumference of a cross-section of the fluid tube and leaves a portion of the circumference unencircled by the holder (300). The holder (300) may comprise a base member (302) adapted to abut the fluid tube, the base member (302) comprising at least one securing means (312) adapted to secure the base member (302) to the solar collector. Further, the holder (300) may comprise an immobilising member (304) adapted to together with the base member (302) immobilise a centre-line of the fluid tube in the solar collector when the fluid tube abuts the holder (300). The base member (302) is connected with the immobilising member (304), such that the base member (302) together with the immobilising member (304), in an operation mode of the solar collector, partly encircles the circumference of the cross-section of the fluid tube and forms an opening smaller than a diameter of the cross-section of the fluid tube. The immobilising member (304) may be pivotably connected to the base member by a connecting means (310), such that the immobilising member (304) can pivot in relation to the base member (302) to, in a service mode of the solar collector, leave an opening larger than the diameter of the cross-section of the fluid tube.



21: 2019/07884. 22: 11/27/2019. 43: 3/19/2021  
 51: H04J

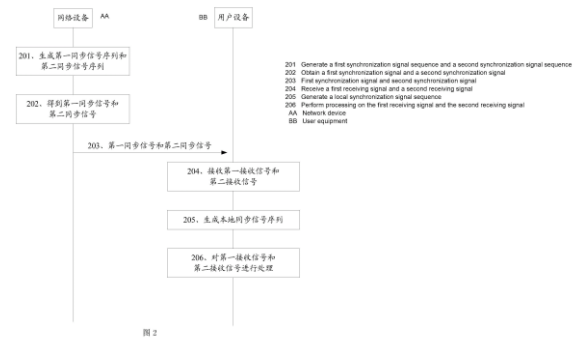
71: Huawei Technologies Co., Ltd.

72: QU, Bingyu, LIU, Jianqin

33: CN 31: 201710309975.6 32: 2017-05-04

**54: SYNCHRONIZATION SIGNAL SENDING METHOD, SYNCHRONIZATION SIGNAL RECEIVING METHOD, AND RELATED DEVICE**

00: -  
 This application discloses a synchronization signal sending method and a related device, so as to reduce correlation between a secondary synchronization signal and a primary synchronization signal, and reduce interference to the primary synchronization signal. The method in this application includes: generating, by a network device, a first synchronization signal sequence and a second synchronization signal sequence, where the first synchronization signal sequence is a sequence obtained based on a first m-sequence, the second synchronization signal sequence is a sequence obtained based on a Gold sequence, the Gold sequence is generated based on a second m-sequence and a third m-sequence, and a generator polynomial of the first m-sequence is the same as a generator polynomial of the second m-sequence; mapping, by the network device, the first synchronization signal sequence onto M subcarriers in a first time unit to obtain a first synchronization signal, and mapping the second synchronization signal sequence onto M subcarriers in a second time unit to obtain a second synchronization signal, where M and N are positive integers greater than 1; and sending, by the network device, the first synchronization signal and the second synchronization signal.



21: 2019/07916. 22: 28/11/2019. 43: 3/19/2021  
 51: A61K; A61Q

71: ALLERGAN, INC.  
 72: JACKY, Birgitte, P.S., MALIK, Shizazh, Z.,  
 WANG, Joanne, LIU, Yi, BRIDEAU-ANDERSEN,  
 Amy, STEWARD, Lance, E., LE, Linh, Q., HSIA,  
 Edward, C.

33: US 31: 62/512,792 32: 2017-05-31

**54: BOTULINUM NEUROTOXIN FOR TREATMENT OF DISORDERS ASSOCIATED WITH MELANOCYTE HYPERACTIVITY AND/OR EXCESS MELANIN**

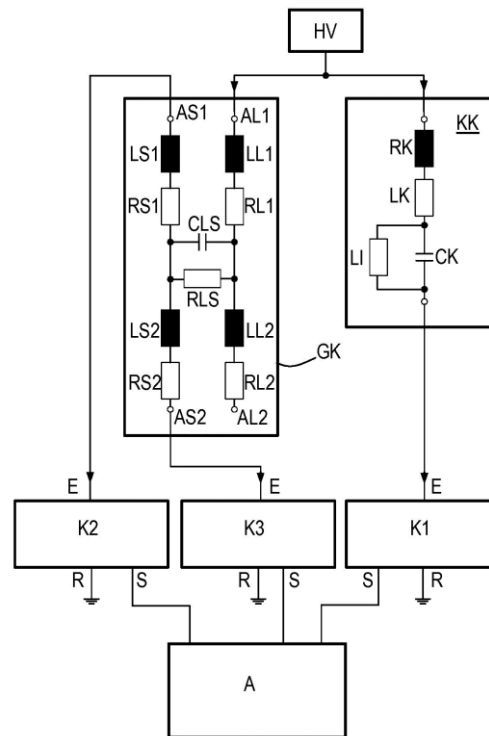
00: -  
 Methods for treating hypermelanin-related afflictions of the skin, such as hyperpigmentation, are provided. The methods comprise administering a composition comprising BoNT/DC.

21: 2019/08020. 22: 03/12/2019. 43: 2/26/2021  
 51: G01R

71: Falkensteinstraße 8, D-93059 Regensburg  
 72: WINKELMANN, Erik  
 33: DE 31: 10 2017 116 613.0 32: 2017-07-24  
**54: METHOD AND TESTING DEVICE FOR MEASURING PARTIAL DISCHARGE PULSES OF A SHIELDED CABLE**

00: -  
 In a method for measuring partial discharge pulses of a shielded cable (GK), a coupling capacitor (KK) is connected to a first connection point (AL1) of the core of the cable. A first, a second and a third coupling unit (K1, K2, K3) are provided. An input (E) of the first coupling unit (K1) is connected to the coupling capacitor (KK). The input of the second coupling unit (K2) is connected to a first connection point (AS1) of the shield of the cable (GK), and the input (E) of the third coupling unit (K3) is connected to a second connection point (AS2) of the shield. At the first connection point (AL1) of the core, a test voltage is provided. In dependence upon the measurement signals, at least one characteristic value for an apparent charge of the partial discharge pulse is determined.

Fig. 1



21: 2019/08022. 22: 03/12/2019. 43: 3/19/2021  
 51: A61K; A61P  
 71: 4D PHARMA RESEARCH LIMITED  
 72: MULDER, Imke, Elisabeth, YUILLE, Samantha,  
 ETTORRE, Anna, AHMED, Suaad, FOTIADOU,  
 Parthena, URCIA, Joseph, Roby, Iringan,  
 SAVIGNAC, Helene  
 33: GB 31: 1709468.1 32: 2017-06-14  
 33: GB 31: 1709534.0 32: 2017-06-15  
 33: GB 31: 1712851.3 32: 2017-08-10  
 33: GB 31: 1803826.5 32: 2018-03-09  
 33: GB 31: 1805989.9 32: 2018-04-11  
 33: GB 31: 1805990.7 32: 2018-04-11  
 33: GB 31: 1806779.3 32: 2018-04-25  
 33: GB 31: 1806780.1 32: 2018-04-25  
 33: GB 31: 1806779.3 32: 2019-04-25  
**54: COMPOSITIONS COMPRISING A BACTERIAL STRAIN OF THE GENUS MEGASPHERA AND USES THEREOF**

00: -  
 The invention provides compositions comprising bacterial strains for treating and preventing neurodegenerative disorders.

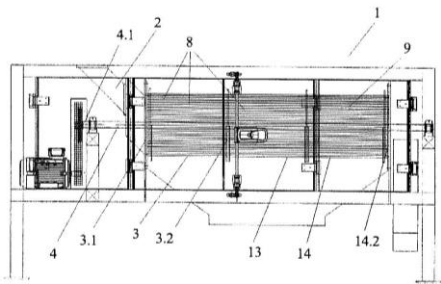
21: 2019/08048. 22: 12/4/2019. 43: 2/26/2021  
 51: A23N  
 71: JOSE BORRELL S.A.  
 72: BORRELL, Jose, Vicente, Roig

33: ES 31: 201930027 32: 2019-01-09

**54: MACHINE FOR INTEGRAL PROCESSING OF FRUITS WITH A HARD OR SOFT SHELL**

00: -

The present invention corresponds to the technical field comprised in the industrial sector of manufacturing and installing machines for integral processing of fruits with a hard or soft shell, in particular those machines comprising a feed hopper and at least one receptacle connected to it, in horizontal position according to the longitudinal direction of the machine, and which comprises in its interior a central rotating shaft arranged according to the longitudinal direction of the receptacle and connected at one end to rotating means, which rotating shaft has finger-shaped elements radially projected towards the exterior from various longitudinal positions on said shaft.



21: 2019/08084. 22: 12/5/2019. 43: 10/7/2020

51: B41B; G09F; H04B; H04W

71: Warren Bedil

72: Warren Bedil

**54: A PORTABLE BATTERY AND METHOD OF ADVERTISING THEREWITH**

00: -

A power bank comprising a housing with integral battery and mobile communication device (MCD) securing means, wherein the housing comprises securing means for releasably securing the MCD to the housing, in use. The housing comprises a stand assembly to enable the MCD to be secured in a plurality of display positions. According to another aspect of the invention there is provided a method of advertising using a power bank of the invention, whereby the power bank activates continuous charging of a connected MCD only after advertising content has been displayed on the MCD of the user, alternately on the electronic display panel of the power bank housing.

21: 2019/08085. 22: 05/12/2019. 43: 2/26/2021

51: C08F; C08L

71: BOREALIS AG

72: GAHLEITNER, Markus, Zaubertalstraße 1, WANG, Jingbo

33: EP 31: 17188122.0 32: 2017-08-28

**54: POLYPROPYLENE COMPOSITION WITH LOW SHRINKAGE AT WIDE APPLICATION TEMPERATURE RANGE**

00: -

The present application relates to a polypropylene composition having a melt flow rate MFR.2 (230 °C) measured according to ISO 1133 in the range of 5 to 50 g/10min, to a composition comprising the polypropylene composition and one or more additive(s) in an amount of up to 4 wt.-%, based on the total weight of the composition, to a process for the preparation of the polypropylene composition and an article comprising the polypropylene composition as well as the use of the polypropylene composition for decreasing the brittle-to-ductile transition temperature.

21: 2019/08100. 22: 05/12/2019. 43: 3/5/2021

51: B01D; B07B

71: DERRICK CORPORATION

72: COLGROVE, James R., SMITH, Clifford C.

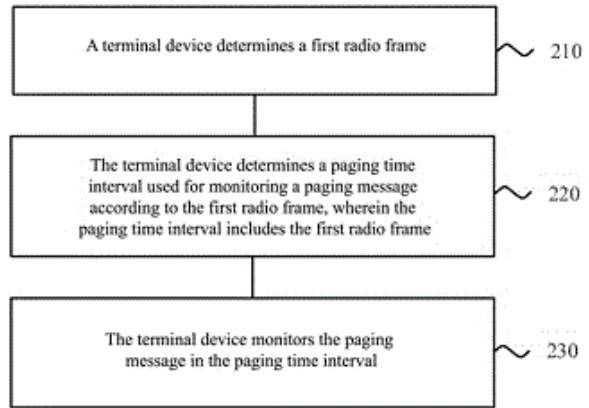
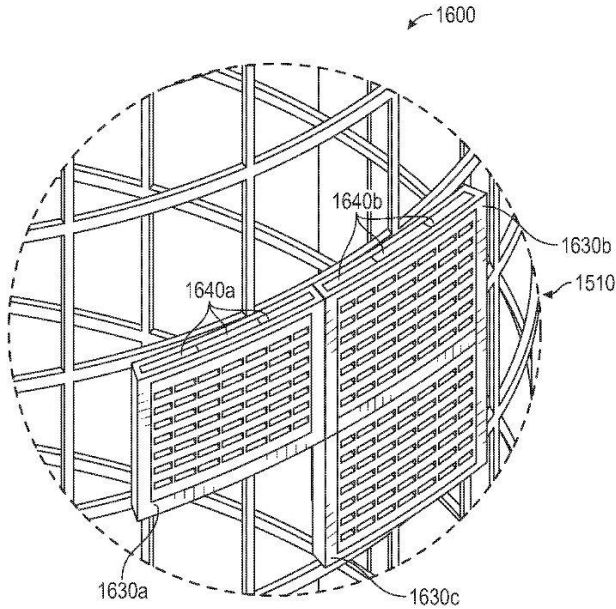
33: US 31: 62/515,964 32: 2017-06-06

33: US 31: 62/615,302 32: 2018-01-09

**54: METHOD AND APPARATUSES FOR SCREENING**

00: -

Methods and apparatuses for screening are provided. Embodiments include a screen basket apparatus for screening material, comprising a grid frame (1510) having a plurality of openings (1513) arranged in a lattice and a plurality of screening cartridge assemblies (1610a, 1610b, 1610c) affixed to the grid frame (1510) to cover the respective openings (1513) of the grid frame (1510). The screening cartridge assembly (1610a, 1610b, 1610c) includes a case (1630a) and a screen assembly (1640a, 1640b) fitted into the case (1630a), and may be affixed to a set of transversal member (1512) of the grid frame (1510). The case (1630a) may be an injection molded thermoplastic polyurethane or a thermoset polymer. The screening elements together form a generally continuous screening surface across an exterior portion of the grid frame (1510).



21: 2019/08125. 22: 05/12/2019. 43: 3/12/2021  
 51: H04W  
 71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.  
 72: LIU, JIANHUA  
**54: PAGING METHOD, TERMINAL DEVICE, AND NETWORK DEVICE**

00: -  
 Disclosed are a paging method, a terminal device, and a network device. The method comprises: the terminal device determines a first radio frame; the terminal device determines a paging time interval for monitoring a paging message according to the first radio frame, wherein the paging time interval comprises the first radio frame; and the terminal device monitors the paging message in the paging time interval. Therefore, the terminal device can determine the paging time interval for monitoring a paging message according to the radio frame determined by the terminal device and a position where the radio frame is in the paging time interval, and monitors the paging message in the paging time interval, and thus the terminal device can also effectively determine the time for receiving the paging message when a transmission period of the paging message is the same as that of a common signal such as a synchronizing signal.

21: 2019/08153. 22: 09/12/2019. 43: 2/26/2021  
 51: E04B; E04G  
 71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY  
 72: YIN, Shiping, JING, Lei, WANG, Fei, LI, Shichang

33: CN 31: 201810130374.3 32: 2018-02-08  
**54: CONSTRUCTION METHOD FOR HIGH-DUCTILITY MASONRY WALL HAVING REINFORCED JOINT MORTAR LAYER**  
 00: -

A construction method for a high-ductility masonry wall having a reinforced joint mortar layer, comprising the following steps: 1. wetting in advance building blocks used for building a wall; 2. applying, according to the size of the cross section of the wall, high-performance joint mortar having a thickness of 3-5 mm to a first building block along the cross section of the wall; 3. laying a geogrid mesh or a steel wire mesh on the high-performance joint mortar, applying high-performance joint mortar having a thickness of 3-5 mm to the geogrid mesh or the steel wire mesh, and laying a second building block on the high-performance joint mortar layer; and 4. repeating steps 2 and 3 to complete wall building according to the design height of the masonry wall. The construction method can improve the stress performance of the entire masonry wall, enhance the ductility and integrity of the masonry wall, obstruct transfer paths of shear cracks, and improve the shear performance of the masonry wall, thus improving the seismic performance.

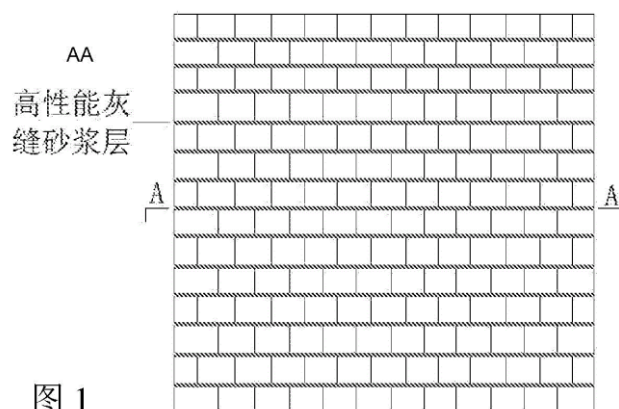


图 1

AA HIGH-PERFORMANCE JOINT MORTAR LAYER

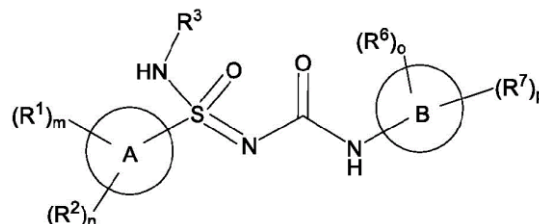
21: 2019/08154. 22: 09/12/2019. 43: 2/26/2021  
 51: A61K; C07C; C07D  
 71: NOVARTIS INFLAMMASOME RESEARCH, INC.  
 72: GLICK, Gary, ROUSH, William R, VENKATRAMAN, Shankar, SHEN, Dong-Ming, GHOSH, Shomir, KATZ, Jason, SEIDEL, Hans Martin, FRANCHI, Luigi, WINKLER, David Guenther, OPIPARI JR., Anthony William  
 33: US 31: 62/536,271 32: 2017-07-24  
 33: US 31: 62/573,894 32: 2017-10-18

#### 54: COMPOUNDS AND COMPOSITIONS FOR TREATING CONDITIONS ASSOCIATED WITH NLRP ACTIVITY

00: -

In one aspect, compounds of Formula AA, or a pharmaceutically acceptable salt thereof, are featured. The variables shown in Formula AA are as defined in the claims. The compounds of formula AA are NLRP3 activity modulators and, as such, can be used in the treatment of metabolic disorders (e.g. Type 2 diabetes, atherosclerosis, obesity or gout), a disease of the central nervous system (e.g. Alzheimer's disease, multiple sclerosis, Amyotrophic Lateral Sclerosis or Parkinson's disease), lung disease (e.g. asthma, COPD or pulmonary idiopathic fibrosis), liver disease (e.g. NASH syndrome, viral hepatitis or cirrhosis), pancreatic disease (e.g. acute pancreatitis or chronic pancreatitis), kidney disease (e.g. acute kidney injury or chronic kidney injury), intestinal disease (e.g. Crohn's disease or Ulcerative Colitis), skin disease (e.g. psoriasis), musculoskeletal disease (e.g. scleroderma), a vessel disorder (e.g. giant cell arteritis), a disorder of the bones (e.g. osteoarthritis, osteoporosis or osteopetrosis disorders), eye disease (e.g. glaucoma or macular degeneration), a disease

caused by viral infection (e.g. HIV or AIDS), an autoimmune disease (e.g. Rheumatoid Arthritis, Systemic Lupus Erythematosus or Autoimmune Thyroiditis), cancer or aging.



Formula AA

21: 2019/08155. 22: 09/12/2019. 43: 2/26/2021  
 51: A01M  
 71: BAYER AKTIENGESELLSCHAFT  
 72: KOCH, Rainhard, OUTRAM, Jerry  
 33: EP 31: 17180030.3 32: 2017-07-06  
 33: EP 31: 17181582.2 32: 2017-07-17  
 33: EP 31: 17186467.1 32: 2017-08-16  
 33: EP 31: 17187259.1 32: 2017-08-22

#### 54: APPARATUS FOR WEED CONTROL

00: -

The present invention relates to an apparatus for weed control. It is described to provide (210) a processing unit with at least one image of an environment. The processing unit analyses (220) the at least one image to determine at least one location within the environment for activation of at least one mulch application unit. The at least one mulch application unit is configured to apply at least one mulch to the at least one location for weed control. An output unit outputs (230) information that is useable to activate the at least one mulch application unit.

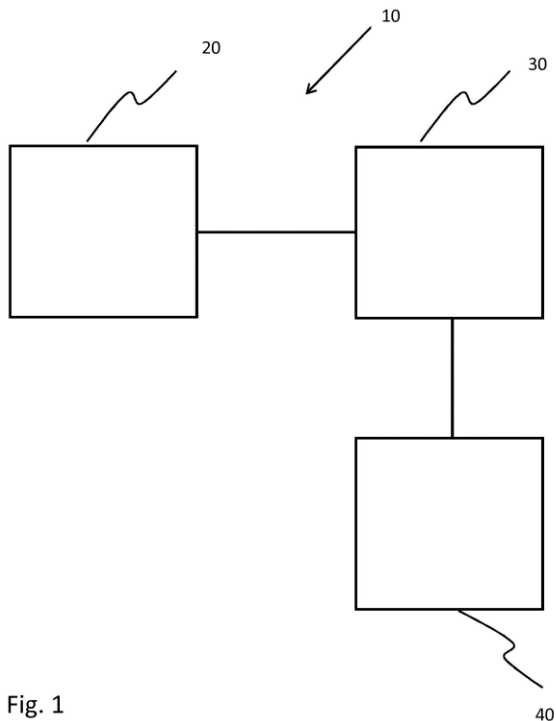


Fig. 1

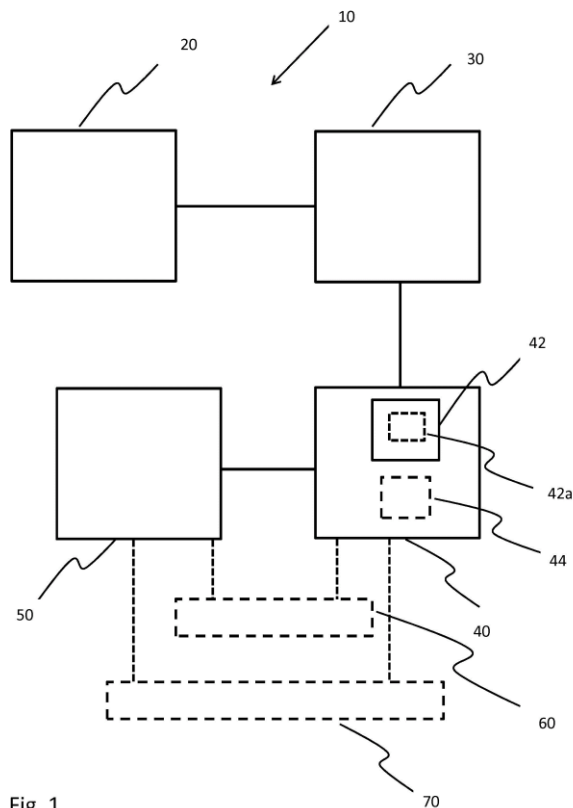


Fig. 1

21: 2019/08156. 22: 09/12/2019. 43: 2/26/2021  
 51: A01M; B05B  
 71: BAYER AKTIENGESELLSCHAFT  
 72: KIJLSTRA, Johan, OUTRAM, Jerry, HADLOW, James

33: EP 31: 17180030.3 32: 2017-07-06  
 33: EP 31: 17181582.2 32: 2017-07-17  
 33: EP 31: 17186467.1 32: 2017-08-16  
 33: EP 31: 17187259.1 32: 2017-08-22

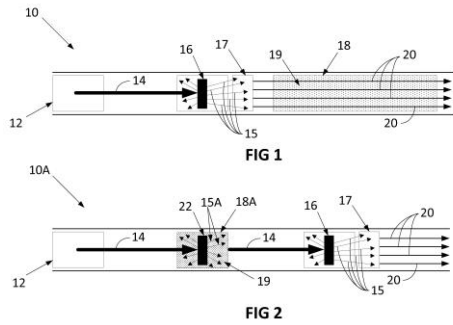
**54: A WEED CONTROL APPARATUS**

00: -  
 The present invention relates to a weed control apparatus (10) for a vehicle. It is described to provide (210) a processing unit with at least one image of an environment. The processing unit analyses (220) the at least one image to activate at least one chemical spray unit. A liquid weed control chemical is atomized and charged (230) by the at least one chemical spray unit. The at least one chemical spray unit has at least one part configured to be held at high voltage with respect to zero volts potential. The at least one high voltage power supply and the at least one chemical spray unit are configured to hold the at least one part of the at least one chemical spray unit at one or a number of high voltages with respect to zero volts potential, such that the atomized liquid weed control chemical is electrically charged.

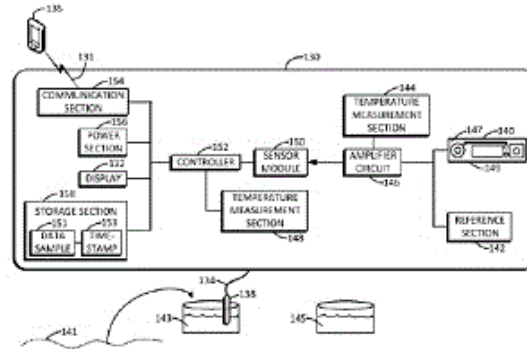
21: 2019/08159. 22: 12/9/2019. 43: 3/9/2021  
 51: A61K; A61N; G21G  
 71: THE SOUTH AFRICAN NUCLEAR ENERGY CORPORATION SOC LIMITED  
 72: ZEEVAART, Jan Rijn  
 33: ZA 31: 2017/04408 32: 2017-06-29

**54: PRODUCTION OF RADIOISOTOPES**

00: -  
 A method of obtaining, from a target compound, a radioisotope of a target element comprised in the target compound includes irradiating the target compound with high energy photon irradiation (gamma irradiation). Thereby the target element radioisotope is formed. The method is performed such that the target element radioisotope is of different oxidation state than the target element, and is comprised in a target element radioisotope compound that is separable from the target compound by a physical and/or chemical separation method.



comparing the first reference measurement to the nominal reference value; applying a first correction factor to the first sample measurement; and causing a display of a result of the applying.



21: 2019/08192. 22: 10/12/2019. 43: 3/19/2021  
51: G01N

71: SUPRASENSOR TECHNOLOGIES, LLC  
72: WENZEL, ANDREAS M, KUSIEK, JORDAN RICHARD, STIMPSON, CALDEN CARROLL, FONTENOT, SEAN

33: US 31: 62/158,721 32: 2015-05-08

**54: APPARATUS FOR DETERMINING NITRATE LEVELS, AND METHOD FOR MEASURING ION CONCENTRATION WITH A STANDARD DEVIATION CORRECTION**

00: -

The invention relates to a system, apparatus and method of measuring ion concentration with a standard deviation correction. The method includes the step of performing calibration for an ion concentration apparatus. The ion concentration apparatus comprises a storage section coupled to a processor and configured to store one or more data samples associated one or more timestamps received from the processor; an amplifier circuit; and an ion concentration measurement device coupled to the amplifier circuit. The ion concentration measurement device and the amplifier circuit are configured to indicate a level of a type of ion in at least one of a sample media or a reference media. The method of measuring ion concentration with a standard deviation correction further includes the steps of: receiving a first sample measurement taken from the sample media using the ion concentration apparatus; receiving a first reference measurement taken from the reference media using the ion concentration apparatus before a second sample measurement is taken from the sample media and received by the processor; comparing, the first reference measurement to a nominal reference value; determining a first correction factor based on

21: 2019/08199. 22: 10/12/2019. 43: 2/26/2021  
51: G06Q

71: BAYER BUSINESS SERVICES GMBH  
72: SCHÄFER, Dirk

33: EP 31: 17184422.8 32: 2017-08-02

33: EP 31: 17184423.6 32: 2017-08-02

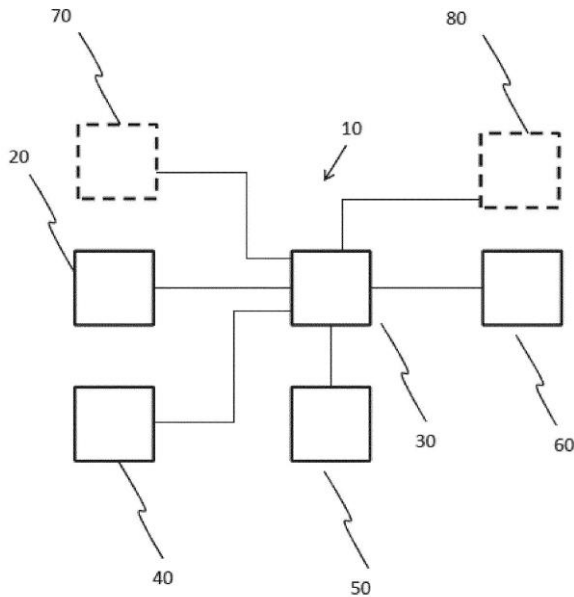
33: EP 31: 17184426.9 32: 2017-08-02

**54: A HAND HELD DEVICE FOR ECONOMIC AGRICULTURAL MANAGEMENT**

00: -

The present invention relates to a hand held device for economic agricultural management. It is described to for a user of the device to provide (110) agricultural information relating to a field, wherein the agricultural information comprises information on at least one crop. A transmitter of the device transmits (120) information comprising the agricultural information relating to the field. A receiver of the device receives (130) agricultural data that comprises economic information relating to the at least one crop. A processing unit of the device determines (140) economic agricultural management information on the basis of the agricultural data. An output unit of the device outputs (150) the economic agricultural management information to the user of the device.

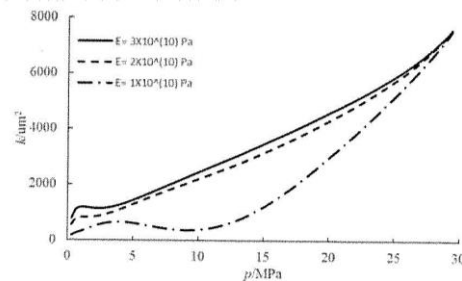




21: 2019/08235. 22: 12/11/2019. 43: 2/26/2021  
 51: G01N  
 71: SOUTHWEST PETROLEUM UNIVERSITY  
 72: ZENG, Fanhui, PENG, Fan, GUO, Jianchun,  
 ZHANG, Qiang, XIANG, Jianhua, DUAN, Yunqi,  
 WANG, Qingrong  
 33: CN 31: 201910040617.9 32: 2019-01-16  
**54: METHOD FOR CALCULATING  
 PERMEABILITY OF SHALE FRACTURING SELF-  
 SUPPORTING FRACTURE NETWORK**

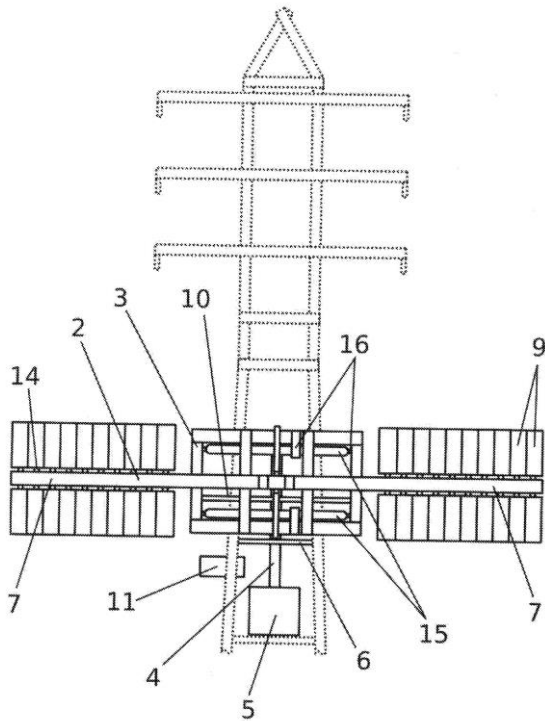
00: -  
 The present application discloses a method for calculating the permeability of a shale fracturing self-supporting fracture network, which includes the following steps: collecting basic data; establishing an equation about fracture width change under the shale self-supporting fracture stress sensitivity; establishing a calculation model for the effective viscosity of the gas in shale reservoir micro-nanometer scale confined space while considering the dynamic change of the shale self-supporting fracture width under the stress sensitivity; establishing a flow equation corresponding to continuous flow, Knudsen flow and surface diffusion while considering the dynamic width change of the shale self-supporting fracture and the viscosity change of the reservoir gas for different transmission mechanisms; establishing a total flow calculation equation; and establishing a calculation model for calculating the permeability of the shale self-supporting fracture network. The present application

considers the characteristics of the micro-nanometer scale and the shale mechanical properties of the shale reservoirs shear self-supporting fractures, and the characteristics that the shale gas simultaneously has viscous flow, slippage effect, Knudsen diffusion, desorption and multi-scale fracture flow in the shale micro-fractures, and the combined influence of the factors such as the effective viscosity of the gas changes in the micro-nanometer scale confined micro-fracture space.



21: 2019/08308. 22: 12/12/2019. 43: 2/26/2021  
 51: F03D  
 71: TORRECILLA CONTRERAS, José Antonio  
 72: TORRECILLA CONTRERAS, José Antonio  
 33: ES 31: U 201700537 32: 2017-07-17  
**54: SYSTEM OF ROTOR, TRANSMISSION AND  
 COLLECTION ELEMENTS THAT OPTIMISES A  
 VERTICAL-AXIS WIND TURBINE**

00: -  
 The invention is made up of a supporting tower on which a rotor is installed, which comprises two parallel crossarms having two parallel rings fastened to the outer ends thereof which serve as a support for the bearings which, secured to the outer casing, make up the rotor, and said casing fixed on the inside thereof comprises a toothed wheel for transmitting the force of rotation, by epicyclic gearing, to the interior of the tower which forms a space suitable for housing the transmission, which is necessarily vertical, and runs towards the multiplier box. The blades are formed on two horizontal parallel beams which are joined and compacted together by metal boxes which house the guiding mechanisms and shafts that support and orient the blades.

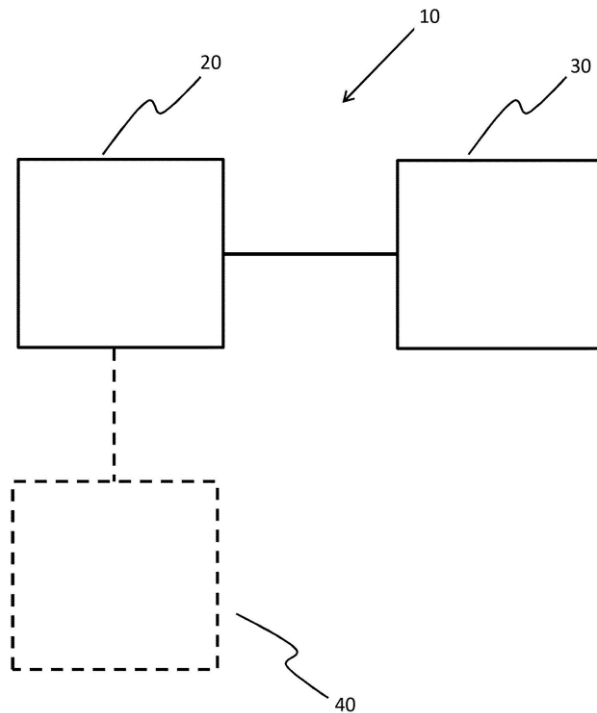


21: 2019/08350. 22: 13/12/2019. 43: 2/26/2021  
 51: A61B  
 71: BAYER AKTIENGESELLSCHAFT  
 72: HINDORF, Cecilia, LARSSON, Erik, BROLIN, Gustav, OHLSSON, Tomas  
 33: EP 31: 17183069.8 32: 2017-07-25  
 33: EP 31: 17195657.6 32: 2017-10-10

**54: APPARATUS FOR RADIOPHARMACEUTICAL QUANTIFICATION OF A BODY PART**

00: -  
 The present invention relates to an apparatus for radiopharmaceutical quantification of a body part. It is described to provide (210) a processing unit (30) with at least one gamma image of a body part. The at least one gamma image was acquired by at least one gamma camera configured to detect gamma rays and/or X-rays. The at least one gamma image comprises spectral energy data that comprises data that has resulted from the decay of at least one radiopharmaceutical. The processing unit is provided (220) with characteristic photon emission energies and emission probabilities associated with the decay of the at least one radiopharmaceutical. The processing unit determines (230) an activity of the at least one radiopharmaceutical at a plurality of spatial positions in the body part. The determination for a spatial position of the plurality of spatial positions comprises generating (240) a synthetic spectrum

and correlating the generated synthetic spectrum to an experimental spectrum generated from the spectral energy data for at least one position in the at least one gamma image that corresponds to that spatial position. Generating the synthetic spectrum comprises utilising the photon emission energies and emission probabilities associated with the decay of the at least one radiopharmaceutical. The processing unit determines (250) a spatial distribution of the at least one radiopharmaceutical in the body part.



21: 2019/08392. 22: 17/12/2019. 43: 2/26/2021  
 51: A61K; A61P  
 71: NOVARTIS AG  
 72: MOODY, Susan, PETRUZZELLI, Lilli, ENGELMAN, Jeffrey  
 33: US 31: 62/540,595 32: 2017-08-03  
**54: THERAPEUTIC COMBINATION OF A THIRD-GENERATION EGFR TYROSINE KINASE INHIBITOR AND A RAF INHIBITOR**

00: -  
 This invention relates to a pharmaceutical combination comprising (a) a third generation EGFR tyrosine kinase inhibitor and (b) a Raf inhibitor, particularly for use in the treatment of a cancer, particularly a lung cancer. This invention also relates to uses of such a combination for the preparation of

a medicament for the treatment of a cancer; methods of treating a cancer in a subject in need thereof comprising administering to said subject a jointly therapeutically effective amount of said combination; pharmaceutical compositions comprising such combination and commercial packages thereto.

21: 2019/08407. 22: 8/13/2019. 43: 3/9/2021  
51: B03D

71: BGRIMM MACHINERY & AUTOMATION TECHNOLOGY CO., LTD.

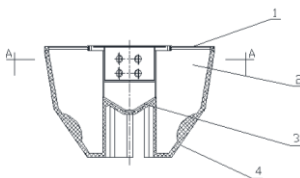
72: HAN, Dengfeng, SHEN, Zhengchang, SHI, Shuaixing, XIA, Xiaou, CHEN, Dong, LIU, Yongzhen, ZHANG, Ming, FAN, Xuesai

33: CN 31: 201811120174.6 32: 2018-09-25

**54: IMPELLER OF FLOTATION MACHINE, FLOTATION MACHINE AND FLOTATION METHOD THEREOF**

00: -

An impeller of a flotation machine, a flotation machine and a flotation method thereof are provided, which relate to flotation equipment for mineral separation. The impeller of a flotation machine comprises a cover plate, vanes and an air-out flow guider, the air-out flow guider is disposed at a position above the center of the impeller, an inner edge of each vane is fixedly connected with a side wall of the air-out flow guider, the cover plate is disposed above the vane and fixedly connected with an upper edge of the vane, and an outer surface of the entire impeller is coated with a wear-resistant layer. The impeller of a flotation machine of the present disclosure not only meets the requirements of aeration and stirring, but also has sufficient strength and can support the output of a large torque, and at the same time, has low operating power consumption and good separation performance, and is suitable for the application to super-large flotation machines.



21: 2019/08427. 22: 18/12/2019. 43: 3/19/2021

51: A61K; A61P

71: SHIONOGI & CO., LTD.

72: KAWAI, MAKOTO, TOMITA, KENJI, AKIYAMA, TOSHIYUKI, OKANO, AZUSA, MIYAGAWA, MASAYOSHI

33: JP 31: 2016-157732 32: 2016-08-10

**54: PHARMACEUTICAL COMPOSITIONS CONTAINING SUBSTITUTED POLYCYCLIC PYRIDONE DERIVATIVES AND PRODRUG THEREOF**

00: -

The present invention provides a pharmaceutical composition containing the following compound having antiviral action: P is hydrogen or a group to form a prodrug; A<sup>1</sup> is CR<sup>1A</sup>R<sup>1B</sup>, S or O; A<sup>2</sup> is CR<sup>2A</sup>R<sup>2B</sup>, S or O; A<sup>3</sup> is CR<sup>3A</sup>R<sup>3B</sup>, S or O; A<sup>4</sup> is each independently CR<sup>4A</sup>R<sup>4B</sup>, S or O; the number of hetero atoms among atoms constituting the ring which consists of A<sup>1</sup>, A<sup>2</sup>, A<sup>3</sup>, A<sup>4</sup>, nitrogen atom adjacent to A<sup>1</sup> and carbon atom adjacent to A<sup>4</sup>, is 1 or 2; R<sup>1A</sup> and R<sup>1B</sup> are each independently hydrogen, halogen, alkyl, or the like; R<sup>2A</sup> and R<sup>2B</sup> are each independently hydrogen, halogen, alkyl, or the like; R<sup>3A</sup> and R<sup>3B</sup> are each independently hydrogen, halogen, alkyl, or the like; R<sup>4A</sup> and R<sup>4B</sup> are each independently hydrogen, halogen, alkyl, or the like; R<sup>3A</sup> and R<sup>3B</sup> may be taken together with an adjacent carbon atom to form non-aromatic carbocycle or non-aromatic heterocycle; R<sup>1</sup> is fluorine; m is any integer of 1 to 2; and n is any integer of 1 to 2.

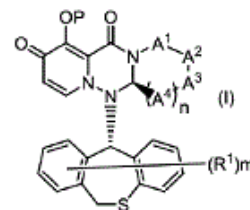
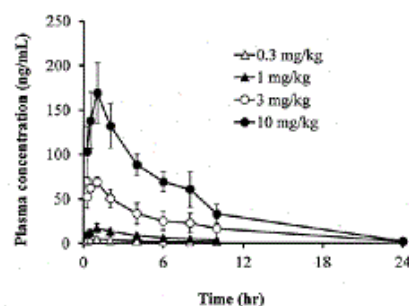


Figure 1



21: 2019/08430. 22: 18/12/2019. 43: 2/26/2021  
51: G06Q

71: BAYER BUSINESS SERVICES GMBH

72: SCHÄFER, Dirk

33: EP 31: 17184422.8 32: 2017-08-02

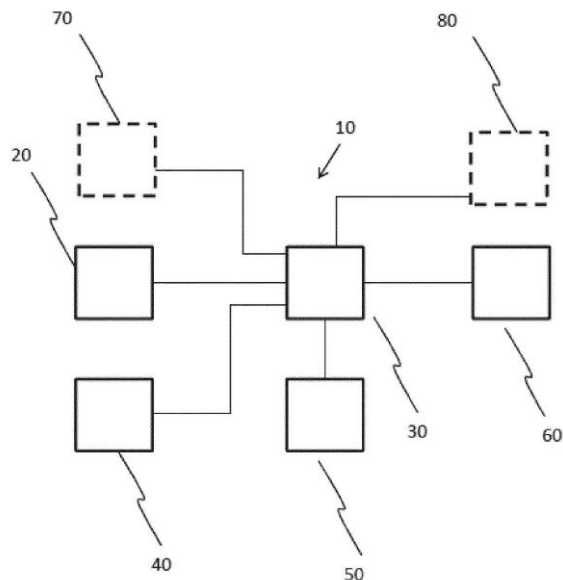
33: EP 31: 17184423.6 32: 2017-08-02

33: EP 31: 17184426.9 32: 2017-08-02

**54: A HAND HELD DEVICE FOR LAND MANAGEMENT**

00: -

The present invention relates to a hand held device for land management. It is described for a user of the device to provide (110) agricultural information relating to a field, wherein the agricultural information comprises information on at least one crop. A transmitter of the device transmits (120) information comprising the agricultural information relating to the field. A receiver of the device receives (130) agricultural data that comprises best practices for the growing of the at least one crop. A processing unit of the device determines (140) agricultural management information on the basis of the agricultural data. An output unit of the device outputs (150) the agricultural management information to the user of the device.



**54: TREATMENT OF SEXUAL DYSFUNCTION AND IMPROVEMENT IN SEXUAL QUALITY OF LIFE**

00: -

Compositions and methods for treating sexual dysfunction and enhancing sexual satisfaction using isolated populations of mesenchymal stem cells are disclosed.

21: 2019/08531. 22: 20/12/2019. 43: 2/26/2021

51: G06Q

71: BAYER BUSINESS SERVICES GMBH

72: SCHÄFER, Dirk

33: EP 31: 17184422.8 32: 2017-08-02

33: EP 31: 17184423.6 32: 2017-08-02

33: EP 31: 17184426.9 32: 2017-08-02

**54: DEVICE FOR AGRICULTURAL MANAGEMENT**

00: -

The present invention relates to a device for agricultural management. It is described to determine (110) by a processing unit (30) at least one geographical location of an agricultural land area, the determination comprising utilisation of a GPS unit (40). Agricultural data is provided (120) from an input unit (20) to the processing unit. The processing unit determines (130) agricultural management data, the determination comprising utilisation of the at least one geographical location and the agricultural data. An output unit (50) outputs (140) agricultural management information to a user of the device on the basis of the agricultural management data.

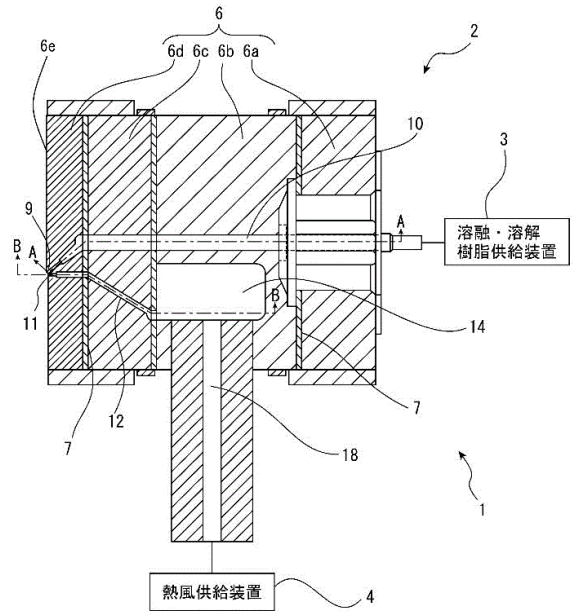
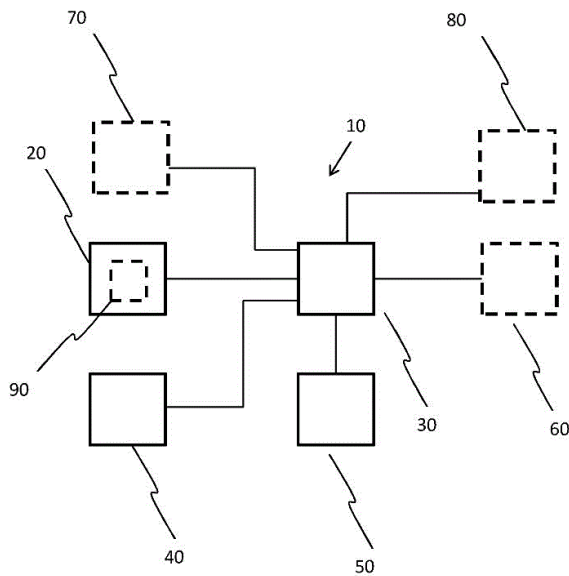
21: 2019/08451. 22: 18/12/2019. 43: 3/5/2021

51: A61K; A61P

71: LONGEVERON LLC

72: DIFEDE, DARCY L, HARE, JOSHUA M

33: US 31: 62/521,765 32: 2017-06-19



3 Molten/dissolved resin supply device  
4 Hot air supply device

21: 2019/08535. 22: 20/12/2019. 43: 3/19/2021  
51: D01D  
71: M-TECHX INC.  
72: IKEGAYA, Morihiko, ECHIZENYA, Takatsugu, SOTA, Hiroyoshi  
33: JP 31: 2017-121050 32: 2017-06-21  
**54: DISCHARGE NOZZLE FOR NANO FIBER MANUFACTURING DEVICE AND NANO FIBER MANUFACTURING DEVICE PROVIDED WITH DISCHARGE NOZZLE**

00: -  
The problem addressed by the present invention is to provide a discharge nozzle for a nano fiber manufacturing device and a nano fiber manufacturing device provided with the discharge nozzle wherein when manufacturing nano fiber, specifications such as the diameter of fiber being manufactured can easily be changed, thereby improving device versatility and workability. A discharge nozzle 2 attached to a nano fiber manufacturing device 1 has a divided type nozzle unit 6 formed of: a molten/dissolved resin discharge opening 9 that discharges molten/dissolved resin; a molten/dissolved resin flow path 10 for feeding molten resin to the molten/dissolved resin discharge opening 9; a hot air discharge opening 11 for discharging hot air; and a hot air flow path 12 for feeding hot air to the hot air discharge opening 11. The divided type nozzle unit 6 is of a constitution that can be divided into first through fourth nozzle units 6a – 6d.

21: 2020/00021. 22: 1/2/2020. 43: 3/11/2021  
51: G21F  
71: Joint Stock Company "Rosenergoatom", Joint Stock Company "Science and Innovations"  
72: SHAROV, Aleksandr Nikitovich, SHEVCHENKO, Boris Nikolaevich, NEUPOKOEV, Mikhail Alekseevich  
33: RU 31: 2018117551 32: 2018-05-11  
**54: ASSEMBLY FOR THE ELECTROCHEMICAL DECONTAMINATION OF METALLIC RADIOACTIVE WASTE**

00: -  
The invention relates to devices for ridding radioactive waste of radioactive contamination. An assembly for the electrochemical decontamination of metallic radioactive waste includes a pipeline equipped with a shutoff valve, and a metallic radioactive waste treatment module comprising a unit for the electrochemical decontamination of metallic radioactive waste which is connected by a ventilation channel to a ventilation module and by a decontaminating solution supply and discharge pipeline equipped with a shutoff valve to a module for receiving decontaminating solution. The installation is equipped with a module for preparing decontaminating solution connected by the decontaminating solution supply and discharge pipeline, which is equipped with at least one pump,

to the unit for the electrochemical decontamination of metallic radioactive waste and to the module for receiving decontaminating solution. The module for receiving decontaminating solution is provided with purification and pH correction devices for the decontaminating solution, and the unit for the electrochemical decontamination of metallic radioactive waste, the module for receiving decontaminating solution and the module for preparing decontaminating solution are equipped with elements for measuring the pH level. The invention makes it possible to provide adaptive reprocessing of decontaminating solution for repeat use.

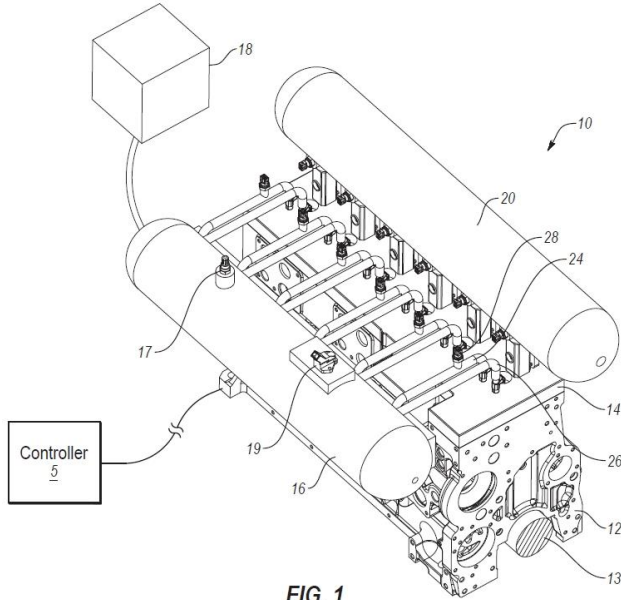
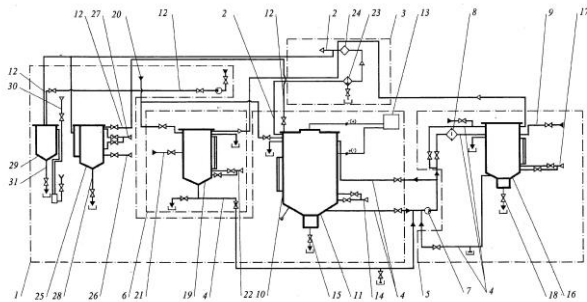


FIG. 1

21: 2020/00098. 22: 07/01/2020. 43: 3/5/2021  
 51: F01L; F02B; F02M  
 71: BUNJES, Douglas David  
 72: BUNJES, Douglas David  
 33: US 31: 62/529,462 32: 2017-07-06  
**54: COMBUSTION SYSTEM AND METHODS**  
 00: -  
 Embodiments disclosed herein relate to internal combustion engines, combustion systems that include such internal combustion engines, and controls for controlling operation of the combustion engine. The internal combustion engine may include one or more mechanisms for injecting fuel, air, fuel-air mixture, or combinations thereof directly into one or more cylinders, and controls may operate or direct operation of such mechanisms.

21: 2020/00109. 22: 08/01/2020. 43: 4/9/2021  
 51: C07K; A61P  
 71: MABYLON AG, UNIVERSITÄT ZÜRICH PROREKTORAT MNW  
 72: Adriano AGUZZI (Swiss Citizen), Tiziana SONATI (Swiss Citizen), Dimitri BIELI (Swiss Citizen), Natascha WUILLEMIN (Swiss Citizen)  
 33: EP 31: 18160974.4 32: 2018-03-09  
 33: GB 31: 1710059.5 32: 2017-06-23  
**54: ANTI-ALLERGEN ANTIBODIES**  
 00: -  
 The present invention generally relates to antibodies or binding fragments thereof capable of binding an allergen, in particular a food allergen as well as pharmaceutical compositions comprising such antibodies or binding fragments thereof for the treatment of allergy, in particular food allergy. In addition the invention relates to methods for evaluating the capacity of a candidate antibody or binding fragment thereof to inhibit allergen binding/ and/or allergen- induced activity in a human and methods of detecting or quantifying whether an allergen is present in a sample.

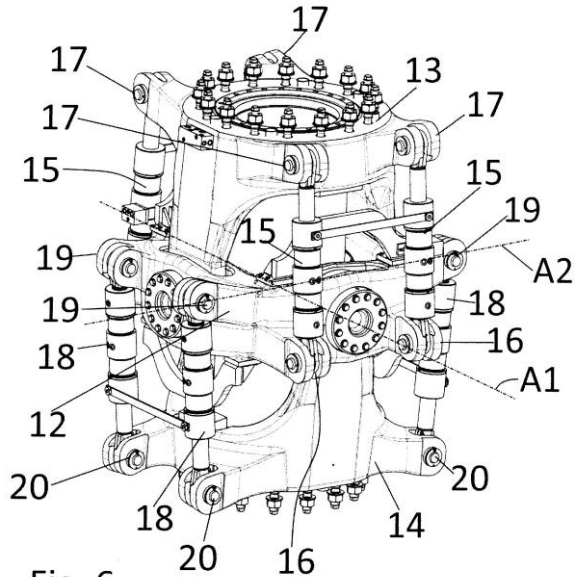
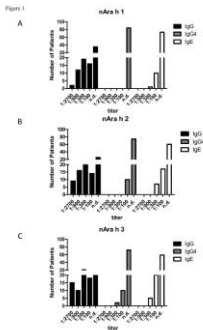


Fig. 6

21: 2020/00216. 22: 1/13/2020. 43: 2/26/2021  
 51: E21B; F16D  
 71: MHWirth GmbH  
 72: KLEINEN, Torsten, JANSEN, Roman  
 33: DE 31: 10 2017 115 848.0 32: 2017-07-14  
**54: UNIVERSAL JOINT FOR USE IN A DRILLING DEVICE, AND DRILLING DEVICE**

00: -  
 The invention relates to a universal joint (8, 9) comprising a crosspiece (12), a first flange piece (13) which is connected to the crosspiece (12) so as to be pivotable about a first axis (A1), and a second flange piece (14) which is connected to the crosspiece (12) about a second axis (A2) crossing the first axis (A1) at a right angle, wherein first and second piston/cylinder units (15, 18) are provided, using which the universal joint (8, 9) can be locked selectively for pivoting about the first and second axes (A1, A2). The invention also relates to a drilling device (100) having such a universal joint (8, 9).

21: 2020/00233. 22: 13/01/2020. 43: 11/25/2020  
 51: C05F; C12M  
 71: HOME BIOGAS LTD  
 72: EFRATI Oshik Moshe, TELLER Yair, LANZER Erez, ZAK Shoham  
 33: US 31: 15/632,367 32: 2017-06-25  
**54: LIGHTWEIGHT APPLIANCE WITH EXOSKELETAL SUPPORT RESPECTIVE KIT-OF-PARTS AND METHOD FOR PRODUCTION OF BIOGAS AND LIQUID FERTILIZER**

00: -  
 An assemblable appliance and method of recycling organic waste into biogas and liquid fertilizer, implementing essentially anaerobic digestion processes, is described. The assemblable appliance includes: a pliant structured exoskeletal envelope, pliable collapsible anaerobic digester and gas tank. A compact kit-of-parts for assembling the aforementioned appliance and respective method using the aforementioned appliance for recycling organic waste into biogas and liquid fertilizer are described.

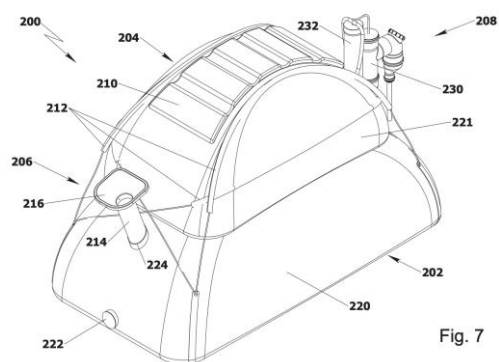


Fig. 7

8 / 11

21: 2020/00407. 22: 21/01/2020. 43: 3/10/2021  
 51: A23L; C12G; A23N  
 71: DELLA TOFFOLA S.P.A.  
 72: DELLA TOFFOLA, GIACOMO  
 33: IT 31: 102017000070472 32: 2017-06-23  
**54: DEVICE AND METHOD FOR TREATING MUST**  
 00: -

A device (12) for treating must, comprising a duct (14) for the flow of said must, having an inlet end (16) and an outlet end (18), characterized in that it comprises inside the duct (14) cutting means (20) comprising at least one rotating cutting blade (22) interfering at least partially with the must flow.

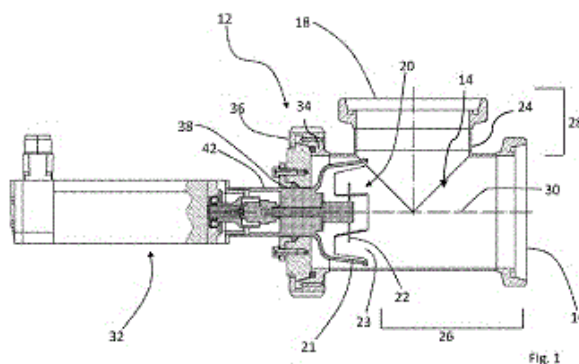


Fig. 1

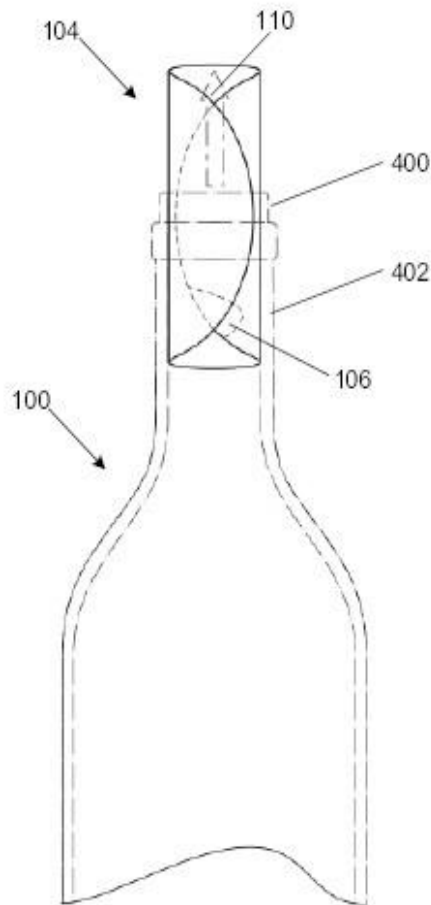
21: 2020/00371. 22: 20/01/2020. 43: 3/2/2021  
 51: A01N; C05F; C12N; C12R  
 71: FUNDACION UNIVERSITARIA SAN PABLO  
 72: GUTIERREZ ALBANCHEZ, Enrique,  
 GUTIERREZ MAÑERO, Francisco Javier, LUCAS  
 GARCIA, Jose Antonio, RAMOS SOLANO, Beatriz  
 33: ES 31: P201730818 32: 2017-06-21  
**54: BACILLUS AMYLOLIQUEFACIENS QV15  
 STIMULANT FOR THE SECONDARY  
 METABOLISM OF PHENOLIC COMPOUNDS AND  
 THE INHIBITORY CAPACITY OF RASBERRY AND  
 STRAWBERRY EXTRACTS FOR ENZYMES  
 RELATED TO METABOLIC SYNDROME**

00: -  
 Bacterial strain *Bacillus amyloliquefaciens* QV15 (CECT 9371), a microorganism from the group of Gram + bacteria, genus *Bacillus*, a stimulant for the secondary metabolism of phenolic compounds, enhancer of the extracts from raspberry and strawberry fruit and leaf for the enzymes related to regulation of blood glucose (alpha-glucosidase), hypertension (angiotensin-converting enzyme, ACE) and inflammation (cyclooxygenase, COX2). This strain has been isolated from the rhizosphere of *Pinus pinea*, in nutrient agar (PCA), and has been characterised from a morphological, biochemical and genetic point of view by sequencing of the 16s gene. It can be used to enhance the properties of the extracts as regards the application thereof to enzymes related to metabolic syndrome, or in order to modify secondary metabolism to enhance phenolic compounds in plant species of agronomic, pharmacological and food interest, and to obtain a greater quantity of active substances and/or novel foods with a standardised phenol content.

21: 2020/00528. 22: 27/01/2020. 43: 4/9/2021  
 51: G21C  
 71: STATE ATOMIC ENERGY CORPORATION  
 "ROSATOM" ON BEHALF OF THE RUSSIAN  
 FEDERATION  
 72: AFREMOV, Dmitrij Aleksandrovich,  
 SAFRONOV, Denis Viktorovich, HIZHNYAK,  
 Evgeniya Sergeevna, NIKEL, Kirill Albertovich,  
 ROMANOVA, Natalia Viktorovna  
 33: RU 31: 2017126521 32: 2017-07-24  
**54: METHOD OF ESTABLISHING NATURAL  
 CIRCULATION OF A LIQUID METAL COOLANT IN  
 A FAST NEUTRON REACTOR**  
 00: -



The invention relates to the field of nuclear engineering and can be used in establishing the natural circulation of a liquid metal coolant in the cooling loop of a fast neutron reactor. In order to generate a dynamic circulatory pressure without using pumping equipment and to provide the required direction of natural circulation of a liquid metal coolant in the cooling loop of a fast neutron reactor in the absence of heat transfer from the reactor, the piping and equipment of the upward portion and the downward portion of the loop prior to being filled are preheated electrically to a temperature of  $T_1$  and  $T_2$  respectively, said temperatures being selected on condition of satisfying the inequality:  $\rho_1(T_1) \cdot g \cdot \Delta H_1 > \rho_2(T_2) \cdot g \cdot \Delta H_2 + \Delta P$ , where:  $\rho_1(T_1)$  is the density of the liquid metal coolant at a temperature  $T_1$  of the piping and equipment in the upward portion;  $\rho_2(T_2)$  is the density of the liquid metal coolant at a temperature  $T_2$  of the piping and equipment of the downward portion;  $\Delta H_1$  is the difference in height between the inlet and the outlet of the upward portion;  $\Delta H_2$  is the difference in height between the inlet and the outlet of the downward portion;  $\Delta P$  is the hydraulic resistance of the loop;  $g$  is the acceleration of gravity. The start-up of coolant circulation in the loop and the transition to natural circulation mode are carried out simultaneously and before the nuclear reactor reaches normal operating parameters by creating a dynamic circulatory pressure as a result of the difference in the densities  $\rho_1(T_1)$  and  $\rho_2(T_2)$  of the liquid metal coolant in the upward and downward portions of the loop respectively.



21: 2020/00562. 22: 28/01/2020. 43: 3/30/2021  
51: B65D

71: ROSSOUW, Johannes Christoffel

72: ROSSOUW, Johannes Christoffel

33: ZA 31: 2017/06893 32: 2017-10-12

**54: A WINE POURER AND AERATOR, AND LABEL INCORPORATING SAME**

00: -

A resiliently flexible planar pourer (104) rollable into a tubular pouring shape suitable for placement into a mouth (400) and neck (402) of a vessel (100) to define an operating condition wherein it provides a flow path from the vessel (100) and wherein the pourer (104) presses against side walls of the neck (402) under its own resilience. The pourer (104) comprises an obstruction tab (106) foldable towards an obstructing condition wherein it projects towards an interior of the tubular pouring shape when the pourer (104) is in the operating condition so as to obstruct the flow path. The invention extends to a label comprising a body with a pourer (104) incorporated therein.

21: 2020/00639. 22: 1/30/2020. 43: 3/12/2021

51: A61L; C02F; H01L

71: Seoul Viosys Co., Ltd.

72: JEONG, Woong-Ki, JEONG, Jae-Hak, YU, Si-Ho, JOO, Byung-Chul, CHOI, Jae-Young, HAN, Kyu-Won, YOON, Yeo-Jin

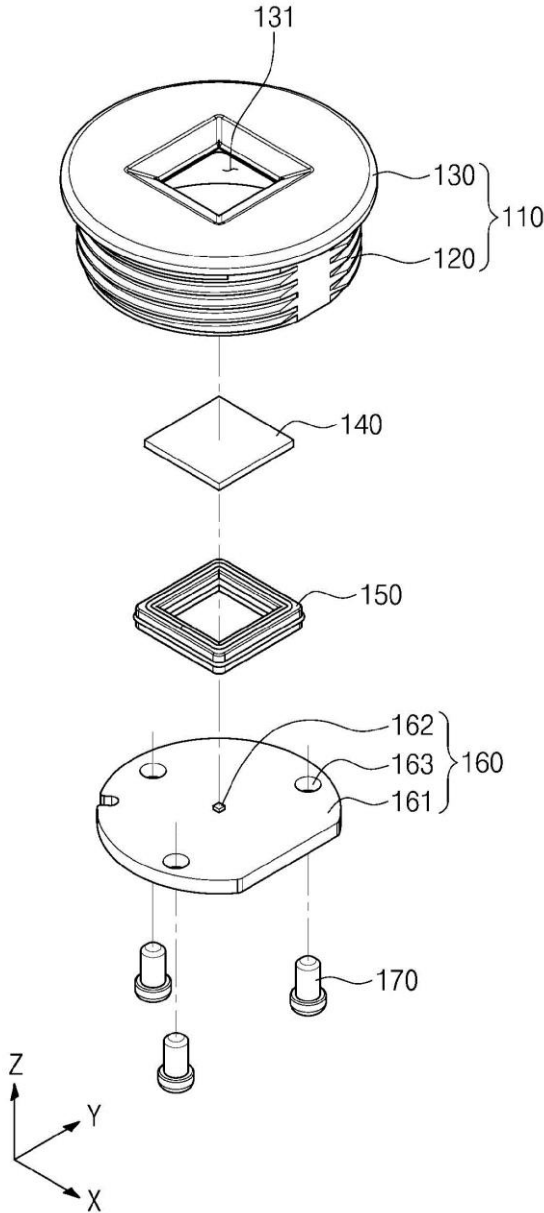
33: KR 31: 10-2017-0086724 32: 2017-07-07

**54: STERILIZING MODULE**

00: -

Provided, according to one embodiment of the present invention, is a sterilizing module, comprising: a main body having an ultraviolet outlet formed therein; a transparent member, positioned at the ultraviolet outlet, for transmitting ultraviolet rays; and a light source unit for irradiating ultraviolet rays toward the transparent member, wherein the light source unit comprises: a light emitting diode chip; and a circuit board on which the light emitting diode chip is mounted, in which the light emitting diode chip comprises: a growth substrate; and a conductive type semiconductor layer formed on the

growth substrate, and wherein the ultraviolet rays are irradiated toward the transparent member through the growth substrate. The sterilizing module further comprises a sealing member for forming a separation space between the transparent member and the circuit board, wherein the distance between the transparent member and the circuit board separated by the sealing member is greater than the height of the light emitting diode chip.

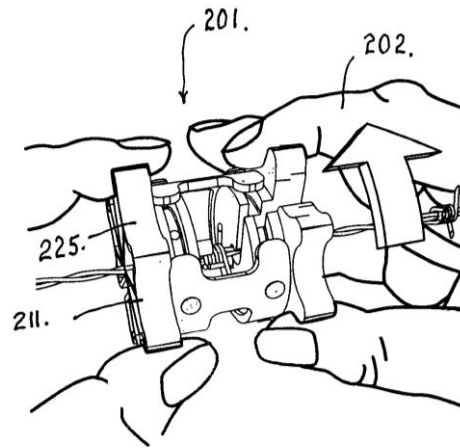


21: 2020/00982. 22: 17/02/2020. 43: 2/12/2021  
 51: B21F; B25B; E04H  
 71: WIREMAN PTY LIMITED

72: LOWREY, Ian  
 33: AU 31: 2018902509 32: 2017-07-11  
 33: AU 31: 2017903937 32: 2017-09-28

**54: A TOOL FOR BARBED WIRE**

00: -  
 A Tool (1) For Loosening Or Removing A Set (2) Of Barbs (3) From Barbed Wire (4) Is Disclosed. The Barbed Wire Has At Least One Strand (7) Of Wire And A Plurality Of Spaced Apart Sets Of Barbs Wound Around The Wire. The Barbs Extend In Substantially Opposite Directions From A Wire Helix (6) Wound Around The Wire. The Tool Has First And Second Portions (11) Each Engageable With The Wire And Having An Opposed Levering Element (8) That Is Radially Offset From The Wire For Applying Leverage To The Helix. Rotation Of The Portions In A First Direction Abuts Each Of The Levering Elements Against A Corresponding One Of The Pair Of Barbs To Unwind Or Unfurl The Helix.



21: 2020/01042. 22: 2/19/2020. 43: 3/10/2021  
 51: C07K G01N A61K  
 71: DONG-A UNIVERSITY RESEARCH FOUNDATION FOR INDUSTRY-ACADEMY COOPERATION, PRESTIGE BIOPHARMA PTE. LTD.

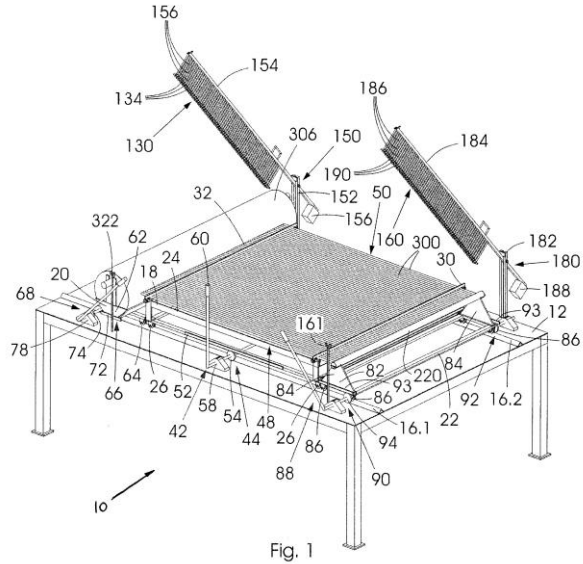
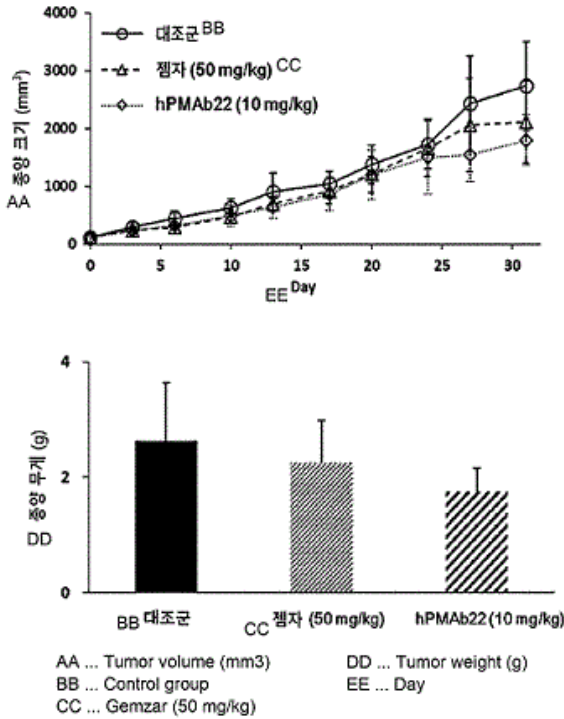
72: KOH, Sang Seok, KIM, Yeon Jeong, YOUN, So Eun, KIM, Song Cheol, HONG, Seung-Mo, JEONG, Seong Yun

33: KR 31: 10-2017-0096370 32: 2017-07-28

**54: ANTIBODY SPECIFICALLY BINDING TO PAUF PROTEIN, AND USE THEREOF**

00: -  
 The present invention relates to an antibody specifically binding to a pancreatic adenocarcinoma upregulated factor (PAUF) protein, and a use

thereof. The antibody of the present invention binds to the PAUF protein with high specificity and affinity and inhibits the proliferation, migration, penetration and in vivo growth of cancer cells, thereby being effectively used in the field of diagnosis and treatment of diseases, such as cancer, in which the PAUF protein is overexpressed.

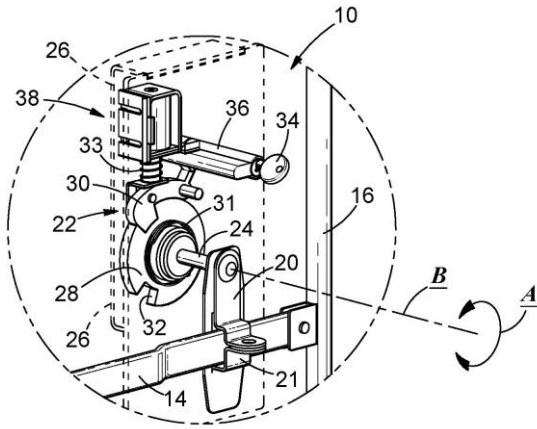


21: 2020/01247. 22: 27/02/2020. 43: 4/7/2021  
 51: E05B  
 71: FLY, Derek, Mark  
 72: FLY, Derek, Mark  
 33: ZA 31: 2017/05241 32: 2017-08-03  
**54: A LOCKING ARRANGEMENT**  
 00: -

This invention relates to a locking arrangement (10) for a door (12) of a goods container (100), to a goods container (100), and to a method of retrofitting a locking arrangement (10) to a goods container (100). The locking arrangement (10) comprises a locking member (20) which is pivotably mounted A to the container (100), more specifically to the container door (12). The locking member (20) is pivotably displaceable A about a pivot axis B between an engaged position whereby, when a lever (14) is in its locking position, the movement of the lever (14) is inhibited and the door (12) is locked, and a disengaged position wherein the lever (14) is permitted to move to open the door (12) via the bar (16) and cams (18). Retaining means (22) is provided for retaining the locking member (20) at its pivot axis B when the locking member (20) is in the engaged position, whereby displacement of the locking member (20) is restricted.

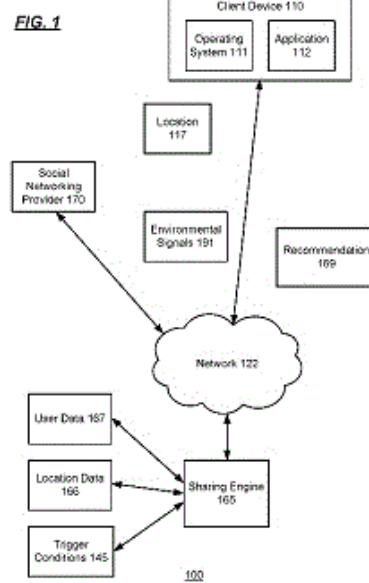
21: 2020/01049. 22: 19/02/2020. 43: 4/30/2021  
 51: B21D; B23P; F28F  
 71: GREEN ENERGY INVESTMENT GROUP LLC  
 72: WILLIAMSON, Shawn, Brook  
 33: US 31: 62/534,491 32: 2017-07-19  
**54: AN APPARATUS AND METHOD FOR MANUFACTURING A SOLAR COLLECTOR**  
 00: -

The apparatus 10 includes a table 12 which defines a flat top surface 14. Two spaced apart, parallel tracks 16.1, 16.2 are mounted on top of the surface 14. A first positioning arrangement 18, is displaceably mounted on top of the tracks 16. When in use, a plurality 5 of collector tubes 300 can be arranged parallel to one another on top of the frame 24 such that they extend along a displacement path 400 of the tracks 16 and are substantially perpendicular to tubes 306 and 308.



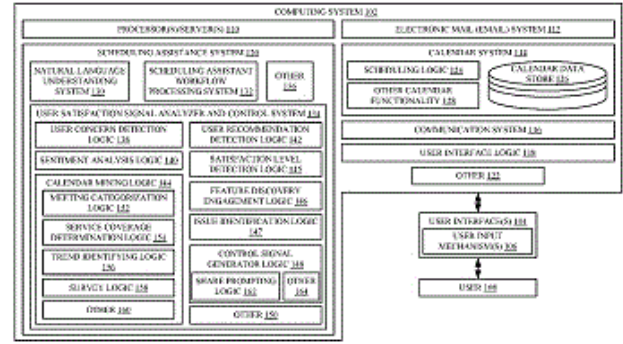
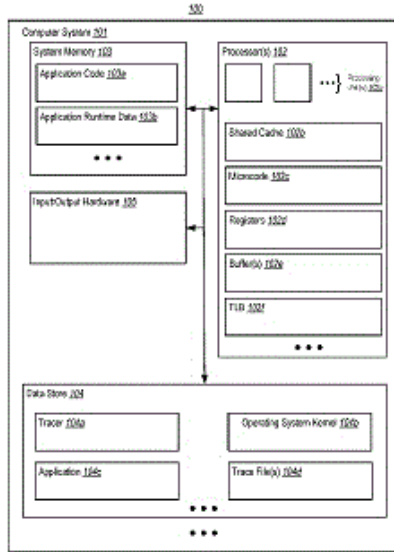
21: 2020/01257. 22: 27/02/2020. 43: 3/9/2021  
 51: G01S; G06F; G09B; H04W  
 71: MICROSOFT TECHNOLOGY LICENSING, LLC  
 72: RUSU, ANDI F, ANDREW, FELIX G.T.I,  
 HALVORSEN, PATRICK MICHAEL  
 33: US 31: 15/703,738 32: 2017-09-13  
**54: ENABLING AND DISABLING LOCATION  
 SHARING BASED ON ENVIRONMENTAL  
 SIGNALS**

00: -  
 Environmental signals are used to determine when to prompt a user to enable location sharing on their computer devices. These environmental signals may include the current location of the user being an unusual location for the user or a location that is tagged as a known social location such as a concert venue, stadium, or park. The environmental signals may also include one or more friends of the user being near the user. If the user chooses to enable location sharing in response to the prompt, the location of the user may be shared with some or all of their friends, or just the friends that have been determined to be near the user. After some amount of time has passed, or the environmental signals have changed, the location sharing may be automatically disabled for the user.



21: 2020/01262. 22: 27/02/2020. 43: 3/9/2021  
 51: G06F  
 71: MICROSOFT TECHNOLOGY LICENSING, LLC  
 72: MOLA, JORDI  
 33: US 31: 62/559,780 32: 2017-09-18  
 33: US 31: 15/915,930 32: 2018-03-08  
**54: CACHE-BASED TRACE RECORDING USING  
 CACHE COHERENCE PROTOCOL DATA**

00: -  
 Performing a cache-based trace recording using cache coherence protocol (CCP) data. Embodiments detect that an operation that causes an interaction between a cache line and a backing store has occurred, that logging is enabled for a processing unit that caused the operation, that the cache line is a participant in logging, and that the CCP indicates that there is data to be logged to a trace. Embodiments then cause that data to be logged to the trace, which data is usable to replay the operation.

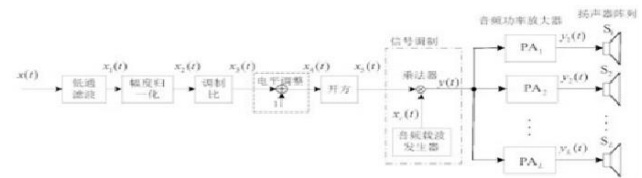


21: 2020/01263. 22: 27/02/2020. 43: 3/9/2021  
 51: H04L; G06F  
 71: MICROSOFT TECHNOLOGY LICENSING, LLC  
 72: CHEUNG, BENJAMIN GENE, MONROY-HERNANDEZ, ANDRES, NEWMAN, TODD DANIEL, CARVALHO NETO, MAYERBER LOUREIRO DE, PALMER, MICHAEL BRIAN, BHATTACHARYA, PAMELA, CRANSHAW, JUSTIN BROOKS, LEE, CHARLES YIN-CHE  
 33: US 31: 15/714,077 32: 2017-09-25  
**54: NATURAL LANGUAGE PROCESSING AND ANALYSIS IN A CONVERSATIONAL SCHEDULING ASSISTANT COMPUTING SYSTEM**  
 00: -

A software agent, that is used to assist in providing a service, receives communications from a set of users that are attempting to use the software agent. The communications include communications that are interacting with the software agent, and communications that are not interacting with the software agent. The software agent performs natural language processing on all communications to identify such things as user sentiment, user concerns or other items in the content of the messages, and also to identify actions taken by the users in order to obtain a measure of user satisfaction with the software agent. One or more action signals are then generated based upon the identified user satisfaction with the software agent.

21: 2020/01274. 22: 27/02/2020. 43: 4/12/2021  
 51: H04R  
 71: SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY  
 72: ZHAO, Hongliang, WANG, Yan, HE, Dongdong, WANG, Sen  
 33: CN 31: 201710753022.9 32: 2017-08-29  
**54: DIRECTIONAL ACOUSTIC WAVE EMISSION DEVICE AND METHOD FOR REPELLING BIRDS**  
 00: -

A directional acoustic wave emission device and method for repelling birds. The device includes a low-frequency signal processing unit, a signal modulation unit, an audio power amplifier array, and a loudspeaker array. The low-frequency signal processing unit includes a low-pass filter, a modulation ratio module, a level adjustment module, and a square root module, where an input signal is the natural enemy sound of birds or another sound that makes birds frightened, and is located on a relatively low frequency band of the audio range. The signal modulation unit includes modules such as an audio carrier generator and a multiplier. An audio carrier signal is on a relatively high frequency band of the audio range. A modulated signal is equal to the product of the carrier signal and a low-frequency signal, and is driven by the audio power amplifier array and sent out through the loudspeaker array to generate a sound beam.



21: 2020/01290. 22: 28/02/2020. 43: 4/7/2021  
 51: C04B; E04B  
 71: USG INTERIORS, LLC

72: XU, Wei, MAYERS, Thomas M., BAKKEN, Scott C.

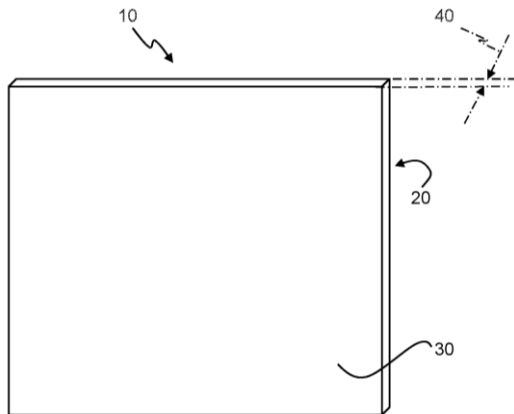
33: US 31: 15/674,707 32: 2017-08-11

**54: HIGH NOISE REDUCTION COEFFICIENT, LOW DENSITY ACOUSTICAL TILES**

00: -

Acoustical tile including a dried base mat of: about 70 to about 90 wt% mineral wool; about 5 to about 15 wt% perlite; 0 to about 10 wt% starch; about 3 to about 10 wt% latex; 0 to about 5 wt% gypsum; and less than 5 wt% water. The dried base mat without including glass fibers and without a laminate layer or coating and without perforations has a NRC of about 0.70 or greater, a density of about 10 pcf to about 12 pcf, and a thickness of about 1/2 to about 1 inch.

The acoustical tile can further include a back coating at a surface weight of about 5 grams per square foot (gsf) to about 40 gsf to the dried base mat, wherein the acoustical tile has the CAC rating of about 30 to about 35.



21: 2020/01292. 22: 28/02/2020. 43: 3/2/2021

51: A61F; A61M

71: SMITH & NEPHEW PLC

72: HARRISON, Frederick, Jethro, KELBIE, William, ROBINSON, Joseph, William, STEWARD, Daniel, Lee, WEST, Grant

33: US 31: 62/558267 32: 2017-09-13

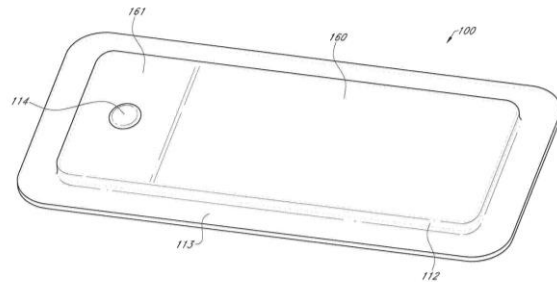
33: GB 31: 1718070.4 32: 2017-11-01

**54: NEGATIVE PRESSURE WOUND TREATMENT APPARUSES AND METHODS WITH INTEGRATED ELECTRONICS**

00: -

Disclosed herein are embodiments of a wound treatment apparatus with electronic components integrated within a wound dressing. In some embodiments, a wound dressing apparatus can

comprise a wound dressing. The wound dressing can comprise an absorbent material, an electronics unit comprising a negative pressure source, the electronics unit integrated within the wound dressing and at least partially encapsulated by a flexible film. The flexible film can comprise a window or aperture configured to permit fluid communication between the absorbent material and the negative pressure source.



21: 2020/01308. 22: 2/28/2020. 43: 3/29/2021

51: H04W

71: Huawei Technologies Co., Ltd.

72: SHAO, Jiafeng

33: CN 31: 201710682571.1 32: 2017-08-10

**54: UPLINK TRANSMISSION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE**

00: -

The application provides an uplink transmission method and a terminal device. The method comprises: a terminal device setting first transmission power for a first uplink channel according to a channel priority of the first uplink channel and a channel priority of a first physical random access channel (PRACH), wherein the first uplink channel comprises at least one of a physical uplink shared channel (PUSCH) and a physical uplink control channel (PUCCH), a first time domain resource in which the first uplink channel is located overlaps with a second time domain resource in which the first PRACH is located, the channel priority of the first uplink channel is higher than or equal to that of the first PRACH, and the first transmission power is greater than 0; and the terminal device sending the first uplink channel using the first transmission power. When compared with existing solutions, the method of the application preferentially sets transmission power for the PUSCH and/or the PUCCH, thereby improving service transmission quality.

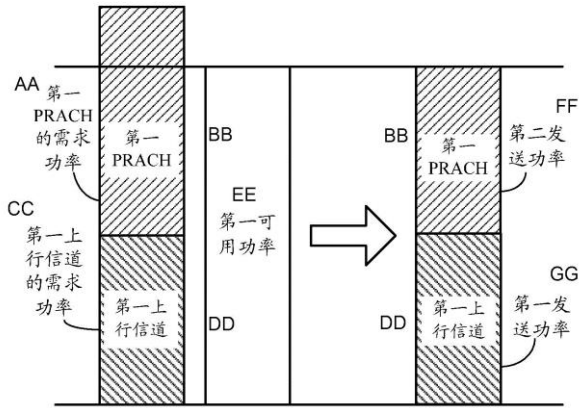


图 7

- AA Required power of first PRACH
- BB First PRACH
- CC Required power of first uplink channel
- DD First uplink channel
- EE First available power
- FF Second transmission power
- GG First transmission power

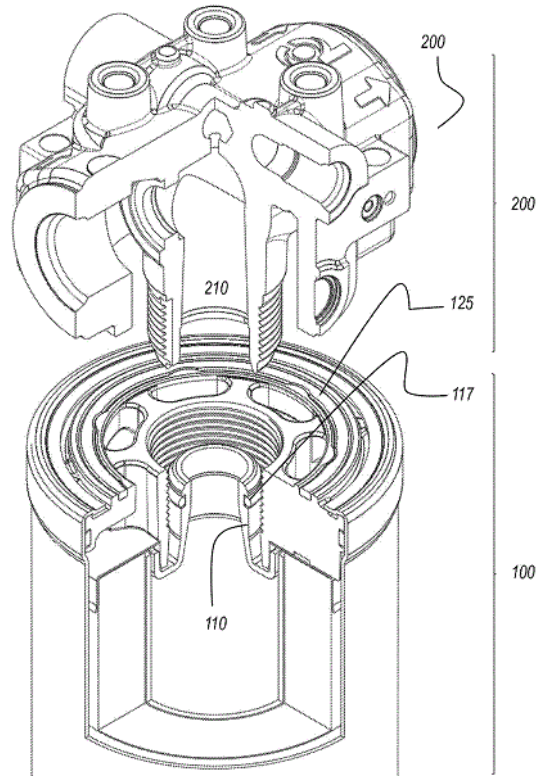
21: 2020/01382. 22: 3/4/2020. 43: 3/12/2021  
 51: C12N C12P  
 71: CJ CHEILJEDANG CORPORATION  
 72: CHOI, Sun Hyoung, CHANG, Jin Sook, KIM, Hyung Joon, YOON, Byoung Hoon, LEE, Ji Yeon, CHOI, Yunjung  
 33: KR 31: 10-2018-0028184 32: 2018-03-09  
**54: NOVEL PROMOTER AND L-AMINO ACID PRODUCTION METHOD USING SAME**  
 00: -

The present application relates to a novel promoter and an L-amino acid production method using same and, more specifically, to a novel polynucleotide having promoter activity, a vector and a *Corynebacterium* sp. microorganism comprising same, an L-amino acid production method using the microorganism, a method for preparing a fermented compound, and the fermented compound.

21: 2020/01383. 22: 3/4/2020. 43: 3/29/2021  
 51: B01D  
 71: DONALDSON COMPANY, INC.  
 72: WILLEMS, Gert  
 33: EP 31: 17186061.2 32: 2017-08-11  
**54: A SPIN-ON FLUID TREATMENT DEVICE AND METHODS**  
 00: -

The disclosure pertains to a spin-on fluid treatment device, including a treatment medium disposed within a housing, a top surface having an internally threaded bore and an outlet tube at least partially

disposed inside said threaded bore in a concentric position. The outlet tube can have an externally oriented sealing portion for engaging with a complementary element of an inlet spud of an entity that receives said treated fluids. The outlet tube can be configured as an alignment feature to guide the treatment device onto the inlet spud during installation. The outlet tube can be configured with both an externally oriented sealing portion and an alignment feature. The disclosure also pertains to a system comprising a machine having a treatment device head and a spin-on fluid treatment device, a kit, a spin-on fluid filter cartridge, and a method of mounting a spin-on filter cartridge onto a filter head.



21: 2020/01469. 22: 3/9/2020. 43: 3/24/2021  
 51: G06Q, G06F, H04W  
 71: PAPADOPULO, Andrea  
 72: PAPADOPULO, Andrea  
 33: ZA 31: 2019/01513 32: 2019-03-12  
**54: A WEB-BASED MARKETING TECHNOLOGY AND CHANNEL TO EXPERIENCE AUGMENTED REALITY (AR) PRODUCT AND SERVICE OFFERING VIA A COMPUTER OR MOBILE DEVICE**  
 00: -

The invention provides an Augmented Reality (AR) system to permit a user to experience augmented reality (AR) product and service offering via a computer or mobile device, which system is comprised of a dedicated cloud-based server which will host the advertiser's AR embedded webpage/s and which embedded webpage will contain the product/service animation. The invention extends to method of compressing the delivery of an animation file using low polygon (triangular) count in a glTF (GL Transmission Format), a file format utilising the JSON (JavaScript Object Notation) and .GLB files that contain a 3D model saved in the GL Transmission Format (glTF). The invention further extends to a related algorithm and software.

21: 2020/01526. 22: 3/11/2020. 43: 3/19/2021  
51: C07D

71: BASF SE

72: BLANCHOT, Mathieu, MEISENBURG, Uwe, MAURER, Steffen, PETZOLDT, Jochen, HOEFENER, Tobias, BREITSCHIEDL, Boris, MISSKE, Andrea, FLEISCHHAKER, Friederike, KALLER, Martin, FLECKENSTEIN, Christoph, STENGEL, Ulrik, NAIR, Ritesh

33: EP 31: 17186588.4 32: 2017-08-17

**54: PROCESS FOR PRODUCING (METH)ACRYLATES FROM GLYCEROL CARBONATE**

00: -

Process for producing esters of (meth)acrylic acid or a derivative thereof by reaction of (meth)acrylic acid or a derivative thereof with glycerol carbonate in the presence of at least one enzyme which catalyzes the esterification reaction, in the absence of a solvent and at a reaction temperature of 10°C to 150°C.

21: 2020/01588. 22: 13/03/2020. 43: 3/11/2021

51: A61K; A61P

71: STELLENBOSCH UNIVERSITY

72: PRETORIUS, Etheresia, KELL, Douglas Bruce

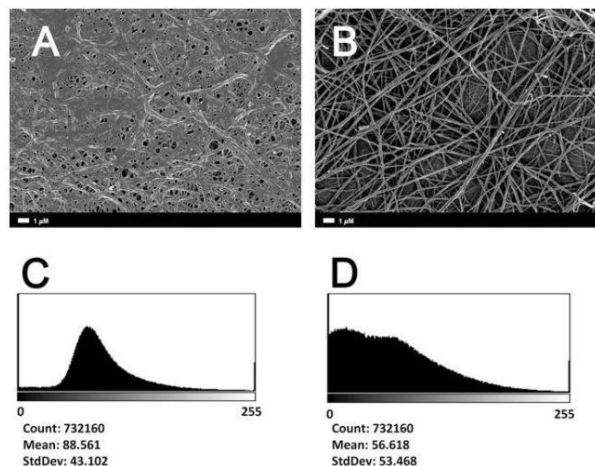
33: ZA 31: 2017/05548 32: 2017-08-16

**54: METHOD OF TREATING A NEUROINFLAMMATORY DISORDER**

00: -

A method for treating a subject suffering from a neuroinflammatory disorder is provided. The method includes administering to the subject a therapeutically effective amount of lipopolysaccharide-binding protein (LBP). A composition including a therapeutically effective

amount of LBP is also provided. The neuroinflammatory disorder may be Alzheimers disease.



21: 2020/01702. 22: 3/18/2020. 43: 2/26/2021

51: C08J

71: EVONIK OPERATIONS GMBH

72: TRASSL, Christian, HOLLEYN, Denis, BERNHARD, Kay

33: EP 31: 17187663.4 32: 2017-08-24

**54: PEI PARTICLE FOAMS FOR APPLICATIONS IN AVIATION INTERIORS**

00: -

Polyetherimide (PEI)-based polymer foams comply with the statutory requirements on interiors in aviation demanded by the aviation industry. The requirements concerning fire behaviour, resistance to media and mechanical strength in particular represent significant challenges. Suitable polymer foams are produced as semi-finished products in the prior art. Post-processing into shaped parts is uneconomic in terms of time and the use of material, because of the large volumes of cutting waste, for instance. The invention solves this problem in that the material that is, in principle, suitable can be processed into particle-foam shaped parts. Said shaped parts can be produced without post-processing in short cycle times and hence economically. Furthermore, new options arise for function integration, such as the direct foam moulding of inserts, etc., and in respect of design freedom.

21: 2020/01727. 22: 18/03/2020. 43: 2/26/2021

51: B25H; B62J; B65D

71: DLIP LIMITED



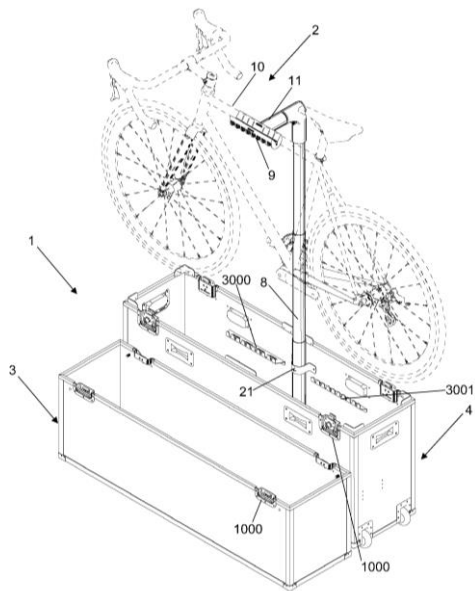
72: LIM, David Tien Ang, ROGERS, Jason Paul, BREWSTER, Graham

33: NZ 31: 735635 32: 2017-09-19

**54: IMPROVEMENTS IN AND RELATING TO TRANSPORTATION**

00: -

A protective case for a bicycle which is an enclosed hollow rectangular cuboid including a top half; a lower half; wherein said top and lower halves releasably connect together to form the enclosed cuboid; and wherein each of said halves has: rigid outer wall sections for each surface of the cuboid so that the cuboid is fully enclosed; wherein at least the lower half has a stand attached thereto and said stand being adapted to connect to a bicycle frame of the bicycle and said case being adapted to support said bicycle when the stand is in, either: a non-extended position; and an extended position.



21: 2020/01761. 22: 19/03/2020. 43: 3/23/2021

51: E02F

71: SSAB TECHNOLOGY AB

72: COULSON, BRIAN

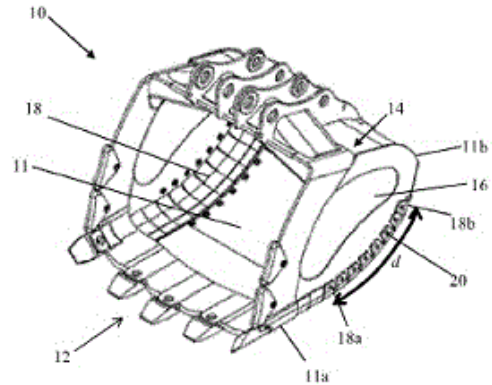
33: EP 31: 17196076.8 32: 2017-10-12

**54: EXCAVATOR BUCKET & MANUFACTURING METHOD**

00: -

Bucket (10) for an earth-working or materials-handling machine, which comprises a floor (11) and a side wall (16), and at least one wear component (18) that is removably attached to the floor (11) and

the side wall (16) by means of at least one mechanical fastener (20). The floor (11) and the side wall (16) are disconnectably connected to each other via the at least one wear component (18) so as to form a placeable bucket corner edge along at least a part of the floor (11) and the side wall (16).



21: 2020/01786. 22: 3/20/2020. 43: 2/26/2021

51: A01G; G06Q

71: The Climate Corporation

72: RUFF, Thomas Gene, BULL, Jason Kendrick, CIZEK, Nicholas Charles, RINKENBERGER, Brandon, SAUDER, Doug

33: US 31: 62/548,396 32: 2017-08-21

**54: DIGITAL MODELING AND TRACKING OF AGRICULTURAL FIELDS FOR IMPLEMENTING AGRICULTURAL FIELD TRIALS**

00: -

A system for implementing a trial in one or more fields is provided. In an embodiment, a server computer receives field data for a plurality of agricultural fields. Based, at least in part, on the field data for the plurality of agricultural fields, the server computer identifies one or more target agricultural fields. The server computer sends, to a field manager computing device associated with the one or more target agricultural fields, a trial participation request. The server receives data indicating acceptance of the trial participation request from the field manager computing device. The server determines one or more locations on the one or more target agricultural fields for implementing a trial and sends data identifying the one or more locations to the field manager computing device. When the server computer receives application data for the one or more target agricultural fields, the server computer determines whether the one or more target

agricultural fields are in compliance with the trial. The server computer then receives result data for the trial and, based on the result data, computes a benefit value for the trial.



FIG. 11

21: 2020/01888. 22: 3/24/2020. 43: 3/23/2021  
51: C07K

71: HANMI PHARM. CO., LTD.

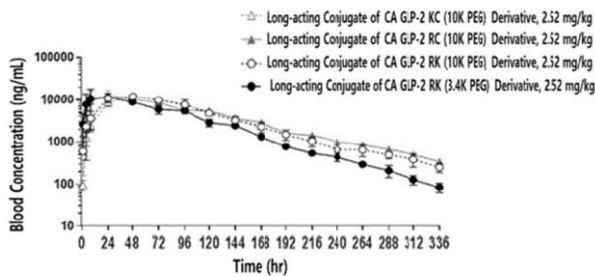
72: CHOI, Jaehyuk, KIM, Min Young, CHOI, In Young, JUNG, Sung Youb

33: KR 31: 10-2017-0126577 32: 2017-09-28

**54: LONG-ACTING CONJUGATE OF GLUCAGON-LIKE PEPTIDE-2 (GLP-2) DERIVATIVE**

00: -

The present invention relates to a glucagon-like peptide-2 (GLP-2) derivative, a conjugate thereof and uses of both. In addition, the present invention relates to a method for preparing a GLP-2 derivative and a conjugate thereof.



21: 2020/01967. 22: 5/4/2020. 43: 3/5/2021

51: B60W; G05D

71: CATERPILLAR INC.

72: MEI, BARRY

33: US 31: 16/373,734 32: 2019-04-03

**54: AVOIDANCE MODIFIER SYSTEM FOR COLLISION AVOIDANCE SYSTEM**

00: -

An avoidance modifier system (140) may be configured to modify operation of a collision avoidance system (138) associated with a machine (102). The avoidance modifier system may include at least one inclination sensor (150) and a modifier system controller (152) configured to be in communication with the collision avoidance system. The modifier system controller may be configured to receive an inclination signal from the inclination sensor and determine an inclination angle (IA) at which the machine is operating relative to level operation. The modifier system controller may be configured to determine an adjusted ground plane angle (AGP) indicative of a virtual ground plane (200) on which the machine is operating, and communicate with the collision avoidance system, such that the collision avoidance system does not activate a braking device (146) of the machine in response to an object sensor (142) generating an object signal indicative of detection of an object between an actual ground plane and the virtual ground plane.

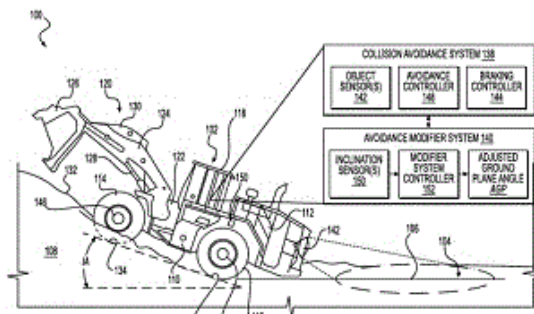


FIG. 1

21: 2020/01968. 22: 5/4/2020. 43: 3/5/2021

51: G05B

71: CATERPILLAR INC.

72: MEI, BARRY

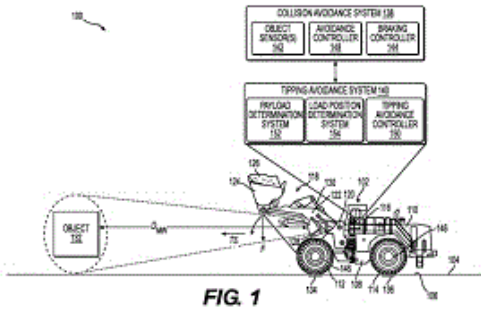
33: US 31: 16/373,818 32: 2019-04-03

**54: TIPPING AVOIDANCE SYSTEM AND METHOD**

00: -

A tipping avoidance system (140) configured to modify operation of a collision avoidance system (138). The tipping avoidance system may include a payload determination system (152) configured to generate a payload signal, and a load position

determination system (154) configured to generate a load position signal. The tipping avoidance system may also include a tipping avoidance controller (150) configured to receive the payload signal and the load position signal, and determine, based at least in part on the payload signal and the load position signal, a minimum stopping distance (D<sub>min</sub>) at or above which a machine will not tip due at least in part to deceleration of the machine from a travel speed to a stopped condition. The tipping avoidance controller may be configured to communicate with a braking controller (144), such that the braking controller adjusts a stop triggering distance based at least in part on the minimum stopping distance.



21: 2020/01969. 22: 5/4/2020. 43: 3/5/2021  
 51: E21B  
 71: CATERPILLAR INC.  
 72: RUETTEN, NATHAN A, MOBERG, CARL J  
 33: US 31: 16/382,948 32: 2019-04-12  
**54: CONTROL SYSTEM FOR DRILLING MACHINES**

00: -  
 A control system (100) for a drilling machine (10) includes a vertically movable and rotatable drill string (28) having a drill bit (30) at a distal end, a hydraulic cylinder (34) coupled to the drill string (28) to provide a motive force for the vertical movement of the drill string (28), the hydraulic cylinder (34) having an extend chamber (102) and a retract chamber (104), a counterbalance valve (112) selectively opening to fluidly couple the retract chamber (104) to a drain (38), and a holdback valve (114) selectively controlled to adjust the opening of the counterbalance valve (112) based on a weight of the drill string (28).

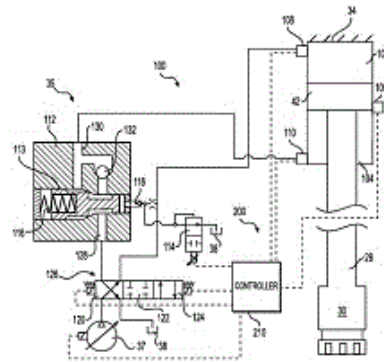
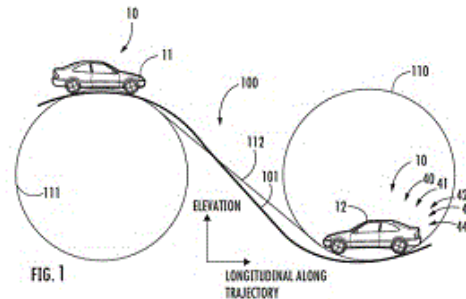


FIG. 2

21: 2020/01971. 22: 5/4/2020. 43: 3/5/2021  
 51: B60W; G05D  
 71: CATERPILLAR INC.  
 72: GRAVES, NOLAN A, TURNER, DAVID K  
 33: US 31: 16/396,035 32: 2019-04-26  
**54: COLLISION AVOIDANCE SYSTEM WITH ELEVATION COMPENSATION**  
 00: -

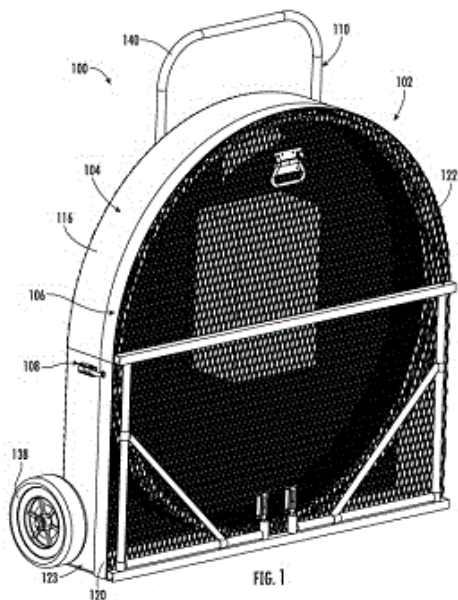
A propulsion and collision avoidance system is associated with a machine (11) operating on the ground (101), and is configured to determine whether a collision will occur based upon the pose and movement of the machine and the pose of the obstacle. The slope of a straight line between the machine and the obstacle is determined based upon the pose of the machine and the pose of the obstacle, and the slope of the straight line is compared to a slope threshold. A collision alert is generated after determining that a collision will occur and when the slope of the straight line is less than the slope threshold, and continuing propulsion commands are generated to propel the machine along the work surface after determining that a collision will occur and when the slope of the straight line is greater than the slope threshold.



21: 2020/01989. 22: 5/4/2020. 43: 3/8/2021

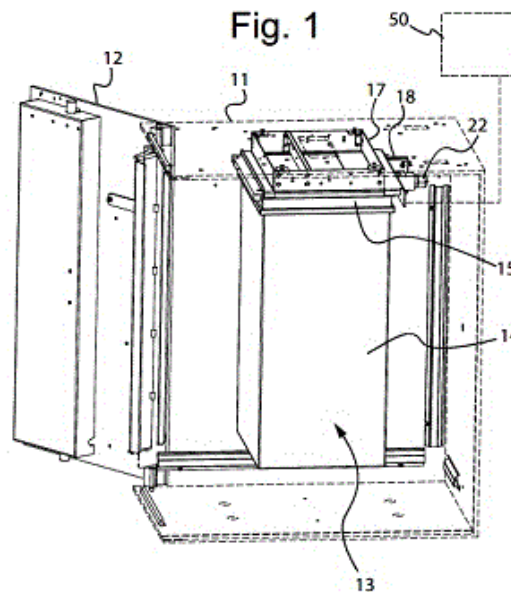
51: E04H; B21F  
 71: ALLIED TUBE & CONDUIT CORPORATION  
 72: SAMARA, CARMEN, MILOSHOFF, MICHAEL, SZKOLA, RAYMOND  
 33: US 31: 62/830,613 32: 2019-04-08  
**54: PORTABLE RAZOR WIRE RAPID DEPLOYMENT UNIT**

00: -  
 A razor wire rapid deployment unit (RDU)/barrier is disclosed. In some embodiments, the RDU includes an enclosure having a first section coupleable with a second section, the enclosure defining an interior area therein. The RDU may further include a razor wire disposed within the interior area of the enclosure, a first end of the razor wire directly coupled to the first section, and a second end of the razor wire directly coupled to the second section. The first and second sides of the enclosure may be separated from one another to deploy the razor wire from a compressed configuration to an expanded configuration.



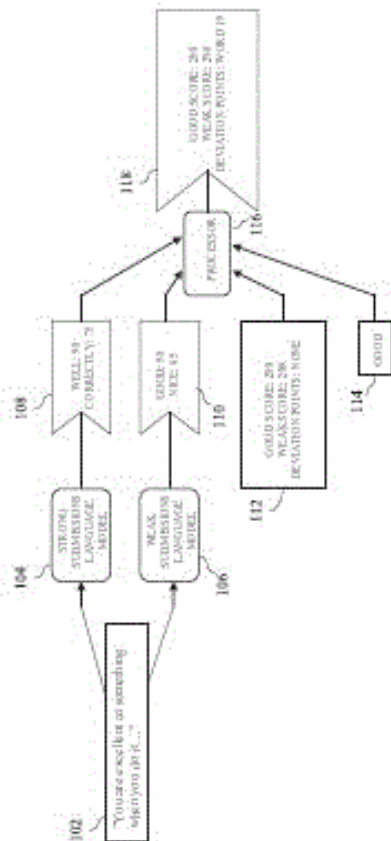
21: 2020/01990. 22: 5/4/2020. 43: 3/8/2021  
 51: G07D  
 71: CIMA S.P.A.  
 72: RAZZABONI, NICOLETTA, RAZZABONI, VITTORIO  
 33: IT 31: 102019000006048 32: 2019-04-18  
**54: SYSTEM FOR THE SAFE COUPLING OF A RE-USABLE BAG TO A BANKNOTE HANDLING AND STORING MACHINE**  
 00: -

A system for the safe coupling of a re-usable bag to a banknote handling and storing machine, comprising a bag container (13), comprised of a rigid upper port (15) and of a flexible bag (14) permanently fixed to said rigid port, a lid (16), designed to be inserted onto the rigid port for closing the bag container (13) when the filling operations are terminated, and a bag-holding frame (17), suitable for being stably fixed to a safe structure of the machine for supporting and hooking the bag container when placed inside the machine to be filled with the banknotes, is provided with first coupling and hooking electro-mechanical means between the bag container and the bag-holding frame and with second coupling and hooking electro-mechanical means between the lid and the bag container, said first and second coupling and hooking electro-mechanical means being interconnected with a control unit to enable the respective functions.



21: 2020/01992. 22: 5/4/2020. 43: 3/3/2021  
 51: G06F  
 71: International Business Machines Corporation  
 72: KURIEN, Toby, YOUNG, Richard, MOLAPO, Maletsabisa, AKHALWAYA, Ismail Yunus  
 33: US 31: 16/401,254 32: 2019-05-02  
**54: AUTOMATED FEEDBACK IN ONLINE LANGUAGE EXERCISES**  
 00: -

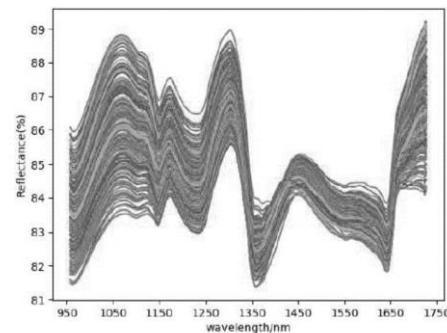
Language models may be run with an input set of words in a given sentence. Each of the language models can predict a set of next candidate words to follow the input set or words. Based on the sets of next candidate words predicted by the language models and an actual next word, language guidance can be provided.



21: 2020/01993. 22: 5/4/2020. 43: 3/3/2021  
 51: G01N  
 71: Qilu University of Technology  
 72: HAN, Yanling, SUN, Rui, YU, Duo  
 33: CN 31: 201911283662.3 32: 2019-12-13  
**54: A METHOD FOR DETECTING THE QUALITY OF FIGS BASED ON NEAR-INFRARED SPECTROSCOPY**

00: -  
 This invention relates to the technical field of agricultural product detection, specifically relates to a method for detecting the quality of figs based on near-infrared spectroscopy; random forest regression algorithm is an integrated learning algorithm, with a decision tree serving as the base learner, using Bagging integrated learning technology to train

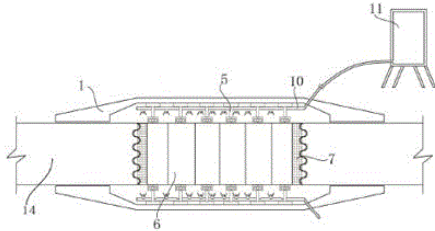
CART decision trees to form forest, among which each single decision tree is not related to each other (FIG 1), taking the average value of output results of multiple decision trees as regression results (FIG 2); so that the problem of overfitting is overcome and the overall model has higher accuracy and generalization performance; lower RMSEC and RMSEP indicates, this invention adopts random forest algorithm to detect the internal quality of green peel figs and achieves good results through experiments. A great amount of experimental data in this description proves that the random forest algorithm has stronger fitting capability than the partial least squares method and is not prone to overfitting.



21: 2020/01994. 22: 5/4/2020. 43: 3/3/2021  
 51: E02D  
 71: Anhui University of Science and Technology  
 72: HUANG, Xianwen, YAO, Zhishu, WANG, Wei, XUE, Weipei, WANG, Xuesong  
 33: CN 31: 202010050551.4 32: 2020-01-17  
**54: REINFORCED ICE SUPPORTING DEVICE FOR FOUNDATION PIT AND METHOD FOR SUPPORTING THROUGH SAME**

00: -  
 A reinforced ice supporting device for a foundation pit and a method for supporting through the same are disclosed. The device includes a shell and lateral pressure maintaining devices. Each lateral pressure maintaining device includes a hydraulic jack, an axial force maintaining push plate and a lateral pressure maintaining plate. The lateral pressure maintaining plates are connected to form a cavity structure filled with reinforced ice and stress detectors. When the reinforced ice supporting device is adopted for supporting, the magnitude of stress of a foundation pit supporting structure is pre-detected firstly, the shell, the hydraulic jacks, the axial force maintaining

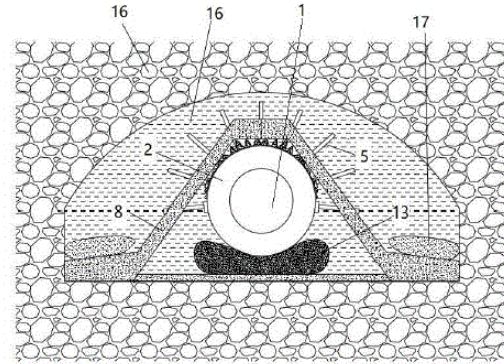
push plates, the lateral pressure maintaining plates and the stress detectors are sequentially mounted at the disconnected position of an inner support in the foundation pit, the disconnected position is filled with a reinforced ice material, and the reinforce ice material is cooled and frozen to provide supporting.



21: 2020/01995. 22: 5/4/2020. 43: 3/3/2021  
51: F28D; H05B  
71: Anhui University of Science and Technology  
72: YAO, Zhishu, HUANG, Xianwen, WANG, Wei, XUE, Weipei, WANG, Xuesong  
33: CN 31: 202010050563.7 32: 2020-01-17  
**54: INDIRECT HEATING DEVICE FOR ABANDONED MINE SHAFT AND HEATING METHOD USING INDIRECT HEATING DEVICE**  
00: -

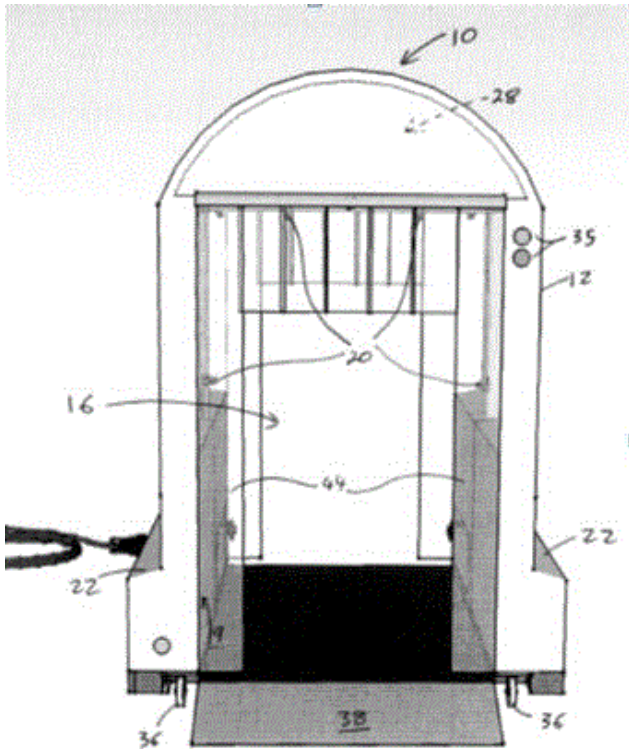
The present disclosure discloses an indirect heating device for an abandoned mine shaft and a heating method using the device. The indirect heating device includes a heating pipeline composed of a heat insulation inner pipe for backflow and a heat conduction outer pipe. The heat conduction outer pipe at the tail end of the heating pipeline is spherical, and is communicated with the heat insulation inner pipe for backflow. The top end of the heating pipeline is connected with a heat exchanger. Spoilers are arranged on the outer wall of the heat insulation inner pipe for backflow and the inner wall of the heat conduction outer pipe. The outer wall of the heat conduction outer pipe is set into a convex slot shape or a groove shape, and is axially provided with heat conduction plates. During heating, the connection end of the laid heating pipeline is connected to the heat exchanger, and a circulating water pump is mounted at a joint. Mixed circulating heat conduction liquid is injected into the heating pipeline, and the flowing of the circulating heat conduction liquid is promoted. The indirect heating device effectively improves the thermal energy collection efficiency. Furthermore, the abandoned mine shaft is reused, which has relatively low impact

on an underground environment. The underground thermal energy reserve is relatively balanced. Meanwhile, by modularized construction, the indirect heating device has relatively high construction efficiency.



21: 2020/02009. 22: 5/4/2020. 43: 3/8/2021  
51: B62B B60S  
71: MEYER, Reynier, Almeroe  
72: MEYER, Reynier, Almeroe  
**54: SHOPPING CART SANITIZING STATION**  
00: -

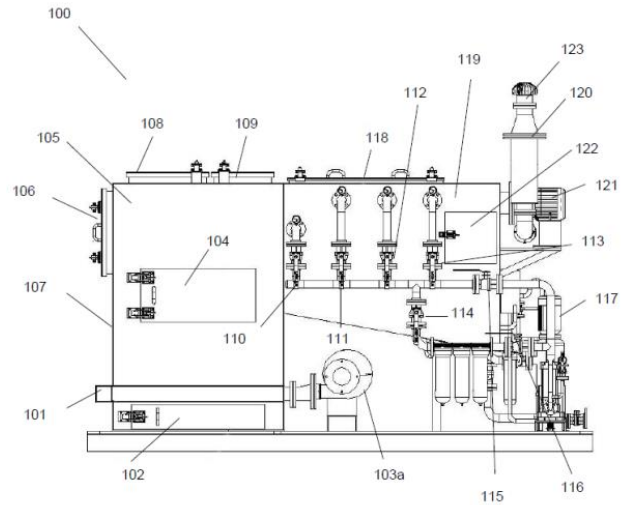
The invention provides a shopping cart sanitizing station. The station includes an enclosure having at least one opening for receiving a cart therein and at least one misting nozzle for misting the inside of the enclosure with a sanitizing fluid. The station also includes a power source or connector for connecting to a power source, a reservoir for holding a sanitizing fluid, a compressor or pressure pump for pumping the sanitizing fluid from the reservoir to the nozzle or nozzles, and a control system for controlling a misting cycle.



21: 2020/02012. 22: 5/4/2020. 43: 3/11/2021  
 51: B09B; C02F; F23Q  
 71: MILLENNIUM E & C (M) SDN. BHD.  
 72: SAMIR SUBHASH UNDALE, FRIEDRICH W. KREUTZBERG  
**54: AN APPARATUS AND A METHOD FOR SOLID WASTE MANAGEMENT**

00: -  
 The present invention provides an apparatus (100) and a method (700) for solid waste management. The present invention provides an apparatus (100) that decomposes solid waste generated from environments such as households, industries, medical facilities and other avenues into reusable ash. The apparatus (100) receives solid waste that is loaded into the apparatus and decomposed thermally by a method of using indirect plasma of oxygen and nitrogen causing molecular decomposition. Production of indirect plasma of oxygen and nitrogen is initiated by an electretizing force produced by an electret field gradient that attracts oxygen molecules and repels nitrogen molecules. The apparatus (100) further treats toxic gases generated during thermal decomposition using liquid media and filter media present in ionic

scrubbers where negatively charged particles are attached and eliminated.



21: 2020/02025. 22: 5/4/2020. 43: 3/17/2021  
 51: B65G  
 71: AMMERAAL BELTECH MODULAR A/S  
 72: BUTER, GERM, ANDERSEN, KENNETH WESTERGAARD  
 33: DK 31: PA 2019 70282 32: 2019-05-02  
**54: SPIRAL CONVEYOR CONSTRUCTION AS WELL AS A DRIVE TOWER**

00: -  
 A spiral conveyor construction comprising an endless conveyor belt guided on a conveying path and assembled from a plurality of substantially identical modular belt links, where at least a part of the conveying path surrounds a drive tower which can rotate around a vertical axis. Spaced along the periphery of the drive tower are arranged vertical engagement members, where at least some of these engagement members has a vertically arranged rib projecting radially away from the drive tower, and where on a lower section of the drive tower adjacent at least some of the engagement members with projecting ribs, blocks with secondary ribs are provided, said blocks near the bottom of the drive tower radially project further from the drive tower than the engagement members, and where the secondary ribs and/or the ribs on the engagement members engage and propel the endless conveyor belt along the conveying path.

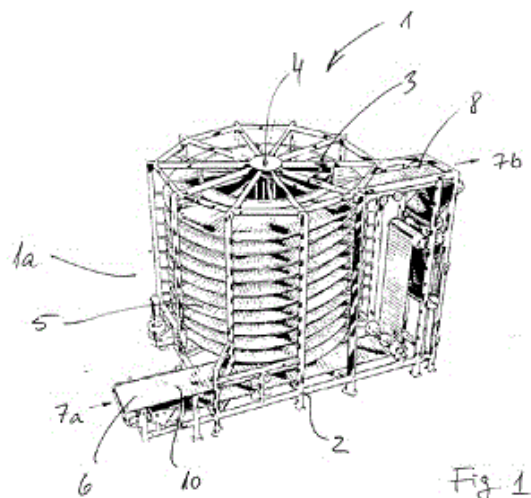
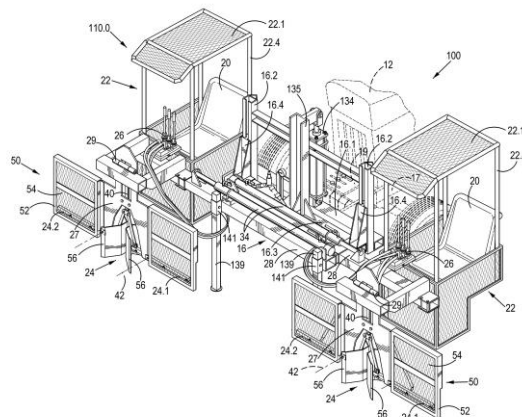


Fig 1

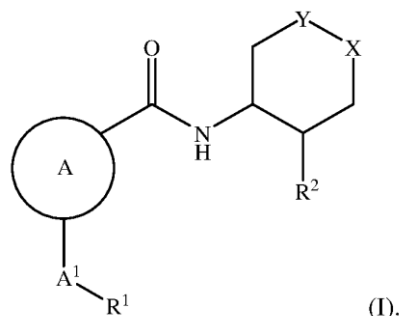
21: 2020/02026. 22: 5/4/2020. 43: 3/17/2021  
 51: A01B; A01G; A01M; B05B; B62D  
 71: PUREST TASTE CC  
 72: OBERHOLZER, Stephen Peter  
 33: ZA 31: 2019/02510 32: 2019-04-23  
**54: APPLICATION OF HERBICIDES**  
 00: -

An apparatus 110 to apply a herbicide includes a carrier frame 16 mountable or mounted to a vehicle 12, at least one operator seat 20 for an operator, carried by the carrier frame 16, and at least one elongate dribble applicator 24.1, 24.2 carried by the carrier frame 16 and connectable or connected to a supply of herbicide. The elongate dribble applicator 24.1, 24.2 is displaceable between an operative condition in which the elongate dribble applicator 24.1, 24.2 is oriented to apply herbicide to unwanted vegetation growing on a strip of soil, and a tree-avoiding condition in which the dribble applicator 24.1, 24.2 is oriented to avoid applying herbicide to a tree on said strip of soil. A dribble applicator controller 26 is provided to control displacement of the dribble applicator 24.1, 24.2 from the operative condition to the tree-avoiding condition. The dribble applicator controller 26 is operable by an operator in the operator seat 20 thereby to allow the operator in the operator seat 20 to control the condition of the dribble applicator 24.1, 24.2.



21: 2020/02034. 22: 04/05/2020. 43: 4/12/2021  
 51: A61K; C07D; A61P  
 71: SUVEN LIFE SCIENCES LIMITED  
 72: NIROGI, Ramakrishna, MOHAMMED, Abdul Rasheed, SHINDE, Anil Karbhari, RAVELLA, Srinivas, MIDDEKADI, Vanaja, GOYAL, Vinod Kumar, JAYARAJAN, Pradeep, DARIPPELLI, Saivishal, JASTI, Venkateswarlu  
 33: IN 31: 201741037090 32: 2017-10-18  
**54: HETEROARYL COMPOUNDS AS MUSCARINIC M1 RECEPTOR POSITIVE ALLOSTERIC MODULATORS**

00: -  
 The present invention relates to compounds of formula (I), or their isotopic forms, stereoisomers, tautomers or pharmaceutically acceptable salt (s) thereof as muscarinic M1 receptor positive allosteric modulators (M1 PAMs). The present invention describes the preparation, pharmaceutical composition and the use of compound formula (I).



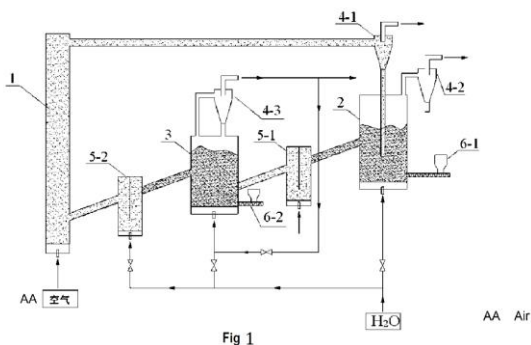
(I).

21: 2020/02048. 22: 04/05/2020. 43: 3/17/2021  
 51: C10J  
 71: SOUTH CHINA UNIVERSITY OF TECHNOLOGY  
 72: LIAO, Yanfen, LIU, Guicai, WU, Yuting, MA, Xiaoxi



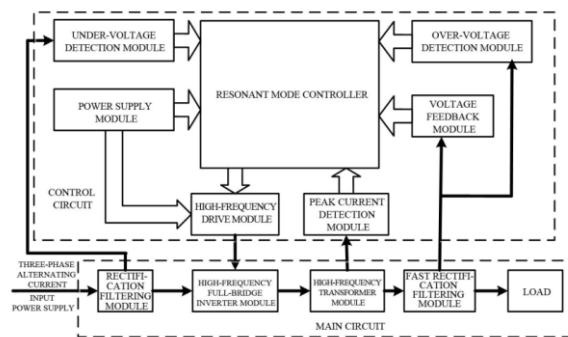
33: CN 31: 201810019581.1 32: 2018-01-09  
**54: METHOD AND DEVICE FOR CHEMICAL LOOPING GASIFICATION OF BIOMASS BASED ON AN OXYGEN CARRIER/CARBON CARRIER**  
 00: -

The invention discloses a method and a device for chemical looping gasification of biomass based on an oxygen carrier / carbon carrier. The device comprises an air reactor, a second loop seal, a calcination reactor, a first loop seal, and a gasification reactor connected in sequence; the top of the calcination reactor is connected to an air inlet of a third cyclone, and a solid particle outlet at the bottom of the third cyclone is connected to the calcination reactor; a gas outlet of the third cyclone is connected to an air inlet at the bottom of the calcination reactor through a valve; an air outlet of the gasification reactor is connected to an air inlet of a first cyclone; a solid particle outlet of the first cyclone extends into the bottom of the gasification reactor through a pipe; the gas outlet of the gasification reactor is connected to a gas inlet of a second cyclone; the purpose of the method and device is to combine the advantages of chemical looping gasification and CaO absorption to optimize the existing chemical looping gasification process, thereby improving energy utilization efficiency of biomass and effectively separating CO<sub>2</sub> generated by the reaction.



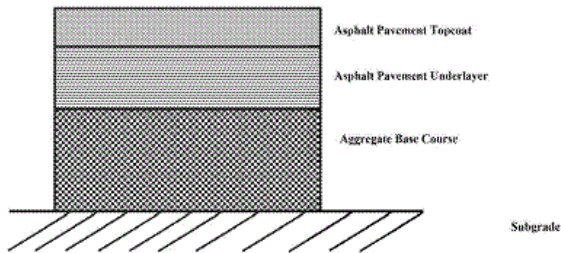
21: 2020/02052. 22: 04/05/2020. 43: 3/17/2021  
 51: H02M  
 71: SOUTH CHINA UNIVERSITY OF TECHNOLOGY  
 72: WANG, Zhenmin, FAN, Wenyan, XIE, Fangxiang  
 33: CN 31: 201711017397.5 32: 2017-10-26  
**54: SiC POWER DEVICE-BASED FULL-BRIDGE LLC RESONANT PLASMA POWER SUPPLY**  
 00: -

The present invention provides a SiC power device-based full-bridge LLC resonant plasma power supply, which is characterized in that: the power supply comprises a main circuit and a control circuit; the main circuit comprises a rectification filtering module, a high-frequency full-bridge inverter module, a high-frequency transformer module, and a fast rectification filtering module that are connected in sequence; the rectification filtering module is connected to a three-phase alternating current input power supply; the fast rectification filtering module is connected to a load; wherein the high-frequency full-bridge inverter module employs a full-bridge inverter LLC zero-voltage soft-switching topology; the high-frequency full-bridge inverter module, the high-frequency transformer module, and the fast rectification filtering module are separately connected to a control circuit, so that the control circuit controls power output. The plasma power supply has high efficiency, high power density, and high reliability, can reduce the intensity of electromagnetic interference and implement high-power output, has excellent dynamic response performance, and is benefit to high-speed accurate regulation of a plasma load.



21: 2020/02127. 22: 5/4/2020. 43: 3/15/2021  
 51: C08L C04B C08K E01C  
 71: A.L.M. HOLDING COMPANY, ERGON ASPHALT & EMULSIONS, INC.  
 72: REINKE, Gerald, H., BAUMGARDNER, Gaylon, L., HANZ, Andrew  
 33: US 31: 15/886,605 32: 2018-02-01  
 33: US 31: 62/574,867 32: 2017-10-20  
**54: ASPHALT EMULSION SURFACE TREATMENT CONTAINING STEROL**  
 00: -  
 Pavement aging can be reduced by applying to an asphalt-containing pavement a topcoat layer or a

surface treatment containing asphalt binder emulsion with sterols.



21: 2020/02131. 22: 5/4/2020. 43: 3/15/2021  
51: A23K

71: EVONIK OPERATIONS GMBH  
72: HÄUßNER, Thomas, FISCHER, Frank, BORCHERS, Georg, KOTTKE, Ulrike, KOBLER, Christoph, BORGMANN, Cornelia, PORTNER, Karsten

33: EP 31: 17193721.2 32: 2017-09-28

**54: COMPOSITIONS AND METHODS FOR IMPROVING NITROGEN UTILIZATION IN A RUMINANT**

00: -  
The present invention relates to a composition for feeding a ruminant comprising i) a non-protein nitrogen compound, and ii) a coating surrounding the non-protein nitrogen compound, wherein said coating comprises one or more layers of a mixture of a saturated fat and a fatty acid, and said coating comprises from 60 wt.-% +/-10% to 85wt.-% +/-10% of the saturated fat, e.g. hydrogenated fat, and from 15wt.-% +/-10% to 40 wt.-% +/-10% of the fatty acid, each based on the total weight of the coating; a process for the preparation of said composition and its uses, e.g., for improving nitrogen utilization in a ruminant.

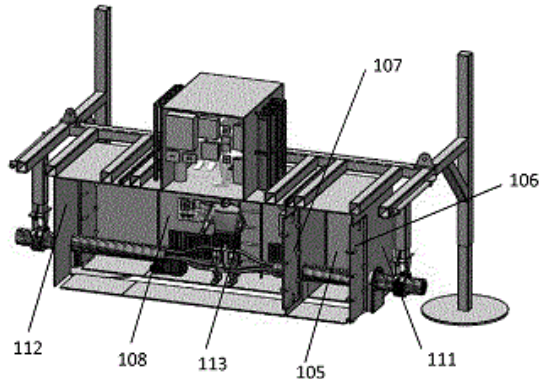
21: 2020/02135. 22: 5/4/2020. 43: 3/15/2021  
51: B63C F16L

71: IRISH SEA CONTRACTORS LIMITED  
72: KINSELLA, David, KINSELLA, Michael  
33: GB 31: 1714396.7 32: 2017-09-07  
33: GB 31: 1804431.3 32: 2018-03-20

**54: A SUBMERSIBLE HABITAT FOR THE REPAIR OF SUBSEA CABLE**

00: -  
A submersible habitat (100) for the repair of subsea cable (11), the habitat comprising a cable maintenance environment (108) being suitable for

receiving a portion of the subsea cable under repair (115) while the subsea cable (11) is submerged. The submersible habitat further comprising raising and/or lowering component (25) configured for raising and/or lowering the submersible habitat (100) relative to the subsea cable (11). The entire repair is carried out within the submersible habitat (100) without the requirement to transport any portion of the subsea cable (11) to the surface.

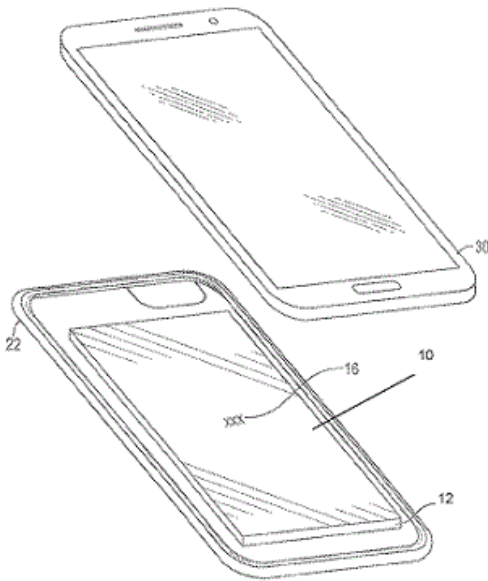


21: 2020/02136. 22: 5/4/2020. 43: 3/15/2021  
51: H04B H04M H01Q

71: ROWTAN TECHNOLOGIES LLC  
72: TANENBAUM, William, Charles, TANENBAUM, Roger, Kenneth, ROTHCHILD, Ivan  
33: US 31: 15/721,525 32: 2017-09-29  
33: US 31: 16/147,399 32: 2018-09-28  
33: US 31: 16/125,734 32: 2018-09-09

**54: DEVICES FOR REFLECTING, DEFLECTING, AND/OR ABSORBING ELECTROMAGNETIC RADIATION EMITTED FROM AN ELECTRONIC DEVICE AND METHODS THEREFOR**

00: -  
Devices used with mobile phones. Implementations may include: a metal-containing plate configured to be directly attached to a rear surface of a mobile phone where the metal-containing plate includes a coating. The metal-containing plate may be configured to deflect, absorb, or reflect electromagnetic radio frequency radiation emitted by the mobile phone away from a user of the mobile phone.



21: 2020/02138. 22: 5/4/2020. 43: 3/15/2021  
 51: C07D  
 71: JIANGSU HENGRUI MEDICINE CO., LTD.  
 72: LI, Wenhai, QI, Weixing, QIU, Zhenjun  
 33: CN 31: 201710896555.2 32: 2017-09-28  
**54: METHOD FOR PREPARING OXASPIROCYCLE DERIVATIVE, AND INTERMEDIATE THEREOF**  
 00: -  
 The present invention relates to a method for preparing an oxaspirocycle derivative, and an intermediate thereof. The method reduces reaction steps, improves reaction yield, is simple and easy to operate, and is favorable for industrial large-scale production.

21: 2020/02142. 22: 5/4/2020. 43: 3/15/2021  
 51: G05F G05B H02M  
 71: DEAN TECHNOLOGY, NC.  
 72: DEAN, Craig, S., ROSZEL, Lynn, E., WILSON, Scott, R., HAUGARTH, Erik, S., REUNING, Jan, S.  
 33: US 31: 15/893,135 32: 2018-02-09  
 33: US 31: 62/608,016 32: 2017-12-20  
**54: DIGITAL HIGH VOLTAGE POWER SUPPLY**  
 00: -  
 A digital high voltage power supply having a plurality of filters, a high voltage divider, and a processor with memory. The memory contains operating set points. The processor is configured to receive scaled voltage feedback signals from the high voltage divider, compare the scaled voltage feedback signals to the plurality of operating set points in

memory, compute and store revised operating set points using the compared scaled voltage feedback signal, use the revised operating set points to simultaneously and automatically regulate output voltage to be within all operating set points, and generate an alert when output conditions exceed any operating set points.

21: 2020/02152. 22: 5/4/2020. 43: 3/12/2021  
 51: H04N  
 71: Sony Corporation  
 72: TSUKUBA, Takeshi  
 33: JP 31: 2017-226062 32: 2017-11-24  
**54: IMAGE PROCESSING DEVICE AND METHOD**  
 00: -  
 The present invention relates to an image processing device and a method that make it possible to minimize increases in the memory capacity required for an orthogonal transformation and an inverse orthogonal transformation. A partial matrix constituting part of a transformation matrix is used to derive said transformation matrix, the derived transformation matrix is used to perform an orthogonal transformation of the predicted residual of an image, the predicted residual is subjected to an orthogonal transformation and coefficient data thus obtained is encrypted, and a bit stream is generated. The present invention can be applied, for example, to an image processing device, an image encoding device, an image decoding device, or the like.

FIG. 55

AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO	PP	QQ	RR	SS	TT	UU	VV	WW	XX	YY	ZZ	AAA	BBB	CCC	DDD	EEE	FFF	GGG	HHH	III	JJJ	KKK	LLL	MMM	NNN																																																												
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

- AA Example
- BB Target transformation type
- CC Half partial matrix (same part matrix)
- DD Generated partial matrix
- EE Operation performed on transformation matrix
- FF Horizontal flip
- GG Vertical flip
- HH Transposition
- II Rotation
- JJ Sign inversion
- KK Item of interest
- LL Effect
- MM Left partial matrix
- NN Right partial matrix
- OO Upper partial matrix
- PP Lower partial matrix
- QQ Upper right triangular partial matrix
- RR Lower left triangular partial matrix
- SS Upper left triangular partial matrix
- TT Lower right triangular partial matrix
- UU Upper left partial matrix
- VV Lower right partial matrix
- WW Lower left partial matrix
- XX Lower right partial matrix
- YY Axial symmetry with respect to vertical axis
- ZZ Symmetry with respect to horizontal axis
- AAA Point symmetry
- BBB Axial symmetry with respect to diagonal axis
- CCC Axial symmetry with respect to diagonal axis of cross position
- DDD Same encoding efficiency
- EEE Right half within transformation matrix is cut
- FFF LUT size required for holding target transformation type is 1/2
- GGG Lower partial matrix within transformation matrix is cut
- HHH Lower left triangular matrix within transformation matrix is cut
- III Sign inversion is not required
- JJJ Lower right triangular matrix within transformation matrix is cut
- KKK Upper right partial matrix within transformation matrix is cut
- LLL Reduction width of LUT is large compared to generation of DCT (LGD 1 by 3-2, but processing becomes complex)
- MMM Lower left partial matrix within transformation matrix is cut
- NNN Lower right partial matrix within transformation matrix is cut

21: 2020/02166. 22: 5/4/2020. 43: 3/15/2021  
 51: A61K; C07D  
 71: Galapagos NV  
 72: VAN DER PLAS, Steven Emiel, MAMMOLITI, Oscar, MARTINA, Sébastien Laurent Xavier, CLAES, Pieter Isabelle Roger, COTI, Ghjuvanni Petru Diunis, ANNOOT, Denis Maurice, LÓPEZ

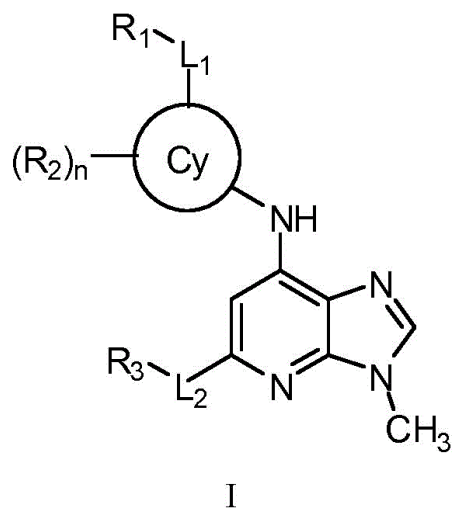
RAMOS, Miriam, GALIEN, René Alexandre, AMANTINI, David, BRYSS, Reginald Christophe Xavier

33: GB 31: 1717260.2 32: 2017-10-20

**54: NOVEL COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS THEREOF FOR THE TREATMENT OF INFLAMMATORY DISORDERS**

00: -

The present invention discloses compounds according to Formula I: (Formula I) Wherein  $R^1$ ,  $L_1$ ,  $R^2$ ,  $L_2$ ,  $R^3$ ,  $Cy$ , and the subscript  $n$  are as defined herein. The present invention relates to compounds, methods for their production, pharmaceutical compositions comprising the same, and methods of treatment using the same, for the prophylaxis and/or treatment of allergic diseases, inflammatory diseases, metabolic diseases, autoinflammatory diseases, autoimmune diseases, proliferative diseases, transplantation rejection, diseases involving impairment of cartilage turnover, congenital cartilage malformations, and/or diseases associated with hypersecretion of IFN $\alpha$ , IL12 and/or IL23 by administering the compound of the invention.



21: 2020/02207. 22: 5/4/2020. 43: 3/1/2021

51: A61K; C07F; C07K

71: Pfizer Inc.

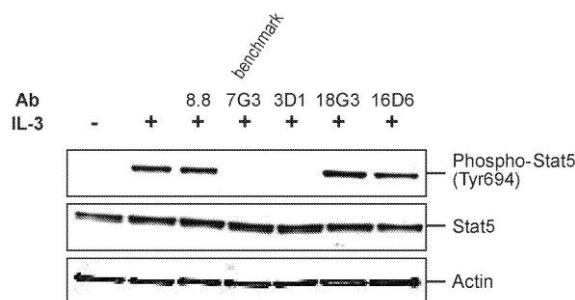
72: CHARATI, Manoj Baburao, HAN, Yoon-Chi, KATRAGADDA, Madan, PICHÉ-NICHOLAS, Nicole Melissa, TUMEY, Lawrence Nathan

33: US 31: 62/577,922 32: 2017-10-27

**54: ANTIBODIES AND ANTIBODY-DRUG CONJUGATES SPECIFIC FOR CD123 AND USES THEREOF**

00: -

The present invention provides antibodies that specifically bind to CD123. The invention further relates to immunoconjugates (e.g., antibody-drug conjugates, or ADCs) comprising such antibodies, antibody encoding nucleic acids, and methods of obtaining such antibodies. The invention further relates to therapeutic methods for use of these antibodies and ADCs for the treatment of a condition associated with cells expressing CD123 (e.g., cancer or autoimmune disease).



21: 2020/02225. 22: 5/4/2020. 43: 3/11/2021

51: G06K; G06T

71: The Climate Corporation

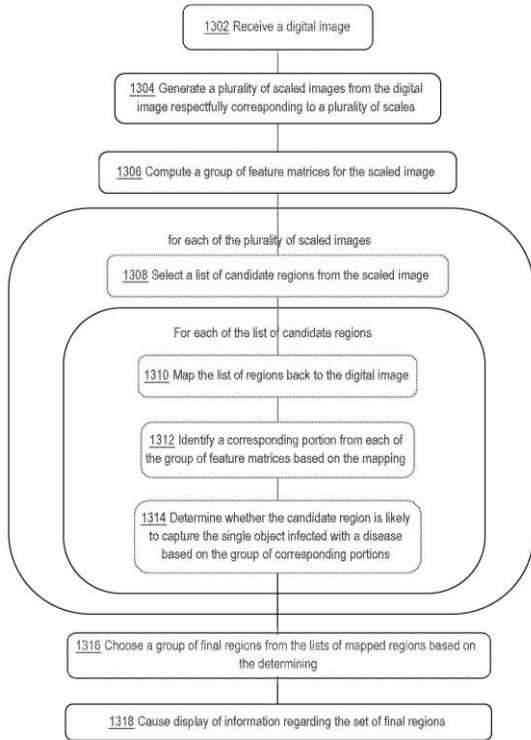
72: CHEN, Yaqi, GUAN, Wei

33: US 31: 15/725,284 32: 2017-10-05

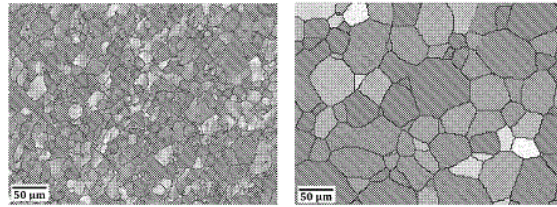
**54: DISEASE RECOGNITION FROM IMAGES HAVING A LARGE FIELD OF VIEW**

00: -

A computer system and related computer-implemented methods for recognizing crop diseases from large FoV images are disclosed. In some embodiments, the computer system is configured to initially build a first digital model in memory for identifying a region capturing a leaf, and a second model for identifying a region capturing a leaf infected with a disease. Given a large FoV image, under program control, the system is programmed to then automatically identify candidate regions that might capture single leaves from the large FoV image using the first model. The system is programmed to further determine whether the candidate regions capture symptoms of a crop disease on single leaves using on the second model.



Comparison of  $\beta$ -Phase Grain Size for Invention Alloy & Standard Beta-C Alloy



(a) Alloy of the Invention (b) Standard Beta-C Alloy

21: 2020/02256. 22: 5/4/2020. 43: 3/10/2021  
 51: F41A; F42B  
 71: FN Herstal S.A.  
 72: FRANSSEN, Pascal Marcel Henri Denis, VERHAEGEN, Damien Nicole Freddy, BECKERS, Robert, MICHOTTE, Paul, GODBILLE, Antoine  
 33: EP(BE) 31: 17190388.3 32: 2017-09-11  
**54: MACHINE GUN**  
 00: -

The present invention relates to a machine gun (1) comprising a carcass body (22) with an essentially tubular shape.

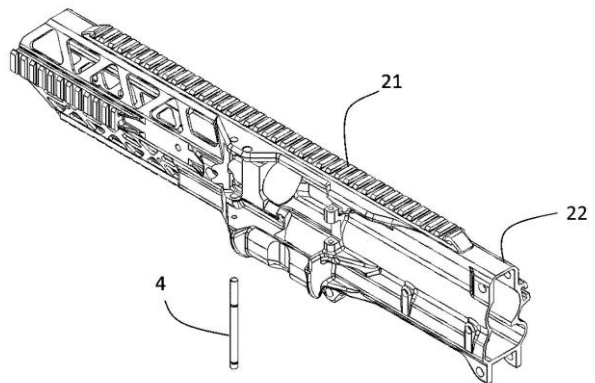


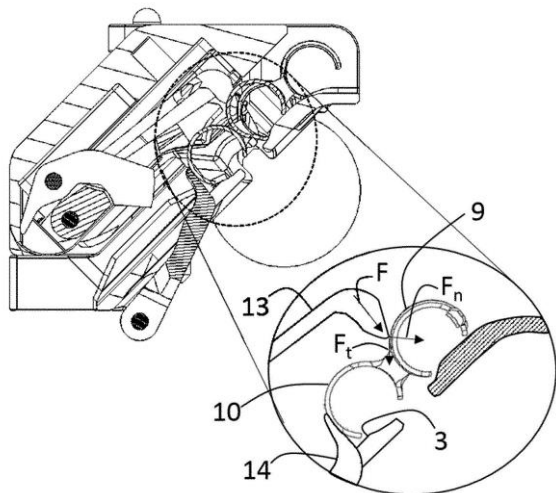
Figure 15

21: 2020/02257. 22: 5/4/2020. 43: 3/10/2021  
 51: F41A; F42B  
 71: FN Herstal S.A.  
 72: FRANSSEN, Pascal Marcel Henri Denis, VERHAEGEN, Damien Nicole Freddy, BECKERS, Robert, MICHOTTE, Paul, GODBILLE, Antoine  
 33: EP(BE) 31: 17190388.3 32: 2017-09-11  
**54: MACHINE GUN**  
 00: -

The present invention relates to a machine gun (1) comprising an ammunition belt (5)-type feed mechanism, having a mechanism for ejecting the last two links of the belt (5)

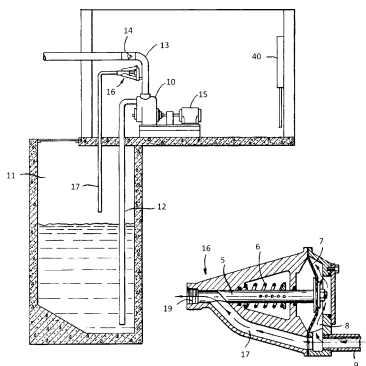
21: 2020/02254. 22: 5/4/2020. 43: 3/10/2021  
 51: C22C C22F F16B B33Y  
 71: MONASH UNIVERSITY  
 72: WU, Xinhua, ZHOU, Xigen  
 33: AU 31: 2017904043 32: 2017-10-06  
**54: IMPROVED HEAT TREATABLE TITANIUM ALLOY**  
 00: -

A "modified" meta-stable  $\beta$  titanium alloy that, apart from carbon content, corresponds to the composition range for standard Beta-C titanium alloy. The modified alloy comprises vanadium, chromium, molybdenum, zirconium, aluminium, with maxima for oxygen, iron, nitrogen, hydrogen, yttrium, and other elements (apart from carbon and titanium), with a balance (apart from carbon) of titanium. The modified alloy has carbon present at a stable total carbon level sufficiently in excess of 0.05 wt.% achieving an improvement in the mechanical properties of UTS, DSS and fatigue strength in threaded regions, relative to standard Beta-C alloy with a specified carbon level below 0.05 wt.%, with a maximum carbon content controlled so as to preclude carbide formation having a detrimental effect on the level of fatigue strength.



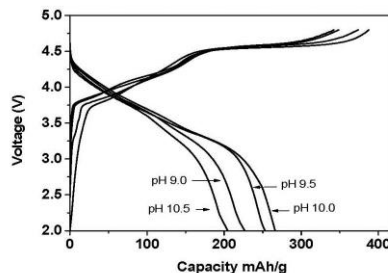
21: 2020/02302. 22: 5/4/2020. 43: 3/1/2021  
 51: E03F  
 71: THE GORMAN-RUPP COMPANY  
 72: LIEBHART, Larry P., STOFFER, Michael L., REDMOND, Craig S.  
 33: US 31: 16/399,190 32: 2019-04-30  
**54: AIR RELEASE VALVE**

00: -  
 A release valve for a self-priming pump includes a housing, a valve member, an exhaust outlet, a guide stem, a spring, and a bellows. The valve is positioned in a valve opening in the housing and is movable between an open and a closed position. The open position permits the travel of air and fluid through the opening. The closed position closes the valve opening. The valve plug is positioned in the valve opening responsive to pressure in the flow passageway of the housing. The guide stem is coupled to the valve plug and the spring is coupled to the guide stem. The bellows surrounds the spring.



21: 2020/02414. 22: 5/4/2020. 43: 3/17/2021

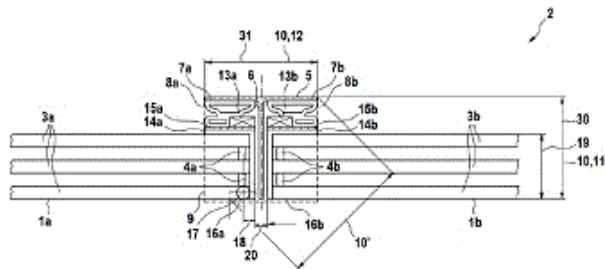
51: C01G; H01M  
 71: CSIR  
 72: LUO, Hongze, RAPULENYANE, Nomasonto, SETENI, Bonani, MATHE, Mkhulu  
 33: ZA 31: 2017/06772 32: 2017-10-09  
**54: A CATHODE MATERIAL**  
 00: -  
 A process for producing a lithium-manganese-rich layered oxide cathode material or a lithium-manganese-rich layered oxide cathode material precursor includes co-precipitating a dissolved Li compound and a dissolved Mn salt selected from the group consisting of  $Mn(CH_3COO)_2$ ,  $Mn(NO_3)_2$ ,  $MnSO_4$ , and mixtures thereof, from an aqueous solution, in the presence of a precipitator which reacts at least with the dissolved Mn salt to form a carbonate, thereby providing a precipitate which includes  $MnCO_3$  and a lithium compound as a lithium-manganese-rich layered oxide cathode material precursor. The invention extends to a lithium-manganese-rich layered oxide cathode material or a lithium-manganese-rich layered oxide cathode material precursor, to an electrochemical cell, and to methods of making and operating an electrochemical cell.



21: 2020/02440. 22: 5/5/2020. 43: 3/1/2021  
 51: F25D  
 71: SCHOTT AG, SCHOTT FLAT GLASS CR, S.R.O.  
 72: DIEDERICHS, JOCHEN, SMAJSER, PETR, RAFAJ, MARTIN, LAMMEL, MICHAEL, LEDERHOFER, BENJAMIN, HELLER, MARKUS, KUKULIS, JAROSLAV, PLACEK, JAROSLAV  
 33: DE 31: 20 2019 105 967.2 32: 2019-10-28  
 33: EP 31: 19 172 797.3 32: 2019-05-06  
**54: SWING DOOR SYSTEM AND A FREEZER DEVICE**

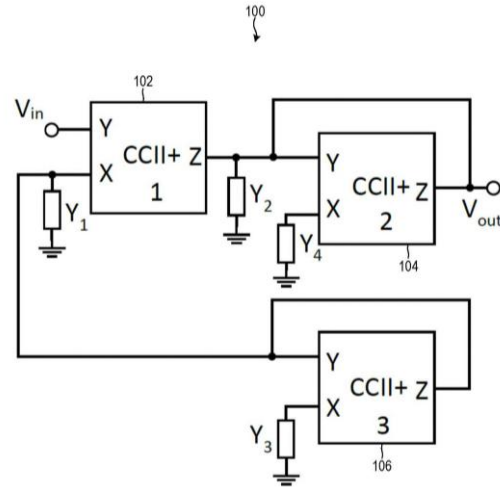
00: -  
 A swing door system (2) for use with a freezer device (25), comprising two adjacent swing doors (1a, 1b) and at least one mullion (5) being in contact

with said swing doors (1a, 1b), wherein each swing door (1a, 1b) comprises a transparent pane (3a, 3b) and a non-transparent area, wherein each non-transparent area is proximal to the mullion (5) when the swing doors (1a, 1b) are in a closed position, and wherein the non-transparent areas and the mullion (5) define a non-transparent region (9), and wherein under an horizontal viewing angle between 0° and 180° with respect to the plane in which the swing doors (1a, 1b) are arranged when the swing doors (1a, 1b) are in the closed position all of the horizontal diameters (10, 10') of the non-transparent region (9) are less than 100 mm, preferably less than 80 mm, more preferably less than 70 mm, most preferably less than 60 mm. Further, Freezer a device (25) comprising at least one swing door system (2) according to any one of the claims 1 to 22, being arranged in a cabinet (26), such that the opening direction of the swing door system is horizontal.



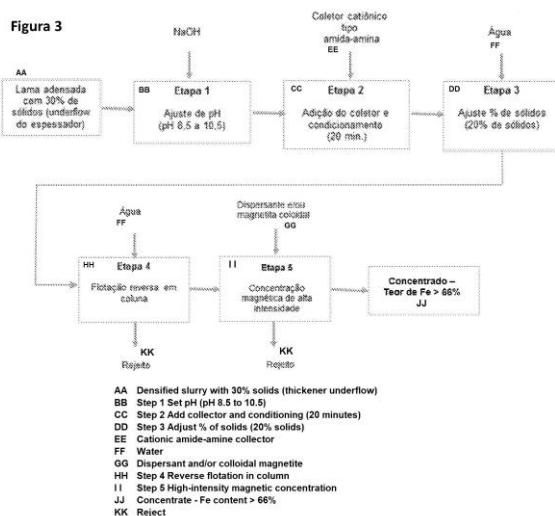
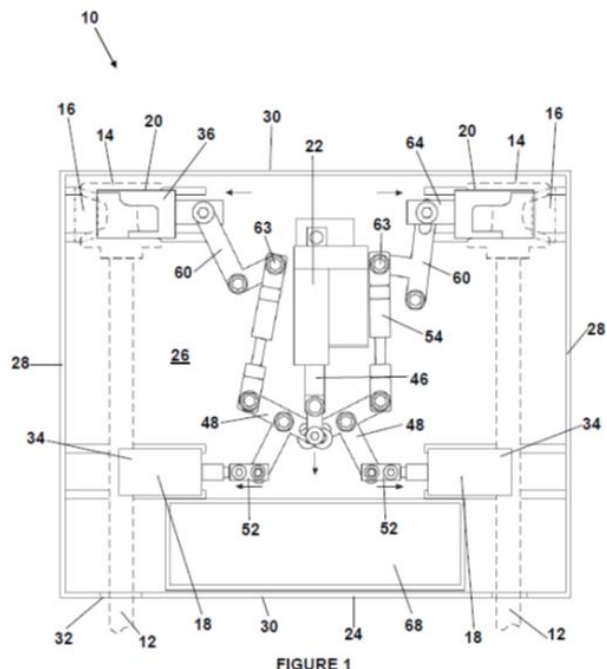
21: 2020/02446. 22: 5/5/2020. 43: 3/1/2021  
 51: H03H  
 71: UNIVERSITY OF PRETORIA  
 72: OSUCH, Piotr Jan, STANDER, Tinus  
 33: ZA 31: 2017/07512 32: 2017-11-07  
**54: A SECOND-ORDER ALL-PASS NETWORK COMPRISING CCIIS**  
 00: -  
 A second-order all-pass network has at least three Second Generation Current Conveyors (CCIIs). A network input is connected or connectable to a Y port of a first CCII, a Z port of the first CCII is connected to a Y port of a second CCII, an X port of the first CCII is connected to a Y port of a third CCII, and a network output is connected or connectable, directly or indirectly, to a Z port of the second CCII. The second-order all-pass network also has a plurality of network elements. The X port of the first CCII is connected via a first network element to

ground, the Z port of the first CCII is connected via a second network element to ground, an X port of the third CCII is connected via a third network element to ground, and an X port of the second CCII is connected via a fourth network element to ground.



21: 2020/02447. 22: 05/05/2020. 43: 3/1/2021  
 51: E05B  
 71: DAVID JOHANNES MAC DONALD  
 72: DAVID JOHANNES MAC DONALD  
 33: ZA 31: 2017/06557 32: 2017-09-29  
**54: INTERMODAL CONTAINER DOOR LOCK**  
 00: -

The invention relates to a heavy-duty cargo container door lock adapted for locking a door of an intermodal container, wherein the door includes an elongate lock rod [12] which terminates in a cam [14], which is dimensioned releasably to engage a cam keeper [16], such that rotation of the lock rod [12] alternately forces the cam [14] into and out of the keeper [16]. The door lock [10] comprises a laterally displaceable sliding carriage [20] that is displaceable between a locked position, in which it engages the cam [14] and the cam keeper [16] so as to prevent movement of the cam [14], and an unlocked position; and actuating means [22] for displacing the sliding carriage [20] between the locked and unlocked positions.



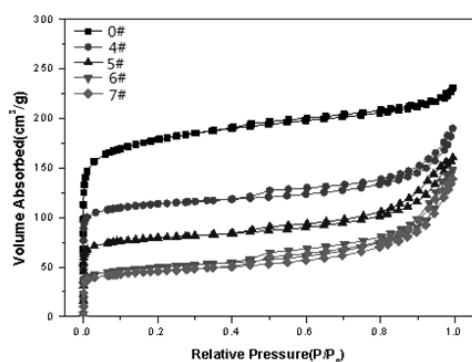
21: 2020/02448. 22: 5/5/2020. 43: 3/1/2021  
 51: B03D  
 71: Vale S.A.  
 72: PEREIRA LIMA, Neymayer, CARLAILE SILVA, Klaydison, CURI SEGATO, MAURÍCIO  
 33: BR 31: 102017021494-0 32: 2017-10-06  
**54: METHOD FOR CONCENTRATING IRON ORE SLURRY**  
 00: -

The present invention relates to a method for concentrating iron minerals from slurry generated by iron ore processing, by means of reverse flotation with pH between 8.5 and 10.5 with the addition of an amide-amine collector, or a mixture thereof with traditional cationic collectors (amines), without any depressing agent, alternatively including a high-field magnetic concentration step, which enables concentrations with iron content greater than 66% and SiO<sub>2</sub> + Al<sub>2</sub>O<sub>3</sub> content below 4% to be obtained.

21: 2020/02469. 22: 5/6/2020. 43: 4/12/2021  
 51: B01J; C08F  
 71: Institute of Coal Chemistry, Chinese Academy of Sciences  
 72: FAN, Weibin, WANG, Jianguo, DONG, Mei, ZHOU, Qiuming, QIN, Zhangfeng, LI, Junfen  
 33: CN 31: 201910280378. 4 32: 2019-04-09  
**54: CATALYST FOR AROMATIZATION OF LONG-CARBON CHAIN ALKANE AND PREPARATION METHOD AND USE THEREOF**  
 00: -

A catalyst for aromatization of a long-carbon chain alkane and a preparation method thereof. A molecular sieve containing a BEA structure is taken as an active component and mixed with a carrier, and then the mixture is formed, dried and calcined to obtain the catalyst for aromatization of a long-carbon chain alkane. The active component is prepared by taking a Na $\beta$  molecular sieve as a raw material and modifying through the following steps of: first obtaining an H $\beta$  molecular sieve through ammonium ion-exchange, and then conducting dealumination and silicon insertion treatment of the H $\beta$  molecular sieve through first hydrothermal treatment; forming a mesoporous structure in a molecular sieve framework through second hydrothermal treatment; reducing the acidity of the catalyst by potassium ion exchange, and finally using metal modification to improve the capability of the catalyst for catalyzing the aromatization of the long-carbon chain alkane and enhancing the toluene selectivity.





21: 2020/02522. 22: 07/05/2020. 43: 3/9/2021  
51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR  
FÖRDERUNG DER ANGEWANDTEN  
FORSCHUNG E.V.

72: TOMASEK, Adrian, RAVELLI, Emmanuel,  
SCHNELL, Markus, TSCHEKALINSKI, Alexander,  
SCHNABEL, Michael, SPERSCHNEIDER, Ralph  
33: EP 31: 17201142.1 32: 2017-11-10

**54: AUDIO DECODER SUPPORTING A SET OF  
DIFFERENT LOSS CONCEALMENT TOOLS**

00: -

An assignment of one of phase set of different loss concealment tools of an audio decoder to a portion of the audio signal to be decoded from a data stream, which portion is affected by loss, that is the selection out of the set of different loss concealment tools, may be made in a manner leading to a more pleasant loss concealment if the assignment/selection is done based on two measures: A first measure which is determined measures a spectral position of a spectral centroid of a spectrum of the audio signal and a second measure which is determined measures a temporal predictability of the audio signal. The assigned or selected loss concealment tool may then be used to recover the portion of the audio signal.

21: 2020/02527. 22: 07/05/2020. 43: 3/24/2021  
51: A01H; C12N

71: PIONEER HI-BRED INTERNATIONAL, INC.  
72: FOX, Tim, GORDON-KAMM, William James,  
HUEGEL, Rachel Carol, LOWE, Keith S,  
REINDERS, Jon Aaron Tucker, YE, Huaxun  
33: US 31: 62/572,007 32: 2017-10-13

**54: SYSTEMS AND METHODS FOR CELLULAR  
REPROGRAMMING OF A PLANT CELL**

00: -

Plant cell fate and development is altered by treating cells with cellular reprogramming factors.

Embryogenesis inducing morphogenic developmental genes are used as cellular reprogramming factors, specifically comprising polypeptides or polynucleotides encoding gene products for generating doubled haploids or haploid plants from gametes. Maize microspores treated by contacting the isolated cells with an exogenous purified, recombinant embryogenesis inducing morphogenic developmental gene polypeptide results in embryogenesis. The gametes of a maize plant develop into embryoids when transformed with a genetic construct including regulatory elements and structural genes capable of acting in a cascading fashion to alter cellular fate of plant cells. Developmental morphogenic proteins expressed from a genetic construct are used for ex situ treatment methods and for in planta cellular reprogramming.

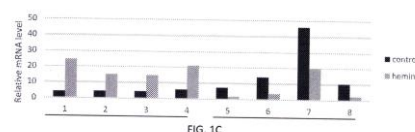


FIG. 1C

21: 2020/02530. 22: 5/7/2020. 43: 3/24/2021  
51: C07D

71: Syngenta Participations AG

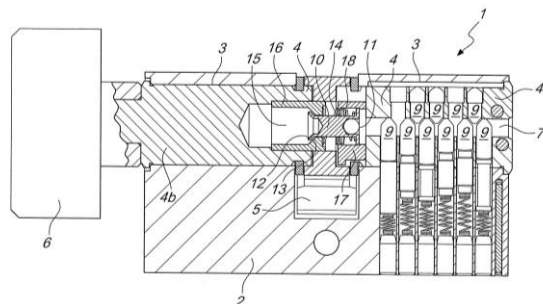
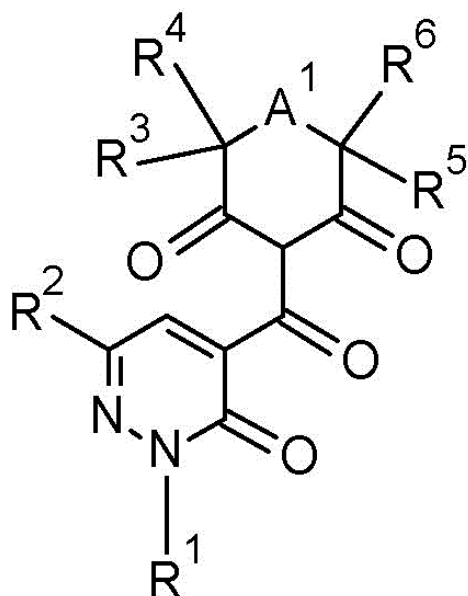
72: SMITS, Helmars, GRIBKOV, Denis, GODINEAU,  
Edouard, SCARBOROUGH, Christopher Charles,  
ROBINSON, Alan James, DIECKMANN, Michael  
Christian

33: GB 31: 1717080.4 32: 2017-10-18

**54: PROCESS FOR PRODUCING HERBICIDAL  
PYRIDAZINONE COMPOUNDS**

00: -

The present invention provides, inter alia, a process for producing a compound of Formula (I): wherein A<sup>1</sup>, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> are as defined herein. The present invention further provides intermediate compounds utilised in said process, and methods for producing said intermediate compounds.



21: 2020/02574. 22: 5/8/2020. 43: 3/15/2021

51: E05B

71: CISA S.p.A.

72: FABBRI, Matteo

**54: ANTI-INTRUSION CYLINDER**

00: -

An anti-intrusion cylinder (1) comprising a fixed stator (2) provided with a cavity (3) inside which can rotate at least one rotor (4, 4a, 4b) that is integral, at a central portion thereof, with an actuation cam (5) for at least one sliding latch; the rotor (4, 4a, 4b), at one end, is coupled to a movement knob (6) and, at the other, comprises a seat (7) for a coded key (8); the seat (7) is intercepted by a plurality of coding pins (9); the at least one rotor (4, 4a, 4b) is constituted by two coaxial half-rotors (4a, 4b) between which is interposed a longitudinal plug (10) that can be coupled to the cam (5); the end head (11) of the plug (10), which constitutes the end wall of the seat (7) for accommodating the key (8), has a convex shape structure preferably chosen from among conical, hemispherical, pyramidal, hemi-ellipsoidal and the like.

21: 2020/02610. 22: 5/11/2020. 43: 3/12/2021

51: B01J

71: EVONIK OPERATIONS GMBH

72: STOCHNIOL, Guido, PEITZ, Stephan, NADOLNY, Fabian, BERNTSSON, Benjamin, William, REEKER, Helene, BUKOHL, Reiner, PAUL, Niklas

33: EP 31: 19174287.3 32: 2019-05-14

**54: PROCESS FOR THE OLIGOMERIZATION OF OLEFINS WITH CONTROL OF THE OLIGOMER CONTENT IN THE HYDROCARBON STREAMS TO BE OLIGOMERIZED**

00: -

A process for the oligomerization of C<sub>3</sub>- to C<sub>5</sub>-olefins using a catalyst, wherein the oligomerization is carried out in at least one reaction stage which includes at least one reactor and at least one distillation column and wherein the content of oligomers in the feed stream to the at least one reaction stage after removal of the oligomers in the at least one distillation column is less than 0.4% by weight.

21: 2020/02619. 22: 11/05/2020. 43: 4/29/2021

51: E02D; E04H; H01Q

71: DELPHIUS COMMERCIAL AND INDUSTRIAL TECHNOLOGIES (PTY) LTD

72: COETZEE, Dirk

33: ZA 31: 2017/06857 32: 2017-10-11

**54: TELECOMMUNICATION MASTS**

00: -

The invention relates to a tower structure which includes a mast extending operatively upward and at least three support legs attached to the mast which in use support the mast in the operatively upward condition. The tower structure further includes at least one ballast structure, in the form of a cage or container, attached to each of the support legs, the ballast structures include integrally formed equipment enclosures for housing telecommunication equipment. The ballast structures

are dimensioned to hold a predetermined volume of rocks, gravel, dirt, sand or water to increase the stability of the tower structure.

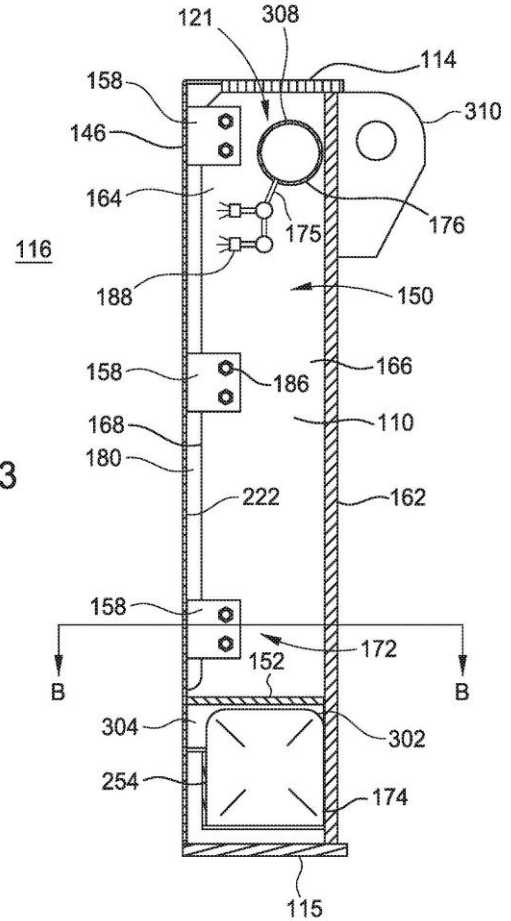
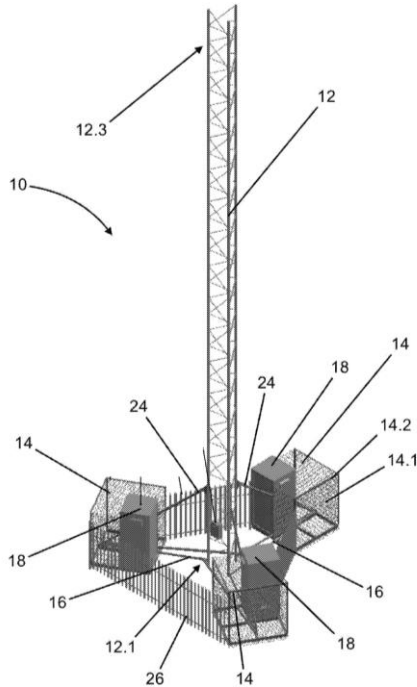


FIG. 3

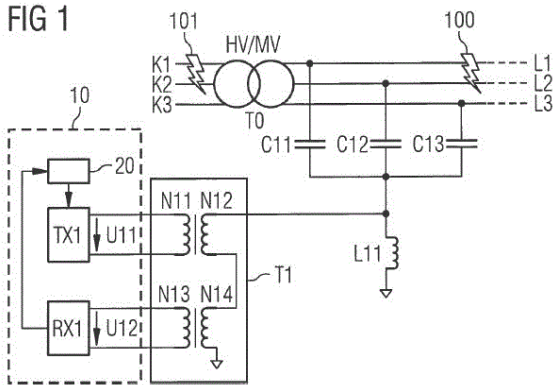
21: 2020/02625. 22: 5/11/2020. 43: 3/12/2021  
 51: F27B; F27D  
 71: Systems Spray-Cooled, Inc.  
 72: FERGUSON, Scott A., TEMKINA, Marina K.,  
 WARD, Troy D.  
 33: US 31: 15/874,483 32: 2018-01-18  
**54: SIDEWALL WITH BUCKSTAY FOR A  
 METALLURGICAL FURNACE**  
 00: -

A sidewall for a metallurgical furnace and a metallurgical furnace having the same are described herein. In one example, a sidewall of a metallurgical furnace is provided that includes an outer wall, a hot plate and a buckstay. The hot plate is coupled in a spaced apart relation to the outer wall. The buckstay is mechanically coupled to the outer wall and the hot plate. The buckstay includes a buckstay web extending from a buckstay flange. The buckstay web includes a first end coupled to the buckstay flange, and a second end mechanically and movably coupled to the hot plate.

21: 2020/02637. 22: 5/12/2020. 43: 3/12/2021  
 51: G01R  
 71: Siemens Aktiengesellschaft  
 72: FRANKENBERG, Robert, IRA, Gottfried  
 33: EP(DE) 31: 19177359.7 32: 2019-05-29  
**54: METHOD, DEVICE AND SYSTEM FOR  
 DETERMINING AN ARC ON A POWER  
 TRANSMISSION LINE**  
 00: -

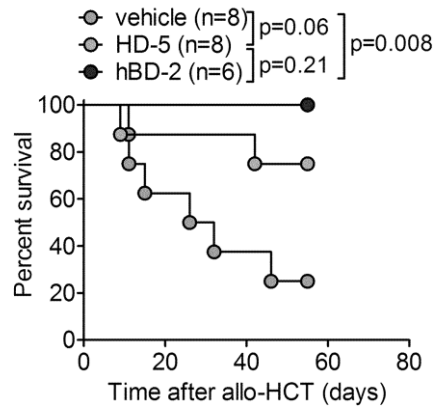
Method for determining a line property in the form of an arc on a power transmission line (K1-K3, L1-L3), wherein at least one test signal (U11) is coupled into the power transmission (K1-K3, L1-L3) and an interference signal at an interference point (100), which is formed by the arc, is generated along the power transmission line (K1-K3, L1-OL3) with the aid of the at least one test signal (U11), which interference signal is acquired as at least one measuring signal (U12), and the line property is determined from the at least one measuring signal

(U12), where-in the line property is determined by detecting at least one intermodulation product from the at least one test signal (U11) and the mains signal of the power transmission line (K1-K3, L1-L3) in the at least one measuring signal (U22).



21: 2020/02669. 22: 12/05/2020. 43: 3/29/2021  
 51: A61K; A61P  
 71: DEFENSIN THERAPEUTICS APS  
 72: NORDKILD, Peter  
 33: EP 31: 17203527.1 32: 2017-11-24  
 33: EP 31: 18191954.9 32: 2018-08-31  
**54: PREVENTION AND TREATMENT OF GRAFT-VERSUS-HOST-DISEASE WITH DEFENSINS**  
 00: -

The present invention relates to methods for treatment and/or prevention of acute as well as chronic graft-versus-host-disease (GVHD), and in particular to methods for decreasing mortality and increasing especially long term survival; acute complications associated with GVHD such as diarrhoea, weight loss and sepsis based on normalization of gut, liver, lung and skin microbiota and mucosal defense; rebalance of the immune system with normalization of cytokine production of IFN- $\gamma$ , TNF- $\alpha$ , IL-4, IL-5, IL-6, IL-8, IL-9, IL-10 and IL-13 and prevention and/or treatment of cytokine storm; chronic complications associated with GVHD such as bronchiolitis obliterans and scleroderma, the method comprising oral, subcutaneous, intrapulmonary and/or dermal/transdermal administration of one or more mammalian defensins selected from the group of  $\alpha$ - and  $\beta$ -defensins in a patient that has or is about to receive an allogeneic hematopoietic stem cell transplantation.



21: 2020/02675. 22: 12/05/2020. 43: 3/15/2021  
 51: A23K  
 71: STELLENBOSCH UNIVERSITY  
 72: NEVELING, Deon Pieter, DICKS, Leon Milner Theodore  
 33: ZA 31: 2017/06932 32: 2017-10-13  
**54: PROBIOTIC COMPOSITION**  
 00: -

A probiotic composition comprising *Bacillus amyloliquefaciens*, *Enterococcus faecalis*, *Lactobacillus salivarius*, *Lactobacillus johnsonii*, *Lactobacillus gallinarum* and *Lactobacillus crispatus* is provided. The probiotic composition stimulates the immune response of chickens without negatively affecting growth performance. The probiotic composition can be added to poultry feed to improve the health and performance of chickens, and can be used as a replacement for antibiotic supplementation.

21: 2020/02714. 22: 5/13/2020. 43: 3/2/2021  
 51: B60P; B62D  
 71: Huawei Technologies South Africa (Pty) Ltd.  
 72: TIAN, Zhiqiang, SHI, Rui, CUI, Hong, ZHANG, Hui, CHENG, Houming, ERASMUS, Alwyn Jacobus  
**54: MOBILE POWER SUPPLY TRAILER**  
 00: -

A mobile power supply trailer is disclosed comprising a mobile trailer body that can be towed by a vehicle to a site, as and when required; a housing fitted on top of the mobile trailer body, for housing batteries and related electronics and controllers, the housing defining a power charging port to enable the batteries to be charged by an external power source, and a power delivering port to provide power to a device or component on site; and at least one

security arrangement to prevent the unauthorised access and/or movement of the trailer. In an embodiment, the housing comprises a pair of side walls, a pair of end walls, and a cover. One of the side walls comprises a pair of doors hingedly fitted to a side wall frame, the doors being movable between an opened position to enable access into the housing and a closed position to prevent access into the housing.

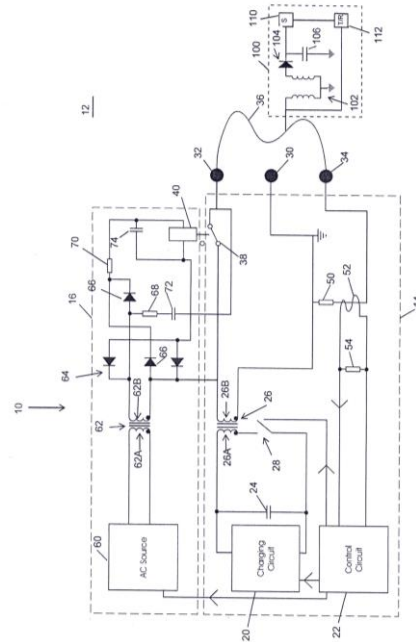
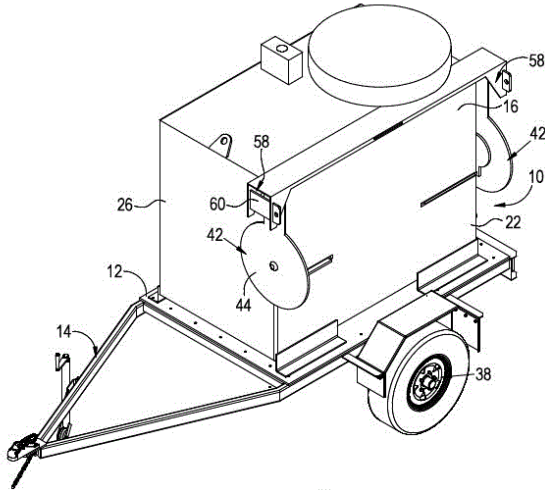


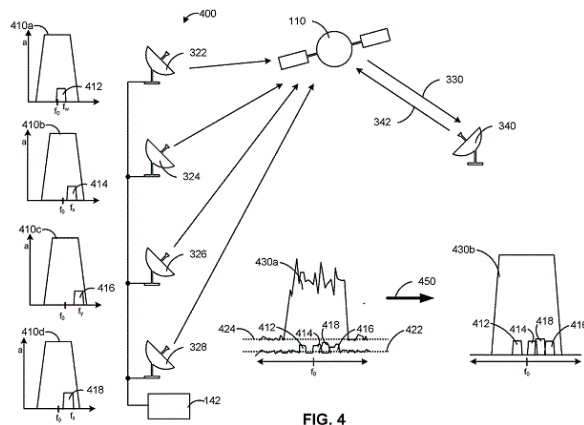
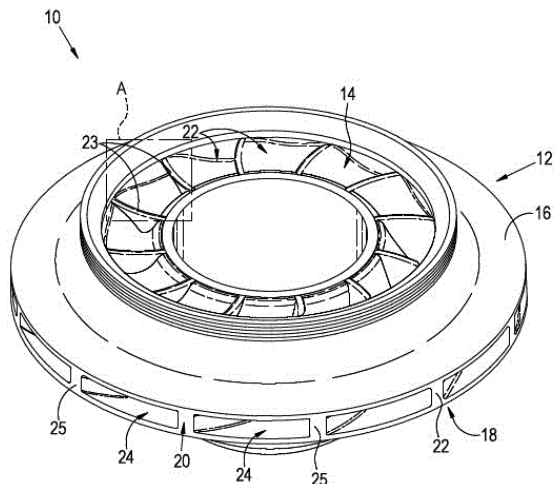
Figure 1

21: 2020/02715. 22: 5/13/2020. 43: 4/7/2021  
 51: A01K  
 71: NEMTEK HOLDINGS (PTY) LTD  
 72: HURLY, Leslie Sean, PARSONS, Shaun Anthony  
 33: ZA 31: 2019/03561 32: 2019-06-04  
**54: ENERGISER ARRANGEMENT FOR USE WITH AN ELECTRIFIED FENCE**

00: -  
 An energizer which includes a charging circuit which applies pulses at a first voltage to a fence, an energy source which applies an output signal, at a second voltage which is less than the first voltage, to the fence, and a mechanism which prevents a signal at the first voltage from being applied to the energy source.

21: 2020/02716. 22: 5/13/2020. 43: 3/2/2021  
 51: B22D; F01D; F04D  
 71: Mann-Makhene-Machinery Services (Pty) Ltd.  
 72: STRAUSS, Pieter  
 33: ZA 31: 2019/01554 32: 2019-03-13  
**54: IMPELLER**

00: -  
 The invention relates to a monolithic cast impeller, typically for a compressor. The monolithic impeller comprises an eye; an annular outer surface; and vanes extending between the eye and outer annular surface, and fluid flow passages being defined between adjacent vanes. The invention also extends to a method of manufacturing the impeller, as well as the mould for use in casting the impeller.



21: 2020/02722. 22: 5/13/2020. 43: 3/2/2021  
 51: H04B  
 71: KRATOS INTEGRAL HOLDINGS, LLC  
 72: POTTER, Robert, LEFEBURE, Jean, Marc,  
 SHANKAR, Roopa, DAUGHTRIDGE, Stuart  
 33: US 31: 62/575,270 32: 2017-10-20

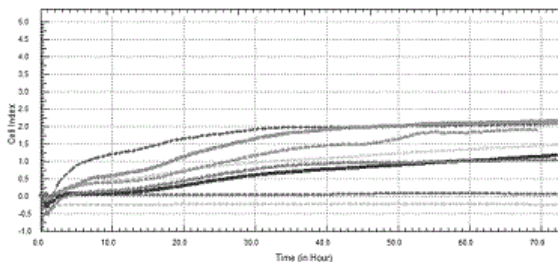
**54: SYSTEM AND METHOD FOR OPTIMIZING SATELLITE GATEWAY DIVERSITY**

00: -  
 Systems, devices, and methods for satellite communications are disclosed. The devices and methods can be used for communications diversity in a system having multiple radio frequency terminals (RFTs). In a transmit chain, each RFT can be associated with an antenna for the transmission of signals to a satellite. The system can select one or more uplinks for transmission of one or more versions of a transmit signal via associated antennas. The one or more versions can have a piggyback signal associated with and phase locked to a symbol rate of the transmit signal. In a receive chain, phase differences between the piggyback signals can allow adjustment of one or more time delays in the transmit chain to provide improved signal to noise ratio of the received versions of the transmit signal in the receive chain.

21: 2020/02723. 22: 5/13/2020. 43: 3/2/2021  
 51: A61K, A61Q, A61F  
 71: WATER-JEL EUROPE LLP  
 72: LAIT, Mark  
 33: GB 31: 1717224.8 32: 2017-10-20  
 33: GB 31: 1813442.9 32: 2018-08-17

**54: COMPOSITION**

00: -  
 The present disclosure relates to topical compositions comprising water, solvent, thickener, preservative and conditioning agent wherein the composition has a viscosity approximately in the range 200-6000 cP at 25°C following exposure to gamma radiation, to use of the composition in a dressing and the use of compositions and dressings in treatment or prophylaxis of burns.

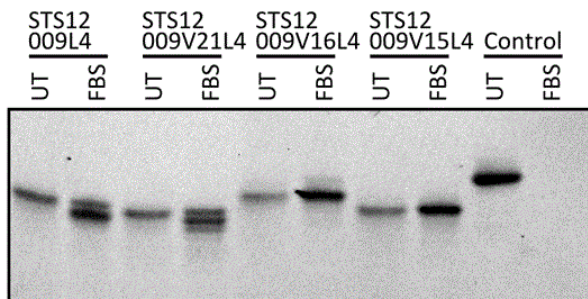


21: 2020/02724. 22: 5/13/2020. 43: 3/2/2021  
 51: E02D  
 71: CHINA RAILWAY SIXTH GROUP CO., LTD.,  
 CHINA RAILWAY SIXTH GROUP GUANGZHOU  
 ENGINEERING CO., LTD.  
 72: DENG, Pengyu, HU, Guisong, GENG, Jinjun,  
 SONG, Yanshuang, FU, Chao, ZHENG, Hui,  
 HUANG, Wei, CHEN, Xiaolin, WANG, Ruiqiang,  
 WEI, Kai  
 33: CN 31: 201811474784.6 32: 2018-12-04

**54: DOUBLE WALL COFFERDAM AND CONSTRUCTION METHOD FOR PIER SHAFT**

00: -

The present disclosure relates to the technical field of bridge construction, and in particular to a double wall cofferdam and a construction method for a pier shaft using the double wall cofferdam. The double wall cofferdam comprises at least one double wall cofferdam unit, wherein the double wall cofferdam unit includes a wall body, foot blade, inner support rods, and guide mechanisms; the foot blade is disposed at a bottom end of the wall body, and the inner support rod is horizontally arranged and located inside an inner panel of the wall body and is connected to the inner panel of the wall body; the guide mechanism includes a connecting rod and a guide plate, the guide plate is connected to the inner panel of the wall body via the connecting rod, the guide plate is bent at an angle corresponding to a curvature of an outer wall surface of a protective sleeve for a drilled pile, and there is a spacing between the guide plate and the outer wall surface of the protective sleeve. The inner support rods can enhance the stability of the double wall cofferdam. The guide plates can serve the guiding and positioning functions during lowering of the double wall cofferdam. Therefore, the double wall cofferdam of the present disclosure has high structural strength and stability, has a good water-stopping effect, has a reasonable structural design, and can ensure the smooth progress of an engineering project without being structurally adjusted multiple times during construction.



21: 2020/02749. 22: 5/14/2020. 43: 3/2/2021

51: A61K

71: PHARMATHEN S.A.

72: KARAVAS, Evangelos, KOUTRIS, Efthymios, SAMARA, Vasiliki, KOUTRI, Ioanna, KALASKANI,

Anastasia, KAKOURIS, Andreas, KARATZAS, Anastasios, FOUSTERIS, Manolis

**54: PRESERVATIVE FREE PHARMACEUTICAL COMPOSITION FOR OPHTHALMIC ADMINISTRATION COMPRISING BRIMONIDINE**

00: -

The present invention relates to a preservative free ophthalmic pharmaceutical formulation for topical administration containing a therapeutically effective quantity of Brimonidine or ophthalmological acceptable salts thereof alone or in combination with a therapeutically effective quantity of Timolol or ophthalmological acceptable salts thereof, to be used for the treatment of ocular hypertension and glaucoma.

21: 2020/02767. 22: 5/14/2020. 43: 3/29/2021

51: B01F; B05B; F04F

71: Eriez Manufacturing Co.

72: MANKOSA, Michael J., LEWIS, John Craig, LUTTRELL, Gerald H., CONNORS, Derek J.

33: US 31: 62/586,579 32: 2017-11-15

**54: MULTILOBULAR SUPERSONIC GAS NOZZLES FOR LIQUID SPARGING**

00: -

What is presented is a system and method for bubble creation in a fluid injection nozzle for the injection of a gas into a liquid to divide the gas into the smallest possible bubble size with the largest cumulative surface area by maximizing the percentage of gas at the highest possible kinetic energy that is in contact with the liquid. The fluid injection nozzle comprises a convergent inlet for receiving a fluid and a divergent outlet for exhausting the fluid. The divergent outlet has multiple exhaust ports.

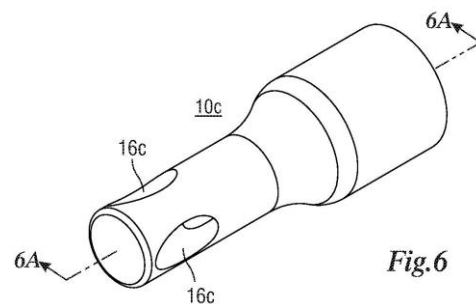


Fig.6

21: 2020/02769. 22: 5/14/2020. 43: 3/2/2021

51: C02F

71: Council of Scientific & Industrial Research  
 72: SUNDARAMOORTHY, Sundarapandiyam,  
 RAMANAIAH, Baddipudi, MADHAN, Balaraman,  
 MURALIDHARAN, Vimudha, THEAGARAJAN ,  
 Shakila Shobana, SARAVANAN, Palanivel

33: IN 31: 201711040533 32: 2017-11-14

**54: A PROCESS LEADING TO ZERO WATER  
 DISCHARGE IN POST TANNING OPERATIONS**

00: -

In the present invention, the waste streams from the unit processes of post tanning operations are segregated and screened for removing gross solids. They are then treated by electro-oxidation with or without UV treatment. The treated sectional streams are reused for appropriate unit process. The reuse can be carried out continuously to attain zero wastewater discharge in post tanning operations.

21: 2020/02815. 22: 5/15/2020. 43: 3/5/2021

51: B60T

71: CATERPILLAR INC.

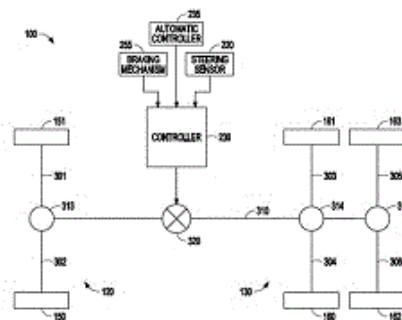
72: SCHWARTZ, TIMOTHY D, PUGH, RUSSELL J.,  
 WISLEY, DAVID R, MCKNIGHT, JAMES B.

33: US 31: 16/426348 32: 2019-05-30

**54: BRAKE FORCE MODULATION TO ENABLE  
 STEERING WHEN STATIONARY**

00: -

An articulated work machine includes a frame assembly having a front portion and a rear portion; an articulation joint connecting the front and rear portions and adapted to allow pivotal movement about the articulation joint by the front and rear portions; a plurality of front wheels attached to the front portion and a plurality of rear wheels attached to the rear portion; a brake associated with each of the front wheels and rear wheels; a steering sensor adapted to provide a steering signal from a steering mechanism of the articulated work machine; and a controller adapted to receive the steering signal, and wherein when a braking force is applied to the front and rear wheels when the controller receives the steering signal, the controller produces a signal to modulate the braking force to allow the front portion and rear portion of the machine to articulate without the machine moving forward.



21: 2020/02882. 22: 5/18/2020. 43: 3/2/2021

51: G01J; G01N

71: F. Hoffmann-La Roche AG

72: LIMBURG, Bernd, BERG, Max

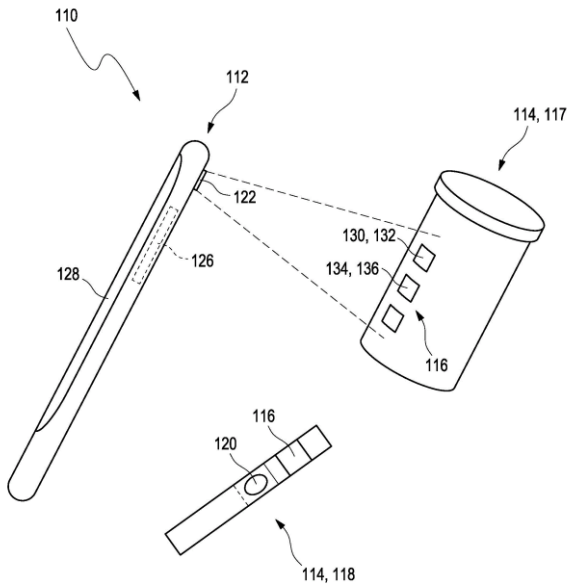
33: EP(CH) 31: 17198290.3 32: 2017-10-25

**54: METHODS AND DEVICES FOR PERFORMING  
 AN ANALYTICAL MEASUREMENT BASED ON A  
 COLOR FORMATION REACTION**

00: -

A method for evaluating the suitability of a mobile device (112) having at least one camera (122) for the purpose of performing an analytical measurement based on a color formation reaction is disclosed. The method comprises: a) providing the at least one mobile device (112) having the at least one camera (122); b) providing at least one object (114) having at least one reference color field (116); c) taking at least one image (123) of at least part of the reference color field (116) by using the camera (122); and d) deriving at least one item of color resolution information by using the image (123), wherein the at least one item of color resolution information comprises one or more numerical values, which quantify the capability of resolving two or more colors.





21: 2020/02885. 22: 5/18/2020. 43: 3/2/2021  
51: G01D

71: SafeCertifiedStructure Tecnologia S.p.A.  
72: CALTABIANO, Daniele, POMARICO, Anna,  
ROSELLI, Giuditta, MURARI, Bruno, MARIANI,  
Alessandro, MANCINI, Giuseppe

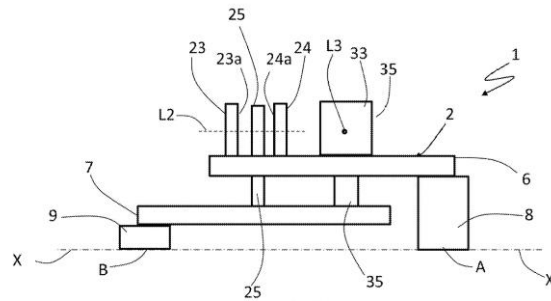
33: IT 31: 102017000139633 32: 2017-12-04

**54: DISPLACEMENT TRANSDUCER DEVICE**

00: -

Displacement transducer device (1) adapted to be coupled to reference points of a structure, comprising a first element (6) intended to be integrally secured to a first reference point (A) of said structure, a first magnet (3) and a second magnet (4) arranged so as to magnetically repel one another, in other words having identical poles on surfaces which face one another, a transducer (5) arranged near to said first and second magnet (3, 4) and designed so as to detect a variation in the magnetic field present between said first and second magnet (3, 4) and to convert said variation into a signal which can be processed by a processing unit, said displacement transducer device (1) comprising a second element (7) for being integrally secured to a second reference point (B) of said structure, and one of said first magnet (3), second magnet (4) or transducer (5) being connected to said first element (6) and the remaining elements of said first magnet (3), second magnet (4) or transducer (5) being connected to said second element (7) such that a relative movement of said first reference point (A) or

of said second reference point (B) causes a variation in the magnetic field that can be detected by said transducer (5).



21: 2020/02889. 22: 5/18/2020. 43: 3/1/2021  
51: H04W

71: Huawei Technologies Co., Ltd.

72: LIU, Jianqin, SONG, Xinghua

33: CN 31: 201711148325.4 32: 2017-11-17

**54: DETECTION WINDOW INDICATION METHOD AND APPARATUS**

00: -

The present application provides a detection window indication method and apparatus, the method comprising: a network device generating configuration information of a control channel, the configuration information of the control channel comprising detection window indication information fields of the control channel, and one of the detection window indication information fields of the control channel being used to indicate at least one of the following: the time length of a detection window, the period of the detection window, and time domain starting position information of the detection window; sending the configuration information of the control channel to a terminal. The present invention realizes indicating at least two of the time length of a detection window, the period of the detection window and the time domain starting position information of the detection window by means of one field, and realizes the effect of indicating more information by using as few bits as possible.

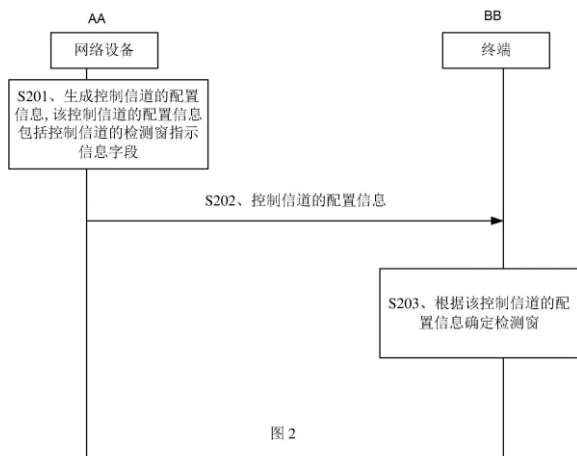


图 2

- S201 Generate configuration information of a control channel, the configuration information of the control channel comprising detection window indication information fields of the control channel
- S202 Configuration information of the control channel
- S203 Determine detection window on the basis of the configuration information of the control channel
- AA Network device
- BB Terminal

21: 2020/02913. 22: 5/19/2020. 43: 3/2/2021

51: F22B

71: Sumitomo SHI FW Energia Oy

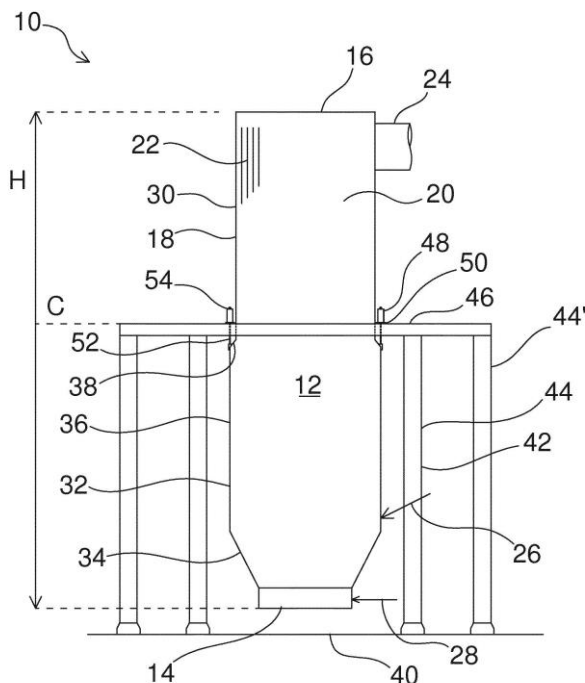
72: LANKINEN, Pentti

**54: A BOILER SYSTEM WITH A SUPPORT CONSTRUCTION**

00: -

A boiler system (10), comprising a support construction (42) and a furnace (12) supported to the support construction at a vertically middle section of the furnace, the furnace being enclosed by water tube walls comprising two side walls (18) and two end walls (20), a roof (16) and a bottom (14), the side walls having a total height (H) from the bottom to the roof, wherein each of the two side walls comprises a vertical upper portion (30) that extends from the roof to a level of 30-70 % of the height (H), a lower portion (32) that extends from the bottom to a level of 30-70 % of the height (H) and has a vertical upper portion (36), and an in downward direction outwards bent intermediate portion (38) at a level between the upper portion of the side wall and the vertical upper portion of the lower portion of the side wall, wherein the support construction (42) comprises horizontal wall supporting beams (48) that are arranged parallel to the side walls (18) at a level below the roof (16) of the furnace and directly above the vertical upper portions (36) of the lower portions (32) of the two side walls (18), and the furnace (12) is supported to the support construction (42) by having the intermediate portions (38) of the side

walls connected to adjacent horizontal wall supporting beams (48) so as to balance vertical loads of the furnace.



21: 2020/02978. 22: 5/21/2020. 43: 3/3/2021

51: A61K

71: PHARMATHEN S.A.

72: KARAVAS, Evangelos

**54: PRESERVATIVE FREE PHARMACEUTICAL COMPOSITION FOR OPHTHALMIC ADMINISTRATION CONTAINING CYCLOSPORINE**

00: -

This present invention relates to a stable preservative-free Cyclosporine emulsion in the form of eye drops and a process for the manufacturing thereof, packed in a container that substantially ensures stability of the product for the treatment of keratoconjunctivitis sicca.

21: 2020/02979. 22: 5/21/2020. 43: 3/1/2021

51: B60S; B61B; B61D

71: Ergon Logistics (Pty) Ltd

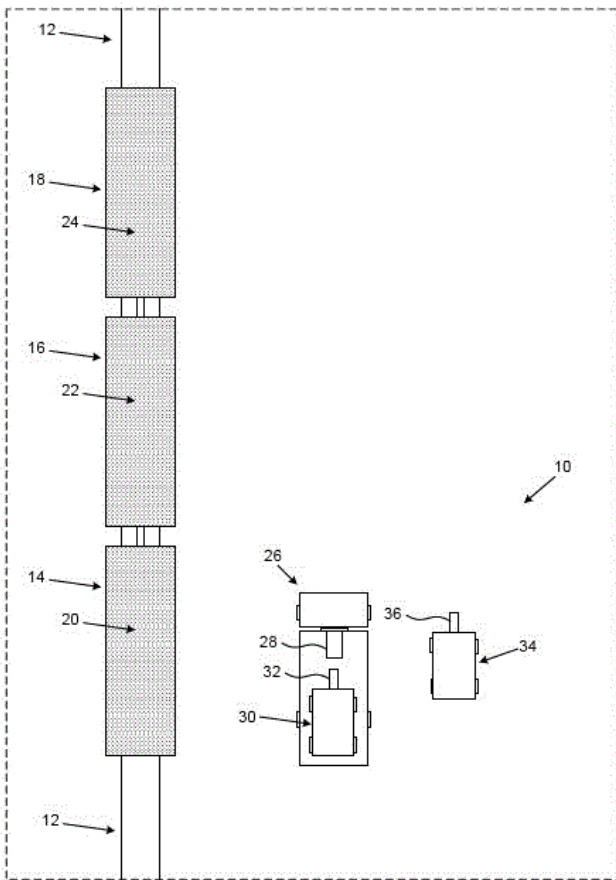
72: TEN HAVE, Arnoud Eduard

33: ZA 31: 2019/03594 32: 2019-06-05

**54: FACILITATING CLEANING OF DEPOSITS FROM RAIL WAGONS**

00: -

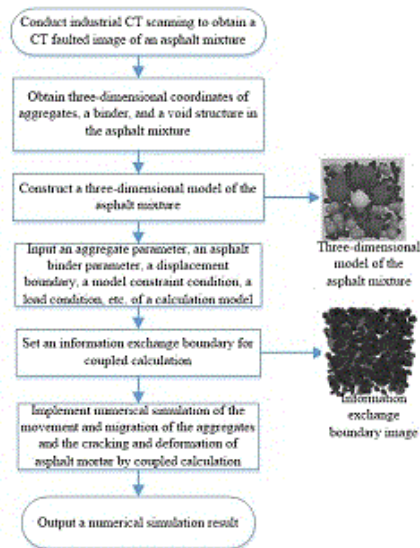
The invention provides a method of and a system for facilitating the cleaning of deposits from a railway wagon. The method includes positioning a machine which is equipped with an automated vibratory or percussive member in the rail wagon. The vibratory or percussive member is used to break up at least some of the deposits and separate at least some of the deposits from the wall and floor of the rail wagon after which the separated deposits are removed from the rail wagon. The automated vibratory or percussive member is mounted on or forms part of an automated machine and the system includes lifting equipment whereby the machine can be lifted onto and removed from a rail wagon.



21: 2020/02980. 22: 5/21/2020. 43: 3/3/2021  
 51: G06F; G06T  
 71: CHANGSHA UNIVERSITY OF SCIENCE AND TECHNOLOGY  
 72: YU, HUANAN, LI, SHUNJUN, QIAN, GUOPING, GONG, XIANGBING, ZHU, XUAN  
 33: CN 31: 201910884357.3 32: 2019-09-19  
**54: NUMERICAL SIMULATION METHOD FOR ASPHALT MIXTURE BASED ON DISCRETE**

**ELEMENT METHOD-FINITE DIFFERENCE METHOD COUPLING**

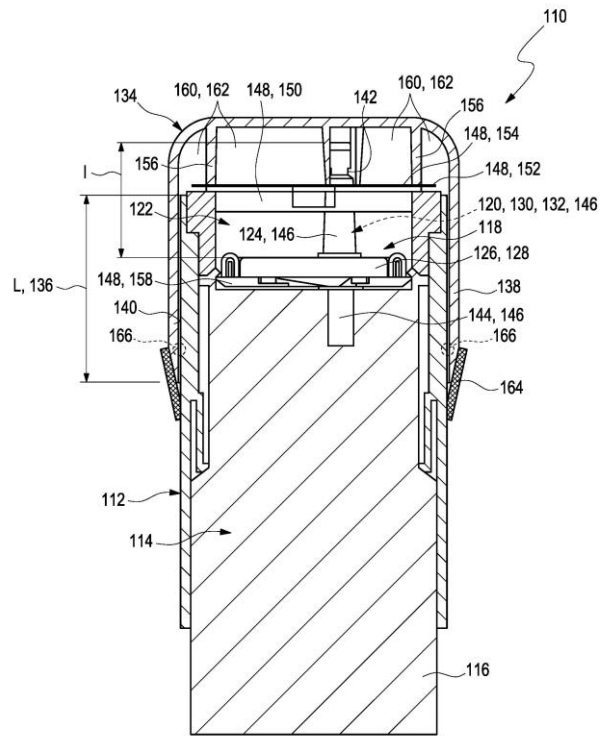
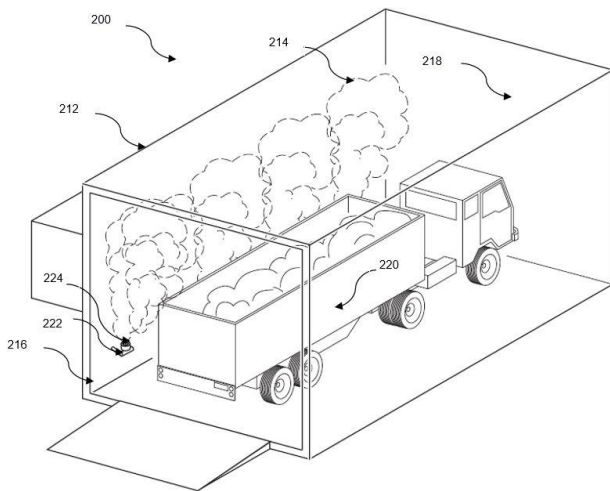
00: -  
 The present invention discloses a numerical simulation method for an asphalt mixture based on discrete element method (DEM)-finite difference method (FDM) coupling. Aggregates of an asphalt mixture are processed by a DEM, and an FDM is used to implement continuous medium simulation of an asphalt binder in the asphalt mixture. The influence of the DEM-FDM coupling on mechanical properties of the asphalt mixture such as the strength and modulus is considered, to implement simulation of the deformation, shrinkage, cracking, etc. of a multiphase material in the asphalt mixture under different load. The present invention can accurately restore a void structure and true shapes and sizes of the aggregates and a binder in the asphalt mixture, and can characterize distribution characteristics thereof.



21: 2020/02994. 22: 21/05/2020. 43: 3/3/2021  
 51: A61L  
 71: COETZEE, Andre Johan  
 72: COETZEE, Andre Johan  
 33: ZA 31: 2017/07343 32: 2017-10-30  
**54: DISINFECTATION STATION AND METHOD OF USING SAME**

00: -  
 A disinfection station for accommodating food, people working with food, and equipment used in handling food, the disinfection station comprising a hermetically sealable chamber having an entry and

an exit linked thereto, the disinfection station being characterized in that a spray system, having at least one outlet, is provided within the chamber, said system being linked to a disinfectant storage and a pump unit so as to permit selective flow of a disinfectant through the spray system before exiting, in droplet form, through said at least one outlet to enter and fill the volume within the chamber. The invention extends to a method of disinfecting food, people working with food, and equipment used in handling food.



21: 2020/02998. 22: 5/21/2020. 43: 3/3/2021  
 51: A61B  
 71: F. Hoffmann-La Roche AG  
 72: KONYA, Ahmet  
 33: EP(CH) 31: 17209756.0 32: 2017-12-21  
**54: MEDICAL SYSTEM AND METHOD OF MANUFACTURING THEREOF**  
 00: -

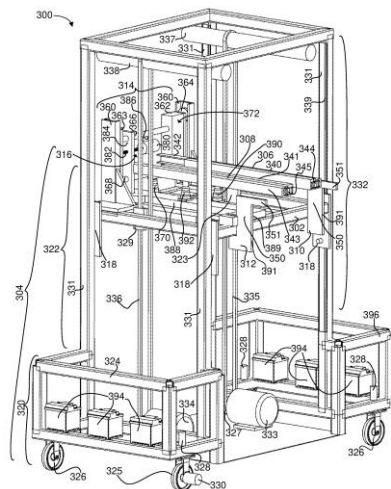
The invention discloses a medical system (110). The medical system (110) comprises: a. a housing (112); b. a preassembled functional module (118) received in the housing (112), the pre-assembled functional module (118) comprising b1. an analytical sensor (120) for detecting at least one analyte in a body fluid of a user; b2. an electronics unit (126) electrically connected to the analytical sensor (120); and b3. an insertion component (130) for inserting the analytical sensor (120) into a body tissue of the user; c. at least one removable protective cap (134) connected to the housing (112), covering the preassembled functional module (118).

21: 2020/03012. 22: 21/05/2020. 43: 3/31/2021  
 51: B65D; B66F  
 71: SOFTENLIFT LTD.  
 72: PICHA, Guy

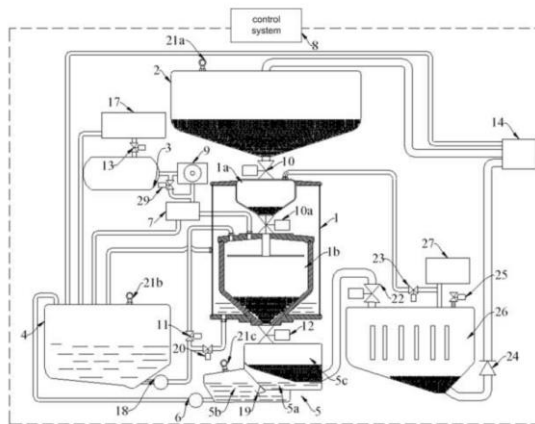
33: US 31: 62/727,001 32: 2018-09-05  
 33: IL 31: 256019 32: 2017-11-30  
**54: PALLET SHELFING APPARATUS**

00: -  
 A pallet shelving apparatus for shelf racking of a pallet in a shelf structure, configured to operate in loading, unloading, and hibernate / transport modes. To transport from these transports and positions the platform. On a platform configured for loading and unloading the pallet from a selected shelf of the shelf structure, at least one deployable pallet carrying structure is mounted and configured for carrying, reaching and engaging the pallet. At least one deployable anchor, for temporarily stabilizing the pallet shelving apparatus against at least one hold is deployed in the loading or unloading mode, to engage the at least one hold for stabilizing, and features the at least one hold located off ground, off ceiling, or inside the volume confined by the convex hull of the shelf structure. This volume may be disposed between the platform and at least one of the at least one hold, while in the loading or

unloading mode, at least before changing mode into the hibernate / transport mode. The at least one deployable anchor is configured to change the elevation of the at least one deployable pallet carrying structure, after the carrying structure initially engages the pallet.



reaction, and meanwhile realizing the recycling of the reaction by-product. The raw material tank, the water tank and the recycling chamber are connected to the feeding port respectively, thereby realizing synchronous operation of the raw material addition and the by-product recycling and saving the operation procedures and time.



21: 2020/03027. 22: 22/05/2020. 43: 4/7/2021  
 51: C01B  
 71: CHINT GROUP CORPORATION  
 72: LIN, Liming, HUANG, Huizhong  
 33: CN 31: 201711426566.0 32: 2017-12-25  
 33: CN 31: 201810280332.8 32: 2018-03-30  
**54: AUTOMATIC AND CONTINUOUS HYDROGEN GENERATION DEVICE**

00: -  
 The present invention relates to the technical field of equipment, in particular to an automatic and continuous hydrogen generation device. The automatic and continuous hydrogen generation device comprises a feeding port, a control system, a raw material tank, a water tank, a hydrogen storage tank, a recycling chamber and a hydrogen generation chamber. The raw material tank is connected to the hydrogen generation chamber, the water tank is connected to the hydrogen generation chamber, and the raw material tank, the water tank and the recycling chamber are further connected to the feeding port respectively. The reaction chamber functions as a reaction vessel for the metal hydride and the liquid reactant. The recycling chamber and the hydrogen storage tank can release the space of the reaction chamber in time, thereby realizing the continuous and controllable hydrogen generation

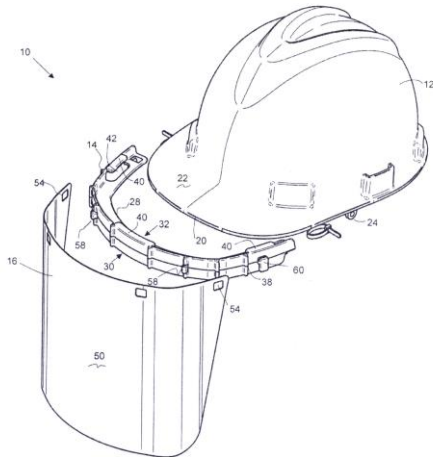
21: 2020/03066. 22: 5/25/2020. 43: 4/7/2021  
 51: G01S  
 71: PEARL RIVER FISHERIES RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES  
 72: WU, Zhi, LI, Jie, LI, Xinhui, ZHU, Shuli, YANG, Jiping, LI, Yuefei  
 33: CN 31: 201910831767.1 32: 2019-09-04  
**54: ACOUSTIC RECOGNITION METHOD FOR BUBBLE SIGNAL IN FRESH WATER**

00: -  
 The present invention discloses an acoustic recognition method for a bubble system (BS) in fresh water. The method includes the following steps: S1, acoustic data acquisition; S2, acoustic data analysis; S3, signal recognition; and S4, result verification, where S1 further includes the following steps: A1, selecting a reservoir or lake as a research area, and fixing an echosounder vertically down to a ship's side, a draft depth being about 0.5 m and a ship velocity = 3 km/h; and A2, setting a course of the ship to be a density gradient line perpendicular to a bubble, using a zigzag or parallel section. By collecting and analyzing the raw acoustic data, the present invention explores the signal characteristics, motion laws and recognition methods of underwater gases, and provides a way of thinking for analyzing

the evolution of the bottom sediment of rivers, lakes and reservoirs.

21: 2020/03067. 22: 5/25/2020. 43: 4/7/2021  
 51: A42B; A61F; A62D  
 71: ROHLAND MADE CC  
 72: ROHLAND, Charles John Max  
**54: VISOR FRAME**

00: -  
 A helmet to which a frame is releasably fixed and a transparent visor which is releasably attached to the frame.



21: 2020/03101. 22: 26/05/2020. 43: 4/14/2021  
 51: A61K; A61P  
 71: SIMS, Caroline  
 72: SIMS, Caroline  
 33: GB 31: 1718084.5 32: 2017-11-01  
**54: A DIETARY COMPOSITION COMPRISING PLANT-BASED SOURCES OF FATTY ACIDS**

00: -  
 A dietary composition including saw palmetto and coconut oil in a proportion whereby the daily dose provides a controlled amount of fatty acids, having a minimum of 37.5mg lauric acid and 16.44mg myristic acid.

21: 2020/03138. 22: 27/05/2020. 43: 4/12/2021  
 51: A01B; E02F  
 71: AGRIREVOLUTION  
 72: STOFBERG, Jacobus du Toit, DE LANGE, Lodewyk Christoffel  
 33: ZA 31: 2017/07797 32: 2017-11-17  
**54: AN EARTH CUTTING APPARATUS, SYSTEM AND METHOD**

00: -  
 There is disclosed an earth cutting apparatus comprising a plurality of articulated elements including at least a first element having a mounting structure thereon and an adjacent second element hingedly connected to the first element. An earth cutting member is provided including a proximal end which is pivotally mounted to the mounting structure of the first element and an earth cutting end. The earth cutting member is slidably connected to the adjacent second element and moveable between an extended position and a retracted position, such that hinged movement of the adjacent second element relative to the first element causes the earth cutting member to slidably extend from the adjacent second element to the extended position for operatively cutting earth. Hinged movement of the adjacent second element in an opposite direction causes the earth cutting member to slidably retract to the retracted position.

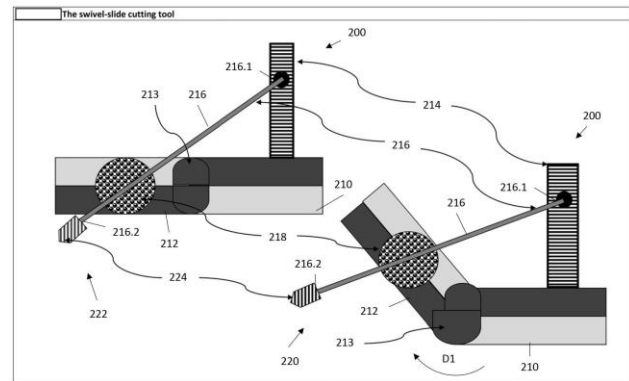
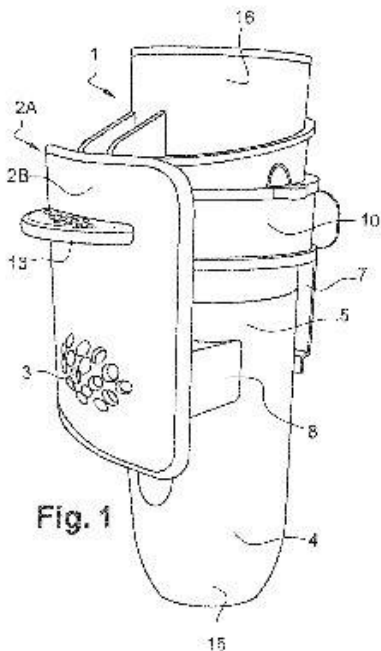


Figure 5

21: 2020/03139. 22: 27/05/2020. 43: 3/29/2021  
 51: A41D; F24F  
 71: BEMICRON  
 72: VANNESTE, Vincent  
 33: BE 31: 2017/5947 32: 2017-12-15  
 33: BE 31: 2018/5590 32: 2018-08-27  
**54: ACTIVE BREATHING SYSTEM**

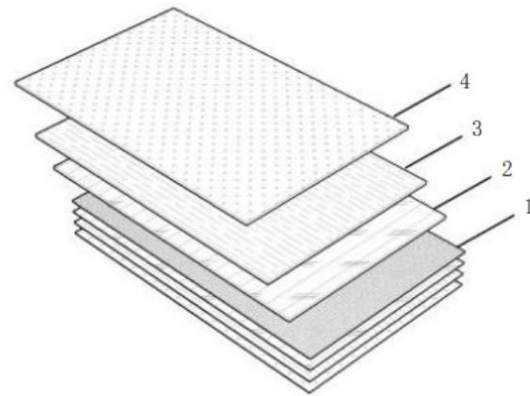
00: -  
 The present invention relates to an active breathing system for a cleanroom suit, designed to be worn by a user, comprising a ventilation device and an air intake means, said active breathing system further comprising a cleanroom suit and optionally an undergarment.



21: 2020/03195. 22: 5/29/2020. 43: 3/31/2021  
 51: B27D; B32B  
 71: CENTRAL SOUTH UNIVERSITY OF FORESTRY AND TECHNOLOGY  
 72: WU, Yiqiang, LI, Xingong, SI, Shuang, ZHENG, Xia, CHEN, Dongshan  
 33: CN 31: 201911086215.9 32: 2019-11-08  
**54: MELAMINE-FACED WOOD-INORGANIC COMPOSITE PANEL AND PREPARATION METHOD THEREOF**

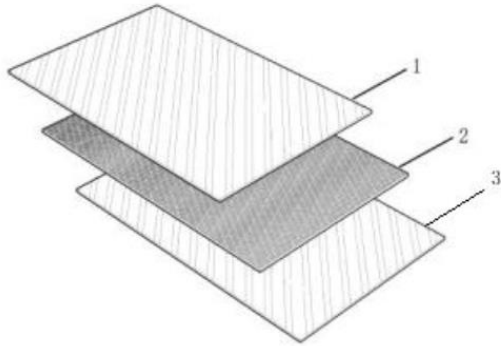
00: -  
 The present invention provides a melamine-faced wood-inorganic composite panel and a preparation method thereof. The melamine-faced wood-inorganic composite panel provided by the present invention includes a first melamine-impregnated paper layer, a first artificial wood veneer layer, a first rotary-cut wood veneer layer, a cotton gauze impregnated layer, a second rotary-cut wood veneer layer, a second artificial wood veneer layer and a second melamine-impregnated paper layer which are successively stacked, where, any two adjacent layers are bonded using a glue; the cotton gauze impregnated layer uses cotton gauze as a base, and the cotton gauze is impregnated with a wood fiber and an inorganic adhesive. In the present invention, the wood fiber is filled inside the cotton gauze with the inorganic adhesive, and then the cotton gauze is stacked to form the cotton gauze impregnated layer,

which is hot-pressed to improve the bending strength of the wood-inorganic composite panel.



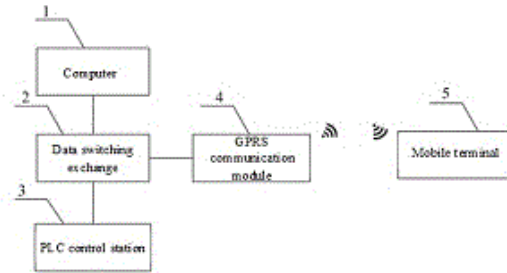
21: 2020/03196. 22: 5/29/2020. 43: 3/31/2021  
 51: B27D; B32B  
 71: CENTRAL SOUTH UNIVERSITY OF FORESTRY AND TECHNOLOGY  
 72: ZHENG, Xia, XIAO, Jiao, LI, Xingong, WU, Yiqiang, CHEN, Dongshan  
 33: CN 31: 201911086210.6 32: 2019-11-08  
**54: SOUNDPROOF COMPOSITE PANEL FACED WITH POPLAR VENEER AND PREPARATION METHOD THEREOF**  
 00: -

The present invention provides a soundproof composite panel faced with a poplar veneer and a preparation method thereof, and belongs to the technical field of composite panels. The soundproof composite panel faced with a poplar veneer provided by the present invention includes a flexible polyurethane foam (PUF) layer and a poplar veneer layer bonded on both sides of the flexible PUF layer, where the flexible PUF layer is based on a flexible PUF sheet; the flexible PUF sheet is impregnated therein with a wood fiber and an inorganic adhesive. In the present invention, the wood fiber and the inorganic adhesive are impregnated inside the flexible PUF sheet, which improve the fire resistance and sound insulation of the composite panel.



21: 2020/03201. 22: 5/29/2020. 43: 3/30/2021  
 51: A01C; A01G  
 71: GUANGZHOU SUGARCANE INDUSTRY RESEARCH INSTITUTE HAINAN SUGARCANE BREEDING STATION  
 72: WANG, QINNAN, CHEN, JUNLV, ZHOU, FENG, QIN, JIANNAN, QIU, YONGSHENG, YE, QUANSHENG, WU, QIWEI, XU, HUANYING  
 33: CN 31: 202010179594.2 32: 2020-03-10  
**54: CONTROL SYSTEM FOR INDUCING SUGARCANE FLOWERING BASED ON PHOTOPERIOD**  
 00: -

A control system for inducing sugarcane flowering based on a photoperiod. The control system includes: a computer, a data switching exchange and a programmable logic controller (PLC) control station. The PLC control station controls a sugarcane cart carrying a sugarcane parent to enter the light induction room according to a target lighting time and a natural lighting time. When the natural lighting time of the sugarcane parent is equal to the target lighting time, the PLC control station turns the light source off and controls the sugarcane cart to enter the dark light induction room, so that the sugar parent no longer receives light. When the natural lighting time is shorter than the target lighting time, the PLC control station turns the light source on to supplement light to the sugarcane parent till the lighting time of the sugarcane parent is equal to the target lighting time.



21: 2020/03204. 22: 5/29/2020. 43: 3/30/2021  
 51: C21D

71: YANSHAN UNIVERSITY  
 72: BAI, ZHENHUA, XU, PENG, HE, ZHAOLONG, WANG, XIAOLEI, WANG, YUNXIANG  
 33: CN 31: 201910485183.3 32: 2019-06-05  
**54: METHOD AND SYSTEM FOR SETTING FURNACE ROLL SHAPE CURVE IN WHOLE FURNACE SECTION OF CONTINUOUS ANNEALING UNIT**

00: -

The present invention discloses a method and system for setting furnace roll shape curves in a whole furnace section of a continuous annealing unit. The method includes: dividing the continuous annealing unit into seven process sections according to initial roll shape curves; acquiring furnace roll shape parameters in each process section; acquiring equipment process parameters of the whole furnace section of the continuous annealing unit; optimizing the furnace roll shape parameters in each process section based on the equipment process parameters; calculating the furnace roll diameter distribution values in each process section based on the optimized furnace roll shape parameters in each process section; and setting furnace roll shape curves in the whole furnace section of the continuous annealing unit based on the furnace roll diameter distribution values in each process section.

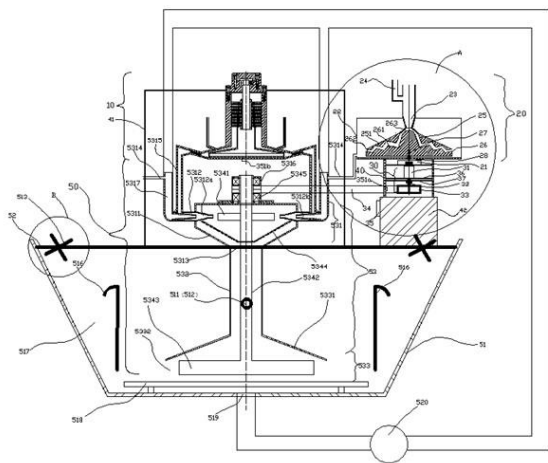
21: 2020/03299. 22: 6/2/2020. 43: 5/6/2021  
 51: B01F; B03D

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY  
 72: JINBO ZHU, CHAO WANG, WEI ZHOU, HONGZHENG ZHU  
 33: CN 31: 202010408386.5 32: 2020-05-14  
**54: HIGH-SPEED SHEARING EMULSIFICATION DEVICE AND COMPLETE FLOTATION EQUIPMENT**

00: -



The present invention relates to the technical field of mineral separation equipment, in particular to a high-speed shearing emulsification device and a complete flotation equipment. In view of this, the present invention provides a high-speed shearing emulsification device and a complete flotation equipment, which have simple structures, realize efficient emulsification of collectors and water, have good emulsification effect, and can fully utilize the pumping energy to effectively add the collectors, foaming agents and other reagents, reduce energy consumption and reagent loss, reduce occupied area of the equipment and maintain stable operation of the equipment.



21: 2020/03309. 22: 6/3/2020. 43: 5/12/2021  
51: B09C

71: Nanjing Institute of Environmental Sciences, MEE

72: ZHANG, Yi, LIU, Yonghua, WU, Jing, LIU, Chenwei, HAN, Zhihua, ZHANG, Jing

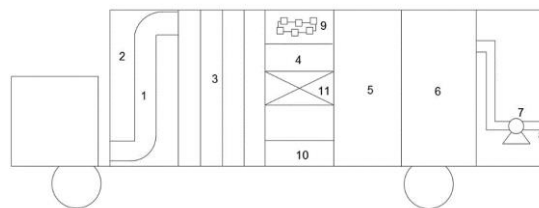
33: CN 31: 201910629786.6 32: 2019-07-12

**54: MOBILE MODULAR TREATMENT DEVICE FOR ORGANIC WASTE GAS IN SITE REMEDIATION**

00: -

The present invention relates to a mobile modular treatment device for organic waste gas in site remediation, including: a gas intake pipe, a gas cooling system, a filter box, a spraying device, a deep dehumidification device, an incineration system, an induced draft fan, and an exhaust funnel. The gas cooling system is provided outside the gas intake pipe. The rear end of the gas intake pipe is connected to the filter box. A multi-stage filter screen is provided in the filter box. An outlet of the filter box

is connected to a gas inlet of the spraying device through a gas pipeline. The spray head and a spray liquid distributor are provided in the spraying device. The spray head and the spray liquid distributor are connected to the spray water tank. The spray liquid distributor is provided with a solenoid valve. A gas outlet of the spraying device is connected to the deep dehumidification device, the deep dehumidification device is connected to the incineration system, and the incineration system is connected to the exhaust funnel through the induced draft fan. The mobile modular treatment device of the organic waste gas in the site remediation of the present invention is integrally arranged on a mobile platform formed by a vehicle or a ship, which can perform waste gas treatment while in motion according to actual needs, and is convenient, fast and efficient.



21: 2020/03367. 22: 6/5/2020. 43: 5/6/2021

51: A01N; H04B

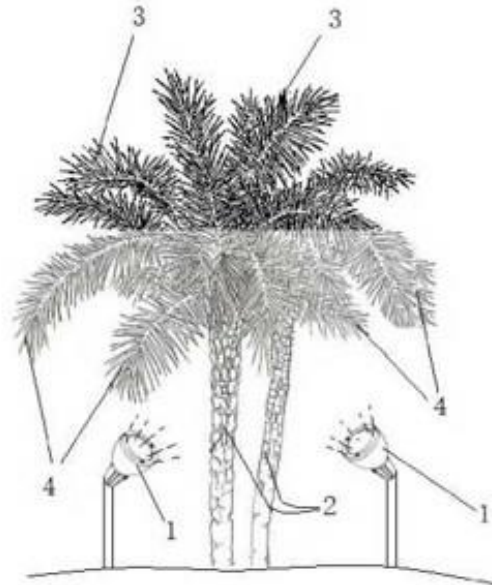
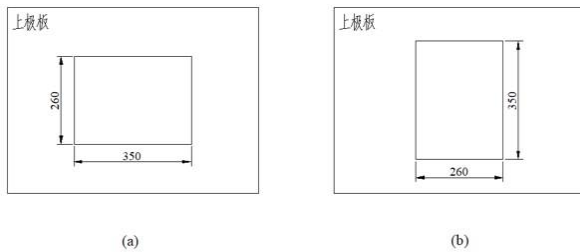
71: NORTHEAST A&F UNIVERSITY

72: SHAOJIN WANG, LIXIA HOU, RUI LI, XIAOXI KOU

**54: INDUSTRIAL RADIO FREQUENCY INSECTICIDAL METHOD FOR AGRICULTURAL PRODUCTS**

00: -

The present invention discloses an industrial radio frequency insecticidal method for agricultural products. Through comprehensive consideration of many factors such as crop types, pest types, packing specifications, placing manners, product requirements, heating rates, preset temperatures, transfer rates and heat preservation time, problems such as insect pests in existing agricultural products and environmental pollution brought by insect killing by virtue of chemical fumigation are solved, quality of the agricultural products is ensured, and industrial radio frequency production efficiency is increased.



21: 2020/03434. 22: 6/8/2020. 43: 5/6/2021

51: C09D; H05B

71: CODE&ROAD (HAINAN) ARTIFICIAL INTELLIGENCE CO., LTD.

72: MINGFA CHEN

33: CN 31: 201910795046.X 32: 2019-08-23

**54: METHOD FOR SETTING ENVIRONMENT-FRIENDLY AND ENERGY-SAVING COLORED-LEAF STREET LAMPS**

00: -

The present invention belongs to a method for setting environment-friendly and energy-saving colored-leaf street lamps, which utilizes leaves to reflect light to illuminate a surrounding environment. The method comprises the following steps: spraying colored paints on green leaves of trees under street lamps to paint the green leaves into colored leaves; and reflecting light from the street lamps on the colored leaves into the surrounding environment to avoid absorption and loss of the light by the green leaves, thereby saving energy, protecting the environment and brightening the environment. The colored leaves in the present invention also play a role of embellishing green belts, so that the green belts are rich in color and bright as flowers, thereby landscaping the city and environment.

21: 2020/03438. 22: 6/9/2020. 43: 4/21/2021

51: A01B

71: Zhangye Agricultural Science Research Institute

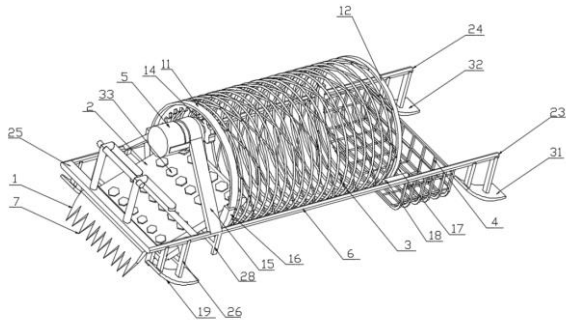
72: Jiqiang Li

**54: PICKUP DEVICE FOR AUTOMATIC CLEANING OF THE MULCHING FILMS**

00: -

The invention discloses a pickup device for automatic cleaning of the mulching films, comprising a soil-lifting device, a transmission device, a soil-screening device, a storage device, a transmission mechanism and a main frame wherein the soil-lifting device is provided at the bottom of the main frame; one end of transmission device is arranged below the tail of the soil-lifting device while the other end thereof is extended to the interior of the soil-screening device; the front end of the soil-lifting device is provided with a plurality of pickup teeth, the transmission device includes a conveyor belt and a small electromotor, and at two ends of the soil-screening device are respectively arranged with a first directional rail and a second directional rail among which inside the first directional rail is mounted with a driven gear; a driving gear is arranged on the transmission mechanism and the driven gear is meshed with the driving gear; a first guide groove, a second guide groove and a rotating shaft are arranged at the joint of the main frame and the soil-screening device, at bottoms of two ends of the main frame are arranged with sliding boards and above the front end thereof is arranged with a

connecting device; the invention enables the mulching film to be picked up more cleanly, has high working efficiency, and the mulching film won't fly around.

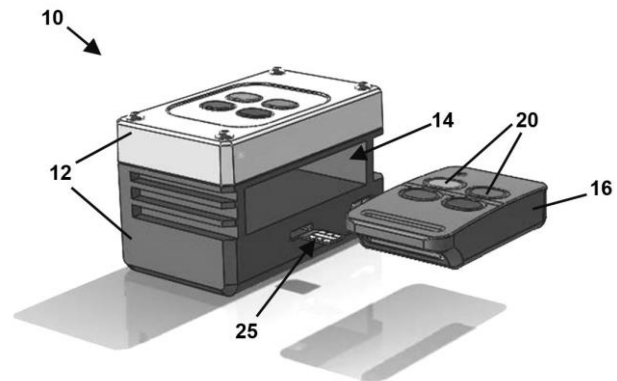


21: 2020/03557. 22: 6/12/2020. 43: 5/6/2021  
 51: B60C; C08C  
 71: HEILONGJIANG INSTITUTE OF TECHNOLOGY  
 72: QIANG WANG, LI JIANG, XIAOJIE QI, YUNLONG WANG, GUOTIAN WANG  
 33: CN 31: 201911129898.1 32: 2019-11-18  
**54: ENGINEERING RETREADED TIRE TREAD CONTAINING GRAPHENE OXIDE AND PREPARATION METHOD**

00: -  
 The present invention discloses an engineering retreaded tire tread containing graphene oxide, which comprises the following parts by weight of raw materials: matrix rubber, white carbon black, carbon black, modified graphene oxide, accelerating agent, vulcanizing agent, anti-aging agent, auxiliary, stearic acid, zinc oxide, aromatic oil, anti-ozone wax and tackifier. In the present invention, the modified graphene solution is used as the reinforcement material of the engineering retreaded tire tread and is better dispersed in the rubber matrix of the tread through the formulation design, preparation process design, sample preparation and reinforced performance test of the modified graphene-reinforced tread so as to exert the maximum reinforcement effect and load transfer effect of graphene on the rubber matrix of the tread, thereby effectively improving the performance such as chipping-chunking resistance, wear resistance and snag resistance of the engineering retreaded tire tread.

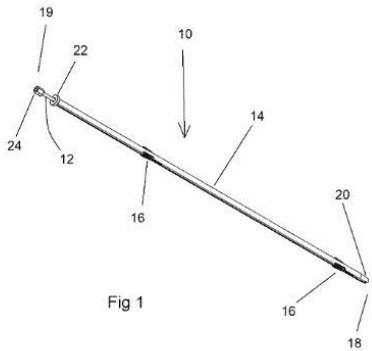
21: 2020/03610. 22: 6/17/2020. 43: 4/30/2021  
 51: H01H  
 71: AIRKEY (PTY) LTD  
 72: DU TOIT, Werner  
 33: ZA 31: 2019/03907 32: 2019-06-17  
**54: REMOTE ACTIVATION OF DEVICES**  
 00: -

A device can be controlled remotely by placing a signal transmitter (16) with several switches (20) in a holder (14) of an accessory (10). Software is operated on a mobile communication device to transmit a signal wirelessly to the accessory (10), which causes an actuator (26) to operate one of the switches (20), so that the signal transmitter (16) emits a signal to control the device.



21: 2020/03632. 22: 17/06/2020. 43: 4/21/2021  
 51: E21D  
 71: CATOI, Peter Bryce  
 72: CATOI, Peter Bryce  
 33: AU 31: 2017904679 32: 2017-11-20  
**54: ROCK BOLT**

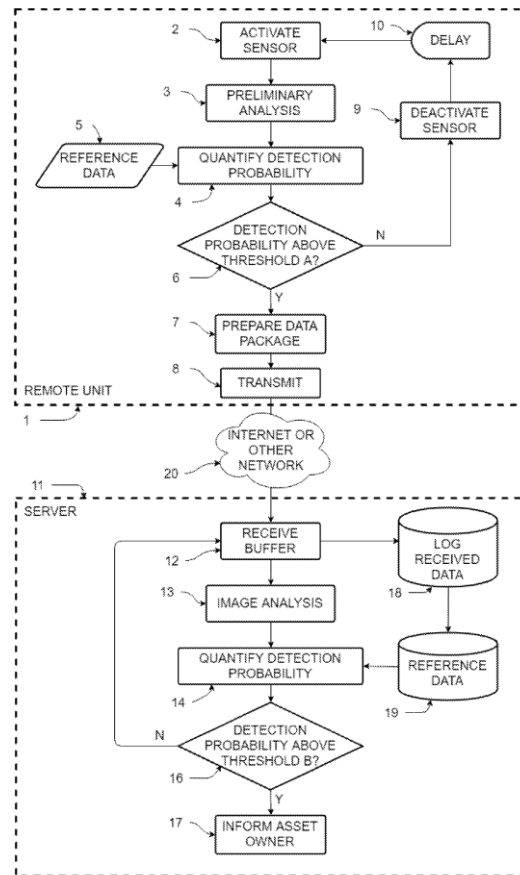
00: -  
 A rock bolt (10) to be received in a drilled hole comprising a threaded shaft (12) and a sleeve (14) into which the shaft (12) is received. A plurality of openings (38) are provided along the length of the sleeve (14) and clamping assemblies (16) each having clamp members (36) are provided adjacent each opening (38). Wedge members (26) are located adjacent each of the clamp members (36) and the wedge members (26) each include a threaded bore for receiving the shaft (12) such that rotation of the shaft (12) moves the wedge members (26) into engagement with the clamp members (36) to move the clamp members (36) outwardly through the openings (38) to engage with an inner surface of the hole.



to a processor and a wireless transmitter, each of the at least one remote camera system having a pest detection surface and being configured to: capture one or more image of the pest detection surface; process the captured one or more image to recognise the potential presence of a target pest on the pest detection surface; and transmit data from the captured one or more image in response to recognising the potential presence of one or more target pests; and a server configured to: receive the transmitted data; process the transmitted data to verify the potential presence of the target pest on the pest detection surface; and provide an output indicating the verification.

21: 2020/03887. 22: 6/24/2020. 43: 5/6/2021  
 51: A23L; F26B  
 71: NORTHEAST A&F UNIVERSITY  
 72: SHAOJIN WANG, RUZHEN XU, RUI LI, XU ZHOU, XIAOXI KOU, LIXIA HOU, CHENCHEN WANG, HONGYI JIANG, YINGTAO QU  
**54: RADIO-FREQUENCY VACUUM-HOT-AIR DRYING METHOD FOR KIWI FRUIT SLICES**  
 00: -

The present invention discloses a radio-frequency vacuum-hot-air drying method for kiwi fruit slices, and belongs to the technical field of food processing. According to the radio-frequency vacuum-hot-air drying method for kiwi fruit slices disclosed by the present invention, the kiwi fruit slices are dried by utilizing the radio-frequency vacuum-hot-air drying method, and moisture content of the kiwi fruit slices may be decreased to be less than moisture content for safe storage, thereby prolonging a storage period of the kiwi fruit slices. Moreover, the radio-frequency vacuum-hot-air drying technology may well maintain original nutritional ingredients of kiwi fruits, and shorten time needed for drying the kiwi fruits.



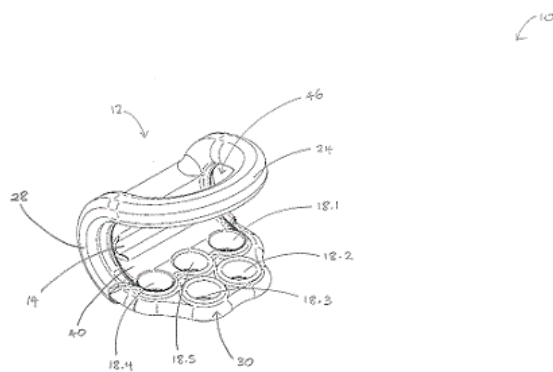
21: 2020/03999. 22: 30/06/2020. 43: 4/21/2021  
 51: A01M  
 71: SPOTTA LIMITED  
 72: FRYERS, Robert John Clayton, D'SOUZA-MATHEW, Neil, FUNK, Gareth David  
 33: GB 31: 1800518.1 32: 2018-01-12  
**54: SYSTEM AND METHODS**  
 00: -

A system for detecting the presence of pests, the system comprising: at least one remote camera system, each of the at least one remote camera system comprising an image capture device coupled

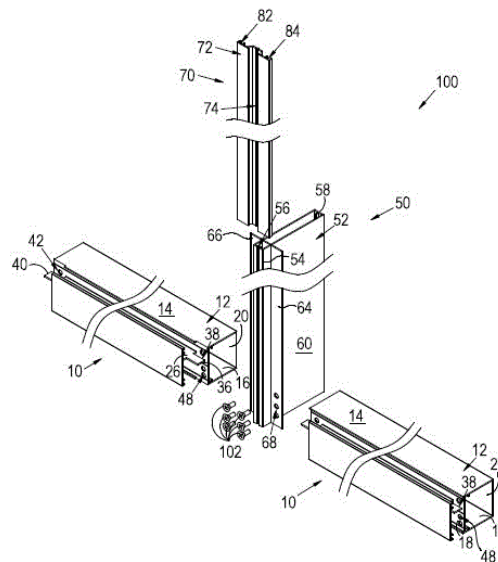
21: 2020/05477. 22: 02/09/2020. 43: 4/30/2021  
 51: A62B; A63B  
 71: ATKINSON, Elsa, Naëtt  
 72: DU TOIT, Johan, Paul  
**54: HARNESS CONNECTION POINT**  
 00: -

The invention provides a harness connection point (10) for connecting a rope (20) to a harness and a

fall arrest device or rope access descender. In particular, the invention relates to a connection point (10) for connecting a lanyard to a fall arrest, rope access or rope harness. The connection point (10) including, a body (12), an attachment means (14) for attaching the body (12) to a harness and one or more friction apertures (18) defined in the body (12), which are configured and dimensioned to receive a rope (20) twice therethrough, in a loop-like configuration and in a friction fit, which loop-like configuration closes under friction provided by the friction fit when the rope (20) is under tension thereby acting as a shock absorber.



The frame arrangement further comprises a first plate member and second plate member which are arranged to be fixed to the first mullion component and second mullion component, respectively. Each plate member comprises a flange which is arranged to be aligned with, and spaced from, the mullion flange of the mullion on which the plate member is fixed. The mullion flange and the plate flange define a pocket that is arranged to accommodate a vertical edge/side of a panel.



21: 2020/06501. 22: 10/20/2020. 43: 4/29/2021  
51: E04B; E04D

71: HBS ALUMINIUM SYSTEMS (PTY) LTD  
72: JOERGENSEN, Jim

**54: TRANSOM-MULLION COMPONENTS, FRAME ARRANGEMENT AND FRAME ASSEMBLY**

00: -

The invention relates to a frame arrangement comprising a first transom component and a second transom component that is vertically spaced from the first transom component; a first mullion component that is longitudinally spaced from an opposite second mullion component, wherein each transom component extends between the first and second mullion components; and a joint arrangement joining each of the first and second transom components to the first and second mullion components. The first and second mullion components comprise a first and second mullion flanges, respectively. The first and second transom components define recesses which face each other, wherein the recess defined by the operatively upper transom component is deeper than the recess defined by the operatively lower transom

21: 2020/06669. 22: 10/27/2020. 43: 3/26/2021  
51: G06F; G06Q

71: Blacklist Consulting, LLC  
72: Kneebusch, William C.

33: US 31: 63/074,174 32: 2020-09-03

**54: METHOD FOR ASSESSING BUSINESS RISK AND BUSINESS CONSULTATION**

00: -

A method for analyzing and assessing a business is herein described, including the steps of assessing the business, analyzing metrics for the business, creating a strategic plan, wherein the strategic plan contains business differentiation information for the business, wherein the strategic plan contains analysis of revenue enhancement and threat mitigation, and setting relative percentage values to the revenue enhancement and the threat mitigation.

FIG. 1

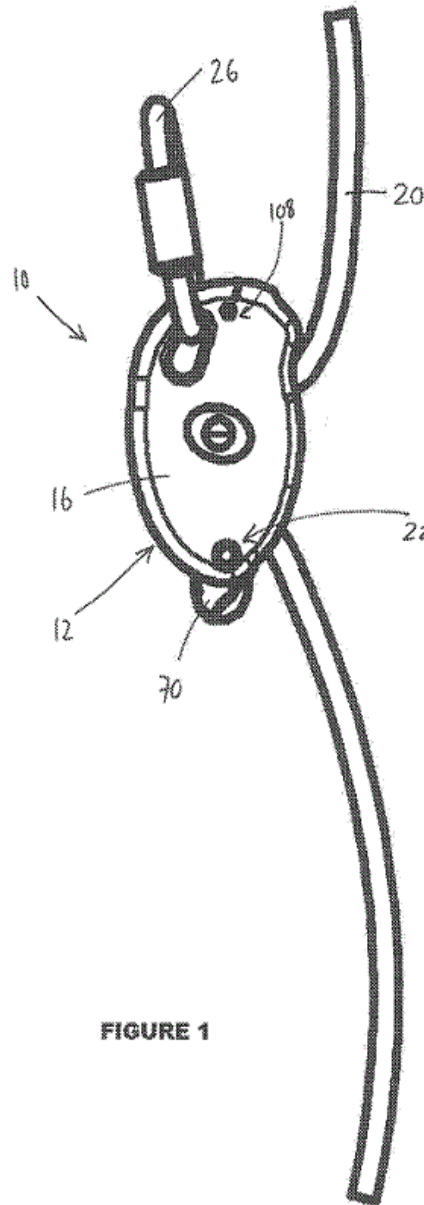
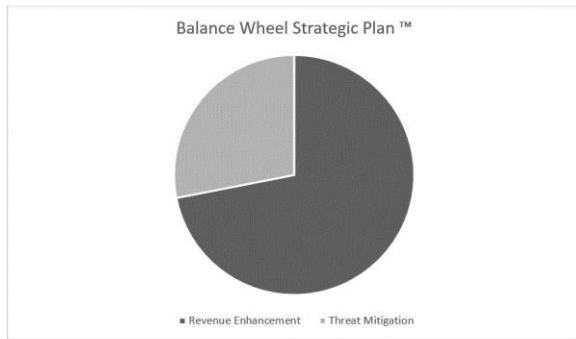


FIGURE 1

21: 2020/07479. 22: 01/12/2020. 43: 4/30/2021  
51: A62B

71: DU TOIT, Johan, Paul  
72: DU TOIT, Johan, Paul

**54: A DESCENDER**

00: -

The invention provides a descender (10), The descender (10) includes a body (12) having a base portion (14) and a cover portion (16) which define a passage (18) therebetween for receiving a flexible elongate member (20) displaceably therethrough; and a connecting arrangement (22) for interconnecting the base and cover portions (14, 16) of the body (12) and allowing displacement thereof between a closed condition and an open access condition wherein the flexible elongate member (20) may be placed into the passage (18), A first aperture (24) is defined in the cover portion (16) which is configured to receive a loop-like connecting member (26) therein, a second aperture (28) is defined in the base portion (14) which is configured to be in register with the first aperture (24) in the closed condition for allowing the loop-like connecting member (26) to be received by both first and second apertures (24, 28) in operation, and a slot (30) is defined in a side region (32) of the base portion (14) and configured to lead into the second aperture (28) for allowing a user to separate and remove the loop-like member (26) from the base portion (14). The descender (10) further includes a controller (34) for controlling displacement of the flexible elongate member (20) through the passage (18) when a person or object connected thereto is descended.

21: 2020/07635. 22: 12/8/2020. 43: 4/28/2021  
51: B63B; F03B

71: OCEAN UNIVERSITY OF CHINA  
72: YU, Tongshun, GUO, Qiyue, SHI, Hongda, LI, Tingyu, MENG, Xiaoyu

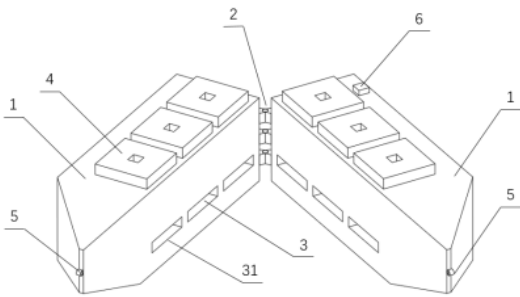
33: CN 31: 202010302452.0 32: 2020-04-17

**54: A STRUCTURE AND METHOD OF WAVE ENERGY POWER GENERATION**

00: -

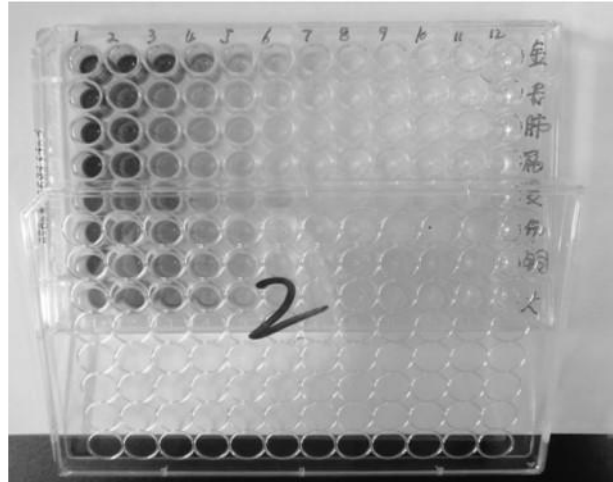
The invention discloses a novel wave energy power generation structure and a power generation method. The structure comprises two hulls whose sterns are hinged together. The hulls are connected at the stern by hinges, which allows the angle

between them to be varied according to the sea state. The same number of oscillating water column (OWC) wave energy conversion devices are installed on the two hulls respectively. A gas channel in the top cover of the OWC is provided with a turbine-generator set. The bow is single-point moored to a fixed object on the sea, and the two catenaries of the mooring system are respectively fixed in two guide holes on the bows of the hulls. The mooring system makes the angle of the two hulls always face the incident waves, so as to ensure an efficient operation in the changing marine environment.



21: 2020/07702. 22: 12/10/2020. 43: 4/20/2021  
51: A61P  
71: NINGXIA MEDICAL UNIVERSITY  
72: FU, XUEYAN, LONG, JUNDIAN, TAO, MENGXIN, WANG, ZHANJUN, LIU, QIANSONG, DONG, LIN, LI, HANG  
33: CN 31: 202011405027.0 32: 2020-12-02  
**54: APPLICATION OF CERASUS HUMILIS (BGE.) SOK EXTRACT IN PREPARATION OF ANTIBACTERIAL PRODUCT**

00: -  
The present invention discloses an application of a *Cerasus humilis* (Bge.) Sok extract in preparation of an antibacterial product. The *Cerasus humilis* (Bge.) Sok extract has significant inhibition effect on *Staphylococcus aureus*, *Staphylococcus epidermidis*, *Klebsiella Pneumoniae*, *Shigella flexneri*, *proteusbacillus vulgaris*, *Salmonella typhi*, *Pseudomonas Aeruginosa*, and *Escherichia coli*, and has great potential in the future development and research of antibacterial drugs and other antibacterial products.



21: 2020/07964. 22: 12/18/2020. 43: 4/29/2021  
51: H01L; H02J  
71: STATE GRID NINGXIA ELECTRIC POWER CO., LTD. ECO-TECH RESEARCH INSTITUTE, STATE GRID NINGXIA ELECTRIC POWER CO., LTD., NINGXIA UNIVERSITY  
72: QU, GAOQIANG, FENG, PU, JIANG, WENJING, YAO, QI, WANG, SHAOJIE, SU, CHUAN, YE, QING, XUE, YUFENG, WANG, LU, LI, XINGCAI, JIN, PANLONG  
33: CN 31: 202010023178.3 32: 2020-01-09  
**54: PHOTOVOLTAIC PANEL STRUCTURE CAPABLE OF REDUCING INFLUENCE OF DUST ACCUMULATION AND METHOD FOR DESIGNING PHOTOVOLTAIC PANEL STRUCTURE**

00: -  
The present invention relates to a photovoltaic panel structure capable of reducing influence of dust accumulation and a method for designing a photovoltaic panel structure. The present invention discloses a new photovoltaic panel structure which can effectively reduce the negative influence of dust accumulation on a photovoltaic panel and can realize high-efficiency power generation by utilizing the special optical phenomenon of dust accumulation. The present invention is mainly to design a photovoltaic glass structure by obtaining the physical property of local dust accumulation and the power spectrum of solar radiation in advance, so as to realize efficient power generation of photovoltaic cells.

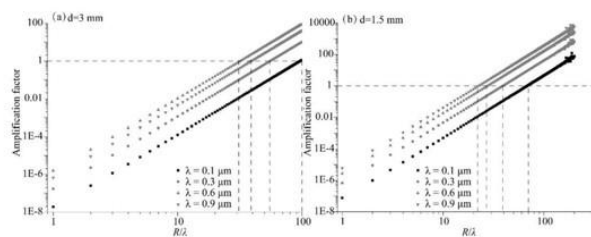


Fig. 1

21: 2021/00258. 22: 1/13/2021. 43: 5/11/2021  
51: A01B; C01B

71: SHANDONG ACADEMY OF AGRICULTURAL SCIENCES INSTITUTE OF AGRICULTURAL RESOURCES AND ENVIRONMENT

72: XU, YU, JIANG, LIHUA, YANG, YAN, SHI, JING, ZHANG, JIANJUN, MA, RONGHUI, WANG, MEI, MENG, FANQIAO, XIAO, JIANJUN, LI, NI

**54: "COMPOSITING RECARBURIZATION AND NITROGEN CONTROL" TYPE EMISSION REDUCTION FERTILIZING METHOD FOR GREENHOUSE VEGETABLES**

00: -

The present invention provides a "composting recarburization and nitrogen control" type emission reduction fertilizing method for greenhouse vegetables, and belongs to the technical field of agricultural fertilization. The method includes: 1) composting recarburization of greenhouse vegetable fields: greenhouse soil recarburization includes two parts, i.e., straw compost returning and application of thoroughly decomposed organic fertilizers; applying the two parts to surface soil and turning over in combination with soil preparation; and uniformly mixing the two parts with greenhouse soil; and 2) reduced nitrogen application of greenhouse vegetables: on the basis of the step 1), comprehensively considering nitrogen requirements of vegetable crops and nitrogen brought by irrigation water; and strictly controlling the nitrogen fertilizer dosage by monitoring soil nutrients in real time.

21: 2021/00506. 22: 25/01/2021. 43: 5/12/2021  
51: A61B

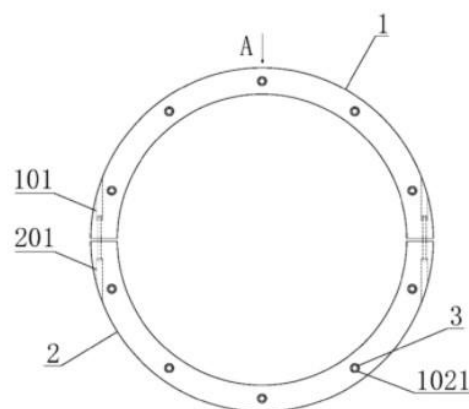
71: YANG, JUN, SANMEN PEOPLE'S HOSPITAL  
72: YANG, JUN, WANG, ZHANGFU, HONG, ZHENGHUA, WANG, BIN, MI, SHUANG, ZHANG, LINTING, FANG, ZEJUN, LU, XIAO, WANG, YUE, FENG, ZHIYUN

33: CN 31: 202010248578.4 32: 2020-04-01

#### 54: AUXILIARY DEVICE FOR REALIZING ACCURATE SHOOTING OF C-ARM FLUOROSCOPY

00: -

The present invention relates to a C-arm fluoroscopy shooting technology, and in particular to an auxiliary device for realizing accurate shooting of a C-arm fluoroscopy. The auxiliary device for realizing accurate shooting of a C-arm fluoroscopy comprises two arc-shaped brackets with the same radius of curvature, which are respectively an arc-shaped bracket A and an arc-shaped bracket B; both ends of the arc-shaped bracket A are respectively connected with both ends of the arc-shaped bracket B through a bolt structure to form a circular ring; the arc-shaped bracket A and the arc-shaped bracket B are respectively provided with a group of lasers which are fixedly connected in a removable way; and the arc-shaped bracket A and the arc-shaped bracket B are respectively provided with a control module and a battery.



21: 2021/00541. 22: 1/26/2021. 43: 5/5/2021  
51: G01N

71: TOBACCO RESEARCH INSTITUTE OF CHINESE ACADEMY OF AGRICULTURAL SCIENCES

72: Sun, Peng, Qiu, Jun, Cao, Jianmin, Guo, Xianfeng, Fang, Song, Zhang, Yizhi, Song, Dean, Liu, Xue

33: CN 31: 2020100877983 32: 2020-02-11

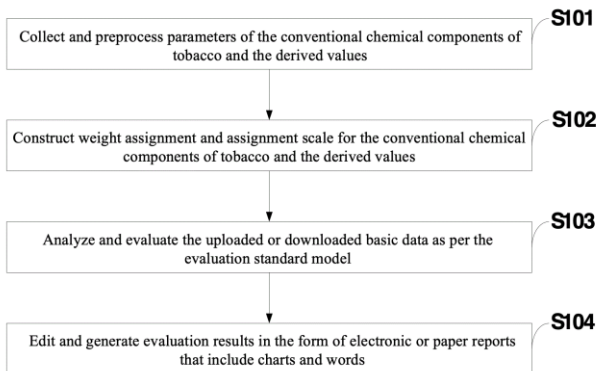
**54: METHOD, SYSTEM, STORAGE MEDIUM, AND PROGRAM FOR DETECTING AROMATIC CHARACTERISTICS WITH RESPECT TO FLUE-CURED TOBACCO**

00: -

The present invention relates to detection technologies of flue-cured tobacco characteristics, and discloses a method, system, storage medium,

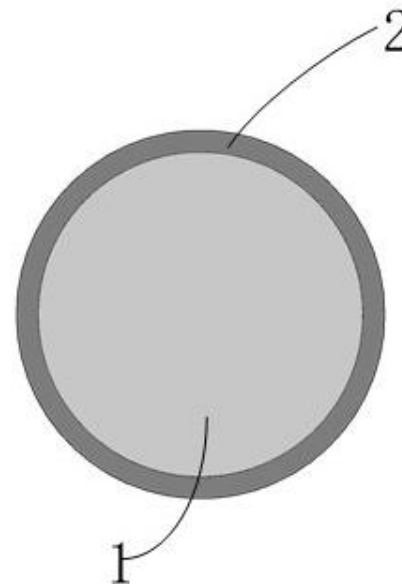


and program for detecting aromatic characteristics with respect to flue-cured tobacco. The present invention collects and preprocesses parameters of the conventional chemical components of tobacco and the derived values; constructs weight assignment and assignment standard for the conventional chemical components of tobacco and the derived values; and analyses and evaluates the uploaded or downloaded basic data as per the evaluation standard model. Additionally, the present invention also edits and generates evaluation results in the form of electronic or paper reports that include charts and words. Regarding the present invention, the evaluation of aromatic characteristics with respect to flue-cured tobacco is essential to the quality and safety evaluation of flue-cured tobacco. Currently, evaluation of aromatic characteristics solely relies on professional sensory evaluation staff. This approach may be heavily affected by such factors as personnel disparity and evaluation standard. As such, detection of the same sample carried out by different persons may yield varying results. For such flaws, the corresponding remedy is provided in the present invention, whose promotion is significantly valuable across many sectors in tobacco farms, cigarette processors, and tobacco research institutes.



21: 2021/00577. 22: 1/27/2021. 43: 5/5/2021  
 51: C04B; E02D  
 71: EAST CHINA UNIVERSITY OF TECHNOLOGY  
 72: LI, DONGWEI, WU, BO, CHEN, XIAOPENG, LU, QINGRUI, CHEN, SHIJUN, LI, PING, JIANG, XIAOYI  
**54: POLLUTED SOFT CLAY FOUNDATION REINFORCED WITH DRAINAGE WOODPILES**  
 00: -

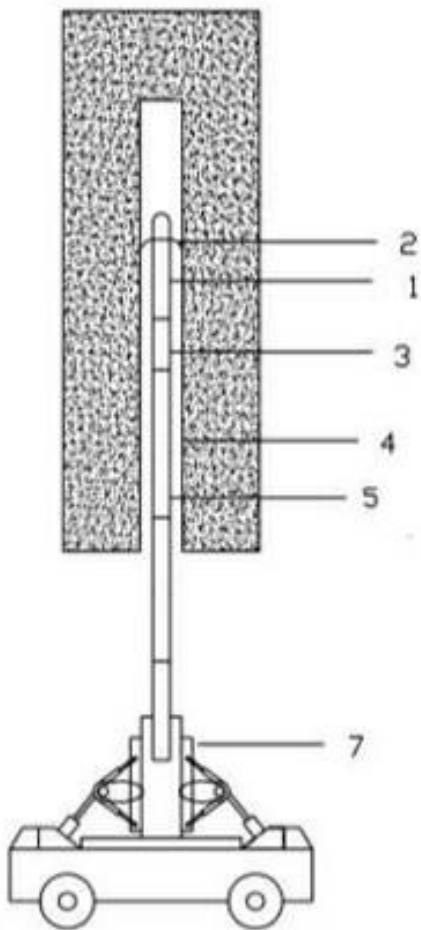
The utility model discloses a polluted soft clay foundation drained and reinforced with surface-carbonized woodpiles. A plurality of drainage woodpiles are pressed into the polluted soft clay foundation. Each drainage woodpile has a wooden core and a carbonized surface layer with a thickness of 1/4-1/3 of a section radius of the pile serving as a drainage structural layer. The drainage woodpiles of the utility model integrate a drainage function and a reinforcement function, are particularly suitable for reinforcing the polluted soft clay foundation of small and medium-sized hydraulic structures, are also suitable for the primary reinforcement of ultra-soft reclaimed soil and peaty soil foundations and can be reused after unplugged according to the treatment timeliness. The utility model has the advantages of simple operation, low cost and reuse of the woodpiles.



21: 2021/00710. 22: 2/2/2021. 43: 5/6/2021  
 51: E21D; F42B  
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY  
 72: ZHANG, XIANGYANG, HUANG, WENYAO, LI, XIUGUAN, ZHAO, QIAN, LUO, LEI, ZHAO, XIANGYANG, ZHANG, YI  
**54: EXPLOSIVE FEEDING METHOD AND APPARATUS FOR ULTRA-DEEP HOLE PRESPLITTING BLASTING**  
 00: -

The present invention relates to the technical field of deep underground blasting of coal mines, and more

particularly relates to an explosive feeding method and apparatus for ultra-deep hole pre-splitting blasting. The apparatus includes grains. Each grain is formed by filling an explosive charging pipe with explosives. A head of each grain is provided with an insert hole perpendicular to a length direction of the grain, and 1-3 anti-skid steel wires are horizontally inserted into each insert hole. Two ends of each anti-skid steel wire extend out of the insert hole to contact the inner wall of a borehole. A tail portion of each grain is fixedly provided with a nylon rod through a connector. The nylon rod is connected with a drill stem. The drill stem is connected to the output end of an electric hydraulic drilling machine.



**54: A DISTRIBUTED FISHING TACKLE FOR FISHING DEEP-SEA THYSANOTEUTHIS RHOMBUS**

00: -

A distributed fishing tackle for fishing deep-sea thysanoteuthis rhombus, which is composed of a fishing tackle bus, a fishing line swivel, a branch line and a fishing hook. It is characterized in that, 2-3 fishing line swivels are installed on the fishing tackle bus, the distance between adjacent fishing line swivels is 5-10m, 1 branch line is connected to the tail of each fishing line swivel, and the end of the branch line is connected to the fishing hook. The invention is used to fish thysanoteuthis rhombus at different water depths, which can effectively improve the production efficiency, and has the advantages of simple assembly and easy promotion.

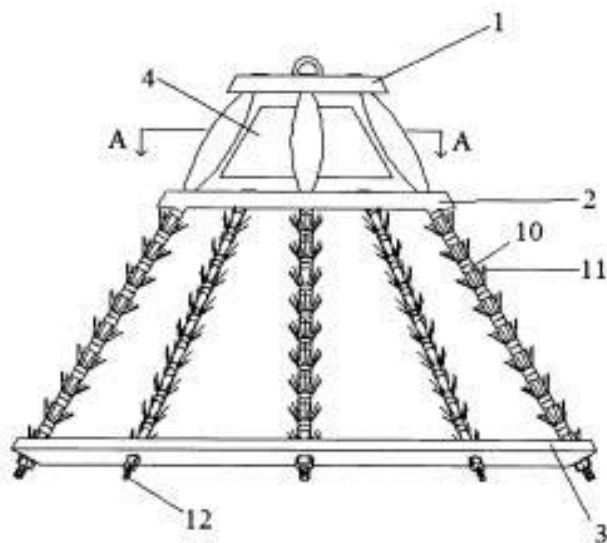


21: 2021/00738. 22: 2/3/2021. 43: 3/29/2021  
 51: A01K  
 71: Shanghai Ocean University  
 72: Xinjun CHEN, Weijie WANG, Zhong ZHANG, Guanyu HU

21: 2021/00739. 22: 2/3/2021. 43: 3/29/2021  
 51: A01K  
 71: Shanghai Ocean University  
 72: Xinjun CHEN, Zhong ZHANG, Guanyu HU, Wei YU, Zhou FANG

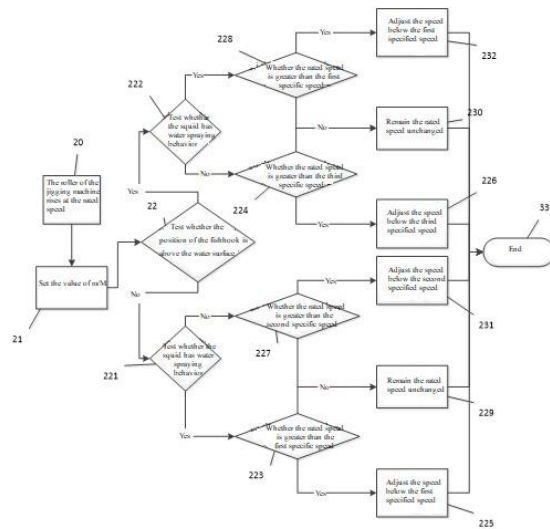
**54: A SQUID FISHHOOK**

00: -  
 The invention belongs to the technical field of fishery fishing tools, and relates to a squid fishhook. The squid fishhook described in the invention mainly takes large cephalopod individuals (such as *Dosidicus gigas*) as the fishing object, the purpose is to solve the problems that the existing squid fishhooks are prone to decoupling and poor trapping effect during the process of fishing large cephalopod individuals. The invention provides a squid fishhook, which comprises a crook, an underwater flashing device and a bracket for installing the crook and the underwater flashing device. The bracket comprises: an upper metal sheet constituting the top surface of the bracket; and a lower metal sheet constituting the bottom surface of the bracket and its size is larger than that of the upper metal sheet; and several connecting rods connecting the edges of the upper metal sheet and the lower metal sheet; the crook is sleeved on several connecting rods, and the technical solution of the invention can be used to effectively solve the above technical problems.



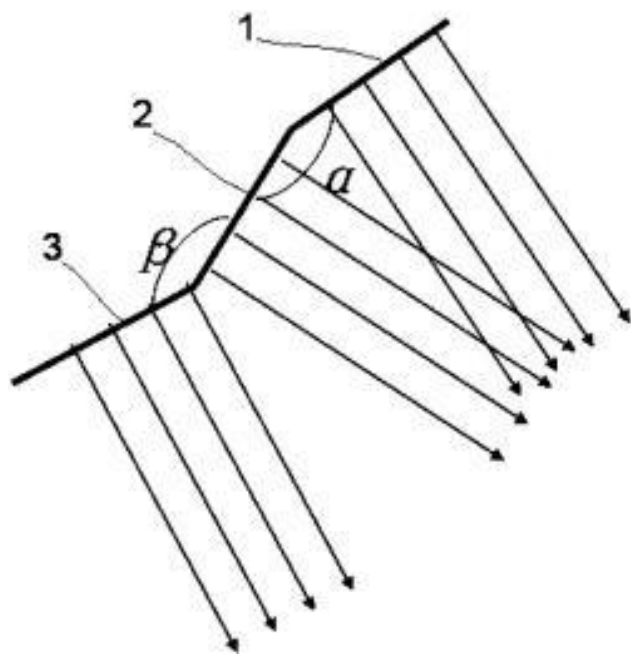
21: 2021/00740. 22: 2/3/2021. 43: 3/29/2021  
 51: A01K  
 71: Shanghai Ocean University  
 72: Xinjun CHEN, Gang LI, Zhong ZHANG, Guanyu HU, Wei YU, Zhou FANG  
**54: A METHOD FOR CONTROLLING THE STARTING LINE SPEED OF SQUID JIGGING MACHINE**  
 00: -

A method for controlling the starting line speed of squid jigging machine, it adopts a starting line speed control system of the jigging machine, which is composed of a pay-off and take-up line length test module, a pulling force test module, a PLC digital controller, a digital amplification circuit, a servo motor and a roller, which is characterized in that, the starting line speed control of the jigging machine comprises the following steps: set the rotating shaft speed of the roller rising as the rated speed; set the value of  $m/M$  according to the target fish catch and specific sea area.  $M$  represents the total mass of all squids and water absorption on the fishline, and  $m$  represents the total mass of  $M$  minus the amount of seawater sprayed by a squid. Test whether the position of the fishhook is above the water surface; test whether the squid has water spraying behavior, and test the rated speed; control the starting line speed of the squid jigging machine according to the test result.



21: 2021/00741. 22: 2/3/2021. 43: 3/29/2021  
 51: A01K; F21K; G02F; H01J; H01K  
 71: Shanghai Ocean University  
 72: Xinjun CHEN, Gang LI, Zhong ZHANG, Guanyu HU, Zhou FANG  
**54: A COMBINED TYPE LED ABOVE-WATER FISH LAMP**  
 00: -  
 The present invention provides a combined type light emitting diode (LED) above-water fish lamp, characterized in that consisting of three lamp panels which are in end-to-end connected; and one side surface of each lamp panel is equipped with LED

lamp pieces, and a certain angle is arranged between adjacent lamp panels, wherein the degree of angle is between 120 and 160. In addition to the advantages of the said LED above-water fish lamp described in the present invention, more importantly, it is more important that the present invention addresses the problems of poor heat dissipation performance and poor light color of the high-power LED fish lamps; and also solves the problems that light intensity in the trapping area keeps changing, due to a fish boat swings, and thus, not only prolongs the service life of the LED fish lamp, and expands the trapping range of fishes, but also keeps the gathering of fishes more stable.



21: 2021/00744. 22: 2/3/2021. 43: 5/5/2021

51: C06B; F42B

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

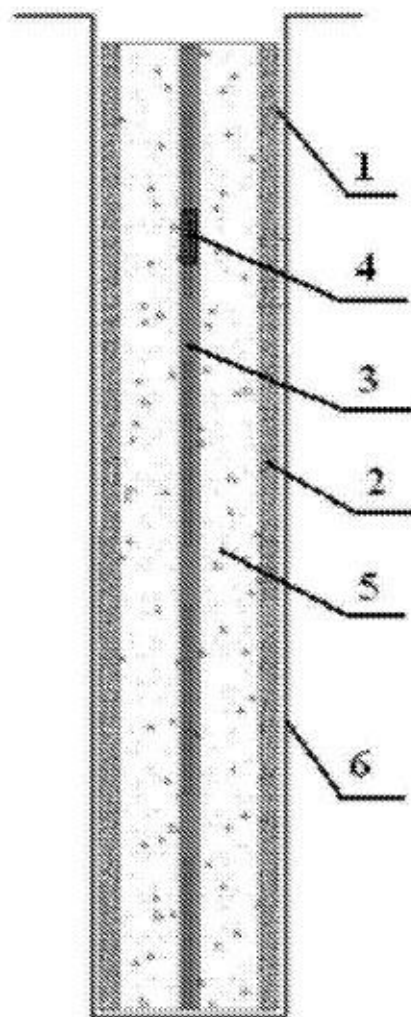
72: XIE, XINGHUA, YANG, GUANG, ZHOU, HUIHENG, YAN, SHAOBO, WU, HONGBO, WANG, QUAN, LIU, SHANGHAO

**54: BLASTING CHARGE STRUCTURE**

00: -

The present disclosure relates to a blasting charge structure, and specifically relates to a blasting charge structure for safe use in open coal spontaneous combustion areas. The invention comprises a shell and sulfur-free black powder filled

inside the shell, there is a detonating device and/or a detonating core provided inside the sulfur-free black powder, the sulfur-free black powder is composed of the following mass fractions of materials: 80 parts of potassium nitrate and 20 parts of charcoal, the sulfur-free black powder has an impact sensitivity of 0, and its 5 s explosion point is above 600°C.



21: 2021/00746. 22: 2/3/2021. 43: 4/29/2021

51: C06C; F42C

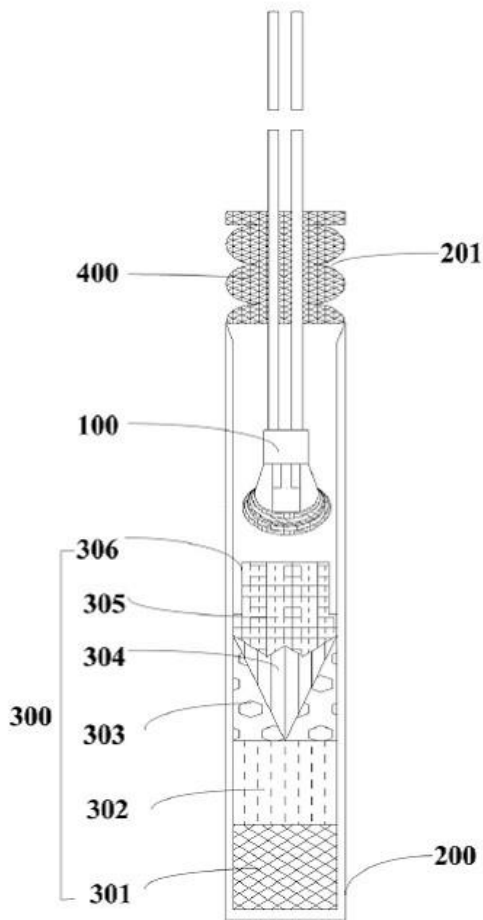
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: XIE, XINGHUA, ZHANG, XINGYAN, ZHOU, HUIHENG, WANG, XIAO, LIU, SHANGHAO, CUI, DIAN, SUN, PENG, ZHANG, LIANGJIE, YANG, HENG, LI, ZENGYUAN, WANG, QUAN, WU, HONGBO, LI, XUEJIAO, DU, MINGRAN

33: CN 31: 2020102508076 32: 2020-04-01

**54: IGNITION ELEMENT, MILLISECOND ELECTRIC DETONATOR WITHOUT CONVENTIONAL DELAY DEVICE AND PROCESSING METHOD THEREOF**

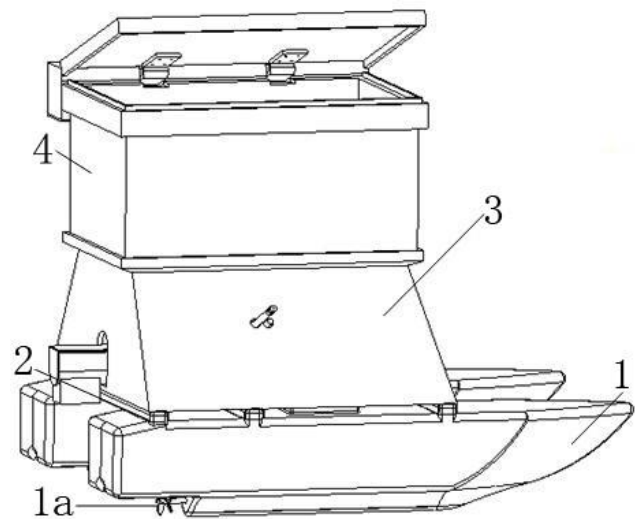
00: -  
 The present disclosure relates to the technical field of detonating device, and specifically relates to an ignition element, a millisecond electric detonator without a conventional delay device and a processing method thereof. In this invention the contact surface between the first-stage nitrocellulose and the second-stage nitrocellulose is not smooth so that a reaction of combustion to detonation can take place stably after the first-stage nitrocellulose is ignited.



21: 2021/00748. 22: 2/3/2021. 43: 3/26/2021  
 51: A01K; B63B  
 71: Shanghai Ocean University  
 72: Lizhen ZHANG, Tan ZHU, Liang ZHANG,  
 Shanhan LIU, Zhengliang CAO, Yongchen LIANG,  
 Xiaozhen YANG

**54: A MOBILE INTEGRATED DEVICE FOR QUANTITATIVE BAIT FEEDING AND SPRAYING**  
 00: -

The invention relates to a mobile integrated device for quantitative bait feeding and spraying in the field of breeding technology. At least one hull with its own propeller is provided, and it also includes: the bait feeder housing is fixedly arranged on all hulls. The feed box is erected on the bait feeder housing. The flip device is located at the upper end of the feed box. The quantitative blanking device is used to quantitatively control the amount of bait dropping, and it is set in the bait feeder housing. The upper end of the quantitative blanking device is the feeding end, which supports and connects to the lower end of the feed box. The lower end of the quantitative blanking device is the discharging end. The upper side of the throwing device used for throwing bait is connected with the lower end of the quantitative blanking device, and the lower side of the device is provided with a discharging end facing the aquaculture water body. The spray device is arranged in the bait feeder housing, and it is installed with a spray end extending out of the bait feeder housing. Among them, the flip device, the quantitative blanking device, the throwing device, and the spray device are all controlled by the remote control terminal, so as to realize the automatic operation of the integration of quantitative bait feeding and spraying.



21: 2021/00810. 22: 2/5/2021. 43: 4/30/2021  
 51: E21F

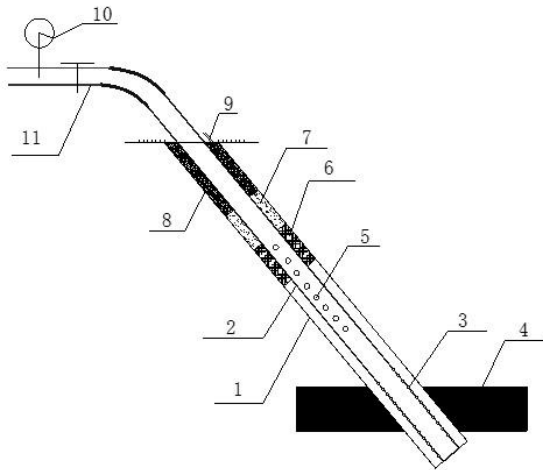
71: ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY

72: LI, SHAOBO, WANG, LEI, ZHU, CHUANQI, CHEN, LIPENG

**54: HOLE SEALING SYSTEM AND METHOD FOR FLOOR THROUGH-BED PRESSURE RELIEF DRILLING HOLE OF CLOSE DISTANCE COAL SEAM**

00: -

A hole sealing system for floor through-bed pressure relief drilling hole of close distance coal seam is disclosed. A hole protecting pipe is provided in the drilling hole. A collecting end of the hole protecting pipe penetrating into the coal seam is provided with a porous floral pipe for gas extraction. A polyurethane plugging layer and a cement mortar layer are sequentially provided in the drilling hole along the outer circumference of the hole protecting pipe in the gas extraction direction from the inside to the outside for plugging the drilling hole. And a hole sealing method for floor through-bed pressure relief drilling hole of close distance coal seam is disclosed. The disclosure improves the gas extraction efficiency, has better sealing property and better extraction effect, effectively reduces the gas content of the extracted coal seam, and ensures the mining safety of the extracted coal seam.



21: 2021/01164. 22: 2/22/2021. 43: 5/5/2021

51: E21B

71: Sasol Mining (Pty) Ltd

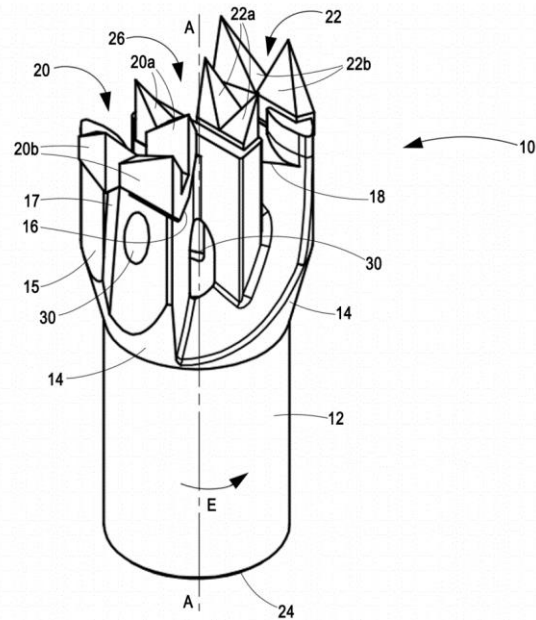
72: ODELL, Gregory Bruce, SWANEPOEL, Richard

33: ZA 31: 2019/07665 32: 2019-11-20

**54: DRILL BIT**

00: -

A drill bit which includes: (i) a shank having a connecting end that is connectable to a drilling apparatus and a cutting end; (ii) a pair of circumferentially spaced wings on the cutting end of the shank which protrude radially from the shank; (iii) a pair of seats defined on a shoulder on the wings; and (iv) first and second cutting inserts secured to the seats. Each cutting insert comprises two pairs of polyhedral teeth, a first inner pair nearer to the radial periphery of the cutting end; and a second outer pair nearer to the central axis of the drill bit.



21: 2021/01265. 22: 2/25/2021. 43: 5/5/2021

51: A23B

71: Jingchu University of Technology

72: Jinsong Wang, Qingping Yi, Deyan Zhu, Qingchan Chen, Qingmei Jian, Yuanxin Miao, Aihong Sun, Xicai Zhang

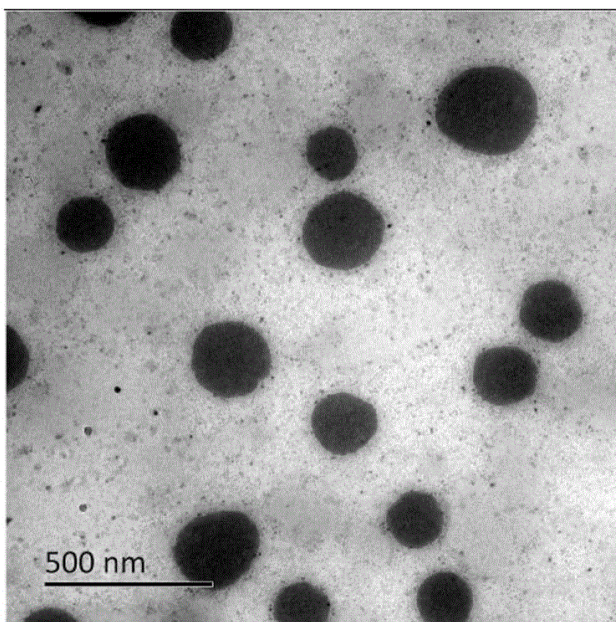
33: CN 31: 202010636815.4 32: 2020-07-03

**54: EDIBLE FRUIT AND VEGETABLE NANO COATING PRESERVATIVE, AND PREPARATION METHOD AND APPLICATION THEREOF**

00: -

The invention discloses an edible nano coating agent for fruits and vegetables which components are as follows in terms of mass percentage: 40 – 60 wt % Pickering emulsion of hydrophobic nano phytoglycogen; 0.3 – 0.7 wt % antibacterial peptide Enterolysin A; 1 – 3 wt % cinnamaldehyde; 4 – 6 wt % chitosan; 2 – 4 wt % sorbitol; the rest is deionized water. Experiments have proved that the hydrophobic nano-plant glycogen Pickering emulsion

prepared in the present invention can not only prolong the efficacy of the antibacterial ingredients, but also improve the antibacterial activity of the antibacterial ingredients, greatly increase the antiseptic effect of the coating agent, and delay the spoilage of fruits and vegetables. When the antibacterial peptide Enterolysin and cinnamaldehyde are embedded in Pickering emulsion as antibacterial agents, they have a synergistic effect without antagonism, and they can increase the antibacterial effect and enhance the stability of edible coating agents.



21: 2021/01268. 22: 2/25/2021. 43: 3/10/2021  
51: A01K

71: SHANGHAI OCEAN UNIVERSITY  
72: ZHANG, Shuo, HUANG, Chengyu, YANG, Jinlong, GAO, Shike, SUN, Wen, ZHANG, Jiarui, ZHU, Huiqiang

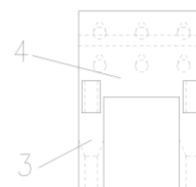
33: CN 31: 202011494404.2 32: 2020-12-17

#### **54: A COMBINABLE CROSS-TYPE ARTIFICIAL FISH REEF**

00: -

A combinable cross-type artificial reef includes a front plate and a back plate, where the front plate and the back plate are both a frame-shaped plate with an opening on one side. Two sides of the frame-shaped plate are provided with a supporting component, and a connecting component is provided for connecting the two supporting components. A side of the connecting components of the front plate and the back plate away from the

supporting component are connected to each other to form a triangular cross-type structure. At least one conical structure is connected to an outer side of the front plate, and a bottom of the conical structure is connected to an outer side of the front plate.



21: 2021/01269. 22: 2/25/2021. 43: 3/17/2021  
51: A01K

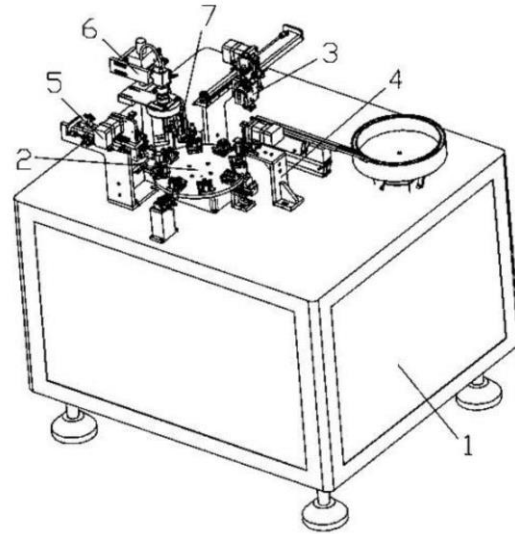
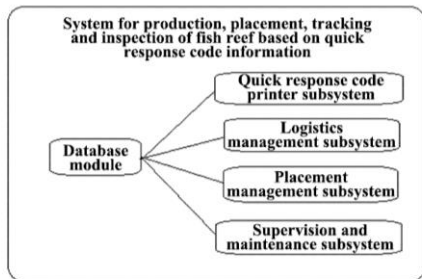
71: SHANGHAI OCEAN UNIVERSITY  
72: ZHANG, Shuo, GONG, Siming, GAO, Shike, SUN, Wen, YU, Wenchi, LU, Jikun, FU, Guanghui, ZHU, Huiqiang

33: CN 31: 202023048063.4 32: 2020-12-17

#### **54: A SYSTEM FOR PRODUCTION, PLACEMENT, TRACKING AND INSPECTION OF FISH REEFS BASED ON QUICK RESPONSE CODE INFORMATION**

00: -

The present application discloses a system for production, placement, tracking and inspection of an artificial reef based on quick response code information including: a database module configured to store information in production, transportation and placement of the artificial reef corresponding to the quick response code; a quick response code printer subsystem configured to print the quick response code; a logistics management subsystem configured to record delivery and storage information of the artificial reef corresponding to the quick response code and store it in the database module; a placement management subsystem configured to record transportation and placement information of the artificial reef corresponding to the quick response code and store it in the database module; and a supervision and maintenance subsystem configured to record performance information of the artificial reef corresponding to the quick response code and store it in the database module.



21: 2021/01578. 22: 3/9/2021. 43: 4/29/2021  
51: B23P

71: Xuchang University

72: Xiaobo Yang

33: CN 31: 202010248139.3 32: 2020-04-01

#### 54: RELAY ASSEMBLING AND DETECTING EQUIPMENT

00: -

The invention discloses a relay assembling and detecting equipment, comprising a workbench, wherein the middle of the upper surface of the worktable is provided with a rotatory material loading device; the direction in which the rotatory material loading device rotates clockwise is sequentially provided with a feeding mechanism, a downward pressing mechanism, a dispensing mechanism, a CCD visual inspection mechanism, and a defective product rejection mechanism; the feeding mechanism transports the relay housing to the product of the rotatory material loading device; the downward pressing mechanism and the dispensing mechanism sequentially press and dispense the relay housing at the upper end of the product; the CCD visual inspection mechanism performs appearance inspection on the finished product; the defective product rejection mechanism rejects the unqualified products from the production line after the appearance inspection is completed; the dispensing mechanism comprises a dispensing bottom plate, a dispensing vertical plate, a glue injection device, and a glue stirring device; the dispensing bottom plate is fixed on the upper surface of the workbench. The invention has simple structure, saves labor cost, improves product qualification rate, and has good market application value.

21: 2021/01579. 22: 3/9/2021. 43: 4/29/2021

51: H04N

71: Nanchang Institute of Technology  
72: Wenhua Sun, Mingyuan Cui, Wei Zhang, Lifeng Wu, Xiaohong Zha

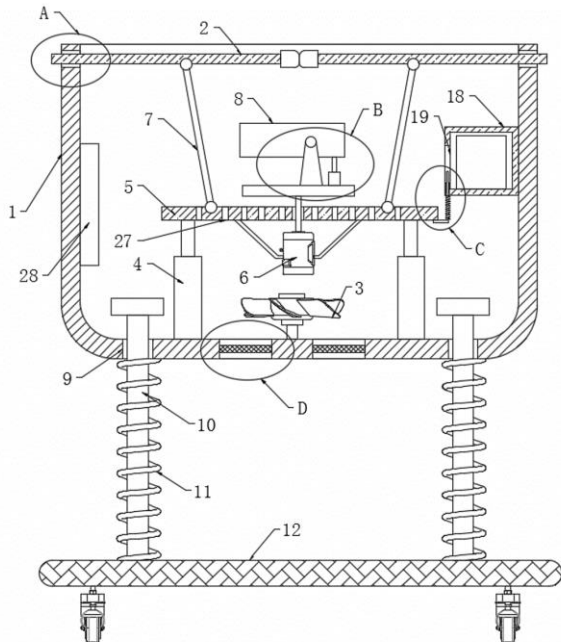
33: CN 31: 202011634171.1 32: 2020-12-31

#### 54: CAMERA WITH VIDEO TRACKING FUNCTION

00: -

The invention discloses a camera with video tracking function comprising a fixed box, a cooling fan, a first electric lifting rod, a driving motor, a camera, a second electric lifting rod and a central processing box; said first electric lifting rod is fixedly arranged on inside wall of fixed box while tail end thereof is fixedly connected with supporting plate and the outside wall thereof is provided with a plurality of exhaust grooves; said cooling fan is fixedly arranged on the inside wall of fixed box the outside wall of which is symmetrically provided with filter grooves and shock absorption grooves; the supporting plate is tightly propped against pressure plate in its downward moving process and pressure plate drives second spring to move downward to open locking groove, so that the dehumidifying agent in the dehumidification box absorbs moist air in the fixed box, reducing humidity therein to protect components.





21: 2021/01580. 22: 3/9/2021. 43: 4/29/2021  
51: G09B

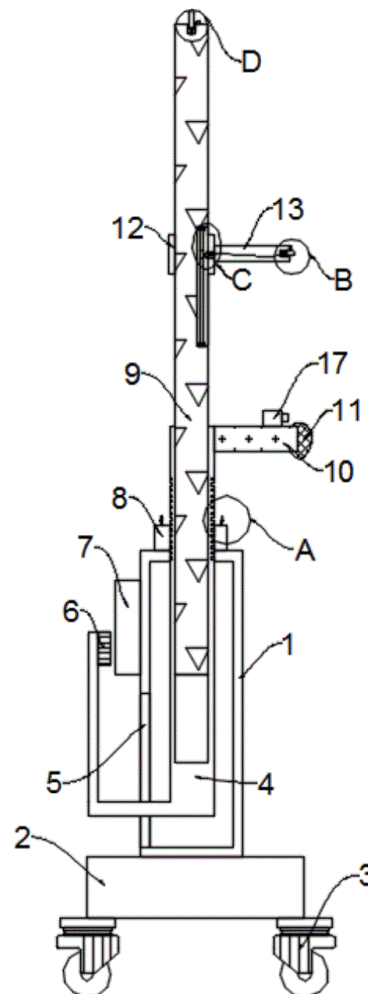
71: Henan Institute of Technology  
72: Bo Sun, Huijuan Bi, Wenbo Xu  
33: CN 31: 202110057253.2 32: 2021-01-15

**54: A DESIGN TOOL FOR INTELLIGENT INTERIOR DESIGN**

00: -

The invention discloses a design tool for intelligent interior design, including design frame the inside of the design frame includes computer control center, Internet of Things module, central processing module, automatic lifting module, data receiving module, and data recording module, the data receiving module includes first sensor, second sensor, and third sensor, the inner wall of the design frame is slidingly connected with first measuring rod, the center of the first measuring rod is slidingly connected with second measuring rod, the top center of the second measuring rod is fixedly connected with third spring, the top end of the third spring is fixedly connected with second measuring block. The present invention can realize automatic measurement of the distance between the ground and the ceiling through the arrangement of the first measuring rod, the second measuring rod, the third spring, the second measuring block and the third sensor, it avoids the hidden safety hazards caused by the staff climbing the height, and can also realize

the individual measurement of the indoor height by one person.



21: 2021/01722. 22: 15/03/2021. 43: 4/29/2021  
51: G01N

71: SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY  
72: GUO, Weiyao, GU, Xuebin, ZHAO, Tongbin, TAN, Yunliang  
33: CN 31: 201911177665.9 32: 2019-11-27

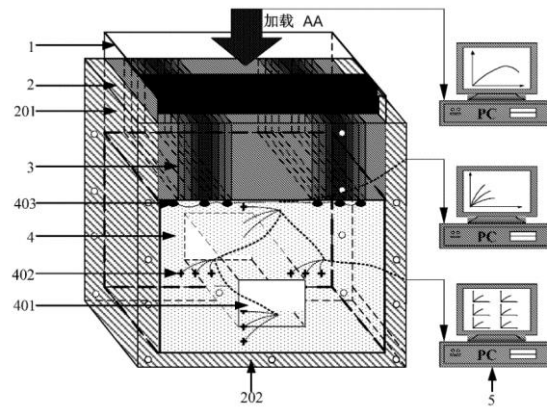
**54: STRESS GRADIENT LOAD TESTING APPARATUS AND METHOD FOR ACCURATE DETERMINATION OF LOAD ENERGY**

00: -

Provided in the present invention are a stress gradient load testing apparatus and a method for accurate determination of load energy, relating to the technical field of rock mechanical testing. The apparatus included a top-supported pressing plate, a sample fixing apparatus, a stress transmission

apparatus, and a simulated sample. The simulated sample is placed between side restraining panels of the sample fixing apparatus, the stress transmission apparatus is arranged to press onto the upper surface of the simulated sample, and the top-supported pressing plate is arranged to press on the top of the stress transmission apparatus. A computer processes stress and strain monitoring data. The stress transmission apparatus is formed by combining a plurality of platform-shaped high-strength materials, and the simulated sample is internally provided with a simulated tunnel, and is provided with a strain gauge and a stress sensor.

When the present apparatus is used for testing, stress gradient loading is achieved by means of plate-shaped high-strength materials of differing stiffnesses in the stress transmission apparatus, and during testing, the elastic strain energies thereof are calculated, and in combination with the energy exerted by a testing machine, the load energy acting on the simulated sample is calculated. Stress gradient loading is thus made possible, and load energy can be determined in real time. stress gradient loading is achieved by means of plate-shaped high-strength materials of differing stiffnesses in the stress transmission apparatus, and during testing, the elastic strain energies thereof are calculated, and in combination with the energy exerted by a testing machine, the load energy acting on the simulated sample is calculated. Stress gradient loading is thus made possible, and load energy can be determined in real time. stress gradient loading is achieved by means of plate-shaped high-strength materials of differing stiffnesses in the stress transmission apparatus, and during testing, the elastic strain energies thereof are calculated, and in combination with the energy exerted by a testing machine, the load energy acting on the simulated sample is calculated. Stress gradient loading is thus made possible, and load energy can be determined in real time.



21: 2021/01725. 22: 15/03/2021. 43: 4/29/2021  
51: B60P

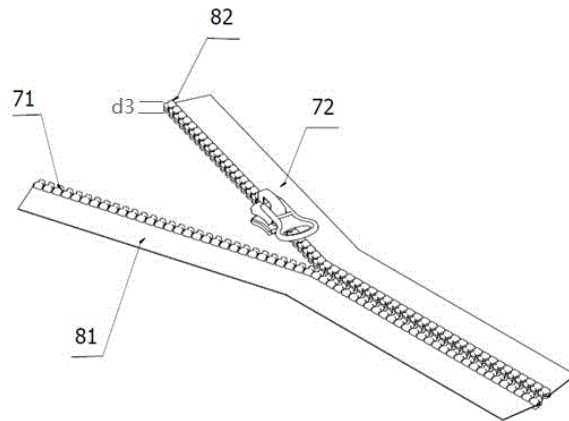
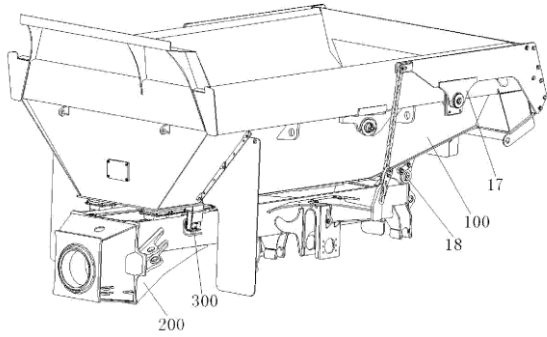
71: XUZHOU XCMG MINING MACHINERY CO., LTD.

72: WANG, Daoming, ZHANG, Jieshan, QIN, Hongyi, QIAO, Kuipu, TANG, Zhiming

33: CN 31: 201810941881.5 32: 2018-08-17

**54: TILTING TRUCK BED AND DUMP TRUCK**  
00: -

Disclosed is a tilting truck bed, comprising: a bed body (100) for carrying materials, where the bed body (100) includes a bottom plate I (6), and a front plate (2), a tail board (8), a left side plate (10) and a right side plate (3) welded to upper edges of the bottom plate I; lifting supports (18), symmetrically mounted on the tail board, and used for being articulated to a truck frame (200) to realize the tilting of the bed body; shock absorber supports (300), symmetrically mounted on two sides of the front of the bottom plate I, with each shock absorber support (300) comprising a shock absorber support body and a clearance adjusting device, and the clearance between same and the truck frame (200) being adjusted by the clearance adjusting device, thereby effectively controlling the lateral displacement of the truck bed during the driving of the truck and having a lateral limiting function; and damping pad assemblies (400) installed on the shock absorber supports (300) to reduce the impact of the falling of the truck bed on the truck frame.



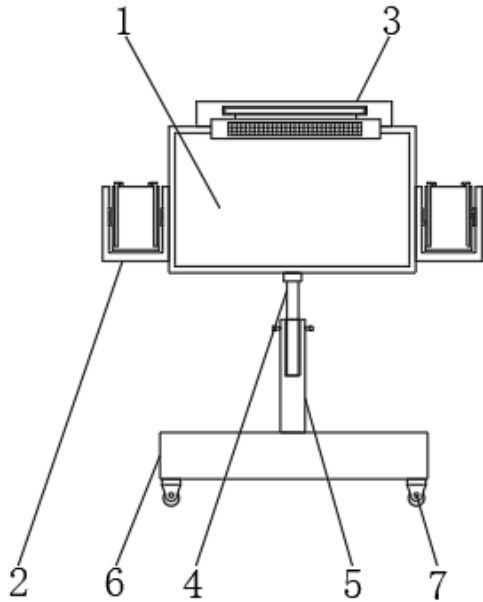
21: 2021/01745. 22: 16/03/2021. 43: 4/29/2021  
 51: A44B  
 71: JIANGSU CMZ ZIPPER SCI & TECH CO., LTD  
 72: XU, Jing, MA, Yao  
 33: CN 31: 201910768532.2 32: 2019-08-20  
**54: QUICK-SEPARATE SLIDER AND ZIPPER**  
 00: -

The present invention belongs to the technical field of zipper, and more particularly, to a quick-separate slider and zipper which can be quickly detached.

The slider includes an upper plate, a lower plate, a supporting core and a pull tab. Two sides of the upper plate are provided with a first upper plate side rib and a second upper plate side rib facing the lower plate, and two sides of the lower plate are provided with a first lower plate side rib and a second lower plate side rib facing the upper plate. A distance between a lower surface of the first upper plate side rib and an upper surface of the first lower plate side rib and a distance between a lower surface of the second upper plate side rib and an upper surface of the second lower plate side rib are different. The quick-separate zipper includes a left zipper tape, a right zipper tape, left zipper teeth arranged on the left zipper tape, and right zipper teeth arranged on the right zipper tape. The left zipper teeth are limited between the first upper plate side rib and the first lower plate side rib, and the right zipper teeth are limited between the second upper plate side rib and the second lower plate side rib. The zipper of the present invention realizes the quick detaching and separation of the slider and the zipper teeth, and solves the problem that the zipper cannot be opened due to the deadlocking of the slider in emergency, which is convenient to use and has a wide range of application.

21: 2021/01769. 22: 3/16/2021. 43: 5/6/2021  
 51: A47B; B43L  
 71: ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY  
 72: FAN, JUN, WANG, CONGDONG  
**54: CLASSROOM TEACHING DEVICE**  
 00: -

Disclosed herein is a classroom teaching device. The teaching device includes a teaching device main body. The book placing mechanisms are fixedly arranged on both two sides of outer surfaces of the teaching device main body, a quick cleaning mechanism is fixedly installed on an upper end outer surface of the teaching device main body, and a movable rod is fixedly installed on a lower end outer surface of the teaching device main body, a base is fixedly installed on the lower end outer surface of the support rod, and a roller is fixedly installed on the upper end outer surface of the base. In the classroom teaching device of the disclosure, the book placing mechanism and the quick cleaning mechanism are arranged.



21: 2021/01770. 22: 3/16/2021. 43: 5/6/2021

51: E04G

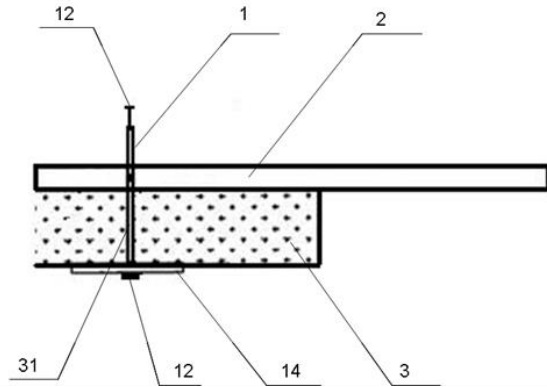
71: ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY

72: WANG, YAN, WANG, CONGDONG

**54: SCAFFOLD FOR BUILDING CONSTRUCTION**

00: -

A scaffold for build construction is disclosed, including a fixing part, a channel steel and a wall. The wall is provided with a reserved hole. The fixing part is installed on the wall, and the channel steel is fixed on the fixing part with one end attached to the wall. The fixing part includes a rectangular fixing frame. A screw is respectively arranged at the middle position of each side of the fixing frame, and the screw moves towards the center direction of the fixing frame. The screw at the lower end of the fixing frame is accommodated in the reserved hole to install the fixing part on the wall. The scaffold for building construction of the present disclosure is provided with a detachable fixing part, so that the scaffold can be reused, the cost can be saved, and the fixation is firm.



21: 2021/01775. 22: 3/17/2021. 43: 5/11/2021

51: G01N

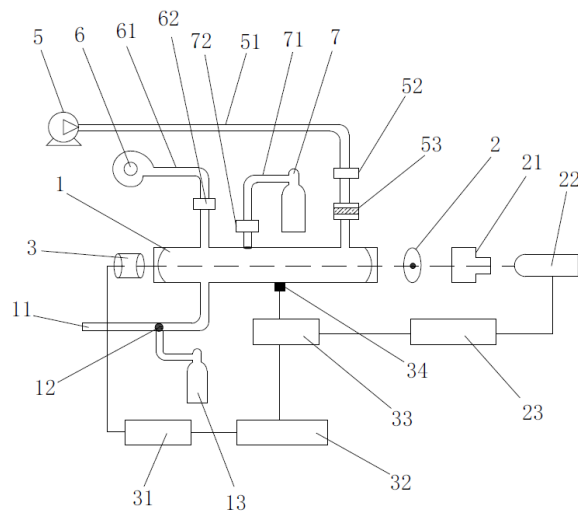
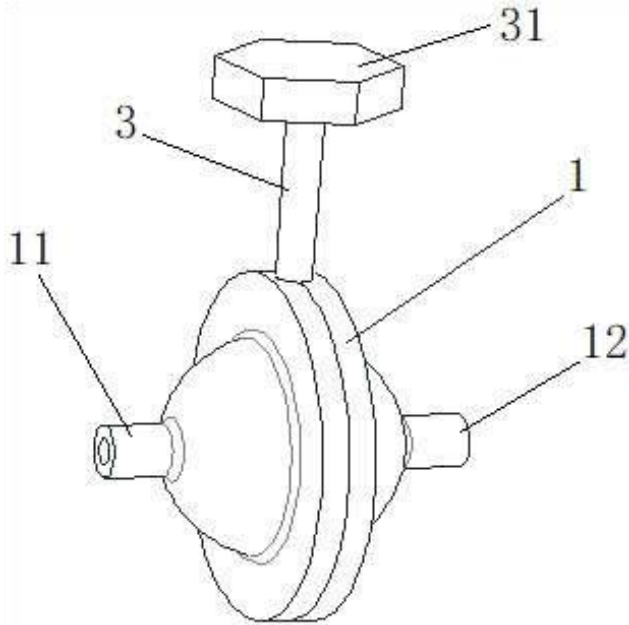
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, INSTITUTE OF ENVIRONMENT-FRIENDLY MATERIALS AND OCCUPATIONAL HEALTH, ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY (WUHU)

72: JIN, HUAWEI, LUO, PING

**54: UNDERGROUND DUST PARTICLE SIZE CONTROL VALVE FOR COAL MINES**

00: -

Disclosed is a particle size control valve, comprising a valve body and a ball valve rotatably connected in the valve body. The ball valve is provided with a plurality of through holes; at least one filter mesh with the same aperture is mounted in the same through hole; and the valve body is provided with a gas inlet and a gas outlet, so that only one through hole is respectively connected with the gas inlet and the gas outlet after the ball valve rotates at a certain angle. The particle size control valve further comprises a valve rod which penetrates through the valve body and is in transmission connection with the ball valve, used for driving the ball valve to rotate. A sealing flange, which is in contact with an outer side wall of the ball valve, is mounted on an inner side surface of the valve body.

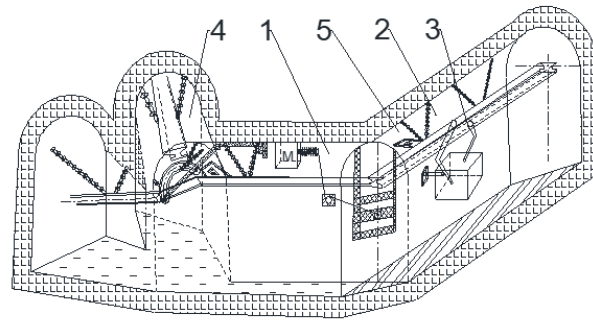
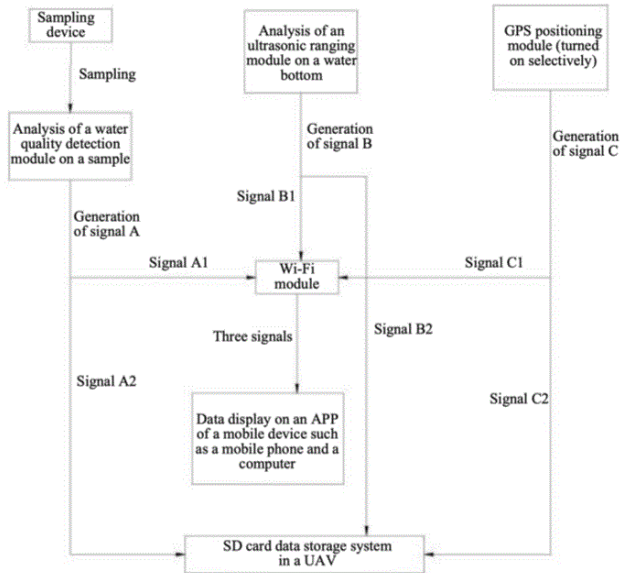


21: 2021/01776. 22: 3/17/2021. 43: 5/11/2021  
 51: G01N  
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, INSTITUTE OF ENVIRONMENT-FRIENDLY MATERIALS AND OCCUPATIONAL HEALTH, ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY (WUHU)  
 72: JIN, HUAWEI, LUO, PING  
**54: UNDERGROUND DUST CONCENTRATION DETECTION DEVICE FOR COAL MINES**

00: -  
 Disclosed is a dust concentration detection device, comprising a photoacoustic spectrum detector, a signal acquisition and a processor. The photoacoustic spectrum detector comprises a measurement cavity, a collimating diaphragm group, a photoelectric isolator, a laser and a gas extractor. The diaphragm group, photoelectric isolator and laser are located at a rear end outside the measurement cavity and sequentially arranged along a central axis of the measurement cavity; the gas extractor comprises an extraction pump for extracting a sample gas from the measurement cavity; the signal acquisition and processor comprises a photoelectric detector, an amplifier, a data acquisition card, a phase-locked card and a microphone; the photoelectric detector is located at a front end outside the measurement cavity and aims at the laser; the microphone is connected to a side wall of the measurement cavity; and the phase-locked card is electrically connected to the laser.

21: 2021/01783. 22: 3/17/2021. 43: 4/29/2021  
 51: G01N; G05D; G08C  
 71: Anhui University of Science & Technology  
 72: YAN, Pengcheng, CHEN, Haowen, TANG, Lan  
 33: CN 31: 202010725538.4 32: 2020-07-24  
**54: SYSTEM FOR CONTROLLING UNMANNED AERIAL VEHICLE (UAV) TO PERFORM MULTI-PARAMETER UNDERWATER DETECTION BASED ON SPECTRAL ANALYSIS**

00: -  
 A system for controlling an unmanned aerial vehicle (UAV) to perform multi-parameter underwater detection based on spectral analysis includes a wireless fidelity (Wi-Fi) module, a water quality detection module based on spectroscopy, an ultrasonic ranging module, a global positioning system (GPS) module, and a secure digital (SD) card storage system. Compared with a traditional UAV for water quality detection, a UAV with the system adopts a technology for detecting spectral features to meet the requirements for accuracy, rapidness, and stability of recognition of a water sample to a great extent. A recognition model adopts a technology based on machine learning, and thus can recognize the water sample as well as complex data of the water sample. Thus, high anti-interference performance and scalability can be achieved.

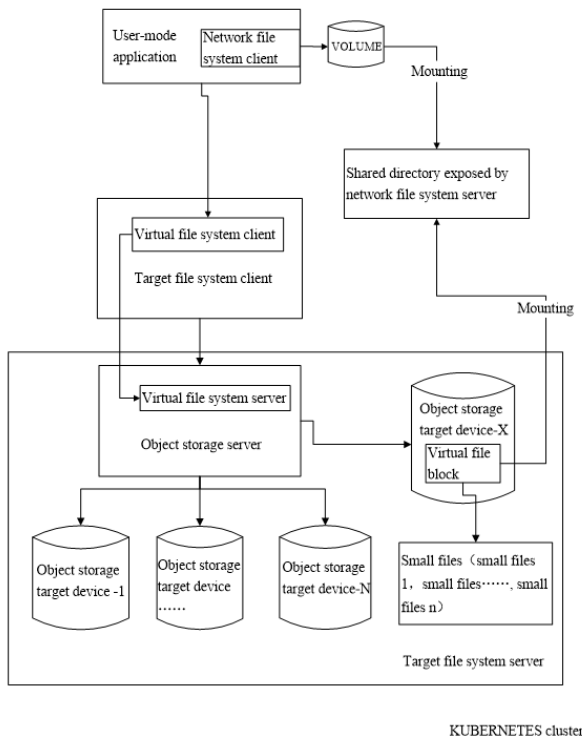


21: 2021/01818. 22: 3/18/2021. 43: 5/11/2021  
 51: B61L  
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY  
 72: KOU, ZIMING, JIN, HUAWEI, WU, JUAN, WANG, GUORONG, YAN, XUANXUAN  
**54: MINE UNDERGROUND SUSPENDED INCLINED ROADWAY BAFFLE AND SHIFTING FORK DEVICE**

00: -  
 The present invention relates to the field of video recognition and belongs to the application field of the invention combining the automatic control of an inclined roadway baffle, an intelligent shifting fork mechanism with the intelligent scheduling of an underground rail vehicle. Disclosed is a mine underground suspended inclined roadway baffle and shifting fork device, which mainly uses video recognition to extract, analyse and calculate the characteristics of a passing vehicle in advance, and then uses a motor as a power source to drive an automatic hoisting device for a baffle through the elongation or retraction of a hoisted steel rope, uses hydraulic pressure as a power source to drive a slider through a ball lead screw, and reversely uses a crank slider mechanism to drive an I-beam automatic rail change device.

21: 2021/01819. 22: 3/18/2021. 43: 4/29/2021  
 51: G06F  
 71: SUN YAT-SEN UNIVERSITY  
 72: DU, Liang, GUO, Guixin, ZHONG, Kangyou, DU, Yunfei, LU, Yutong, ZHOU, Zhongzhu  
 33: CN 31: 202010195318.5 32: 2020-03-19  
**54: SMALL-FILE STORAGE OPTIMIZATION SYSTEM BASED ON VIRTUAL FILE SYSTEM IN KUBERNETES USER-MODE APPLICATION**  
 00: -

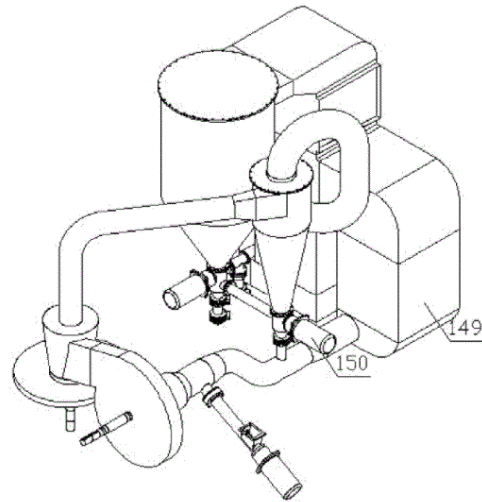
A small-file storage optimization system based on a virtual file system in a KUBERNETES user-mode application which is applied to a target file system includes a network file system including a network file system server and a network file system client, a user-mode application mounted on a shared directory exposed by the network file system server through the network file system client, and a virtual file system including a virtual file system client and a virtual file system server. A file block creating and formatting module in the virtual file system server creates a virtual file block for storing small files on one or more object storage target devices of the target file system, and the virtual file block is mounted on the shared directory exposed by the network file system server.



21: 2021/01830. 22: 18/03/2021. 43: 5/5/2021  
 51: B02C  
 71: KUNMING TEKANG TECHNOLOGY CO., LTD,  
 ZHEJIANG YUNJIE TECHNOLOGY CO., LTD.  
 72: JIA, Ping, CUI, Xiuming, ZENG, Yawen, SHE,  
 Yongxin  
 33: CN 31: 201811110206.4 32: 2018-09-21  
**54: FAN MILL**

00: -  
 A fan mill, comprising primary mills (47, 57) and secondary mills (49, 61), and first and second inner circulation tubes (48, 58, 52, 64). The first inner circulation tubes (48, 58) are connected to air outlets of the primary mills (47, 57) and inner circulation tube interfaces (3, 11), and the second inner circulation tubes (52, 64) are connected to air outlets of the secondary mills (49, 61) and the inner circulation tube interfaces (3, 11); the inner circulation tube interfaces (3, 11) are located on a position close to an air inlet on a housing (1) of the primary mills (47, 57) or the secondary mills (49, 61), or located on feed pipes (56, 60) of which one end is connected to the air inlet of the housing (1); a kinetic energy recovery device is mounted in the feed pipes (56, 60), and the kinetic energy recovery device is connected to an impeller in the housing (1). Also

provided are an application method of the mill and products processed by same.

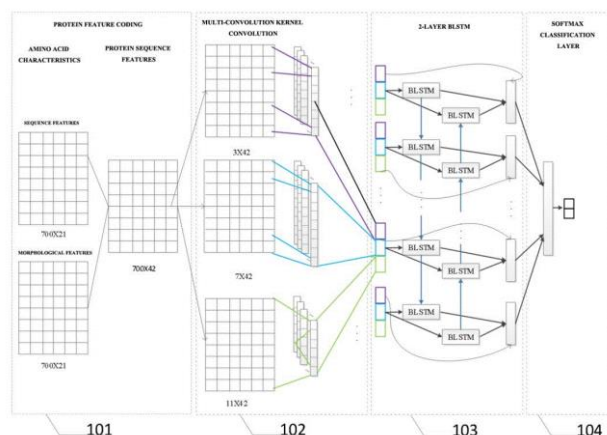


21: 2021/01909. 22: 3/23/2021. 43: 4/29/2021  
 51: G06F

71: Research Institute of Resource Insects, Chinese Academy of Forestry  
 72: Bingyi Wang, Lei Shi, Weihua Li, Ting Du, Mengxue Li

**54: PROTEIN SECONDARY STRUCTURE PREDICTION METHOD**

00: -  
 The invention discloses a protein secondary structure prediction method. The method firstly represents protein sequence features with sequence class information of amino acids and evolutionary information of amino acid structures, secondly extracts proximity interaction and position features between residues in protein sequences using convolutional neural networks with multiple convolution kernels, then extracts long-range interaction features between residues in protein sequences using long short-term memory neural networks, and finally performs protein secondary structure prediction based on the extracted protein deep structure features.



21: 2021/01910. 22: 3/23/2021. 43: 4/29/2021  
51: G09B

71: Henan Institute of Technology

72: Wei Zheng, Xuefeng Chen, Hui Wei, Yang Zuo, Lei Niu

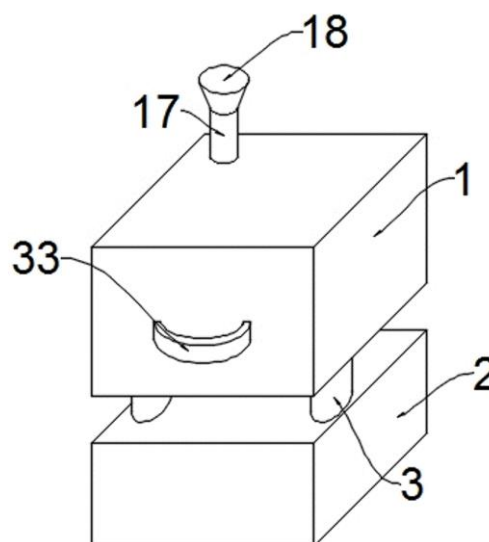
33: CN 31: 202110084163.2 32: 2021-01-21

#### 54: PASSIVE OPTICAL FIBER COMMUNICATION PRINCIPLE TEACHING EXPERIMENT BOX

00: -

A passive optical fiber communication principle teaching experiment box, comprising an experiment box body, wherein the bottom of the experiment box body is fixedly connected with a box body bracket; one end of the box body bracket is fixedly connected with a water storage tank; the inside of the water storage tank is provided with a cooling water pipe; the cooling water pipe penetrates the experiment box body and then detours back to the inside of the water storage tank; the inner side wall of the experiment box body is fixedly connected with a first bearing; the center of the first bearing is rotatably connected with a first rotating shaft; the first rotating shaft penetrates the cooling water pipe; the connection between the first rotating shaft and the cooling water pipe is fixedly connected with a sealing rubber sleeve; the outer side wall of the first rotating shaft located inside the cooling water pipe is fixedly sleeved with a third rotating sleeve; the outer side wall of the third rotating sleeve is fixedly connected with a driving water valve; the inside of the experiment box body is provided with a communication working circuit; the outer side wall of the first rotating shaft close to the communication working circuit is fixedly sleeved with a fan rotating sleeve; the outer side wall of the fan rotating sleeve is fixedly connected with a fan. Through the

installation of the cooling water pipe, the fan, the driving water valve, and the first rotating shaft, the dual cooling effect of water cooling and air cooling on the outer surface of the communication working circuit is realized.



21: 2021/01911. 22: 3/23/2021. 43: 4/29/2021  
51: C07C

71: Bozhou University

72: Mengjuan Zhang, Wenjian Wang, Xiaolan Ge, Lili Wang

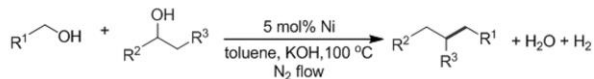
33: CN 31: 202110063467.0 32: 2021-01-18

#### 54: APPLICATION OF A 4,6-DIMETHYL-2-MERCAPTOPYRIMIDINE DIVALENT NICKEL COMPLEX IN THE PREPARATION OF ALPHA-ALKYL KETONES

00: -

The invention relates to the field of organometallic chemistry, in particular to the application of a 4,6-dimethyl-2-mercaptopyrimidine divalent nickel complex in the preparation of alpha-alkyl ketones, using 4,6-dimethyl-2-mercaptopyrimidine nickel (II) compound as a catalyst, secondary alcohols and primary alcohols are cross-coupled by adjusting the reaction conditions to selectively prepare alpha-alkyl ketones, and the coupling reaction is carried out in anhydrous toluene under the protection of inert gas, in the presence of alkali. The reaction system of the invention has mild conditions and wide substrate applicability, and effectively avoids the use of organic phosphine ligands and precious metals.





21: 2021/02049. 22: 3/26/2021. 43: 5/5/2021

51: E02D

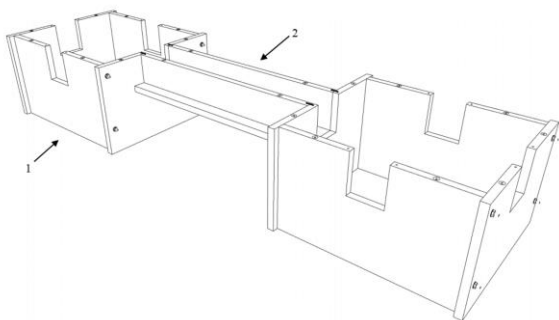
71: Hunan Second Engineering Co., Ltd., Hunan Erjian Jingtouzhuangpeishi Construction Engineering Co., Ltd.

72: Mingliang Zhang, Heng Liang, Yong Li, Wei Liu, Yi Zhou, Peng Liang, Zeyang Li

#### 54: PRECAST REINFORCED CONCRETE MOULDING BED

00: -

The invention discloses a precast reinforced concrete moulding bed comprising precast bearing platform moulding beds and a precast foundation beam moulding bed, wherein said bearing platform moulding bed comprises two side plates and two end plates which enclose a square cavity, and two ends of two side plates are detachably connected with two end plates via fasteners respectively; said foundation beam moulding bed comprises two oppositely arranged beam templates; two ends of said beam template are respectively connected with the side plates or the end plates via fasteners; and gaps are formed at the joints of the side plates and/or the end plates and two beam templates, and said gaps correspond to the foundation beam moulding bed. The precast reinforced concrete moulding bed has advantages of reasonable structure, convenient construction, cost reduction and difficulty reduction, favorable to accelerate the working procedure and guarantee construction quality.



21: 2021/02215. 22: 4/1/2021. 43: 4/29/2021

51: A61B

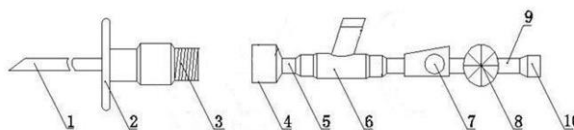
71: The First Affiliated Hospital of Chongqing Medical University

72: Niu Bailin, Du Huimin

#### 54: HAND-HELD AND FULLY-AUTOMATIC BONE MARROW PUNCTURE INFUSION DEVICE

00: -

The invention discloses a hand-held and fully-automatic bone marrow puncture infusion device, which comprises a puncture device, an operation handle and an infusion device. The operation handle is equipped with an electric control system. The electric control system comprises a battery, a power device, a speed regulating device, a pressure sensor, a PLC controller and a display. The battery, power device, pressure sensor and PLC controller are located inside the operation handle, and the speed regulating device and the display are located outside the operation handle. The PLC controller is connected to the battery, power device, speed regulating device, pressure sensor and display, respectively. The infusion device comprises a thread cap, a first catheter, a Y-union, a regulator, a filter, a second catheter and a catheter connector. The puncture device comprises a cannula, baffle, a thread body, a puncture needle and a puncture needle cap. The invention has the characteristics of time-saving and labor-saving puncture, fast, efficient, stable and convenient operation, which is suitable for popularization and application.



21: 2021/02221. 22: 01/04/2021. 43: 4/29/2021

51: F16F; F16M

71: JIANGSU MARITIME INSTITUTE

72: PENG, Chen, WANG, Hongtao, ZHANG, Yuanyuan

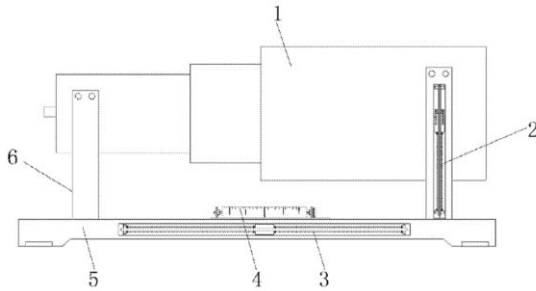
33: CN 31: 201811120913.1 32: 2018-09-26

#### 54: TURBINE MOUNTING BASE HAVING SHOCK ABSORPTION FUNCTION

00: -

A turbine mounting base having a shock absorption function, comprising a base frame (5). The base frame (5) is a square frame formed by welding steel; multiple crossbeams (10) are welded at the middle of the base frame (5); columns (6) for fixing a turbine (1) are respectively vertically welded on the two crossbeams (10) at both ends of the base frame (5); a Z-direction damping device (2), an X-direction damping device (3), and a Y-direction damping

device (8) for shock absorption and sway damping are mounted on the base frame (5); the combination of the Z-direction damping device (2), the X-direction damping device (3), and the Y-direction damping device (8) implements energy consumption in any direction. By establishing a spatial damping mechanism, the turbine mounting base reduces the influences of waves on a ship during travel,



21: 2021/02253. 22: 4/6/2021. 43: 5/6/2021  
51: A23F

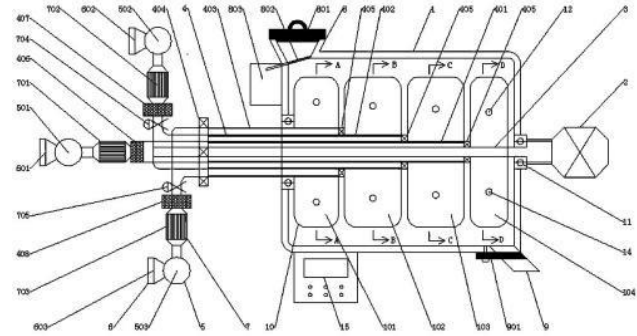
71: HUNAN TEA RESEARCH INSTITUTE

72: LIU, WENWU

**54: MULTIFUNCTIONAL TEA LEAF FERMENTING AND DRYING INTEGRATED EQUIPMENT**

00: -

Disclosed is tea leaf fermenting and drying equipment. A feed bin and a discharge bin are arranged on two sides of a fermentation chamber, a motor connected to one end of a transmission shaft is arranged on one side outside the fermentation chamber. An impeller is arranged along the radial direction of the transmission shaft, a bearing pedestal is arranged at a connection of the transmission shaft and the fermentation chamber, a heat conducting pipe having a plurality of heat conducting holes formed through it, is connected outside the transmission shaft in a sleeving manner. A humidifier and a heater are arranged at the end, extending outside the fermentation chamber, of the heat conducting pipe, and a fan is connected to the heat conducting pipe. Fermentation and drying are integrated in one piece of equipment, and tea leaves are stirred properly by matching with the impeller.



21: 2021/02254. 22: 4/6/2021. 43: 4/21/2021  
51: H02P

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

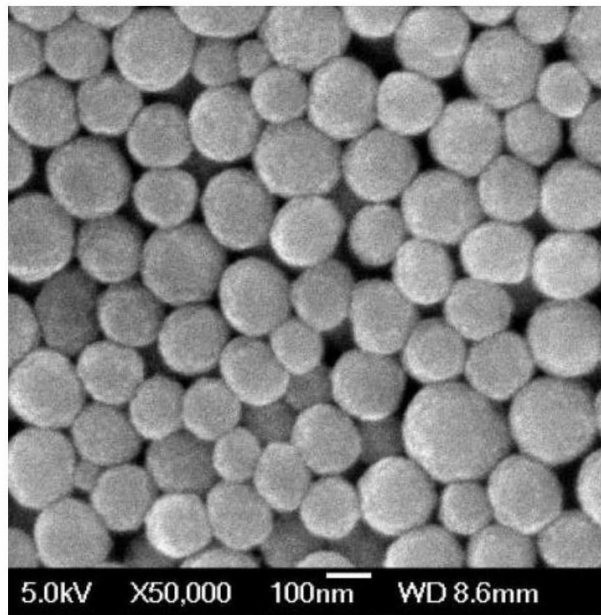
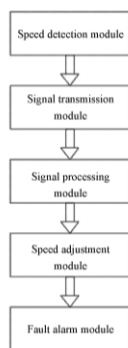
72: SONG, Jiangfeng, WANG, Bin, GUO, Jiahu

33: CN 31: 202010906385.3 32: 2020-09-01

**54: BRUSHLESS DC MOTOR SPEED CONTROL DEVICE AND METHOD**

00: -

The present invention discloses a brushless DC motor speed control device, comprising a speed detection module, a signal transmission module, a signal processing module, a speed adjustment module and a fault alarm module, wherein the speed adjustment module is used for detecting speed of a brushless DC motor in real time, the signal transmission module is used for transmitting a speed signal detected by the speed adjustment module, the signal processing module is used for processing and analyzing a speed signal transmitted by the signal transmission module, the speed adjustment module is used for adjusting speed of the brushless DC motor, and the fault alarm module is used for sending an alarm when the speed adjustment module fails. The processing module makes a judgment on the causes affecting speed, adjusts the motor speed timely by voltage, damping and current, and provides an early warning when failing to adjust the speed.



21: 2021/02273. 22: 3/18/2021. 43: 5/5/2021

51: A21D; A23L; A23P

71: QINGDAO UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: XIE, WANCUI, YANG, XIHONG, CHE, HONGXIA, LI, HONGYAN, XIE, JINGWEN

33: CN 31: 202010565329.8 32: 2020-06-19

**54: MICROENCAPSULATED SQUID INK MELANIN BISCUIT AND PREPARATION METHOD THEREOF**

00: -

Disclosed is a microencapsulated squid ink melanin biscuit and a preparation method thereof. The preparation method includes the following steps: 1) extracting squid ink melanin by an ultrasonic-assisted water extraction method to obtain a primary extract of the squid ink melanin; 2) adding sodium alginate or carrageenan into the primary extract; adding an emulsifier; preparing a turbid solution; adjusting solid content to be 20-30%; performing spray drying; and superfinely grinding the primary extract into the granularity of 400-500 meshes to obtain the squid ink melanin for later use; 3) heating butter into liquid; adding the squid ink melanin; cooling the mixture to a room temperature; adding egg liquid, white granulated sugar powder, aspartame and salt; uniformly stirring the materials; adding flour and water; kneading dough with cold water; and baking the dough in an oven according to a biscuit baking process.

21: 2021/02299. 22: 4/7/2021. 43: 4/29/2021

51: G01N

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

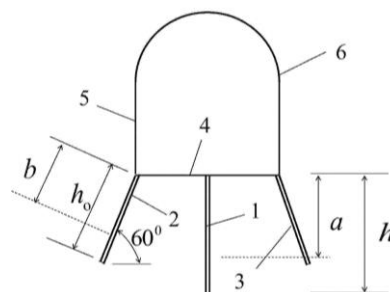
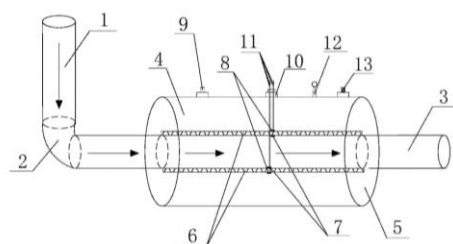
72: XUE, Weipei, ZHANG, Hanwen, DENG, Xin, LI, Wensheng, JING, Wei

33: CN 31: 202010688133.8 32: 2020-07-16

**54: APPARATUS FOR TESTING HEAT-PRESERVATION AND COLD-INSULATION PROPERTIES OF MATERIALS UNDER CONFINING PRESSURE AND METHOD THEREOF**

00: -

The present invention provides an apparatus for testing heat-preservation and cold-insulation properties of materials under confining pressure, comprising a vertical steel pipe, a steel pipe joint, a horizontal steel pipe, a steel pipe jacket, two sealing discs, thermal insulation material, two internal measuring points, two external measuring points, an oil pump orifice, a lead outlet, four temperature measuring leads, a pressure gauge and an air vent; wherein, the lower end of the vertical steel pipe is connected with the upper end of the steel pipe joint; the horizontal end of the steel pipe joint is connected with the left end of the horizontal steel pipe; the horizontal steel pipe passes through the steel pipe jacket and the sealing disc; the sealing discs are arranged on the left and right end faces of the steel pipe jacket.



21: 2021/02300. 22: 4/7/2021. 43: 4/29/2021  
 51: G01N  
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY  
 72: JING, Wei, GUO, Rui, JING, Laiwang, XUE, Weipei, WANG, Xu  
 33: CN 31: 202010285499.0 32: 2020-04-13  
**54: GROUTING QUALITY TESTING METHOD FOR WEAK FLOOR OF COAL MINE ROCK ROADWAY**  
 00: -

The present invention provides a grouting quality testing method for weak floor of a coal mine rock roadway and relates to the field of mines. The method comprises the following steps: (a) testing hole arrangement: in a roadway section where floor grouting has been completed 7 days ago, randomly selecting one testing hole position on a roadway floor central axis and at roadway side-bottom junctions, respectively; (b) drilling machine fixation: arranging one column-type pneumatic floor cable drilling machine at each testing hole position, wherein, fixing one drilling machine vertically on the roadway floor central axis, and fixing one drilling machine at the side-bottom junction at a dip angle of 60 degrees to the horizontal, respectively; and (c) quality testing: judging the floor grouting quality according to the drilling depth and the corresponding real-time slagging condition during a drilling process of testing holes to the design depth.

21: 2021/02301. 22: 3/18/2021. 43: 5/12/2021  
 51: A21D; A23L; A23P  
 71: QINGDAO UNIVERSITY OF SCIENCE AND TECHNOLOGY  
 72: XIE, WANCUI, YANG, XIHONG, LI, HONGYAN, DONG, XIUFANG, LIN, PENGCHENG  
 33: CN 31: 202010566001.8 32: 2020-06-19  
**54: PREPARATION METHOD AND PRODUCT OF MICROENCAPSULATED PHLOROTANNIN BISCUIT**  
 00: -

Disclosed is a preparation method and a product of a microencapsulated phlorotannin biscuit. The preparation method includes the following steps: mixing phlorotannin, sodium alginate and cyclodextrine; adding water to dissolve the mixture; performing vacuum freeze drying on the mixture to obtain a solid; grinding the solid to obtain microencapsulated phlorotannin; mixing the prepared microencapsulated phlorotannin with egg liquid, white granulated sugar, salt, butter and flour; adding water to knead into dough; standing the dough; rolling the prepared dough; and baking the dough, thereby obtaining the microencapsulated phlorotannin biscuit. By microencapsulating the phlorotannin and adding the cyclodextrine in the treatment process, the fishy smell of seaweeds may be effectively masked; when the seaweed is used for preparing the biscuit, the taste and the color of the biscuit are not affected; and the prepared biscuit is high in phlorotannin content, and a retention rate of phlorotannin activity is more than 93%.

21: 2021/02315. 22: 4/8/2021. 43: 5/5/2021  
 51: H01G  
 71: Zhengzhou University of Aeronautics  
 72: Zhanjun Yu, Yinxiao Du, Fanguang Zeng, Dongxia Chen, Yan Li, Mingyu Li, Linjie Fu, Huali Ma, Qingxin Yuan, Leiming Chen

33: CN 31: 202110236127.3 32: 2021-03-03

**54: A METHOD OF PREPARING A SUPERCAPACITOR SLURRY**

00: -

The invention a method of preparing a supercapacitor slurry, comprising the following steps, taking an appropriate amount of water-absorbent macromolecule resin, mixing the same with sulfur-doped graphene and putting in a double-screw extruder, controlling the screw speed to be 180-600rpm, after melt extrusion, pelleting, water-absorbent macromolecule resin particles loaded with sulfur-doped graphene are obtained; making the water-absorbent macromolecule resin particles loaded with sulfur-doped graphene fully absorb water and expand into a solid hydrogel of the corresponding form; mixing the obtained solid hydrogel and nano-silica aerogel evenly and stirring evenly, after the silica aerogel is completely adsorbed, placing the mixture in a microwave tube furnace, under the production of N<sub>2</sub>, the temperature reaches 1000C at a temperature rise rate of 100C/min, after the solid hydrogel loses water completely, naturally lowering to room temperature, adding solvent for ultrasonic dispersion to obtain supercapacitor slurry. The invention can guarantee the stability and uniformity of the slurry, thereby improving the performance of the capacitors.

21: 2021/02316. 22: 4/8/2021. 43: 4/29/2021

51: G06Q

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: XUE, Sheng, ZHENG, Xiaoliang, LI, Yaobin, MA, Yankun, LIU, Xing, YANG, Chaoyu, JIANG, Bingyou, ZHENG, Chunshan

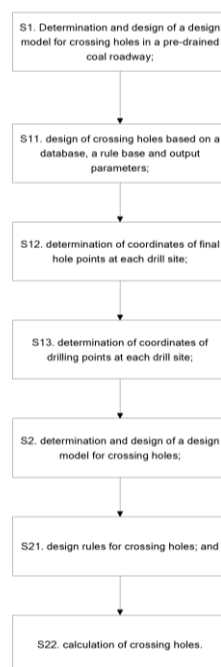
33: CN 31: 202110068860.9 32: 2021-01-19

**54: CALCULATION METHOD FOR DESIGN OF GAS-CONTROL CROSSING HOLES IN COAL ROADWAY**

00: -

The invention provides a calculation method for design of gas-control crossing holes in a coal roadway. The calculation method comprises: S1. determination and design of a design model for crossing holes in a pre-drained coal roadway; S11. design of crossing holes based on a database, a rule base and output parameters; S12. determination of the coordinates of final hole points at each drill site; S13. determination of the coordinates of drilling

points at each drill site; S2. determination and design of a design model for crossing holes; S21. design rules for crossing holes; and S22. calculation of crossing holes. Based on a dynamic 3D gas geological model, a gas-control drilling information database is established, and design principles and methods for unattended intelligent gas-control drilling are proposed, realizing automatic establishment and accurate correction of the 3D gas geological model, automatic division and update of extraction units, and adjustment of drill holes.



21: 2021/02330. 22: 08/04/2021. 43: 4/29/2021

51: G06Q

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: ZHENG, Xiaoliang, WANG, Qiang, XUE, Sheng

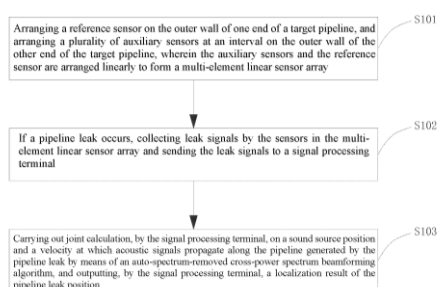
33: CN 31: 202010285408.3 32: 2020-04-13

**54: METHOD FOR CALCULATING PIPELINE LEAK POSITION BASED ON BEAMFORMING**

00: -

Disclosed is a method for calculating a pipeline leak position based on beamforming, comprising the following steps: arranging a reference sensor and a plurality of auxiliary sensors linearly to construct a sensor array; if a pipeline leak occurs, acquiring leak signals by the sensors in the sensor array and sending the leak signals to a signal processing terminal; and carrying out joint calculation, by the

signal processing terminal, on a sound source position and a velocity at which acoustic signals propagate along the pipeline generated by the pipeline leak by means of an auto-spectrum-removed cross-power spectrum beamforming algorithm, and outputting, by the signal processing terminal, a localization result.



21: 2021/02336. 22: 4/9/2021. 43: 4/29/2021  
51: A23L

71: Qingdao Agricultural University  
72: Wang, Wenqi, Xu, Shenbo, Chen, Shiyong, Wang, Xin, Xu, Hairuo

**54: CHINESE HERB COMPOSITE LIQUID CAPABLE OF EFFECTIVELY ENHANCING IMMUNITY AND DISEASE RESISTANCE OF PRAWNS**

00: -

The present invention discloses a Chinese herb composite liquid capable of effectively enhancing immunity and disease resistance of prawns, and preparation method thereof comprises: reflux extraction of milkvetch root: taking 10 g of a milkvetch root raw material, crushing, adding 150 ml of absolute ethanol, carrying out reflux extraction for about 1.5 h while maintaining a boiling state in a water bath, cooling, filtering, respectively adding 100 ml of absolute ethanol and 50 ml of absolute ethanol to the residue and extracting twice, filtering, combining the filtrates, concentrating with a rotary evaporator, setting the temperature at 50 DEG C, recovering the ethanol, concentrating to achieve 10 ml of the liquid, and storing at a temperature of 4 DEG C for subsequent use; and water decocting extraction of milkvetch root: weighing 10 g of a herb milkvetch root, adding 150 ml of distilled water, soaking for 30 min, heating to achieve a boiling state, maintaining mild fire for 30 min, filtering with six layers of gauzes, adding 100 ml of distilled water to the residue, heating to achieve a boiling state,

maintaining mild fire for 30 min, filtering with six layers of gauzes, and combining the two filtrates. According to the present invention, the Chinese herb composite liquid provides good inhibition effects on common bacterial diseases in prawn breeding, and has advantages of no toxicity, no drug residue, safe and convenient use, complete functions, and the like.

21: 2021/02337. 22: 4/9/2021. 43: 4/29/2021  
51: A01K

71: Qingdao Agricultural University  
72: Wang, Wenqi, Ren, Yichao, Xu, Shenbo, Wang, Xin, Xu, Hairuo

**54: ARTIFICIAL EGG COLLECTION AND FERTILIZATION METHOD FOR CALIFORNIA SEA CUCUMBERS**

00: -

The present invention discloses an artificial egg collection and fertilization method for California sea cucumbers, comprising following steps: (1) Egg collection: collecting eggs from parent sea cucumbers by artificial egg collection and insemination, thermal stimulation and spawn inducing by drying in the shade; (2) Egg washing: transferring the parent sea cucumbers timely after spawning and insemination, washing the eggs several times with clean seawater by draining and adding water (siphoning off with a 260-mesh cage for water drainage); condensing the eggs with a 300-mesh screen cloth and washing with clean seawater for several times; and (3) Fertilization; by egg collection, washing and fertilization processes according to the present invention, fertilization environment of young sea cucumber eggs is given for rapid growth of the fertilized eggs, which makes it possible to improve survival rate.

21: 2021/02338. 22: 4/9/2021. 43: 4/29/2021  
51: A61K

71: Qingdao Agricultural University  
72: Wang, Wenqi, Chen, Shiyong, Xu, Shenbo, Wang, Xin, Xu, Hairuo

**54: BIOLOGICAL PREVENTION AND CONTROL TECHNIQUE FOR EFFECTIVELY PREVENTING DISEASE OCCURRENCE OF MARSUPENAEUS JAPONICAS**

00: -

The present invention discloses a biological prevention and control technique for effectively

preventing disease occurrence of *Marsupenaeus japonicus* technique, comprising following steps: feeding 8-10 pieces of redeye mullet with sizes of approximately 12-14 cm into each mu of water before releasing young larvae of *Marsupenaeus japonicus* for culturing every year; feeding 20,000 – 25,000 pieces of young larvae of *Marsupenaeus japonicus* in each mu and culturing the young larvae of *Marsupenaeus japonicus*; releasing 40-50 pieces of *Chaeturichthys stigmatias* with sizes of approximately 6 cm in each mu when size of cultured *Marsupenaeus japonicus* reaches 6-7cm; and culturing as per operation specifications such as daily pond inspection and following general management methods for *Marsupenaeus japonicus* culturing. The biological prevention and control technique of the present invention has advantages *Marsupenaeus japonicus* *Marsupenaeus japonicus* *Marsupenaeus japonicus* such as not only good ecological environment is provided for *Marsupenaeus japonicus* by taking use of ecological principles of the food chains and feeding young larvae periodically and three-dimensionally depending on different behaviors of fishes and shrimps and different culturing time and space; but also agonistic behaviors between individuals are effectively prevented, disease resistance and risk withstanding abilities of the *Marsupenaeus japonicus* is improved, occurrence of diseases is reduced, utilization efficiency of water is further increased, and integral yield of water is increased, too.

21: 2021/02346. 22: 09/04/2021. 43: 4/29/2021

51: A47H; E06B

71: GUALTIERI, Orazio

72: GUALTIERI, Orazio

33: GB 31: 1815103.5 32: 2018-09-17

**54: PELMET ASSEMBLY AND BRACKET THEREFOR**

00: -

A bracket for retro-fitting a decorative pelmet assembly above an existing wall or ceiling mounted blind assembly. The bracket included a face plate having a first arm extending perpendicularly from a first edge of the face plate and a second arm extending from a second edge of the face plate in the same direction as that of the first arm. The first arm includes means for connection to

complementary means located on a pelmet to be supported by said bracket, and the second arm is locatable, in use, behind an existing wall or ceiling mounted bracket to enable retro-fit connection of the bracket to a pelmet assembly without the use of tooling to drill and plug holes.

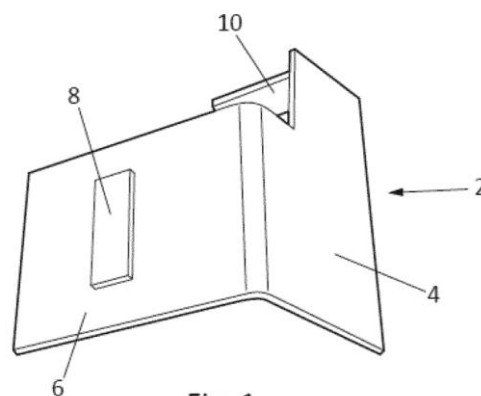


Fig. 1

21: 2021/02402. 22: 4/13/2021. 43: 4/29/2021

51: G01B

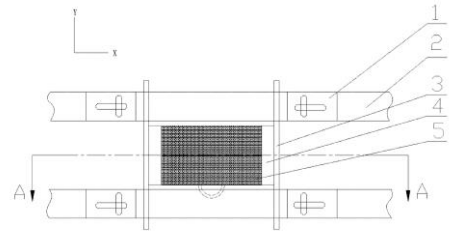
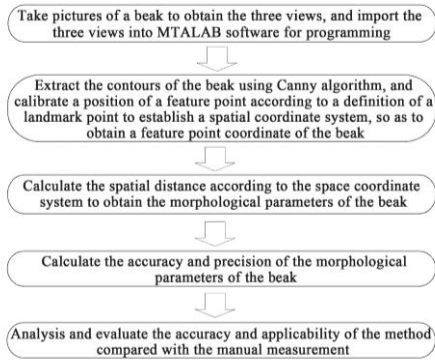
71: SHANGHAI OCEAN UNIVERSITY

72: LIU, Bilin, LIU, Fan, GU, Xinyu, SUN, Wengjie, ZHOU, Nan, WANG, Bingyan, ZHONG, Shenghao, HE, Qianhan, ZHANG, Zhong, LI, Yingchun

**54: A METHOD FOR MEASURING MORPHOLOGICAL PARAMETER OF CEPHALOPOD BEAK BASED ON COMPUTER VISION AND APPLICATION THEREOF**

00: -

A method for measuring morphological parameters of cephalopod beak based on computer vision and an application thereof. In the method, the beak is shot using a camera of the self-made device to obtain the three views, and the three views are imported into the MTALAB software for programming. The contour of the beak is extracted using Canny algorithm, and a position of a feature point is calibrated according to a definition of a landmark point to establish a spatial coordinate system to obtain a coordinate of the feature point of the beak. The spatial distance is calculated according to the spatial coordinate system, and ten morphological parameters of the beak are obtained. The morphological parameters of the beak obtained based on the computer vision are compared with manually-measured morphological parameters of the beak to evaluate accuracy and precision of the method.



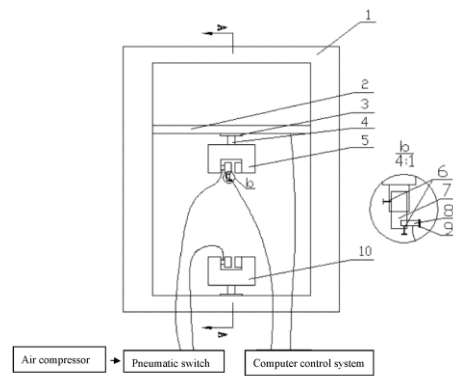
21: 2021/02561. 22: 4/19/2021. 43: 5/5/2021  
 51: B08B; B63B; B63H  
 71: FISHERY MACHINERY AND INSTRUMENT RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES  
 72: FAN, Fei, PAN, Lei, ZHONG, Wei  
 33: CN 31: 202011107754.9 32: 2020-10-16  
**54: OIL COLLECTING DEVICE FIXED ON DIESEL ENGINE MOUNTING RACK**

00: -  
 The present invention relates to an oil collecting device fixed on a diesel engine mounting rack, wherein the diesel engine mounting rack is a pair of rails in parallel, which are provided with a groove with a C-shaped cross section and a downward opening; the rail direction is set as X direction, the horizontal direction perpendicular to the X direction is set as Y direction, and the vertical and upward direction as Z direction; the oil collecting device includes mounting fasteners, connecting fasteners and an oil collecting tray; the mounting fasteners are L-shaped, one end of every mounting fastener is clamped in the groove fixed in the Z direction to the corresponding rail, and the other end of the mounting fastener is fixedly connected in the X direction with the corresponding connecting fastener; the pair of connecting fasteners are perpendicular to the rails.

21: 2021/02562. 22: 4/19/2021. 43: 5/5/2021  
 51: G01M  
 71: FISHERY MACHINERY AND INSTRUMENT RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES

72: GU, Haitao, PAN, Lei, ZHONG, Wei  
 33: CN 31: 202010617419.7 32: 2020-07-01  
**54: DEVICE AND METHOD FOR TESTING AUTOMATIC DISENGAGEMENT AND ENGAGEMENT OF LIFE JACKET BUCKLE**

00: -  
 The present invention relates to a device for testing automatic disengagement and engagement of a life jacket buckle. Parallel inner chutes are formed in two sides of a frame, and a movable crossbar is mounted in the inner chutes; a thick rod is arranged at a lower part of an upper jig, the thick rod is connected to the upper jig by a first gear rack transmission mechanism, and the height position of the thick rod can be adjusted by means of a knob of the first gear rack transmission mechanism; the thick rod is connected to a thin rod by a second gear rack transmission mechanism, and the horizontal X-directional displacement of the thin rod can be adjusted by means of a knob of the second gear rack transmission mechanism.



21: 2021/02563. 22: 4/19/2021. 43: 5/5/2021  
 51: G01C



71: FISHERY MACHINERY AND INSTRUMENT RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES

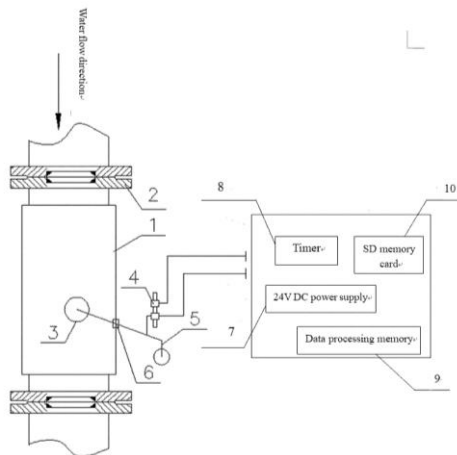
72: LI, Shengyong, CAO, Jianjun, FAN, Fei, XU, Tiannan

33: CN 31: 202011299474.2 32: 2020-11-19

**54: DEVICE FOR MONITORING SHIP LIFE SEWAGE DISCHARGE**

00: -

The present invention relates to a device for monitoring ship life sewage discharge, comprising a cylinder, a stressed member, a hammer, and a connecting rod 5; the cylinder is upright, the stressed member is arranged in the cylinder, the stressed member is connected to one end of the connecting rod, and the other end of the connecting rod extends out of the cylinder and is connected to the hammer; the connecting rod can swing up and down based on the junction with the cylinder as a fulcrum; the junction is sealed by means of a sealing filler; when no effluent is in the cylinder, the torque of the connecting rod on one side of the hammer is greater than the torque on one side of the stressed member; when effluent falls in the cylinder, the effluent acts on the stressed member and drives the connecting rod to swing.



21: 2021/02564. 22: 4/19/2021. 43: 5/5/2021

51: B63J

71: FISHERY MACHINERY AND INSTRUMENT RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES

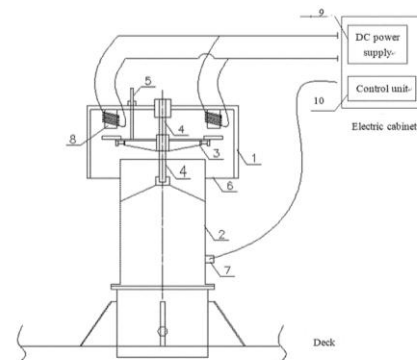
72: LI, Shengyong, ZHENG, Jianli, YANG, Hao, YAO, Jing

33: CN 31: 202011299493.5 32: 2020-11-19

**54: DEVICE FOR AUTOMATICALLY PREVENTING SEAWATER FROM ENTERING SHIP VENTILATOR**

00: -

The present invention relates to a device for automatically preventing seawater from entering a ship ventilator, comprising a ventilator, a hoop, a connecting rod, a weather-proof cover, and electromagnets; the hood is supported by the connecting rod, and the weather-proof cover can move up and down along the connecting rod under the vertical guidance of the connecting rod; a plurality of electromagnets for attracting the weather-proof cover below are fixed in the hoop; a pressure sensor is arranged at a set height of the ventilator, and both the pressure sensor and the electromagnets are electrically connected to a control unit; when seawater reaches a set position of the pressure sensor, the electromagnets are powered off, and the weather-proof cover drops to seal an outlet of the ventilator; and when seawater is lower than the set position of the pressure sensor, and the electromagnets are powered on.



21: 2021/02565. 22: 4/19/2021. 43: 5/5/2021

51: G01F; G01M; G01N

71: FISHERY MACHINERY AND INSTRUMENT RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES

72: CAO, Jianjun, HAN, Mengxia, GU, Haitao, ZHONG, Wei

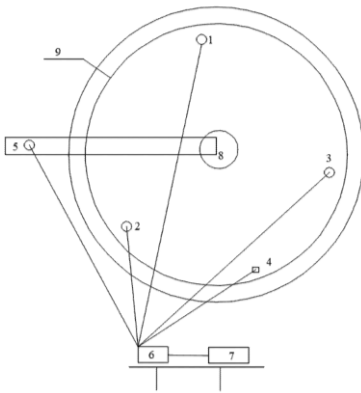
33: CN 31: 202011293936.X 32: 2020-11-18

**54: SYSTEM FOR TESTING OXYGEN UTILIZATION OF SUBMERSIBLE SELF-PRIMING CENTRIFUGAL AERATOR**

00: -

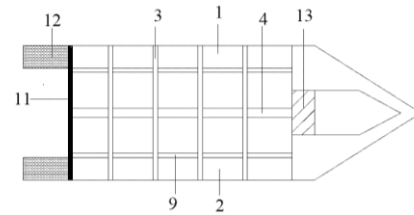
The present invention relates to a system for testing the oxygen utilization of a submersible self-priming

centrifugal aerator. A tested sample of a submersible self-priming centrifugal aerator is arranged at a central part in a culture pond; probes of at least three dissolved oxygen meters are uniformly immersed in the culture pond at different water depths close to the pond wall; a probe of a water temperature tester is immersed in water close to the pond wall; an intake pipe of the tested sample is extended by a sleeve, the sleeve is drilled with a hole into which a probe of a wind speed tester is inserted, sealed and fixed; an air pressure tester is exposed in air, and the probes of the dissolved oxygen meters, the probe of the water temperature tester and the probe of the wind speed tester are connected to a data acquisition system.



21: 2021/02566. 22: 4/19/2021. 43: 5/5/2021  
51: B63B  
71: FISHERY MACHINERY AND INSTRUMENT RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES  
72: ZHENG, Jianli, LI, Shengyong, YAO, Jing, CAO, Jianjun, YANG, Hao  
33: CN 31: 202011434027.3 32: 2020-12-10  
**54: DEEP-SEA AQUACULTURE WORK SHIP**  
00: -  
Disclosed is a deep-sea aquaculture work ship, comprising a first pontoon and a second pontoon, which are arranged in parallel. The first pontoon and the second pontoon are connected by means of a fixing frame; a longitudinal corridor is also arranged between the first pontoon and the second pontoon; the top of the longitudinal corridor is fixed on the fixing frame; and a feeding pipeline is arranged at the bottom of the longitudinal corridor. According to the present invention, by providing the feeding

pipeline at the bottom of the longitudinal corridor, feeding into the aquaculture work ship by machinery is convenient. The provision of sheltering pontoons can facilitate the parking of commuter boats and facilitate the workers to go to and get off work by boat. It is also used to carry some tools and supplies etc. on the work ship.

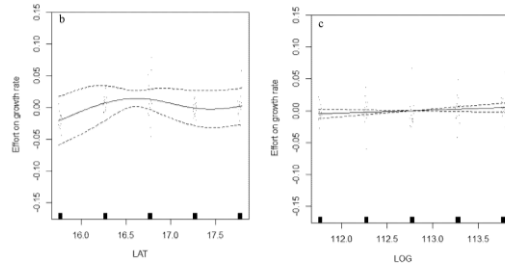
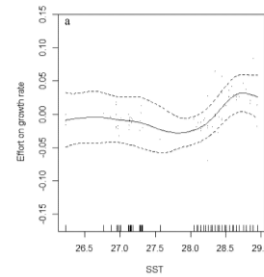
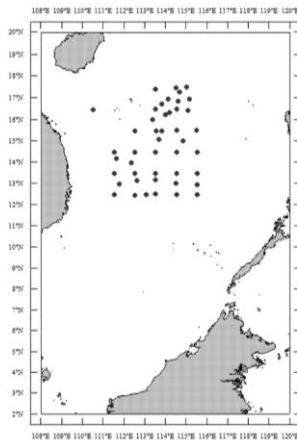


21: 2021/02568. 22: 4/19/2021. 43: 5/5/2021  
51: G01V  
71: SHANGHAI OCEAN UNIVERSITY  
72: LU, Huajie, CHEN, Ziyue, CHEN, Xinjun, LIU, Kai, NING, Xin

**54: A METHOD FOR MEASURING INDIVIDUAL GROWTH AND SEXUAL MATURITY OF STHENOTEUTHIS OUALANIENSIS IN SOUTH CHINA SEA BASED ON HORN JAW MORPHOLOGY**

00: -

The present application relates to aquaculture, in particular to a method for measuring individual growth and sexual maturity of *Sthenoteuthis oualaniensis* in South China Sea based on horny jaw morphology. Four morphological characteristic parameters consisting of an upper hood length, an upper crest length, a lower hood length and a lower crest length of a horny jaw of the *Sthenoteuthis oualaniensis* are used to measure the individual growth and the sexual maturity of the *Sthenoteuthis oualaniensis* in South China Sea. The influence of individual growth and sexual maturity on external morphological changes of the horny jaw of the *Sthenoteuthis oualaniensis* in South China Sea is studied in the present application, which provides a necessary basis to carry out cephalopod basic biology and ecology and resource assessment by the use of external morphology of the horny jaw.



21: 2021/02569. 22: 4/19/2021. 43: 5/5/2021  
51: G01V

71: SHANGHAI OCEAN UNIVERSITY  
72: LU, Huajie, NING, Xin, CHEN, Xinjun, CHEN, Ziyue, LIU, Kai

**54: A METHOD FOR CONSTRUCTING A GROWTH MODEL OF STHENOTEUTHIS OUALANIENSIS BASED ON MARINE ENVIRONMENTAL FACTORS**

00: -

A method of constructing a growth model of *Sthenoteuthis oualaniensis* based on marine environmental factors, including: calculating sea surface temperature data of an operation area of each month within a certain time span; calculating a growth rate of the *Sthenoteuthis oualaniensis* at the first sexual maturity according to the following equation:  $v=ML/d$ ; performing canonical correlation analysis on the SST of the operation area of each month within a certain time span and a maximum correlation month and a corresponding sea area position of the *Sthenoteuthis oualaniensis* in the corresponding year; selecting SST of the month with the maximum correlation and  $v$  to perform generalized additive model analysis; subjecting the growth rate of the *Sthenoteuthis oualaniensis* to log transformation to make the growth rate conform to normal distribution; and optimizing the GAM results by Akaike Information Criterion; and obtaining a relationship between SST and  $v$  to construct the growth model.

21: 2021/02570. 22: 4/19/2021. 43: 5/5/2021  
51: H02P

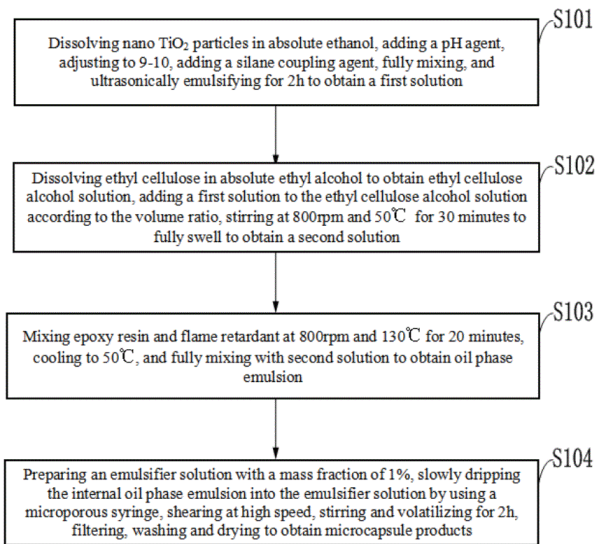
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: YANG, Ke, ZHAO, Xinyuan, WEI, Zhen, FU, Qiang, ZHANG, Jiqiang, WANG, Yu, YU, Yang  
33: CN 31: 202010935085.8 32: 2020-09-08

**54: DOWNHOLE COAL GANGUE SOURCE REDUCTION, SORTING, AND FILLING COLLABORATIVE MINING SYSTEM**

00: -

In order to solve the problems of excessive coal gangue output, incomplete sorting, and energy consumption of lifting of gangue leakage during mining from the source and realize reduction of coal gangue mining sources, intelligent sorting and on-site digestion of a small amount of coal gangue, a set of downhole coal gangue source reduction, sorting, and filling collaborative mining system is provided. A downhole coal gangue source reduction, sorting, and filling collaborative mining system, comprising a pre-mining detection modeling system, an intelligent coal and rock identification and mining system, an intelligent coal gangue sorting and diversion system, a gangue transport and backfilling system, and spatio-temporal orderly coordination among the systems.

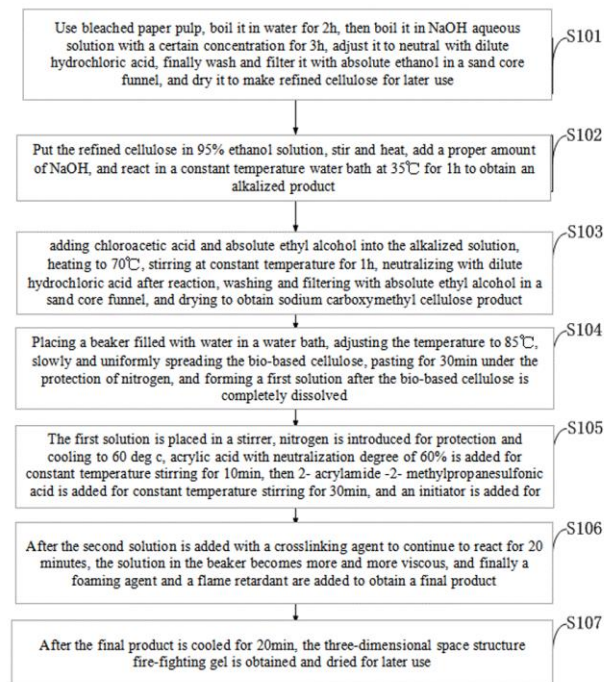


21: 2021/02600. 22: 4/20/2021. 43: 5/5/2021  
 51: E21C  
 71: Shandong University of Science and Technology  
 72: Zhou Gang, Jiang Wenjing, Niu Chenxi, Meng Qunzhi, Zhang Xinyuan, Wang Cunmin, Liu Dong, Li Shuailong, Duan Jinjie, Xing Mengyao, Wang Kaili  
**54: MULTIFUNCTIONAL SUSTAINED-RELEASE MICROCAPSULE, PREPARATION METHOD AND APPLICATION THEREOF**

00: -  
 The present invention belongs to the technical field of self-repairing microcapsules for coal mine mining area grouting materials, and discloses a multifunctional slow-release microcapsule, preparation method and its application, where the oil phase consists of 0.7%-0.9% nano-TiO<sub>2</sub> particles by mass, 1.0%-1.2% pH adjuster, 1.3%-1.5% silane coupling agent, 3.8%-4.1% epoxy resin, 0.8%- 0.9% of flame retardant, 1.8%-2.0% of ethyl cellulose, and the remaining amount of anhydrous ethanol, made up to 100%. The aqueous phase is 0.1% by mass of emulsifier and the balance is water, made up to 100%. The present invention is prepared by using a repair agent with self-healing and flame retardant characteristics as the core material and organic-inorganic hybrid slow-release aggregate as the wall material, and by ultrasonic emulsion cross-linking method; the microcapsules have good self-healing and flame retardant ability, which can effectively repair the damaged area, realize the self-healing of the substrate, and improve the flame retardant ability of the substrate.

21: 2021/02601. 22: 4/20/2021. 43: 5/5/2021  
 51: E21F  
 71: Shandong University of Science and Technology  
 72: Zhou Gang, Liu Rulin, Li Shuailong, Jiang Wenjing, Hu Xiangming, He Min, Dong Xiaosu, Chen Xu

**54: COMPOSITE HIGH-ABSORBENT ANTI-EXTINGUISHING GEL FOR COAL MINES, PREPARATION METHOD AND APPLICATION**  
 00: -  
 The present invention belongs to the field of mine fire prevention technology, discloses a composite high water absorption fire prevention gel for coal mines, preparation method and application, including waste paper extraction and product preparation; the waste paper extraction process includes: using bleached and thoroughly crushed waste paper, making refined cellulose, refined cellulose preparation alkaline cellulose, etherizing alkaline cellulose, drying to obtain sodium carboxymethyl cellulose; the product preparation process includes : 0.5%-1% of bio-based cellulose, 5%-10% of acrylic acid, 1%-2.5% of 2-acrylamide-2-methylpropanesulfonic acid, 0.01%-0.05% of sodium hydroxide, 0.01%-0.05% of initiator, 0.01%-0.1% of cross-linking agent, 0.5%-2% of blowing agent, 0.5%-1% of flame retardant, and the balance of water. The invention can ensure that the product is environmentally friendly and low cost, but also ensure that the product has high water absorption and salt resistance, and the effect of fire prevention while high resistance rate is more significant.



21: 2021/02602. 22: 4/20/2021. 43: 5/5/2021  
51: A61K

71: Zhixin Wu, Jing Sun

72: Zhixin Wu, Jing Sun

33: CN 31: 202110255996.0 32: 2021-03-09

#### 54: EXPERIMENTAL METHOD FOR THE CLINICAL APPLICATION OF MESENCHYMAL STEM CELLS TO CHILDREN WITH AUTISM

00: -

The present invention discloses an experimental method for the clinical application of mesenchymal stem cells to children with autism. The experimental method of the present invention examines the effect of mesenchymal stem cells on the treatment of children with autism from multiple aspects of gene expression and serum indicators, and can examine the effects of mesenchymal stem cells on the improvement and repair of serum serial factor levels in children with autism. It provides a practical basis for mesenchymal stem cells to treat autism, and can further improve its treatment theory, and provide a basis for the clinical application of stem cells.

21: 2021/02605. 22: 4/20/2021. 43: 5/5/2021

51: B01J; C08G; D06M

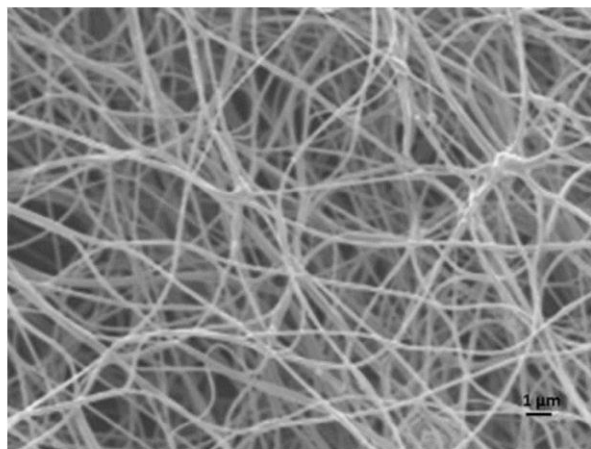
71: Qingdao Agricultural University

72: YU, Guifeng, PAN, Wei

#### 54: POLYCARBOXYLIC METAL-ORGANIC FRAMEWORK MATERIAL BASED ON ELECTROSPUN FIBER MEMBRANE AND PRODUCTION METHOD THEREFOR

00: -

The present disclosure provides a method for producing a polycarboxylic metal-organic framework (MOF) material based on an electrospun fiber membrane and a production method therefor, the method comprising: formation of a nanofiber membrane substrate by electrospinning; preparation of an activation solution; activation of the nanofiber membrane substrate; and growth of an MOF crystal. The method does not involve the use of high pressure or high temperature. Accordingly, production costs and safety hazards can be effectively reduced. Furthermore, the MOF material can be produced with an ordered arrangement and a high yield. The method was also found to be suitable for large scale production of the MOF material, and is thus promising.



21: 2021/02606. 22: 4/20/2021. 43: 5/5/2021

51: A01K

71: SHANGHAI OCEAN UNIVERSITY

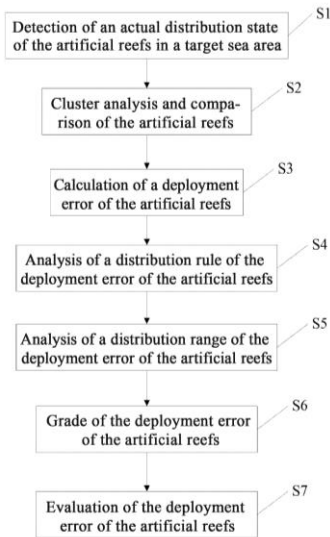
72: LI, Xunmeng, ZHAO, Jing, ZHANG, Shouyu, SHEN, Tianyue, SHEN, Wei

#### 54: A METHOD FOR EVALUATING DEPLOYMENT QUALITY OF ARTIFICIAL REEFS

00: -

The disclosure provides a method for evaluating deployment quality of artificial reefs. An actual distribution state of the artificial reefs in a target sea area is detected to obtain an actual distribution data of the artificial reefs in the target sea area. The

artificial reefs are subjected to a cluster analysis and comparison. A deployment error of the artificial reefs is calculated. A distribution rule of the deployment error of the artificial reefs is analyzed. A distribution range of the deployment error of the artificial reefs is analyzed. The deployment error of the artificial reefs is graded. The deployment error of the artificial reefs is evaluated. The method can scientifically quantify the deployment error of the artificial reefs, and has strong practicability and good evaluation effect.

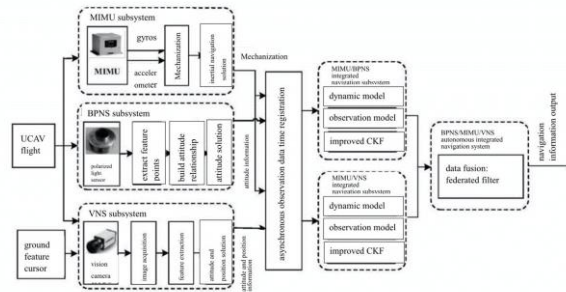


21: 2021/02684. 22: 4/22/2021. 43: 5/5/5021  
 51: G01C  
 71: Northwestern Polytechnical University  
 72: Bingbing Gao, Gaoge Hu  
 33: CN 31: 202010082963.6 32: 2020-02-07

**54: AUTONOMOUS NAVIGATION METHOD FOR UNMANNED COMBAT AERIAL VEHICLE ASSISTED BY BIONIC POLARIZATION**

00: -  
 The invention discloses an autonomous navigation method for unmanned combat aerial vehicle assisted by bionic polarization, which establishes dynamic model of BPNS/MIMU/VNS autonomous integrated navigation system based on quaternion according to MIMU navigation subsystem; first observation model and second observation model through VNS navigation subsystem and BPNS navigation subsystem are established respectively; the navigation information of each navigation subsystem is obtained, and the improved federated CKF method is used to optimally estimate the state via

dynamic model, the first observation model and the second observation model to obtain the final navigation information of the unmanned combat aerial vehicle; the present invention assists traditional MIMU and VNS through BPNS and introduces a robust factor in the filtering process to weaken the influence of abnormal observation; it also effectively improves the accuracy of asynchronous observation process through asynchronous time registration. Therefore, it has the advantages of strong autonomy, high accuracy, and good reliability, which can compensate the deficiencies of existing autonomous navigation technology and improve the autonomous precision navigation capabilities of unmanned combat aerial vehicle in complex battlefield environments.

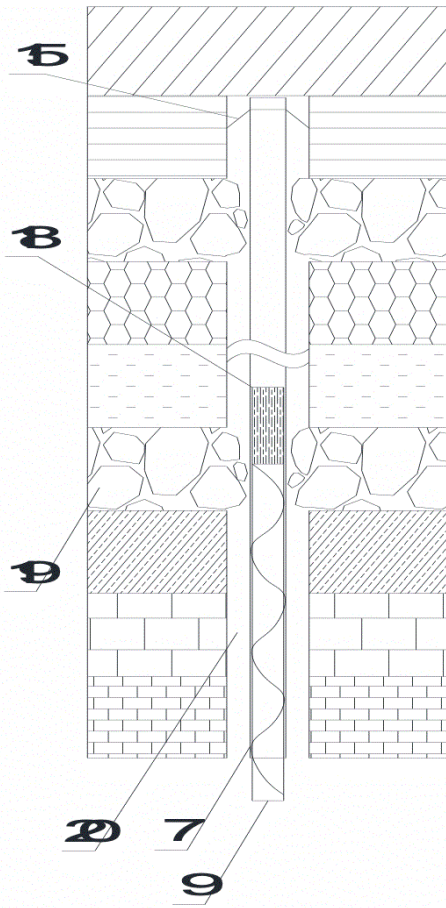


21: 2021/02805. 22: 4/28/2021. 43: 5/6/2021  
 51: E21B  
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY  
 72: Xiaolou CHI, Ke YANG, Wenjie LIU, Zhen WEI, Litong DOU  
 33: CN 31: 202010819570.9 32: 2020-08-14

**54: ACCURATE BOREHOLE PEEPING DEVICE INTEGRATED WITH "DRILLING AND PUSHING" AND METHOD**

00: -  
 The present disclosure an accurate borehole peeping device integrated with "drilling and pushing" includes drill pipes, connectors A, a hollow barrel, connecting grooves, jetting holes, a hollow drill bit, hollow high-strength transparent casings, connectors B, push rods, grooves, a sleeve ring device, a fixing device, fixed rings, a sealing cap, obstructions, drill pipe placement holes, a drilling machine, a borehole peeping probe, broken rock, and boreholes, wherein cross sections of the drill pipes are hexagonal, hollow round holes are provided inside, the drill pipes are connected through the connectors A, and

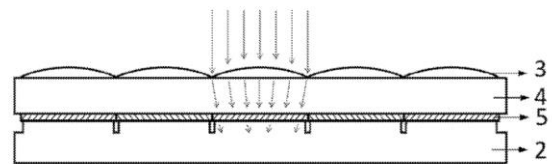
top ends of the drill pipes are connected to the hollow drill bit; the hollow high-strength transparent casings are connected through the connectors B, and top ends of the casings are sleeved with the fixed rings; the push rods are connected through the connectors B, which push the borehole peeping probe into the hollow high-strength transparent casings to monitor deformation of surrounding rock. The device can realize the accurate detection of the boreholes which are easy to collapse after forming, which is of great significance to the normal operation of the detection on deformation of surrounding rock under complex conditions.



**54: FULL-DAY IMAGING DETECTOR WITH MULTI-FUNCTIONAL WINDOW, AND METHOD FOR PREPARING SAME**

00: -

Provided are a full-day imaging detector with a multi-functional window, and a method for preparing same. The full-day imaging detector included a multi-functional window (1) and a detection portion (2). The multi-functional window (1) included a micro-lens array (3), a window body (4) and an optical filter array (5), wherein the micro-lens array (3) is integrated on an upper surface of the window body (4), a top surface of each micro-lens unit is of a spherical crown structure, the projection of the spherical crown is square from a top view, and the square projections of spherical crowns of adjacent micro-lens units from the top view are connected; the optical filter array (5) is plated on a lower surface of the window body (4); and the optical filter array (5) included four types of optical filters, including three types of band-pass optical filters of single-color visible light in combination with an infrared waveband, and an infrared optical filter. The detection portion (2) is constituted of a pixel unit array, wherein each pixel unit comprises four types of sub-pixel units, and the four types of sub-pixel units directly face the four types of optical filters in a one-to-one correspondence mode. Further provided are a method for preparing a micro-lens array and a detection method for a detector. Full-day detection can be realized. and the four types of sub-pixel units directly face the four types of optical filters in a one-to-one correspondence mode. Further provided are a method for preparing a micro-lens array and a detection method for a detector. Full-day detection can be realized. and the four types of sub-pixel units directly face the four types of optical filters in a one-to-one correspondence mode. Further provided are a method for preparing a micro-lens array and a detection method for a detector. Full-day detection can be realized.



21: 2021/02811. 22: 28/04/2021. 43: 5/6/2021  
 51: H01L  
 71: XI AN TECHNOLOGICAL UNIVERSITY  
 72: LIU, Weiguo, WANG, Zhuoman, LIU, Huan, BAI, Minyu, HAN, Jun, WANG, Xi, LIANG, Haifeng, AN, Yan  
 33: CN 31: 201910162595.3 32: 2019-03-05

21: 2021/02813. 22: 28/04/2021. 43: 5/6/2021

51: G01N

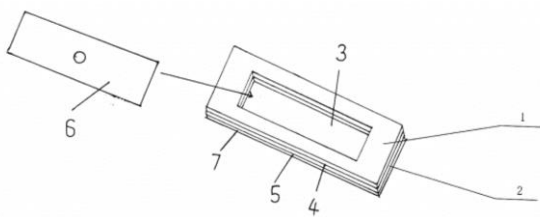
71: NANTONG UNIVERSITY

72: SHEN, Weixing, QIU, Yihua, QIU, Lianglin, PENG, Yuping, XU, Fenfen

**54: METHOD FOR USING ANTI-EVAPORATION DETACHABLE-TYPE SLIDE INCUBATOR**

00: -

A method for using an anti-evaporation detachable-type slide incubator. A stainless steel incubation frame is pressed onto a slide. The frame and an elastic padding layer below the frame together form a small incubation chamber having a rectangular space in the middle thereof and the slide at the bottom thereof. The elastic padding layer is provided with a middle rectangular space matching that of the frame. By means of double-sided adhesives, the elastic padding layer is closely adhered to the stainless steel incubation frame and is in contact with the slide, thus preventing leakage of incubation liquid. The dimensions of the outer perimeter of the stainless steel incubation frame and the dimensions of the outer perimeter of the elastic padding layer are the same as the dimensions of the outer perimeter of the slide. The bottom of the elastic padding layer is provided with a double-sided adhesive, which allows the elastic padding layer to adhere to the slide. A top cover is provided with a handle and may be placed on the stainless steel incubation frame. The method is convenient to implement and is effective, and has an anti-evaporation function.



21: 2021/02814. 22: 28/04/2021. 43: 5/6/2021

51: A61B

71: NANTONG UNIVERSITY

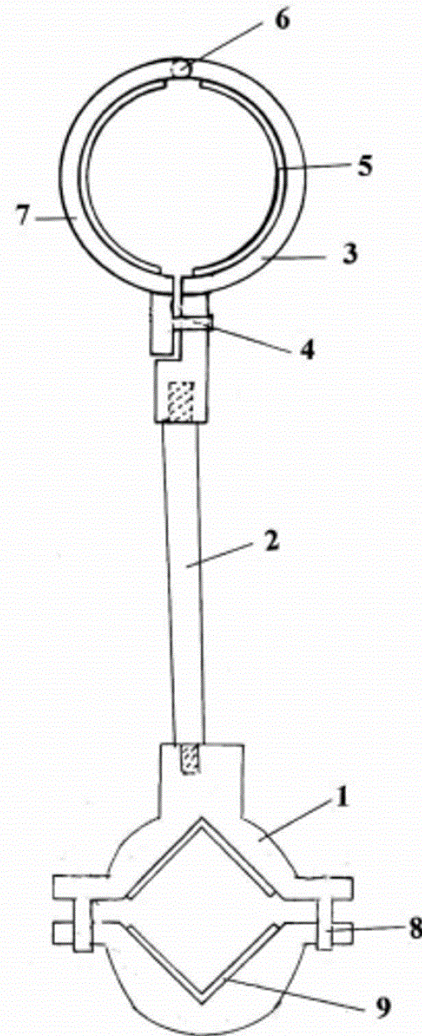
72: CAO, Beibei, PENG, Yuping, CHANG, Renan, QIU, Yihua, HUANG, Yan

**54: SUPPORT FRAME USED IN EXAMINING OCULAR FUNDUS**

00: -

A support frame used in examining the ocular fundus, comprising a fixing clamp (1) fixed at a chin rest frame position below a chin rest adjustment

wheel of a slit lamp microscope, the fixing clamp (1) being connected to a front lens of the slit lamp by means of a bendable connecting tube (2). By such means, the front lens of the slit lamp is conveniently fixed, making operations easier for a doctor, and allowing the doctor to remove their hand to perform other operations, thus being effective in use.



21: 2021/02815. 22: 28/04/2021. 43: 5/6/2021

51: G01N

71: NANTONG UNIVERSITY

72: LU, Jianhua, QIU, Yihua, ZHOU, Xinqin, PENG, Yuping, LIU, Zhan

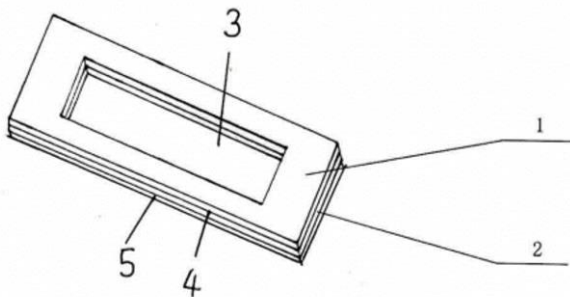
**54: CONVENIENT-ASSEMBLY, DETACHABLE INCUBATOR FOR MICROSCOPE SLIDE**

00: -

A convenient-assembly, detachable incubator for a microscope slide, comprising a stainless steel



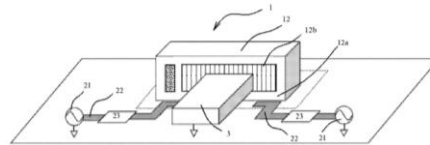
incubation frame (1), the stainless steel incubation frame (1) pressing on a microscope slide, and forming an incubation chamber (3) together with an elastic cushion layer (2) below the frame out of a rectangular space in the center, with the slide as a bottom surface. The elastic cushion layer is provided with a central rectangular space that is the same as that of the stainless steel incubation frame. The incubator is characterized in that the elastic cushion layer adheres tightly to the stainless steel incubation frame by means of a double-sided adhesive (4), and is in contact with the microscope slide, preventing an incubation solution from leaking. The size of the perimeter of the stainless steel incubation frame and the size of the perimeter of the elastic cushion layer are both the same as the size of the perimeter of the microscope slide, and a double-sided adhesive (5) is provided on the bottom surface of the elastic cushion layer, said layer being attached to the microscope slide by means of the bottom surface double-sided adhesive. The present incubator features convenient use and an excellent result.



21: 2021/02862. 22: 4/28/2021. 43: 5/12/2021  
 51: H01Q  
 71: ETHETA COMMUNICATION TECHNOLOGY (SHENZHEN) CO., LTD, EAST CHINA RESEARCH INSTITUTE OF MICROELECTRONICS  
 72: HUANG, Huan-Chu, LU, Jiaguo, LIN, Hong, LIU, Junyong, QI, Zhixing, ZENG, Minhui, ZHOU, Yanchao, LI, Jingwei, MA, Tao  
 33: CN 31: 202010371100.0 32: 2020-04-30  
**54: INTEGRATION MODULE SYSTEM OF MILLIMETER-WAVE AND NON-MILLIMETER-WAVE ANTENNAS AND ELECTRONIC APPARATUS**

00: -  
 The present invention relates to an integration module system of millimeter-wave and non-millimeter-wave antennas and an electronic

apparatus, the system comprising a millimeter-wave antenna module and a non-millimeter-wave environment, the millimeter-wave antenna module forming a communication connection with the non-millimeter-wave environment for realizing reusing of the millimeter-wave antenna module to achieve a function of non-millimeter-wave antenna(s). The present invention proposes directly reusing a millimeter-wave antenna module, which is designed so that this module also has an antenna function of a non-millimeter-wave module, while an individual module's own volume does not need to be increased, and the module itself does not need to have additionally-added antenna traces, that is, with the same volume, a function of non-millimeter-wave antenna(s) may be further added. Therefore, it obviously helps to avoid an increase of the device's volume and improve compactness of the system and system design.



21: 2021/02863. 22: 4/29/2021. 43: 5/6/2021  
 51: C12Q

71: Qingdao Agricultural University

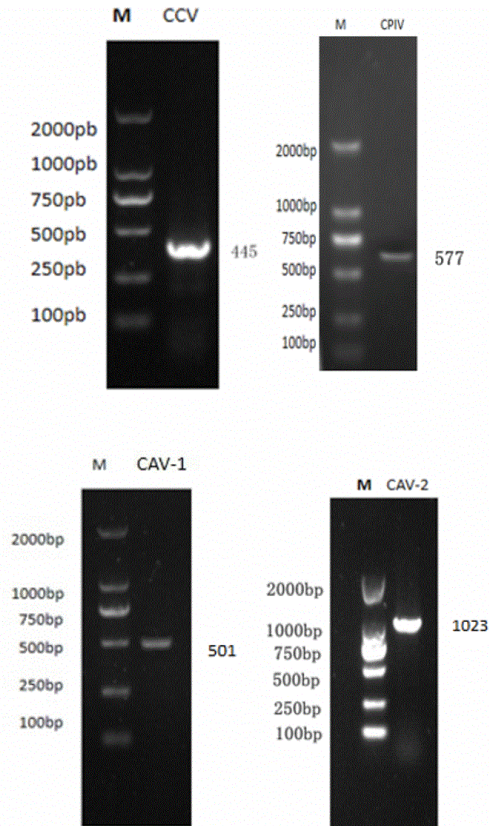
72: Wen Jianxin, Ren Jianwei, Xu Hang

**54: MULTIPLEX PCR DETECTION METHOD AND APPLICATION FOR DETECTING FOUR KINDS OF CANINE VIRUSES**

00: -

The present invention discloses a multiple PCR primer, detection method and application for detecting four kinds of canine viruses. The primers include: primers CCV-F and CCV-R for detecting canine coronavirus and primers for detecting canine parainfluenza virus. The primers CPIV-F and CPIV-R and the primers CAV-F and CAV-R for detecting canine adenovirus type I and canine adenovirus type II. The PCR detection method established with this primer can detect a single virus, and can also detect the mixed infection of CCV, CPIV, CAV-1 and CAV-2 viruses at the same time. It has the advantages of high detection sensitivity and good specificity, and also It can reduce the occurrence of false positives, can achieve the goal of rapid, accurate, sensitive,

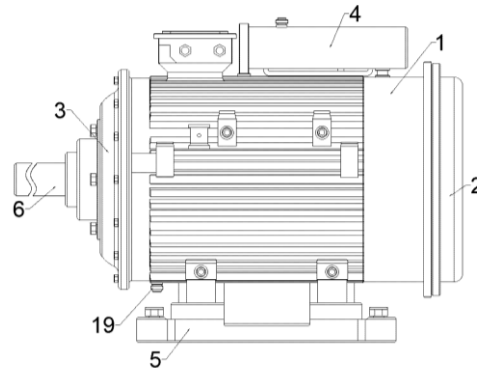
and early detection of pathogens, and provide technical support for the establishment of standardized detection methods for canine health monitoring, which can greatly save time and cost.



21: 2021/02867. 22: 4/29/2021. 43: 5/12/2021  
 51: H02K  
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY  
 72: SONG, Jiangfeng, WANG, Bin, GUO, Jiahu  
 33: CN 31: 202010472716.7 32: 2020-05-29  
**54: SELF-CLEANING PERMANENT MAGNET SYNCHRONOUS MOTOR**  
 00: -

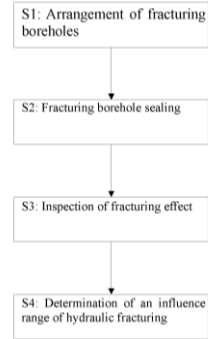
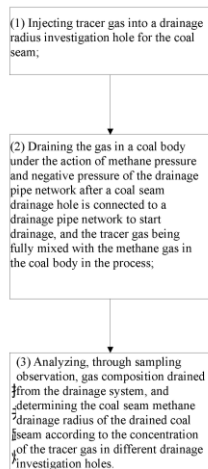
Disclosed is a self-cleaning permanent magnet synchronous motor. A partition plate connected to the inner wall of the shell in a sealed manner is arranged on the side of the shell near the rear end cover, a fan for air supply and heat dissipation is fixed to the end of the output shaft, a cleaning barrel in communication with the interior of the shell is installed outside the shell, a cleaning mechanism is arranged in the cleaning barrel, and a heat dissipation end used for outputting hot air is arranged on the lower part of the shell. The motor

can filter and clean air discharged into the shell through the cleaning barrel, a sealing element fixed in the cleaning barrel and a filter element arranged in the cleaning barrel in a sealed and sliding mode.



21: 2021/02868. 22: 4/29/2021. 43: 5/12/2021  
 51: E21B  
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY  
 72: YUAN, Anying, ZHANG, Xiaoyu, YUAN, Anguo, ZHANG, Chunru  
**54: METHOD FOR TESTING HYDRAULIC FRACTURING AND FLUSHING PERMEABILITY-INCREASING EFFECT IN COAL SEAMS**  
 00: -

A method for testing hydraulic fracturing and flushing permeability-increasing effect in coal seams is provided, wherein measuring a methane drainage radius by a gas tracing method comprises the following steps: (1) injecting tracer gas into a drainage radius investigation hole for a coal seam; (2) draining the gas in the coal body under the action of methane pressure and negative pressure of the drainage pipe network after a coal seam drainage borehole is connected to a drainage pipe network to start drainage, and the tracer gas being fully mixed with the methane gas in the coal body in the process; (3) analyzing, through sampling observation, gas composition drained from the drainage system, and determining the coal seam methane drainage radius of the drained coal seam according to the concentration of the tracer gas in different drainage investigation holes.



21: 2021/02869. 22: 4/29/2021. 43: 5/12/2021

51: E21B

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: YUAN, Anying, ZHANG, Xiaoyu, YUAN, Anguo, ZHANG, Chunru

**54: PRE-DRAINING HYDRAULIC FRACTURING PERMEABILITY-INCREASING METHOD FOR A COAL ROADWAY LAYER-CROSSING STRIP IN A BOTTOM DRAINING ROADWAY**

00: -

A pre-draining hydraulic fracturing permeability-increasing method for a coal roadway layer-crossing strip in a bottom draining roadway is provided. The method includes the following steps: S1: arrangement of fracturing boreholes: arranging a fracturing borehole every other drilling field in the bottom draining roadway along a heading direction of a gateroad, wherein the distance between bottoms of the fracturing boreholes is 100-140m, the aperture  $\phi$  of the fracturing boreholes is 100-126mm, constructing the fracturing boreholes until coal seam is detected, and the final borehole is located in a center of a shield gateroad; S2: fracturing borehole sealing: employing  $\phi$ 40-44mm special special-purpose water injection pipe to run into the borehole, running the screen pipe 2 ~ 4m outside the borehole from a top plate in the coal seam for fracturing, grouting in a "segmented, repeated and intermittent" manner, firstly grouting thin slurry and then grouting thick slurry, squeezing out accumulated water precipitated.

**HYPOTHECATIONS**

No records available

**JUDGMENTS**

No records available

**OFFICE PRACTISE NOTICES**

No records available

# 3. DESIGNS

**DESIGNS****APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993**

The particulars appear in the following sequence: Copies of the application and representations cannot be supplied until application is registered and advertised. In all correspondence reference should be made to the number of the application. Application number, full name of applicant, class, articles to which design is to be applied and priority date (if any)

- APPLIED ON 4/26/2021 -

A2021/00448 - PARASYM LTD Class 24. AURICULAR PERCUTANEOUS ELECTRODE

F2021/00445 - Tritium Holdings Pty Ltd Class 13. CHARGING STATIONS

A2021/00446 - PARASYM LTD Class 24. EXTERNAL PULSE GENERATOR

A2021/00447 - PARASYM LTD Class 24. TRANSCUTANEOUS ELECTRODES

A2021/00442 - HOME OFFICE DESIGNS (PTY) LTD Class 6. ADJUSTABLE COMPUTER STAND

A2021/00443 - The Goodyear Tire & Rubber Company Class 12. TIRES

A2021/00444 - Tritium Holdings Pty Ltd Class 13. CHARGING STATIONS

- APPLIED ON 4/28/2021 -

F2021/00452 - Workshop Electronics (Pty) Ltd Class 10. MOBILE VEHICLE TESTING STATIONS

A2021/00451 - The Goodyear Tire & Rubber Company Class 12. TIRES

A2021/00449 - JANSE VAN RENSBURG, Andre, VAN DEN HEEVER VENTER, Barend, Gerhardus Class 7. GRILL CLEANER

F2021/00450 - JANSE VAN RENSBURG, Andre, VAN DEN HEEVER VENTER, Barend, Gerhardus Class 7. GRILL CLEANER

F2021/00454 - Workshop Electronics (Pty) Ltd Class 12. MOBILE VEHICLE TESTING STATIONS

A2021/00453 - Workshop Electronics (Pty) Ltd Class 10. MOBILE VEHICLE TESTING STATIONS

A2021/00455 - Workshop Electronics (Pty) Ltd Class 12. MOBILE VEHICLE TESTING STATIONS

- APPLIED ON 4/29/2021 -

F2021/00462 - RSC Mining (Pty) Ltd Class 08. A COUPLER

A2021/00461 - RSC Mining (Pty) Ltd Class 08. A COUPLER

F2021/00460 - AIFEILING SANITARY WARES TECHNOLOGY GROUP CO.,LTD. Class 23. DRAIN STRAINERS

F2021/00459 - ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD Class 12. SEALING ELEMENT FOR A VEHICLE CANOPY

A2021/00458 - ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD Class 12. SEALING ELEMENT FOR A VEHICLE CANOPY

F2021/00457 - QuantumX (Pty) Ltd. Class 13. UNSHEATHED OR UNJACKETED TWISTED PAIR CABLES

A2021/00456 - QuantumX (Pty) Ltd. Class 13. UNSHEATHED OR UNJACKETED TWISTED PAIR CABLES

. - APPLIED ON 4/30/2021 -

A2021/00466 - BUG BITE THING EUROPE APS Class 24. SUCTION APPARATUS

A2021/00464 - PHILIP MORRIS PRODUCTS S.A. Class 27. AEROSOL GENERATING DEVICE, IN PARTICULAR TOBACCO HEATING DEVICE

A2021/00465 - PHILIP MORRIS PRODUCTS S.A. Class 27. AEROSOL GENERATING DEVICE, IN PARTICULAR TOBACCO HEATING DEVICE

A2021/00463 - PHILIP MORRIS PRODUCTS S.A. Class 27. AEROSOL GENERATING DEVICE, IN PARTICULAR TOBACCO HEATING DEVICE

. - APPLIED ON 5/3/2021 1 -

F2021/00470 - TIMOTHY DAVID TURK Class 23. A BATH SPOUT

A2021/00472 - BRITA GMBH Class 23. WATER FILTER CARTRIDGE

F2021/00467 - PIMMS GROUP (PTY) LTD. Class 25. MOUNTING PLATES FOR CABLE FIXING SYSTEMS

A2021/00469 - TIMOTHY DAVID TURK Class 23. A BATH SPOUT

F2021/00468 - PIMMS GROUP (PTY) LTD. Class 25. CABLE SLACK STORAGE BRACKETS FOR CABLE FIXING SYSTEMS

A2021/00471 - LATIEF, Surajudin Class 20. LICENCE DISC HOLDERS

. - APPLIED ON 5/4/2021 1 -

A2021/00475 - HALEY, Grant William Class 25. JACUZZI COVER ASSEMBLY

A2021/00478 - APPLE INC. Class 3. CASE

F2021/00476 - HALEY, Grant William Class 25. JACUZZI COVER ASSEMBLY

A2021/00479 - APPLE INC. Class 14. EARPHONES IN A CASE

A2021/00474 - SISAMOS, Konstantinos Class 21. SNAP-LOCK CONSTRUCTION TOY BEAM UNIT

A2021/00477 - Precision Valve Corporation Class 23. ACTUATOR ORIFICES

A2021/00480 - APPLE INC. Class 14. EARPHONE

F2021/00473 - INVESTIQ (PTY) LTD Class 28. NAIL SHAVING DEVICE

. - APPLIED ON 5/6/2021 1 -

A2021/00482 - MCCORMICK & COMPANY, INCORPORATED Class 09. BOTTLE

A2021/00484 - MCCORMICK & COMPANY, INCORPORATED Class 7. BOTTLE AND A CAP

A2021/00483 - MCCORMICK & COMPANY, INCORPORATED Class 7. BOTTLE CAP

- APPLIED ON 5/7/2021 1 -

F2021/00485 - PICHE, Helen, Maria Class 28. A HAIR FASTENER INCLUDING AN ELASTICATED COVER

- APPLIED ON 5/10/2021 -

A2021/00486 - Precision Valve Corporation Class 9. ACTUATOR BUTTONS

- APPLIED ON 5/11/2021 -

F2021/00488 - MABENA. Sello Fanuel Class 8. SPARE WHEEL CARRIER

A2021/00490 - TONGAAT HULETT LIMITED Class 09. BOTTLES

F2021/00489 - MABENA. Sello Fanuel Class 12. SPARE WHEEL CARRIER

- APPLIED ON 5/12/2021 -

A2021/00492 - JOINT STOCK COMPANY &#171;TRANSMASHHOLDING&#187; Class 12. ROAD ENGINE

A2021/00494 - JOINT STOCK COMPANY &#171;TRANSMASHHOLDING&#187; Class 12. CONTROL CAR OF AN ELECTRIC MULTIPLE UNIT

A2021/00491 - WLI (UK) LIMITED Class 09. BOTTLE

A2021/00495 - JOINT STOCK COMPANY &#171;TRANSMASHHOLDING&#187; Class 12. SWITCH ENGINE

A2021/00493 - JOINT STOCK COMPANY &#171;TRANSMASHHOLDING&#187; Class 12. SUBWAY CONTROL CAR

- APPLIED ON 5/14/2021 -

A2021/00508 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

A2021/00501 - RSC Mining (Pty) Ltd Class 08. A ROCK BOLT

F2021/00498 - RSC Mining (Pty) Ltd Class 08. A ROCK BOLT

F2021/00502 - RSC Mining (Pty) Ltd Class 08. A ROCK BOLT

A2021/00511 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

F2021/00512 - RSC Mining (Pty) Ltd Class 08. A ROCK BOLT

F2021/00496 - Qingdao Raising Inox CO., LTD Class 8. KITS FOR ADJUSTABLE GLASS RAILING

A2021/00497 - RSC Mining (Pty) Ltd Class 08. A ROCK BOLT

A2021/00499 - RSC Mining (Pty) Ltd Class 08. A ROCK BOLT



A2021/00503 - RSC Mining (Pty) Ltd Class 08. A ROCK BOLT

A2021/00507 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

A2021/00510 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

A2021/00504 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

A2021/00505 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

A2021/00506 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

F2021/00500 - RSC Mining (Pty) Ltd Class 08. A ROCK BOLT

A2021/00509 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

- APPLIED ON 5/17/2021 -

A2021/00513 - STONE ARCH CREATIONS CC Class 23. HEATER

F2021/00514 - STONE ARCH CREATIONS CC Class 23. HEATER

A2021/00517 - Caterpillar Inc. Class 15. ADAPTERS FOR MACHINE IMPLEMENTS

A2021/00518 - Caterpillar Inc. Class 15. ADAPTER COVERS FOR MACHINE IMPLEMENTS

A2021/00516 - STASHER, INC. Class 7. CONTAINER

A2021/00521 - Peloton Interactive, Inc. Class 2. SHOES

A2021/00520 - Caterpillar Inc. Class 15. ADAPTER COVERS FOR MACHINE IMPLEMENTS

A2021/00515 - STASHER, INC. Class 7. CONTAINER

A2021/00519 - Caterpillar Inc. Class 15. ADAPTERS FOR MACHINE IMPLEMENTS

- APPLIED ON 5/18/2021 -

A2021/00522 - DREAM AFRICAN FOUNDATION (PTY) LTD Class 25. SAFETY BARRIER

F2021/00523 - DREAM AFRICAN FOUNDATION (PTY) LTD Class 25. SAFETY BARRIER

A2021/00526 - DREAM AFRICAN FOUNDATION (PTY) LTD Class 25. SAFETY BARRIER

F2021/00525 - DREAM AFRICAN FOUNDATION (PTY) LTD Class 25. SAFETY BARRIER

F2021/00527 - DREAM AFRICAN FOUNDATION (PTY) LTD Class 25. SAFETY BARRIER

A2021/00524 - DREAM AFRICAN FOUNDATION (PTY) LTD Class 25. SAFETY BARRIER

- APPLIED ON 5/19/2021 -

A2021/00528 - APPLE INC. Class 3. ACCESSORY FOR AN ELECTRONIC DEVICE

A2021/00530 - APPLE INC. Class 3. ACCESSORY FOR AN ELECTRONIC DEVICE

A2021/00532 - QUINLAN, Stephen John Class 02. GLOVE ACCESSORY

A2021/00535 - QUINLAN, Stephen John Class 02. GLOVE ACCESSORY

A2021/00534 - QUINLAN, Stephen John Class 02. GLOVE ACCESSORY

A2021/00529 - APPLE INC. Class 14. ELECTRONIC DEVICE

A2021/00531 - QUINLAN, Stephen John Class 02. GLOVE ACCESSORY

A2021/00533 - QUINLAN, Stephen John Class 02. GLOVE ACCESSORY

- APPLIED ON 5/20/2021 -

A2021/00538 - EMET GYMS (PTY) LTD. Class 21. SET OF WEIGHT BAGS

A2021/00540 - PROVEST GROUP (PTY) LTD Class 08. EXTENSION POLE FOR GROUT TESTER

F2021/00536 - BOITUMELO Class 14. KEYBOARD

A2021/00537 - BOITUMELO Class 14. KEYBOARD

F2021/00539 - PROVEST GROUP (PTY) LTD Class 08. EXTENSION POLE FOR GROUT TESTER

A2021/00541 - Bolt Technology O&#252; Class 12. MOTOR SCOOTER

- APPLIED ON 5/21/2021 -

A2021/00544 - Antonio Puig, S.A. Class 9. BOTTLES

A2021/00545 - HUNT MASTER PTY LTD Class 22. SPEARGUN HANDLE

A2021/00549 - JOCKEY INTERNATIONAL, INC. Class 2. UNDERGARMENT

F2021/00542 - NIEMAND, Jacobus Machiel Class 23. HYDRAULIC FITTINGS

A2021/00547 - REGENERON PHARMACEUTICALS, INC. Class 24. DOSE DELIVERY DEVICE

A2021/00548 - REGENERON PHARMACEUTICALS, INC. Class 24. DOSE DELIVERY DEVICE

A2021/00550 - SAMKELO NYAKAMBI Class 09. SAMKELO NYAKAMBI

F2021/00543 - NIEMAND, Jacobus Machiel Class 23. HYDRAULIC FITTINGS

A2021/00546 - REGENERON PHARMACEUTICALS, INC. Class 24. DOSE DELIVERY DEVICE

**APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT**

Notice is hereby given that **THE PLANTATION SHUTTER PROPRIETARY LIMITED** of no: **8 Josias Blanckenberg Road Atlantis, Cape Town 7349, South Africa** has made application for the restoration of the design registered to the said **THE PLANTATION SHUTTER PROPRIETARY LIMITED** for the Design **STRUCTURAL ELEMENTS FOR SHUTTERS** application number **F2013/01348** date **25/05/2013** which become void on **25/07/2020** due to non-payment of the prescribed renewal fee.

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

**Registrar of Designs**

Notice is hereby given that **BLOCKHOUSE SHUTTER PROPRIETARY LIMITED** of no: **4 Neil Hare Road, Atlantis, Cape Town 7349, South Africa** has made application for the restoration of the design registered to the said **BLOCKHOUSE SHUTTER PROPRIETARY LIMITED** for the Design **CONSTRUCTION ELEMENTS** application number **F2016/01239** date **25/08/2016** which become void on **01/03/2020** due to non-payment of the prescribed renewal fee.

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

**Registrar of Designs**

Notice is hereby given that **BLOCKHOUSE SHUTTER PROPRIETARY LIMITED** of no: **4 Neil Hare Road, Atlantis, Cape Town 7349, South Africa** has made application for the restoration of the design registered to the said **BLOCKHOUSE SHUTTER PROPRIETARY LIMITED** for the Design **CONSTRUCTION ELEMENTS** application number **F2016/01238** date **25/08/2016** which become void on **01/03/2020** due to non-payment of the prescribed renewal fee.

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

**Registrar of Designs****APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION**

No records available

**NOTICE OF REGISTRATION OF DESIGNS**

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

**INSPECTION OF DESIGNS**

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

**COPIES OF DOCUMENTS**

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page. (Payment to be affected by revenue stamps only.)

The numerical references denote the following: **(21)** Number of application. **(22)** Date of lodgement. **(23)** release date (if applicable). **(DR)** Date of registration. **(52)** Class. **(24)** Type of design. **(71)** Name(s) of applicant(s). **(33)** Country. **(31)** Number and. **(32)** Date of convention application. **(54)** Articles to which design is to be applied. **(57)** Brief statement of features.

**N.B.:** Date of registration (DR) is either Date of lodgement (22) or Date of convention of application (32) whichever is the earlier.

**Registrar of Designs**

21: A2019/00158 22: 2019-01-30 23:

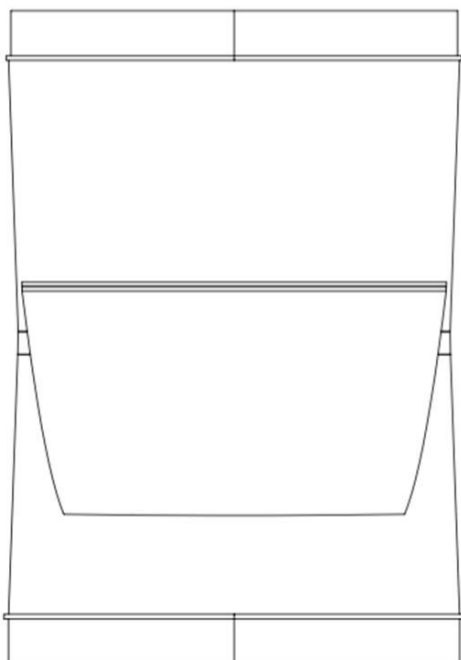
43: 2021-04-12

52: Class 23 24: Part A

71: SELEBALO MOGALE MALEKA, TUMELO BENEDICT PULE

**54: HYDROPONICS PLANTER**

57: The Design is embodied by: 1. A planter – This is embodied by two vertical liquid ducts and a liquid reservoir. 2. A Lid – Used to enclose the reservoir and provide mechanical support to the plant. 3. A Netted cup – To house the plant. 4. A drainage plug – Used to drain liquid out of the reservoir. 5. A bottom joint – Used to channel liquid out of the planter. 6. A top joint – Used to channel liquid into the planter. 7. A liquid channeler – Used to channel liquid from the vertical duct into the reservoir.



21: A2019/00434 22: 2019-04-02 23:

43: 2021-03-04

52: Class 10 24: Part A

71: AJAX SYSTEMS CYPRUS HOLDINGS LTD

33: WO 31: WIPO78030 32: 2018-12-10

**54: SECURITY CONTROL HUB**

57: Protection is claimed for the aesthetic features and/or the configuration of a security control hub monitoring device as shown in the accompanying representations. The device monitors operation of all active detectors, collects information and immediately sends an alarm signal to the owner and a central monitoring station in just milliseconds. The device uses radio technology to monitor the detectors and ensure a quick response to danger. It switches the entire system to clear frequencies during jamming. The device is protected against viruses at software level.



21: A2019/00829 22: 2019-06-19 23:

43: 2021-03-04

52: Class 10 24: Part A

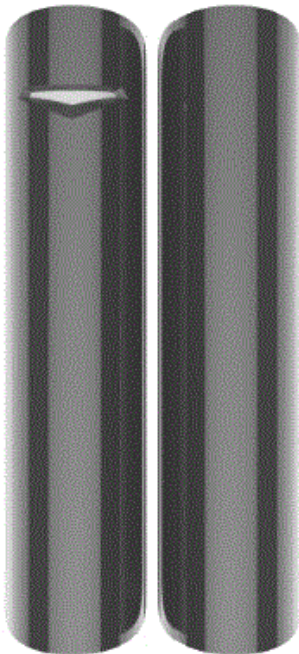
71: AJAX SYSTEMS CYPRUS HOLDINGS LTD

33: WO 31: WIPO78623 32: 2018-12-22

**54: DOOR PROTECT SENSOR**

57: Protection is claimed for the aesthetic features and/or the configuration of a door protection sensor

device as shown in the accompanying representations. The wireless opening detector notifies of first signs of room intrusion by means of a broken door or window. It can be mounted on all types of doors including a metal base. The device detects the door or window being opened by means of British-made hi-end reed switches on which the magnetic field acts. It can operate in the transmitter mode, sending a signal from the wired sensor to a central hub. The device consists of two modules — detector and magnet. The set includes two magnets: the big magnet is installed at a distance of up to 2 cm, and the small magnet up to 1 cm.



21: A2019/01093 22: 2019-08-08 23: 43: 2019-02-11  
 52: Class 7 24: Part A  
 71: Joseph Joseph Ltd  
 33: EM(GB) 31: 006221529-0001 32: 2019-02-11

**54: CHOPPING BOARDS WITH CASES**

57: The design is for chopping boards with a case. The case is box-like with an open top and a flat base comprising a grid. The open top is defined by a slanted rectangular edge. Four rectangular chopping boards are provided inside the case such that a free major edge of each board is visible. A central D-shaped cutout is provided in the visible edge of each board. A handlebar spans the cutout-area in each board.

21: A2019/01476 22: 2019-10-04 23: 43: 2019-04-05  
 52: Class 15 24: Part A

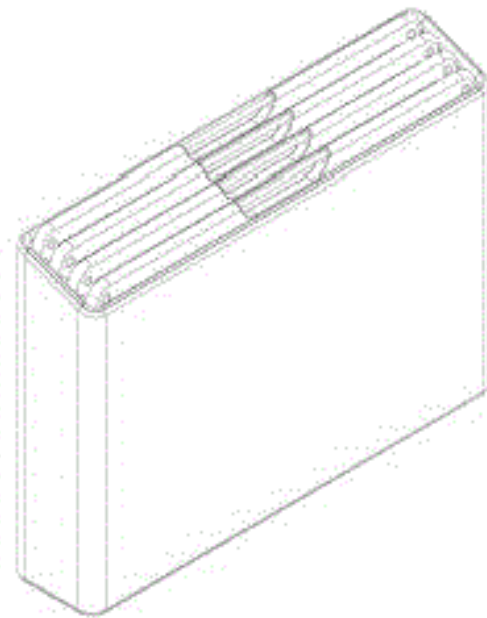


Figure 1  
 Three-dimensional view

21: A2019/01151 22: 2019-08-23 23: 43: 2021-03-04  
 52: Class 12 24: Part A  
 71: HYUNDAI MOTOR COMPANY, KIA MOTORS CORPORATION  
 33: KR 31: 30-2019-0009038 32: 2019-02-27

**54: AUTOMOBILE**

57: The representation shows a perspective view of the automobile showing the overall appearance thereof.



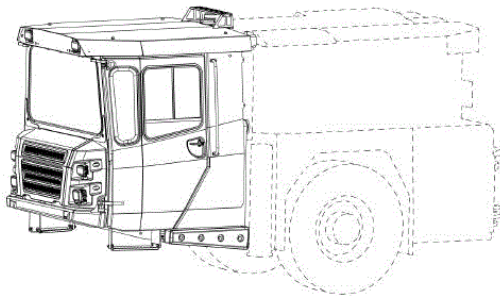
21: A2019/01476 22: 2019-10-04 23: 43: 2019-04-05  
 52: Class 15 24: Part A

71: Normet Oy

33: EM(FI) 31: 006371134-0001 32: 2019-04-05

**54: CONSTRUCTION AND MINING MACHINERY**

57: The design relates to construction and mining machinery. In particular, the design relates to a cabin for a construction and mining vehicle. The cabin comprises an operatively lower engine compartment and an operatively upper passenger compartment. A large, centrally located radiator grille is provided on a front end of the cabin below a windscreen. The radiator grille has a lower edge and side edges which diverge outwardly and upwardly away from the lower edge. A headlight cluster is provided on either side of the radiator grille. A front bumper is mounted to the engine compartment below the radiator grille. The passenger compartment includes a flat roof, a pair of opposing sidewalls, each having a door with windows, and a rear wall. A U-shaped step support extends from an operatively lower edge of each sidewall. An operatively vertical handrail is provided proximate each door.



21: A2019/01488 22: 2019-10-07 23:

43: 2019-04-08

52: Class 15 24: Part A

71: Normet Oy

33: EM(FI) 31: 006371258-0001 32: 2019-04-08

**54: CONSTRUCTION AND MINING MACHINERY**

57: The design relates to a construction and mining vehicle or tractor. The vehicle comprises a large engine compartment, which forms an operatively lower base of the vehicle, having a front end, opposing sidewalls, a rear end and a flat top wall. The front end comprises a plurality of panels with a headlight cluster proximate upper front corners thereof. Each sidewall accommodates an oversized wheel which extends approximately the entire height of the sidewall. A hitch is provided on the rear end to attach a towed vehicle. A compact passenger compartment, comprising a flat roof, a pair of opposing sidewalls, a front windscreen and rear wall, stands proud of the engine compartment and is

offset to the left such that one sidewall of the passenger compartment, comprising a door and windows, is integrated into the sidewall of the engine compartment.

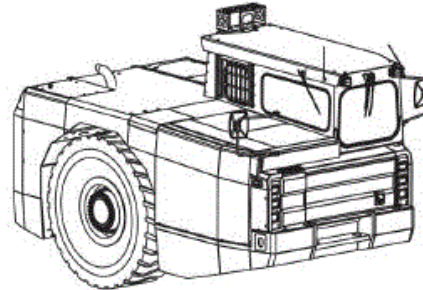


Figure 1

Three-dimensional view

21: A2019/01489 22: 2019-10-07 23:

43: 2019-04-08

52: Class 15 24: Part A

71: Normet Oy

33: EM(FI) 31: 006371258-0002 32: 2019-04-08

**54: CONSTRUCTION AND MINING MACHINERY**

57: The design relates to a vehicle for construction and mining. The vehicle comprises a draught vehicle and a towed vehicle or dumper hitched thereto. The draught vehicle comprises a large squat engine compartment, having a front and a rear end, opposing sidewalls and a flat top wall, which surrounds an operatively lower base of a cabin. Each sidewall of the engine compartment accommodates an oversized wheel which extends approximately for the entire height of the sidewall. A compact passenger compartment stands proud of the engine compartment and is offset to the left such that a sidewall of the passenger compartment, comprising a door and windows, is integrated into the sidewall of the engine compartment. The dumper comprises a loading platform supported on a wheeled chassis. Sidewalls extend from operative side and front edges of the loading platform.

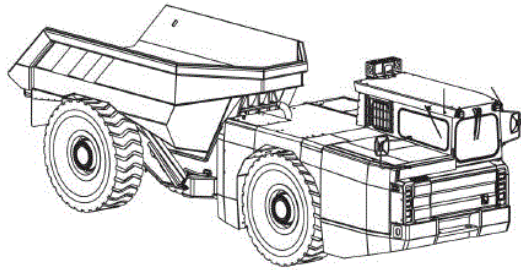


Figure 1

Three-dimensional view



21: A2019/01560 22: 2019-10-23 23:  
43: 2021-03-04  
52: Class 9 24: Part A  
71: FRONT RUNNER RACKS 2000 (PTY) LTD  
**54: A BOX CONTAINER TO BE TRANSPORTED  
ON A ROOF RACK**

57: The design relates to a Box Container to be Transported on a Roof Rack. Protection is claimed for the features of shape and/or configuration of a Box Container to be Transported on a Roof Rack as shown in the accompanying representations.

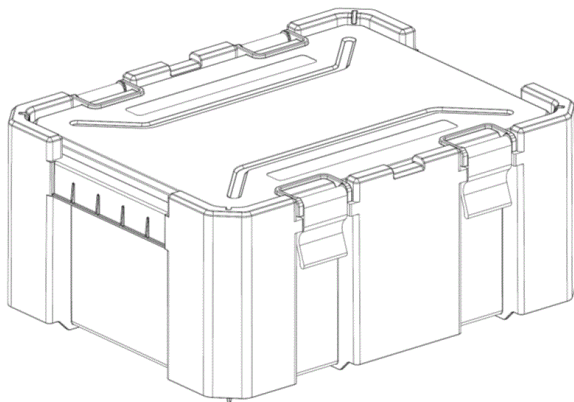
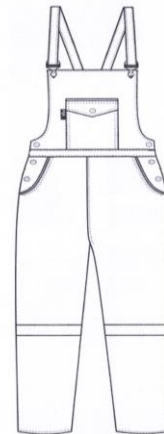


Figure 5

21: A2019/01616 22: 2019-10-29 23:  
43: 2021-05-03  
52: Class 02 24: Part A  
71: SELECT PPE (PTY) LTD  
**54: OVERALL**

57: The novelty of the design resides in the shape and/or configuration and/or pattern and/or ornamentation of the overall substantially as shown in the accompanying drawings.

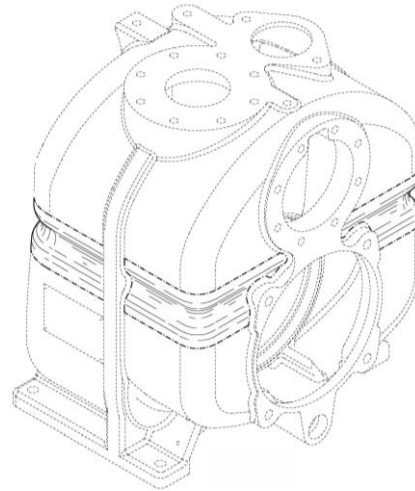


21: A2019/01592 22: 2019-10-25 23:  
43: 2021-03-04  
52: Class 10 24: Part A  
71: AJAX SYSTEMS CYPRUS HOLDINGS LTD  
33: WO 31: WIPO 87759 32: 2019-09-25  
**54: SMOKE DETECTOR**

57: Protection is claimed for the aesthetic features and/or the configuration of a smoke detector as shown in the accompanying representations here below.

21: A2019/01737 22: 2019-11-29 23:  
43: 2020-07-21  
52: Class 15 24: Part A  
71: THE GORMAN-RUPP COMPANY  
33: US 31: 29/695,510 32: 2019-06-19  
**54: PUMP HOUSING**

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the pump housing substantially as shown in the accompanying representations irrespective of the appearance of the features in dashed lines. The pump housing includes an inventive waistband, which is a decorative indented portion around the middle of the pump.

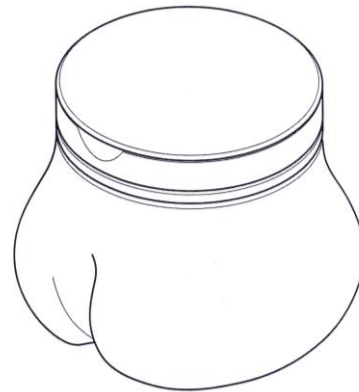


21: A2019/01884 22: 2019-12-18 23:  
43: 2021-05-03  
52: Class 09 24: Part A  
71: BUMZUP (PTY) LTD  
**54: CONTAINER**

57: The novelty of the design resides in the shape or configuration of a container substantially as shown in the accompanying representation.

21: A2019/01738 22: 2019-11-29 23:  
43: 2021-03-04  
52: Class 15 24: Part A  
71: THE GORMAN-RUPP COMPANY  
33: US 31: 29/695,510 32: 2019-06-19  
**54: PUMP HOUSING**

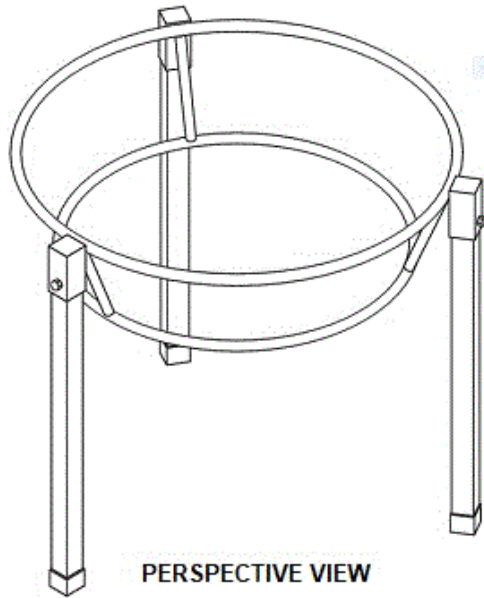
57: The features of the design for which protection is claimed reside in the shape and/or configuration of the pump housing substantially as shown in the accompanying representations irrespective of the appearance of the features in dashed lines. The pump housing includes an inventive waistband, which is a decorative indented portion around the middle of the pump.



21: A2020/00065 22: 2020-01-23 23:  
43: 2021-03-18  
52: Class 7. 24: Part A  
71: ROOS, WILLEM LODEWICUS  
**54: Stand**

57: The design relates to a stand. The features of the design are those of shape and/or configuration.



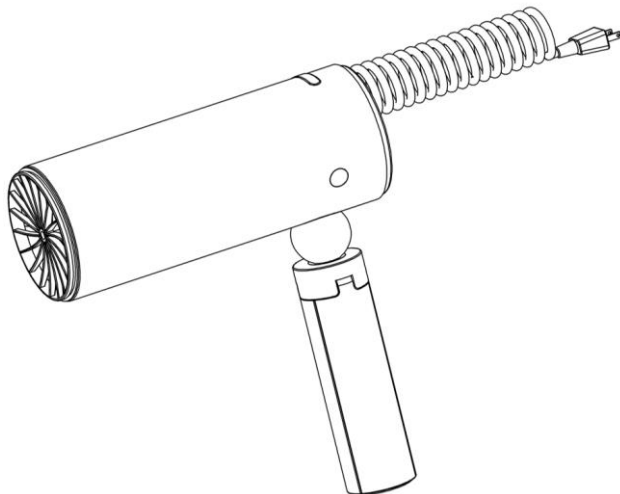


PERSPECTIVE VIEW

21: A2020/00165 22: 2020-02-12 23:  
43: 2021-03-17  
52: Class 28 24: Part A  
71: WANG, Xiaobing, LI, Liangqing  
33: CN 31: 201930471110.X 32: 2019-08-28

**54: HAIR DRYER**

57: The design is applied to a hair dryer. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the hair dryer, substantially as illustrated in the accompanying representation.

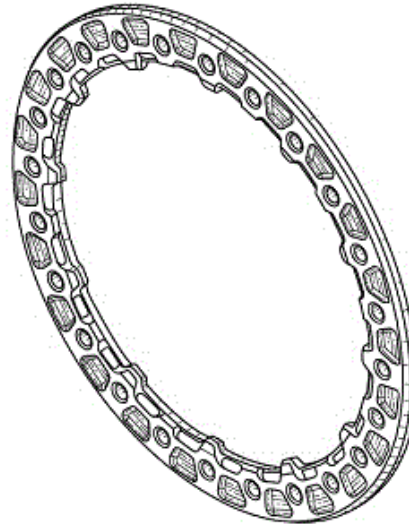


21: A2020/00170 22: 2020-02-12 23:  
43: 2021-03-24  
52: Class 12. 24: Part A

71: WHEEL PROS, LLC  
33: US 31: 29/723,131 32: 2020-02-04

**54: Bead Lock**

57: The design relates to a bead lock. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/00236 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part A  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86752 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container in the form of a carton, comprising a rectangular body having a front wall and a rear wall separated by opposing side walls that extend upwardly from a square base. At a top portion, the front wall and rear wall incline inwardly at a lateral fold line, converging at a second lateral fold line and forming a rectangular flattened closing means at a top of the body. At the top portion, the side walls have a triangular profile. The front wall and rear wall each include a rectangular element at the top portion.

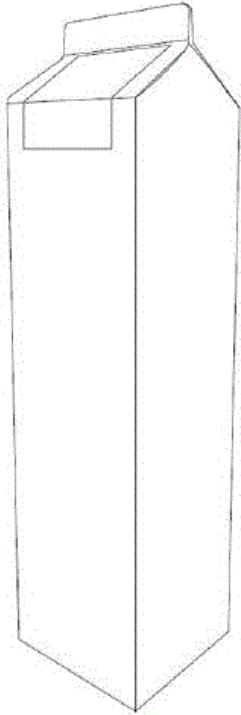


Figure 1

Three-dimensional view

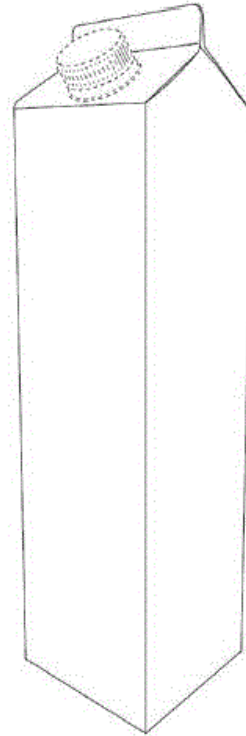


Figure 1

Three-dimensional view

21: A2020/00237 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part A  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86752 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container in the form of a carton, comprising a rectangular body having a front wall and a rear wall separated by opposing side walls that extend upwardly from a square base. At a top portion, the front wall and rear wall incline inwardly at a lateral fold line, converging at a second lateral fold line and forming a rectangular flattened closing means at a top of the body. An inclined portion of the front wall allows for a cap to be attached. At the top portion, the side walls have a triangular profile.

21: A2020/00238 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part A  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86756 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container comprising a square prism body having a front wall and a rear wall separated by opposing side walls that extend operatively upwardly from a square base. The front and rear wall each has a first and a second lateral fold-line towards an operative upper end of the respective wall. The first lateral fold-line is spaced from and is operatively lower than the second lateral fold-line. The first lateral fold-line on the front wall is concave upward in shape. The front and rear wall incline inwardly at the first lateral fold-line to converge at the second lateral fold-line to form a rectangular flattened tab at an operative upper end of the body.

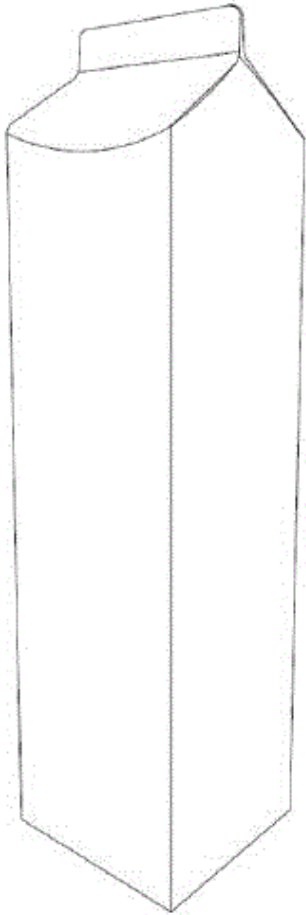


Figure 1

Three-dimensional view

21: A2020/00242 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part A  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86757 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container, in the form of a carton, having four elongate side walls joined to make a rectangular body with a mostly square horizontal cross-section. Two opposing sidewalls each have an inclined sidewall extension at an apex of the container. The side wall extensions are joined to form a pointed top of the container. The two remaining side walls each have a planar triangular top portion which meets the opposing sides of the pointed top. A central, rectangular opening tab is located on one of the sidewall extensions.

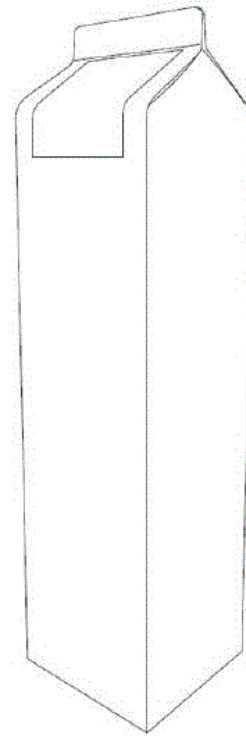


Figure 1

Three-dimensional view

21: A2020/00243 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part A  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86757 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container, in the form of a carton, having four elongate side walls joined to make a rectangular body with a generally square horizontal cross-section. Two opposing sidewalls each have an inclined sidewall extension at an apex of the container. The side wall extensions are joined to form a pointed top of the container. The two remaining side walls each have a planar triangular upper portion which meets the opposing side wall extensions of the top. A disclaimed cylindrical knurled cap is centrally located on one of the sidewall extensions.

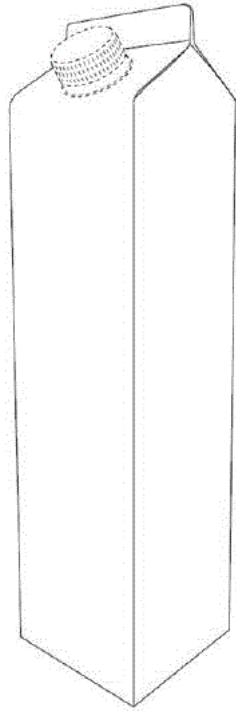


Figure 1

Three-dimensional view

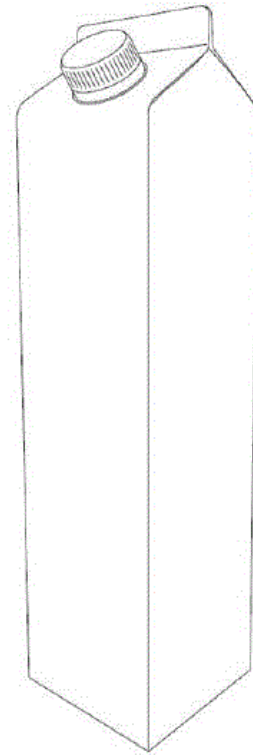


Figure 1

Three-dimensional view

21: A2020/00244 22: 2020-02-26 23:  
 43: 2019-08-26  
 52: Class 9 24: Part A  
 71: Elopak AS  
 33: HSIRID(NO) 31: WIPO86757 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container, in the form of a carton, having four elongate side walls joined to make a rectangular body with a mostly square horizontal cross-section. Two opposing sidewalls each have an inclined sidewall extension at an apex of the container. The side wall extensions are joined to form a pointed top of the container. The two remaining side walls each have a planar triangular upper portion which meets the opposing side wall extensions of the top. A cylindrical knurled cap is centrally located on one of the sidewall extensions.

21: A2020/00245 22: 2020-02-26 23:  
 43: 2019-08-26  
 52: Class 9 24: Part A  
 71: Elopak AS  
 33: HSIRID(NO) 31: WIPO86757 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container, in the form of a carton, having four elongate side walls joined to make a rectangular body with a mostly square horizontal cross-section. Two opposing sidewalls each have an inclined sidewall extension at an apex of the container. The side wall extensions are joined to form a pointed top of the container. The two remaining side walls each have a planar triangular upper portion which meets the opposing side wall extensions of the pointed top. The pointed top can be opened.

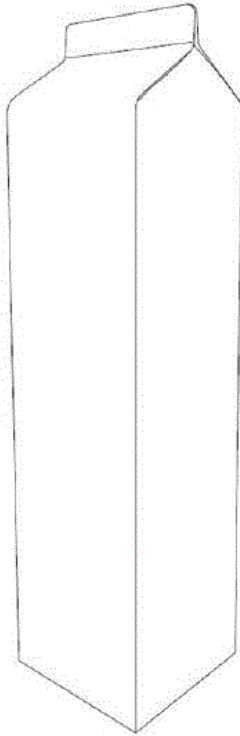


Figure 1

Three-dimensional view

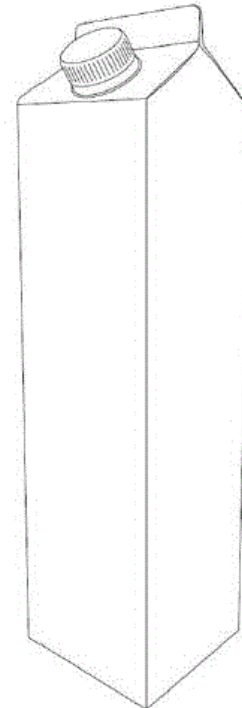


Figure 1

Three-dimensional view

21: A2020/00248 22: 2020-02-26 23:  
 43: 2019-08-26  
 52: Class 9 24: Part A  
 71: Elopak AS  
 33: HSIRID(NO) 31: WIPO86752 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container in the form of a carton, comprising a rectangular body having a front wall and a rear wall separated by opposing side walls that extend upwardly from a square base. At a top portion, the front wall and rear wall incline inwardly at a lateral fold line, converging at a second lateral fold line and forming a rectangular flattened closing means at a top of the body. An inclined surface of the front wall includes a centrally positioned raised circular cap having a side wall that includes a plurality of vertical gripping formations. At the top portion, the side walls have a triangular profile.

21: A2020/00250 22: 2020-02-26 23:  
 43: 2019-08-26  
 52: Class 9 24: Part A  
 71: Elopak AS  
 33: HSIRID(NO) 31: WIPO86758 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container comprising a square prism body having a front wall and a rear wall separated by oppositely located side walls that extend operatively upwardly from a square base. The front and rear wall, respectively, inclines inwardly and operatively upwardly towards a lateral fold-line at an operative upper portion of the wall. The front and rear walls converge at the lateral fold-line to form a rectangular flattened closing means in the form of a tab at an operative upper end of the body. Each side wall has a triangular profile at an operative upper end thereof. The front wall includes a rectangular element at an operative upper end portion thereof.

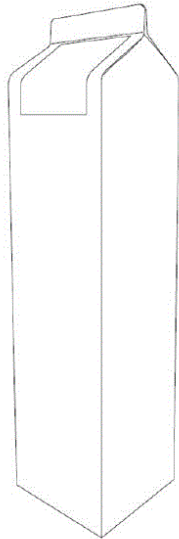


Figure 1  
Three-dimensional view

21: A2020/00251 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part A  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86758 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container comprising a square prism body having a front wall and a rear wall separated by oppositely located side walls that extend operatively upwardly from a square base. The front and rear wall, respectively, inclines inwardly and operatively upwardly towards a lateral fold-line at an operative upper portion of the wall. The front and rear walls converge at the lateral fold-line to form a rectangular flattened closing means in the form of a tab at an operative upper end of the body. Each side wall has a triangular profile at an operative upper end thereof. A circular cap with a knurled circumferential surface may cover a central outlet at the inclined portion of the front wall.

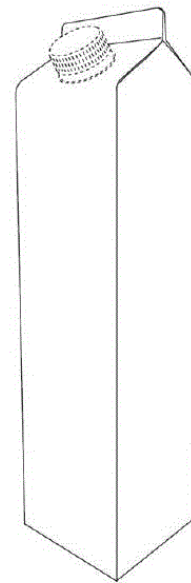


Figure 1  
Three-dimensional view

21: A2020/00252 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part A  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86758 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container comprising a square prism body having a front wall and a rear wall separated by oppositely located side walls that extend operatively upwardly from a square base. The front and rear wall, respectively, inclines inwardly and operatively upwardly towards a lateral fold-line at an operative upper portion of the wall. The front and rear walls converge at the lateral fold-line to form a rectangular flattened closing means in the form of a tab at an operative upper end of the body. Each side wall has a triangular profile at an operative upper end thereof. A circular cap with a knurled circumferential surface covers a central outlet at the inclined portion of the front wall.

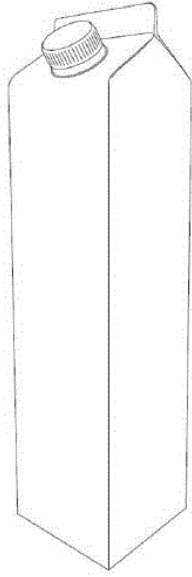


Figure 1

Three-dimensional view

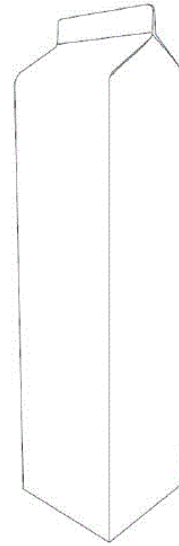


Figure 1

Three-dimensional view

21: A2020/00253 22: 2020-02-26 23:  
 43: 2019-08-26  
 52: Class 9 24: Part A  
 71: Elopak AS  
 33: HSIRID(NO) 31: WIPO86758 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container comprising a square prism body having a front wall and a rear wall separated by oppositely located side walls that extend operatively upwardly from a square base. The front and rear wall, respectively, inclines inwardly and operatively upwardly towards a lateral fold-line at an operative upper portion of the wall. The front and rear walls converge at the lateral fold-line to form a rectangular flattened tab at an operative upper end of the body. Each side wall has a triangular profile at an operative upper end thereof.

21: A2020/00257 22: 2020-02-26 23:  
 43: 2019-08-26  
 52: Class 9 24: Part A  
 71: Elopak AS  
 33: HSIRID(NO) 31: WIPO86752 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container in the form of a carton, comprising a rectangular body having a front wall and a rear wall separated by opposing side walls that extend upwardly from a square base. At a top portion, the front wall and rear wall incline inwardly at a lateral fold line, converging at a second lateral fold line and forming a rectangular flattened closing means at a top of the body that can be opened. At the top portion, the side walls have a triangular profile.

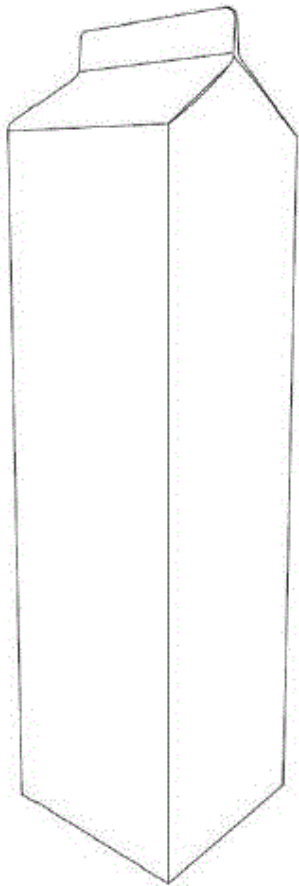


Figure 1

Three-dimensional view

end thereof. The front wall includes a rectangular element at its operative upper end which extends across the first lateral fold-line.

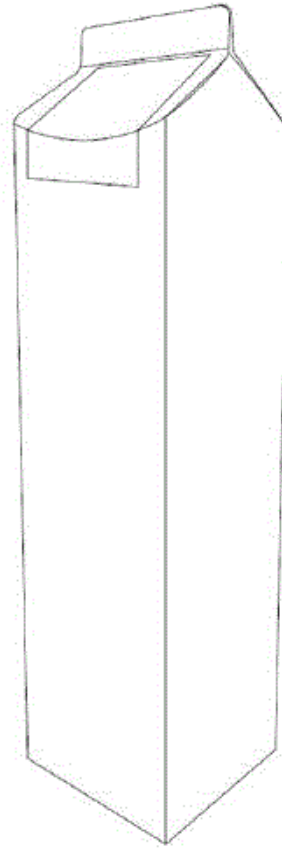


Figure 1

Three-dimensional view

21: A2020/00261 22: 2020-02-26 23:  
43: 2019-08-26

52: Class 9 24: Part A

71: Elopak AS

33: HSIRID(NO) 31: WIPO86756 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container comprising a square prism body having a front wall and a rear wall separated by opposing side walls that extend operatively upwardly from a square base. The front and rear wall each has a first and a second lateral fold-line towards an operative upper end of the respective wall. The first lateral fold-line is spaced from and is operatively lower than the second lateral fold-line. The first lateral fold-line on the front wall is concave upward in shape. The front and rear wall incline inwardly at the first lateral fold-line to converge at the second lateral fold-line to form a rectangular flattened closing means in the form of a tab at an operative upper end of the body. Each side wall has a triangular profile at an operative upper

21: A2020/00262 22: 2020-02-26 23:  
43: 2019-08-26

52: Class 9 24: Part A

71: Elopak AS

33: HSIRID(NO) 31: WIPO86756 32: 2019-08-26

**54: CONTAINERS**

57: The design is for a container comprising a square prism body having a front wall and a rear wall separated by opposing side walls that extend operatively upwardly from a square base. The front and rear wall each has a first and a second lateral fold-line towards an operative upper end of the respective wall. The first lateral fold-line is spaced from and is operatively lower than the second lateral fold-line. The first lateral fold-line on the front wall is concave upward in shape. The front and rear wall incline inwardly at the first lateral fold-line to converge at the second lateral fold-line to form a rectangular flattened closing means in the form of a



tab at an operative upper end of the body. A circular cap with a knurled circumferential surface may cover a central outlet at the inclined portion of the front wall.

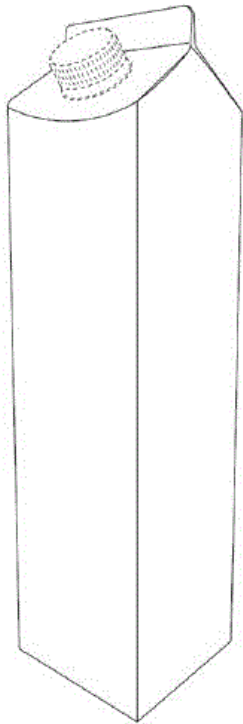


Figure 1

Three-dimensional view

fold-lines on the front wall. Each side wall has a triangular operative upper profile.

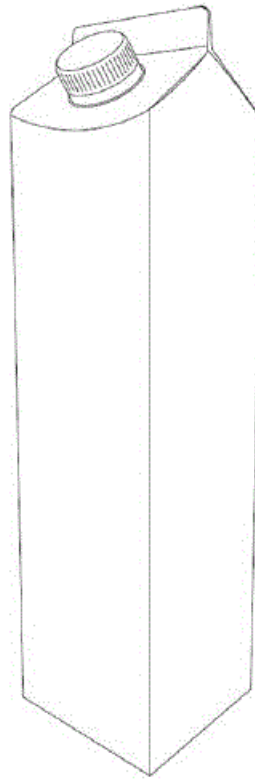


Figure 1

Three-dimensional view

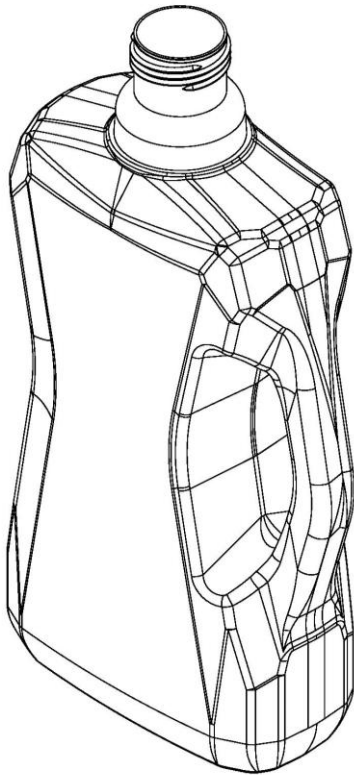
21: A2020/00263 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part A  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86756 32: 2019-08-26

#### 54: CONTAINERS

57: The design is for a container comprising a square prism body having a front wall and a rear wall separated by opposing side walls that extend operatively upwardly from a square base. The front and rear wall each has a first and a second lateral fold-line towards an operative upper end of the respective wall. The first lateral fold-line is spaced from and is operatively lower than the second lateral fold-line. The first lateral fold-line on the front wall is concave upward in shape. The front and rear wall incline inwardly at the first lateral fold-line to converge at the second lateral fold-line to form a rectangular flattened closing means in the form of a tab at an operative upper end of the body. A circular lid cap with a knurled circumferential surface covers a central outlet between the first and second lateral

21: A2020/00307 22: 2020-03-05 23:  
43: 2021-03-24  
52: Class 09 24: Part A  
71: POLOKWANE CHEMICAL SUPPLIERS  
54: CONTAINER

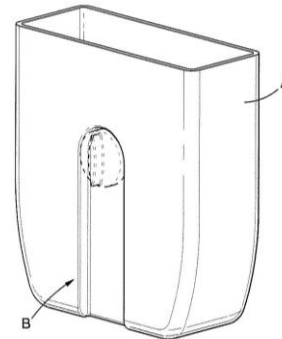
57: The features of the design for which novelty is claimed are the shape and/or configuration and/or pattern and/or ornamentation of a container as shown in the accompanying representations



43: 2021-04-15  
 52: Class 23 24: Part A  
 71: HENTINA TRUST

**54: CISTERN**

57: The design is to be applied to a cistern (A). The features of the design for which protection is claimed comprise the shape and/or configuration of the cistern (A), substantially as illustrated in the accompanying drawings.

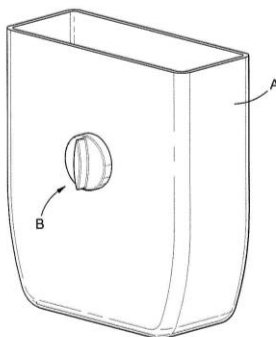


TOP PERSPECTIVE VIEW

21: A2020/00321 22: 2020-03-10 23:  
 43: 2021-04-15  
 52: Class 23 24: Part A  
 71: HENTINA TRUST

**54: CISTERN**

57: The design is to be applied to a cistern (A). The features of the design for which protection is claimed comprise the shape and/or configuration of the cistern (A), substantially as illustrated in the accompanying drawings.



TOP PERSPECTIVE VIEW

21: A2020/00448 22: 2020-05-04 23:  
 43: 2019-11-04  
 52: Class 12 24: Part A  
 71: Truck Accessories Group, LLC  
 33: US 31: 29/711,962 32: 2019-11-04

**54: VEHICLE ACCESSORIES**

57: The design is for a truck cap which fits over the truck bed or cargo box of a pickup truck. The cap has a top surface, with two generally perpendicular side surfaces extending from the top surface along with a hinged door that extends from one end of the top surface and when in a closed configuration the door is generally perpendicular to the top surface and meets the edges of the side surfaces converting the open-air truck bed or cargo box into an accessible closed space. The door hingedly opens and closes to allow or prevent access to the truck bed or cargo. The cap includes a video mount that is selectively extendable and retractable with respect to the cap. An audio system is also attached to the cap. Door hinges attached to both the cap and cap door are configured to hingedly open and close same.

21: A2020/00322 22: 2020-03-10 23:

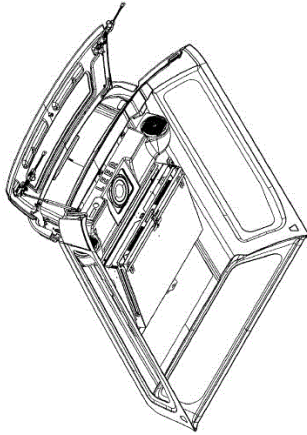


Figure 15

Three-dimensional view with the rear hatch in the open condition, the monitor mount in an undeployed configuration and with an audio system

21: A2020/00473 22: 2020-05-04 23:  
43: 2019-11-20  
52: Class 28 24: Part A  
71: Dorco Co., Ltd.  
33: KR 31: 30-2019-0055419 32: 2019-11-20

**54: RAZORS**

57: The design is for a razor, comprising an elongate handle tapering gently from a rounded base to a neck and a flaring outwardly to a rearwardly inclined rounded head. A round concavely curved gripping surface projects from a front of the head. A rear wall of the gripping surface has a greater height than a front of the gripping surface. Central portions of side walls of the head are U-shaped and project outwardly.

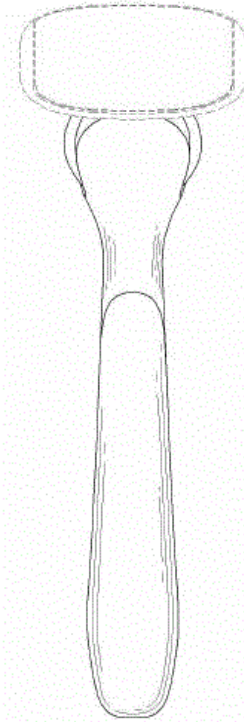


Figure 3

Rear view

21: A2020/00474 22: 2020-05-04 23:  
43: 2019-12-03  
52: Class 28 24: Part A  
71: Dorco Co., Ltd.  
33: KR 31: 30-2019-0058177 32: 2019-12-03

**54: RAZOR HANDLES**

57: The design is for a razor handle, comprising an elongate handle flaring gently from a rounded base to a shoulder portion, a tapered neck, and a rearwardly inclined triangular head. A rounded rectangular gripping surface with a smaller nested rounded rectangular operating member projects from a front of the head. A rear surface of the razor handle bulges outwardly from the neck to the handle.

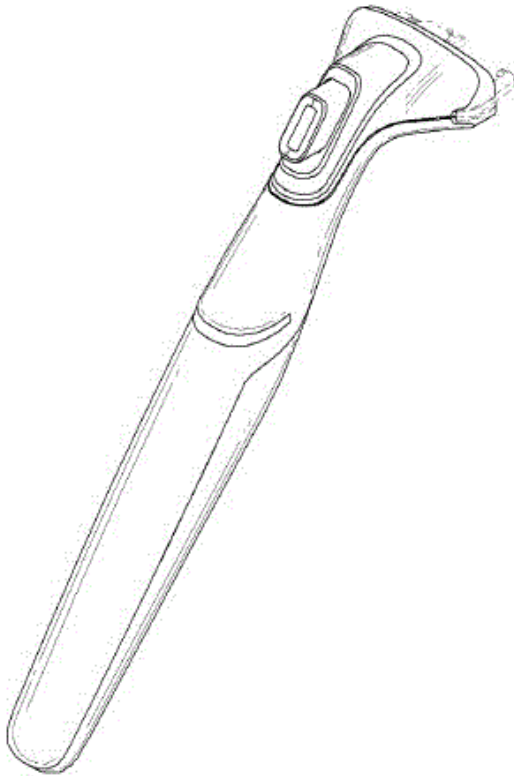
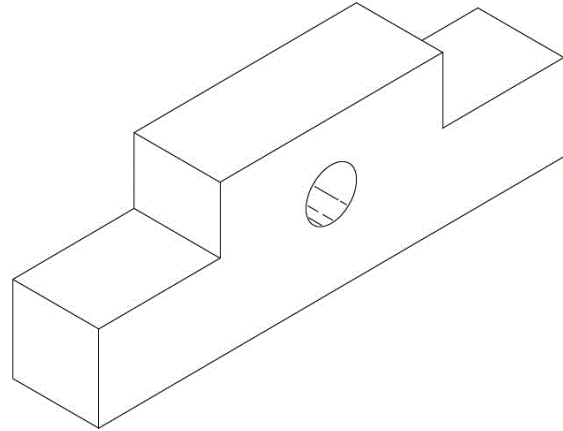


Figure 1

Three-dimensional view



21: A2020/00549 22: 2020-05-07 23:  
43: 2020-05-07  
52: Class 31 24: Part A  
71: ZHEUNG, Gordon

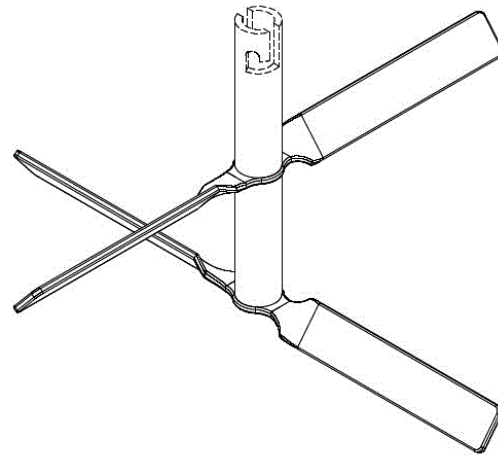
**54: AGITATOR**

57: The design is applied to an agitator substantially as illustrated in the accompanying representations.

21: A2020/00512 22: 2020-05-04 23:  
43: 2020-05-04  
52: Class 25 24: Part A  
71: MATLAUPANE, Palesa Bohlale

**54: BRICK**

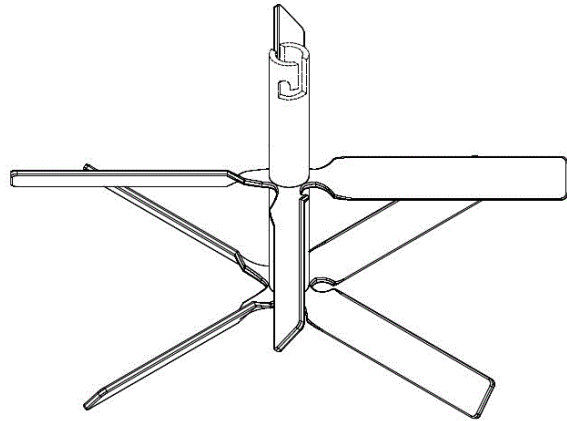
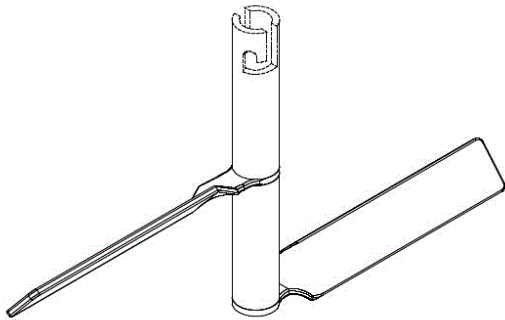
57: The design is applied to a brick substantially as illustrated in the accompanying representations. The brick comprises a body having a front major face and an opposite rear major face, and the body defines openings on the front and major faces, the openings being disposed substantially at the centre of the brick and a passageway extending between the openings. The distance between the border of any of the openings and any of the edges of the brick is at least equivalent to the distance between the centre of the opening and the border of the opening.



21: A2020/00551 22: 2020-05-07 23:  
43: 2020-05-07  
52: Class 31 24: Part A  
71: ZHEUNG, Gordon

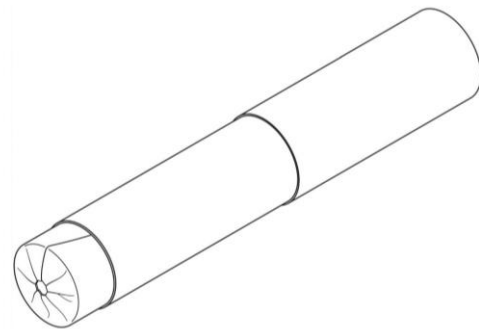
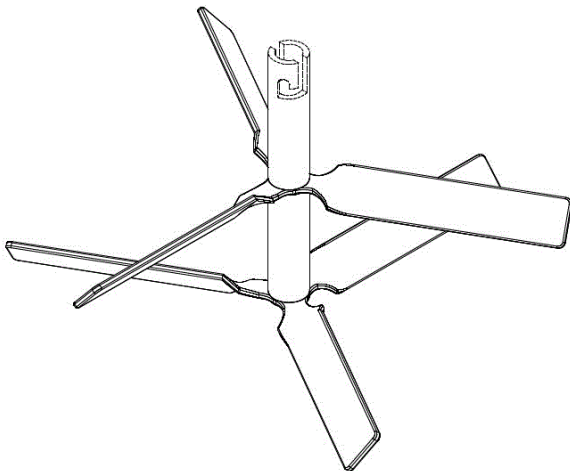
**54: AGITATOR**

57: The design is applied to an agitator substantially as illustrated in the accompanying representations.



21: A2020/00553 22: 2020-05-07 23:  
43: 2020-05-07  
52: Class 31 24: Part A  
71: ZHEUNG, Gordon  
**54: AGITATOR**  
57: The design is applied to an agitator substantially as illustrated in the accompanying representations.

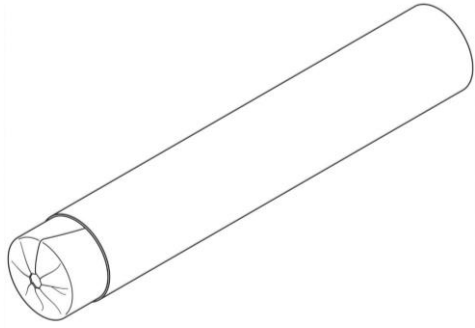
21: A2020/00557 22: 2020-05-08 23:  
43: 2021-03-17  
52: Class 27 24: Part A  
71: PHILIP MORRIS PRODUCTS S.A.  
33: EU 31: 007213236 32: 2019-11-11  
**54: AEROSOL GENERATING DEVICE**  
57: The design is to be applied to an aerosol generating mask. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations.



PERSPECTIVE VIEW IN BEFORE USE STATE

21: A2020/00555 22: 2020-05-07 23:  
43: 2020-05-07  
52: Class 31 24: Part A  
71: ZHEUNG, Gordon  
**54: AGITATOR**  
57: The design is applied to an agitator substantially as illustrated in the accompanying representations.

21: A2020/00558 22: 2020-05-08 23:  
43: 2021-03-17  
52: Class 27 24: Part A  
71: PHILIP MORRIS PRODUCTS S.A.  
33: EU 31: 007213236 32: 2019-11-11  
**54: AEROSOL GENERATING DEVICE**  
57: The design is to be applied to an aerosol generating device. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations.



PERSPECTIVE VIEW IN BEFORE USE STATE

21: A2020/00571 22: 2020-05-11 23:  
43: 2019-11-12  
52: Class 28 24: Part A  
71: Koninklijke Philips N.V.  
33: EM(NL) 31: 007216833-0001 32: 2019-11-12

**54: NOSE TRIMMERS**

57: The design is for a nose trimmer which includes an elongate body having a handle portion extending upwardly from an oval base and tapering gently to a rearwardly inclined head. An oval blade arrangement projects upwardly from the head. A front surface of the handle portion includes a U-shaped configuration within which a rectangular operating switch is positioned. The operating switch has an arrangement of minute gripping elements. A rear surface and sides of the handle portion include a pattern of diamond-shaped gripping elements.

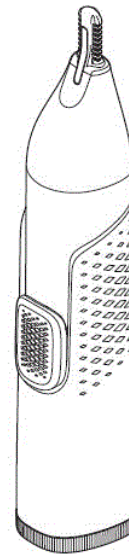


Figure 1

Three-dimensional view

21: A2020/00579 22: 2020-05-12 23:  
43: 2021-03-11  
52: Class 24. 24: Part A  
71: BAYER ANIMAL HEALTH GMBH  
33: EM 31: 007264817-0003 32: 2019-11-20

**54: Vaginal Ring for Oestrus Synchronization in a Cow**

57: The design relates to a vaginal ring for oestrus synchronization in a cow. The features of the design are those of shape and/or configuration.



FRONT VIEW

21: A2020/00582 22: 2020-05-12 23:  
43: 2019-12-20  
52: Class 10 24: Part A  
71: LVMH Swiss Manufactures SA

33: HSIRID(CH) 31: DM/206678 32: 2019-12-20

**54: CASES FOR WATCHES**

57: The design is for a case for a watch. A bezel insert comprises numerical numbers in multiples of five from 5 to 55 spaced circumferentially around the bezel insert. Each numerical number is separated from an adjacent numerical number by a radially extending line-shaped marker. A crown is provided on a side of the watch between a pair of buttons protruding from the side. When seen in front view, a pair of lugs extend from an operative top end and from an operative bottom end of the watch case, wherein each pair of lugs is configured to receive a watch band end piece therebetween. A rear surface of the watch case is provided with a series of concentric circular formations. A row of four adjacent circular formations is provided proximate an operative top end of the rear surface of the watch case.

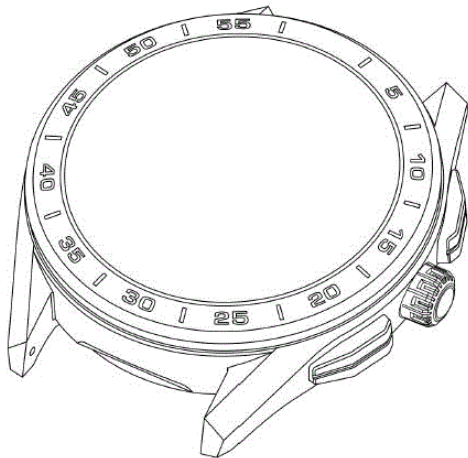


Figure 1

Three-dimensional view

21: A2020/00586 22: 2020-05-13 23:

43: 2021-03-11

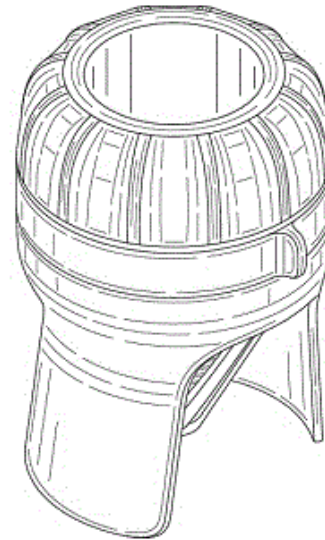
52: Class 7. 24: Part A

71: DART INDUSTRIES INC.

33: US 31: 29/714,767 32: 2019-11-26

**54: Vegetable Spiralizer**

57: The design relates to a vegetable spiralizer. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP PERSPECTIVE VIEW

21: A2020/00654 22: 2020-05-25 23:

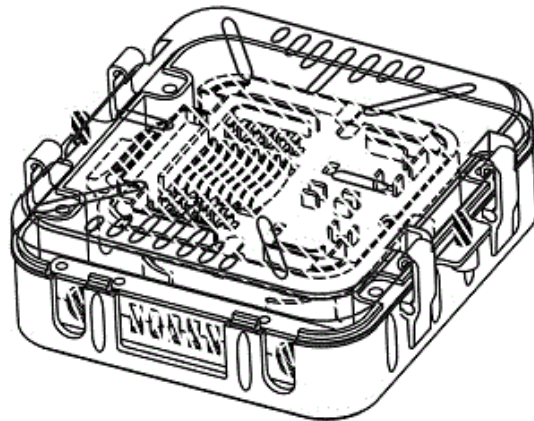
43: 2021-03-11

52: Class 14. 24: Part A

71: MANHOLES 4 AFRICA (PTY) LTD

**54: Enclosure**

57: The design relates to an enclosure. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/00676 22: 2020-05-28 23:

43: 2021-03-11

52: Class 24. 24: Part A

71: BAYER OY

33: EM 31: 007549993-0005 32: 2020-01-24

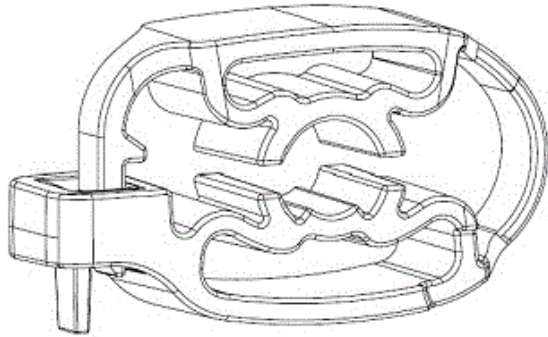
33: EM 31: 007549993-0006 32: 2020-01-24

33: EM 31: 007549993-0007 32: 2020-01-24

33: EM 31: 007549993-0008 32: 2020-01-24  
 33: EM 31: 007549993-0009 32: 2020-01-24

**54: Flange**

57: The design relates to a flange. The features of the design are those of shape and/or configuration.



**PERSPECTIVE VIEW  
 HALF-LOCKED CONFIGURATION**

21: A2020/00721 22: 2020-06-02 23:  
 43: 2019-12-03  
 52: Class 12 24: Part A  
 71: The Goodyear Tire & Rubber Company  
 33: US 31: 29/715,572 32: 2019-12-03

**54: TIRES**

57: The design is for a tire comprising a first and second circumferential shoulder rib and two circumferential narrower intermediate ribs therebetween. Circumferential grooves separate the intermediate ribs from one another and from the shoulder ribs. Each shoulder rib comprises spaced slanted grooves defining rectangular blocks. Each block includes a longitudinal groove and a pair of transverse sipes. A first intermediate rib comprises spaced upwardly slanted grooves defining an arrangement of blocks. Each arrangement includes a set of three narrow slanted rectangular blocks. A second intermediate rib comprises spaced L-shaped grooves that define an arrangement of blocks, where each arrangement includes a set of three narrow L-shaped slanted blocks, the slant of which is opposite to the slant of the rectangular bricks and groove in the intermediate first groove. Each inner edge of the intermediate ribs include spaced short lateral grooves.

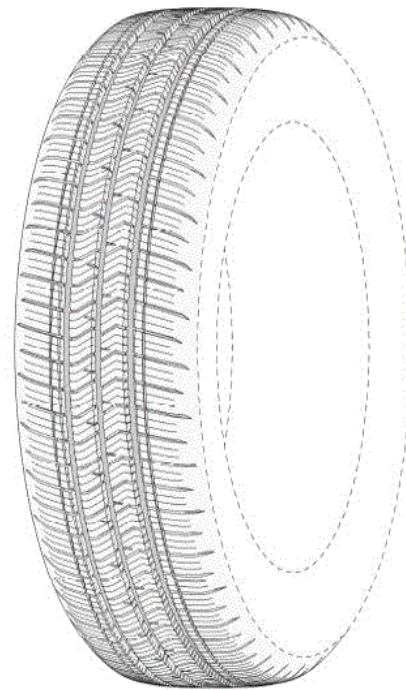


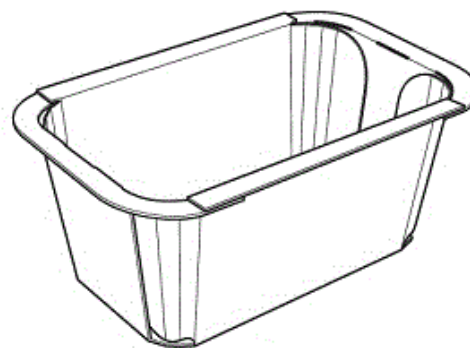
Figure 1

Three-dimensional view

21: A2020/00763 22: 2020-06-09 23:  
 43: 2021-03-17  
 52: Class 9. 24: Part A  
 71: MPACT LIMITED

**54: Punnet with Shoulder**

57: The design relates to a punnet with shoulder. The features of the design are those of shape and/or configuration.



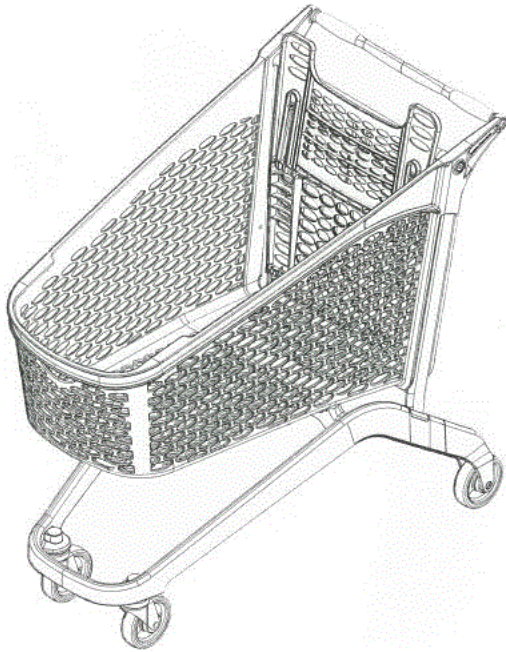
**TOP PERSPECTIVE VIEW**

21: A2020/00779 22: 2020-06-10 23:



43: 2020-06-10  
 52: Class 12 24: Part A  
 71: SUPERCART SOUTH AFRICA (PTY) LTD  
**54: TROLLEY**

57: The design is applied to a trolley, and in particular to an all plastic shopping trolley. The features of the design for which protection is claimed include the shape and/or configuration of a trolley, substantially as illustrated in the accompanying representations.

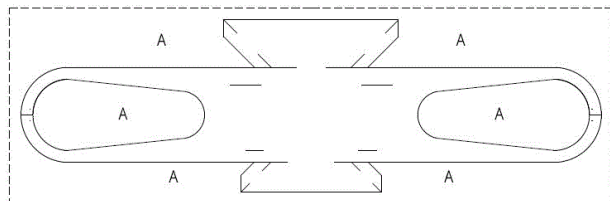


21: A2020/00780 22: 2020-06-10 23:  
 43: 2020-06-10  
 52: Class 12 24: Part A  
 71: SUPERCART SOUTH AFRICA (PTY) LTD  
**54: TROLLEY**

57: The design is applied to a trolley, and in particular to an all plastic shopping trolley. The features of the design for which protection is claimed include the shape and/or configuration of a trolley, substantially as illustrated in the accompanying representations.

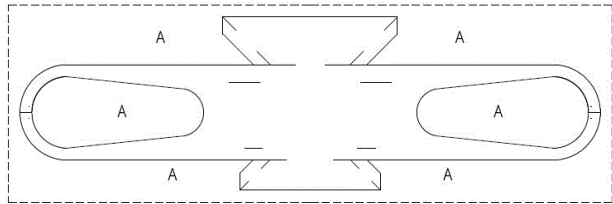
21: A2020/00791 22: 2020-06-11 23:  
 43: 2020-06-11  
 52: Class 2 24: Part A  
 71: YASH FOAM TECHNOLOGIES CC  
**54: BLANKS FOR FOLDABLE FACE MASKS**

57: The design for which protection is claimed is a blank for a foldable face mask substantially as shown in the accompanying representations.

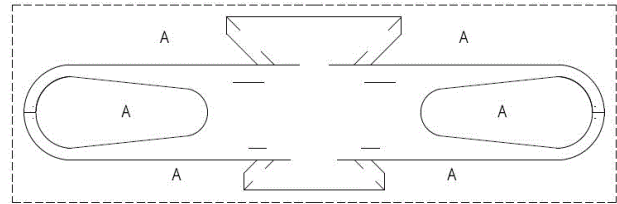


21: A2020/00792 22: 2020-06-11 23:  
 43: 2020-06-11  
 52: Class 5 24: Part A  
 71: YASH FOAM TECHNOLOGIES CC  
**54: BLANKS FOR FOLDABLE FACE MASKS**

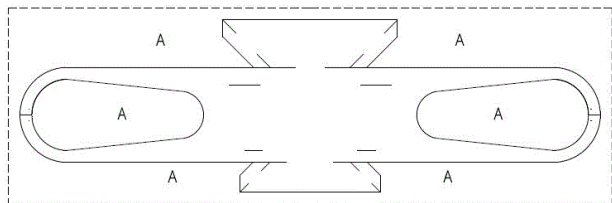
57: The design for which protection is claimed is a blank for a foldable face mask substantially as shown in the accompanying representations.



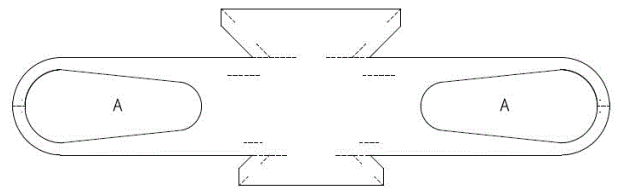
21: A2020/00793 22: 2020-06-11 23:  
 43: 2020-06-11  
 52: Class 24 24: Part A  
 71: YASH FOAM TECHNOLOGIES CC  
**54: BLANKS FOR FOLDABLE FACE MASKS**  
 57: The design for which protection is claimed is a blank for a foldable face mask substantially as shown in the accompanying representations.



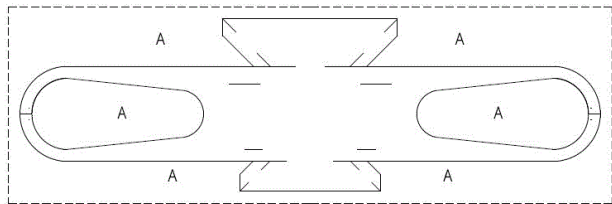
21: A2020/00799 22: 2020-06-11 23:  
 43: 2020-06-11  
 52: Class 2 24: Part A  
 71: YASH FOAM TECHNOLOGIES CC  
**54: FOLDABLE FACE MASKS**  
 57: The design for which protection is claimed is foldable face mask substantially as shown in the accompanying representations.



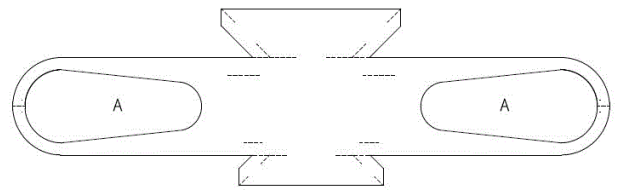
21: A2020/00794 22: 2020-06-11 23:  
 43: 2020-06-11  
 52: Class 28 24: Part A  
 71: YASH FOAM TECHNOLOGIES CC  
**54: BLANKS FOR FOLDABLE FACE MASKS**  
 57: The design for which protection is claimed is a blank for a foldable face mask substantially as shown in the accompanying representations.



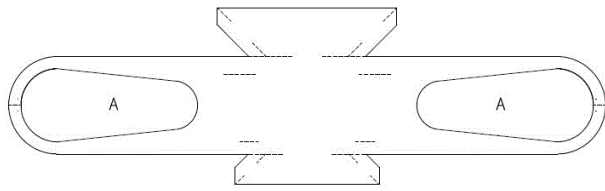
21: A2020/00801 22: 2020-06-11 23:  
 43: 2020-06-11  
 52: Class 24 24: Part A  
 71: YASH FOAM TECHNOLOGIES CC  
**54: FOLDABLE FACE MASKS**  
 57: The design for which protection is claimed is foldable face mask substantially as shown in the accompanying representations.



21: A2020/00795 22: 2020-06-11 23:  
 43: 2020-06-11  
 52: Class 29 24: Part A  
 71: YASH FOAM TECHNOLOGIES CC  
**54: BLANKS FOR FOLDABLE FACE MASKS**  
 57: The design for which protection is claimed is a blank for a foldable face mask substantially as shown in the accompanying representations.



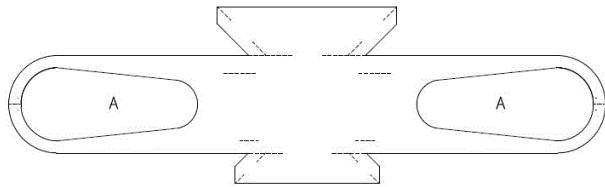
21: A2020/00802 22: 2020-06-11 23:  
 43: 2020-06-11  
 52: Class 28 24: Part A  
 71: YASH FOAM TECHNOLOGIES CC  
**54: FOLDABLE FACE MASKS**  
 57: The design for which protection is claimed is foldable face mask substantially as shown in the accompanying representations.



21: A2020/00803 22: 2020-06-11 23:  
 43: 2020-06-11  
 52: Class 29 24: Part A  
 71: YASH FOAM TECHNOLOGIES CC

**54: FOLDABLE FACE MASKS**

57: The design for which protection is claimed is foldable face mask substantially as shown in the accompanying representations.



21: A2020/00804 22: 2020-06-11 23:  
 43: 2021-03-11  
 52: Class 21 24: Part A  
 71: ADP GAUSELMANN GMBH  
 33: EU 31: 007436860 32: 2019-12-20

**54: GAMING MACHINE**

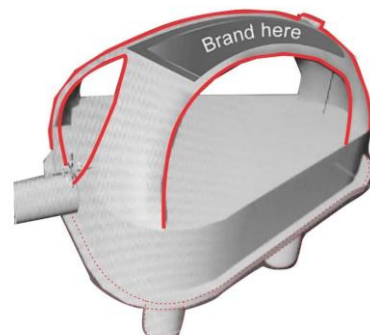
57: The design is applied to a gaming machine. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the gaming machine, substantially as illustrated in the accompanying representation.



21: A2020/00805 22: 2020-06-11 23:  
 43: 2021-03-17  
 52: Class 13 24: Part A  
 71: SIMPHIWE JOSEPH DLAMINI, NOKUKHANYA SHEILA MHLONGO

**54: ELECTRICAL PLUG**

57: The design is related to an electrical plug. The features of the design are those of shape, pattern, configuration and/or ornamentation



21: A2020/00807 22: 2020-06-11 23:  
 43: 2021-03-17  
 52: Class 02 24: Part A  
 71: M AND K BEFORE INK (PTY) LTD

**54: GARMENTS**

57: The features of the design for which protection is claimed reside in the shape and/or configuration of a garment substantially as illustrated in the accompanying representations, irrespective of (i) the colour/s of the garment, (ii) the pattern or ornamentation applied to the garment, and (iii) the design of the sleeves of the garment.

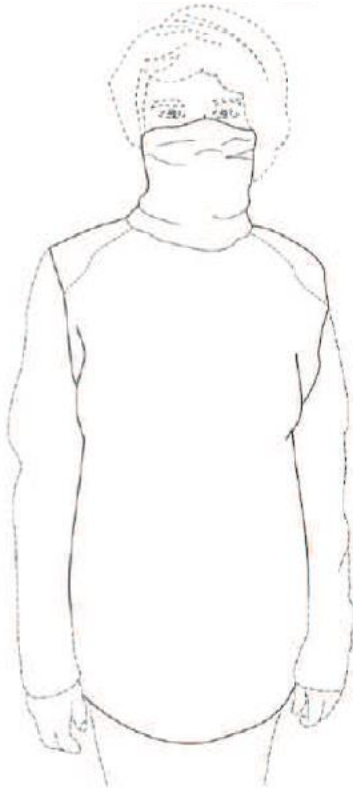


Figure 5

A front view of the garment in an in use condition, with its neck in the extended position

21: A2020/00809 22: 2020-06-12 23:  
43: 2021-05-07  
52: Class 07 24: Part A  
71: Polyoak Packaging (Pty) Ltd

**54: TUB**

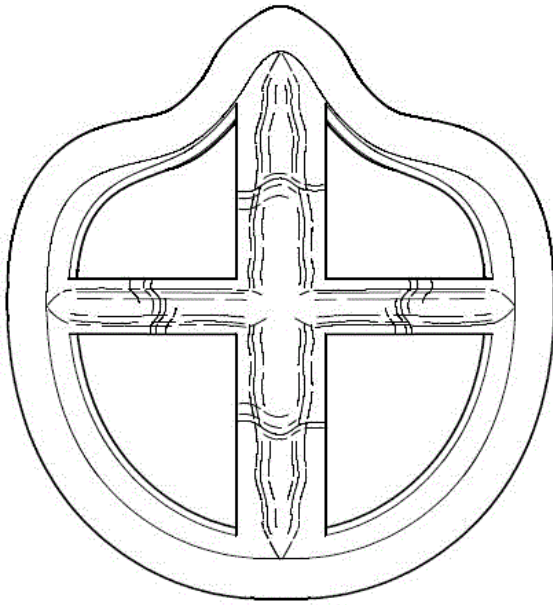
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



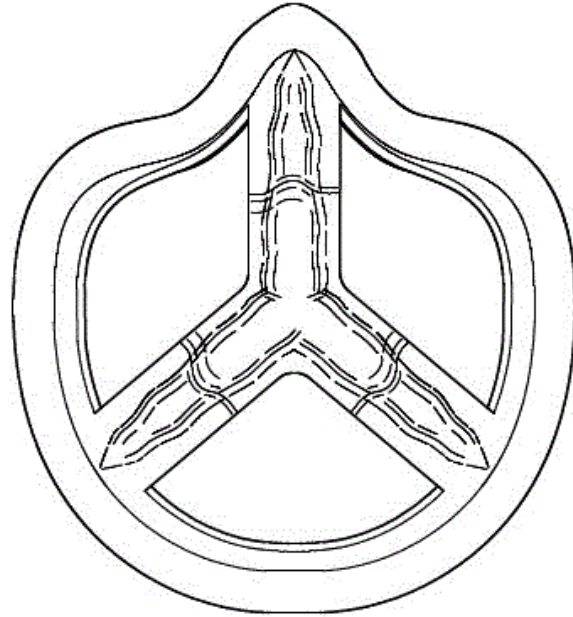
21: A2020/00825 22: 2020-06-15 23:  
43: 2020-06-15  
52: Class 24 24: Part A  
71: LINDER, Ernst Wilfred, SLABBERT, Hein de Villiers

**54: Face Masks**

57: The design relates to a face mask. The face mask is configured to conform to the anatomical shape of a human wearer's face so as to be located over the mouth and nose of the wearer. The face mask has a generally annular slender seating formation which seats against the wearer's face when worn, extending around the mouth and nose of the wearer. The seating formation comprises a generally circular portion which extends around the mouth of a wearer and a raised portion which extends over a bridge of the wearer's nose. The face mask includes a domed cross-shaped formation defined by four slender elements which join at a central apex region. Four openings are defined between the slender elements and the seating formation.



Front view



Front view

21: A2020/00827 22: 2020-06-15 23:  
43: 2020-06-15  
52: Class 24 24: Part A  
71: LINDER, Ernst Wilfred, SLABBERT, Hein de  
Villiers

#### 54: Face Masks

57: The design relates to a face mask. The face mask conforms to the anatomical shape of a human wearer's face so as to be located over the mouth and nose of the wearer. The face mask has a generally annular slender seating formation which seats against the wearer's face when worn, extending around the mouth and nose of the wearer. The seating formation comprises a generally circular portion which extends around the mouth of a wearer and a raised portion which extends over a bridge of the wearer's nose. The face mask includes a domed inverted Y-shaped formation defined by three slender elements which join at a central apex region. Three openings are defined between the slender elements and the seating formation.

21: A2020/00839 22: 2020-06-17 23:  
43: 2019-12-18  
52: Class 12 24: Part A  
71: The Goodyear Tire & Rubber Company  
33: US 31: 29/717,544 32: 2019-12-18

#### 54: TIRES

57: The design is for a tire comprising a first and a second circumferential shoulder rib and three narrower circumferential intermediate ribs therebetween. Circumferential grooves separate the intermediate ribs from one another and from the shoulder ribs. The first shoulder rib comprises spaced transverse sipes defining rectangular blocks and shorter spaced transverse grooves. The second shoulder rib comprises spaced transverse sipes defining larger rectangular blocks and pairs of a shorter transverse groove and an L-shaped groove. A first intermediate rib comprises spaced S-shaped sipes defining blocks, each sipe including a shorter curved groove. A second middle intermediate rib comprises spaced diagonal sipes defining blocks and spaced shorter centrally positioned diagonal grooves. A third intermediate rib comprises diagonal sipes defining blocks and an array of S-shaped sipes and shorter diagonal grooves alternately extending from each edge of the rib.

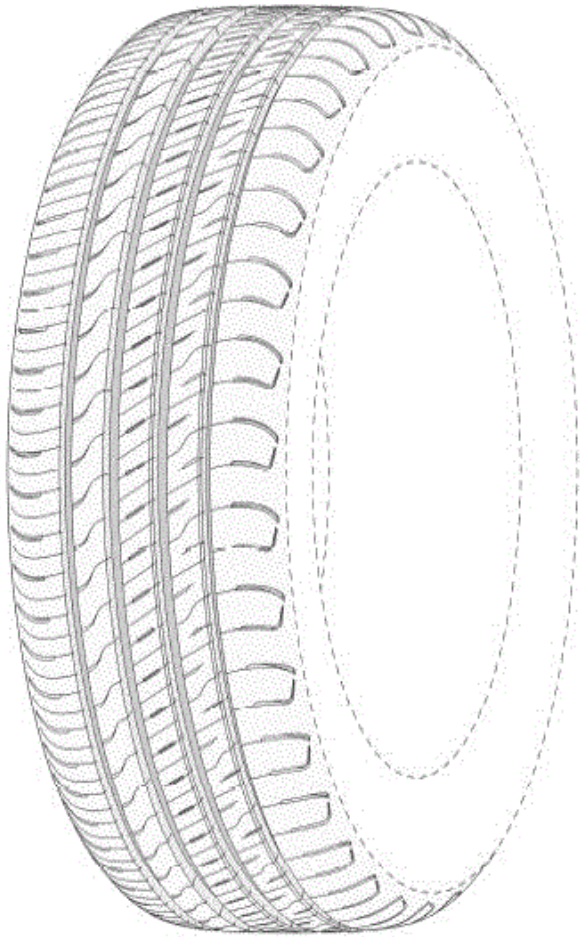


Figure 1

Three-dimensional view

21: A2020/00840 22: 2020-06-17 23:  
43: 2019-12-18  
52: Class 12 24: Part A  
71: The Goodyear Tire & Rubber Company  
33: US 31: 29/717,575 32: 2019-12-18

**54: TIRES**

57: The design is for a tire comprising a first and a second circumferential shoulder rib and two narrower circumferential intermediate ribs therebetween. Circumferential grooves separate the intermediate ribs from one another and from the shoulder ribs. The first shoulder rib comprises spaced transverse sipes defining rectangular blocks and shorter spaced transverse grooves. The second shoulder rib comprises spaced transverse sipes defining larger rectangular blocks and pairs of a shorter transverse groove and an L-shaped groove. A first intermediate rib comprises spaced S-shaped sipes defining blocks, each sipe including a shorter

curved groove. A second middle intermediate rib comprises an array of spaced S-shaped sipes and diagonal sipes defining blocks.

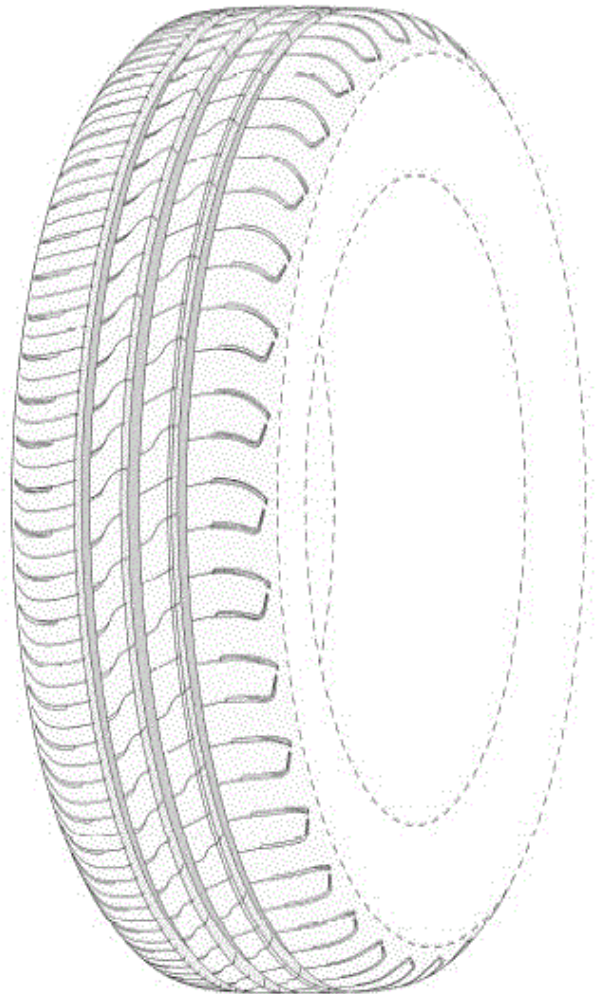


Figure 1

Three-dimensional view

21: A2020/00842 22: 2020-06-17 23:  
43: 2021-03-11

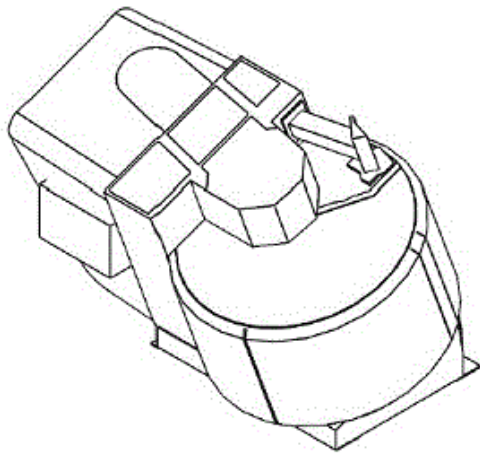
52: Class 15. 24: Part A

71: MASCHINENFABRIK GUSTAV EIRICH GMBH & CO. KG

33: EM 31: 007423603 32: 2019-12-18

**54: Mixing Machine**

57: The design relates to a mixing machine. The features of the design are those of shape and/or configuration.

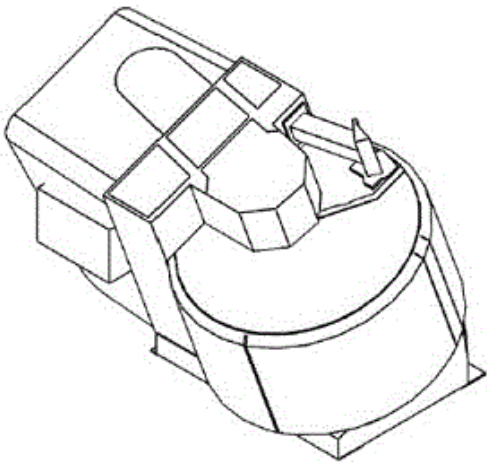


PERSPECTIVE VIEW

21: A2020/00843 22: 2020-06-17 23:  
43: 2021-03-11  
52: Class 31. 24: Part A  
71: MASCHINENFABRIK GUSTAV EIRICH GMBH  
& CO. KG  
33: EM 31: 007423603 32: 2019-12-18

**54: Mixing Machine**

57: The design relates to a mixing machine. The features of the design are those of shape and/or configuration.



PERSPECTIVE VIEW

21: A2020/00845 22: 2020-06-18 23:  
43: 2020-01-02  
52: Class 2 24: Part A  
71: Alpargatas S.A.  
33: BR 31: 30 2020 000002 1 32: 2020-01-02

**54: FOOTWEAR**

57: The design relates to footwear comprising an outsole, an insole attached to an operative upper surface of the outsole and a strap which is configured to pass between a wearer's toes. When seen in top view, a heel of the insole is rounded whereas a heel of the outsole is generally rectangular in shape with rounded corners. A sidewall of the heel of the outsole diverges downwardly and outwardly away from the insole. The strap comprises a first portion, configured to extend between a wearer's toes, which protrudes from an upper surface of the insole proximate a front end thereof. The first portion holds captive a second portion by means of a knot. The second portion is attached to the insole at a mid-region thereof. A zigzag stitching pattern is provided along an outer surface of the second portion. A rectangular formation is provided over the stitching to the right of the first portion.

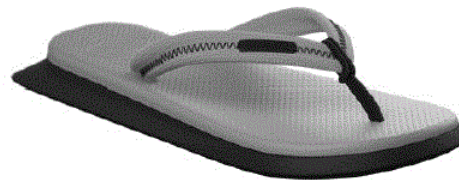


Figure 1

Three-dimensional view

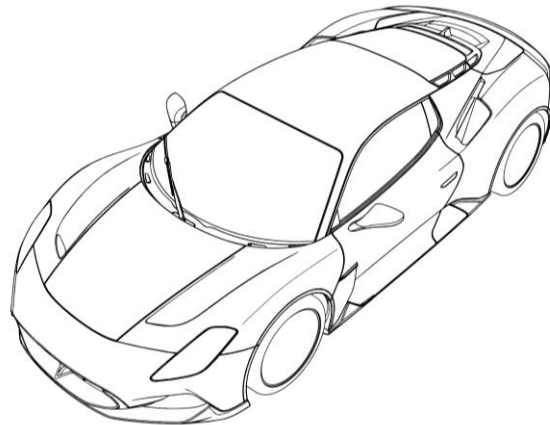
21: A2020/00848 22: 2020-06-18 23:  
43: 2021-03-17  
52: Class 06 24: Part A  
71: GEEL, Werner

**54: DESKS**

57: The design desk which is collapsible. The desk is defined by a tabletop, connected to an inverted U-shape back support and two substantially L-shaped legs hinged to the sides of the U-shape back support. Each L-shaped leg includes an extending arm partially in length and parallel with the horizontal leg of the L-shape leg. In use, the tabletop is supported on either side of the tabletop through the extending arms. In a collapsed condition, the L-shaped legs are folded inwards towards each other, followed by the tabletop being folded downwards towards the U-shape back support. In a collapsed condition the desk is flat.



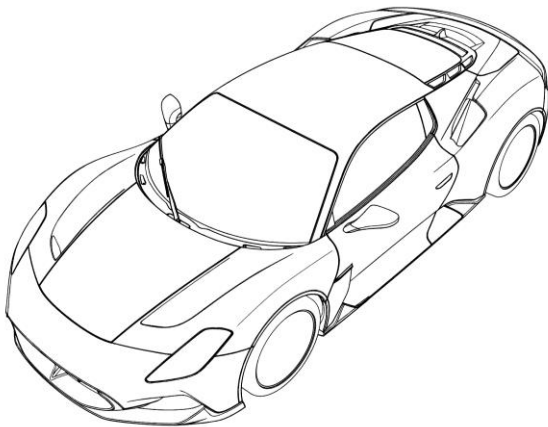
Three-dimensional rear view in use



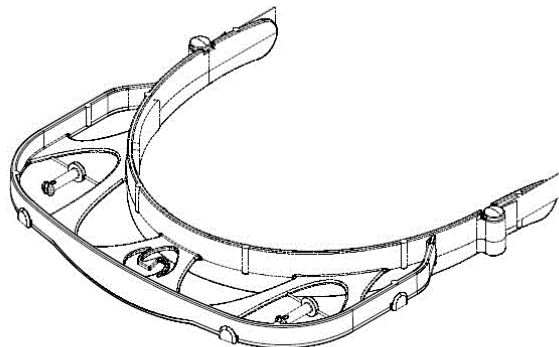
PERSPECTIVE VIEW

21: A2020/00851 22: 2020-06-18 23:  
43: 2021-04-15  
52: Class 12 24: Part A  
71: MASERATI S.P.A.  
33: WO 31: WIPO90498 32: 2019-12-19  
**54: CAR**  
57: The design is for car in the form of a two-door sports car.

21: A2020/00858 22: 2020-06-19 23:  
43: 2020-04-17  
52: Class 29 24: Part A  
71: PIMMS FAMOUS BRANDS (PTY) LTD.  
**54: FRONT WALLS FOR FACE SHIELD APPARATUS**  
57: The design is for a curvature profile of a front wall of a frame of a face shield apparatus. The front wall is generally arcuate, having a gently curved front section, leading to rounded corners at each side of the front section, and leading to straight side portions rearwardly of the rounded corners. The front wall supports and shapes a clear shield.



PERSPECTIVE VIEW



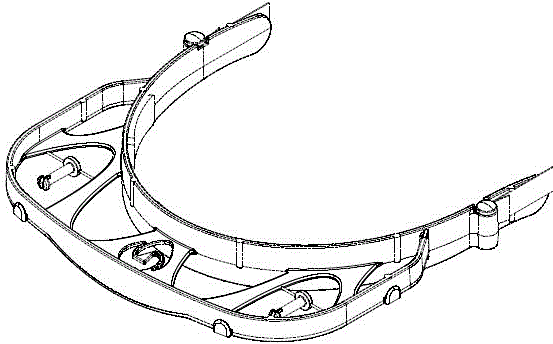
Three-dimensional view (no shield)

21: A2020/00852 22: 2020-06-18 23:  
43: 2021-04-15  
52: Class 21 24: Part A  
71: MASERATI S.P.A.  
33: WO 31: WIPO90509 32: 2019-12-19  
**54: SCALE CAR MODEL**  
57: The design is for scale car model in the form of a two-door sports car

21: A2020/00859 22: 2020-06-19 23:  
43: 2020-04-17  
52: Class 29 24: Part A  
71: PIMMS FAMOUS BRANDS (PTY) LTD.  
**54: SUPPORT STRUCTURES FOR FACE SHIELD APPARATUS**



57: The design is for a support structure extending in a plane between a front wall and a headband of a frame for a face shield apparatus. The support structure has prominent, part elliptical apertures.



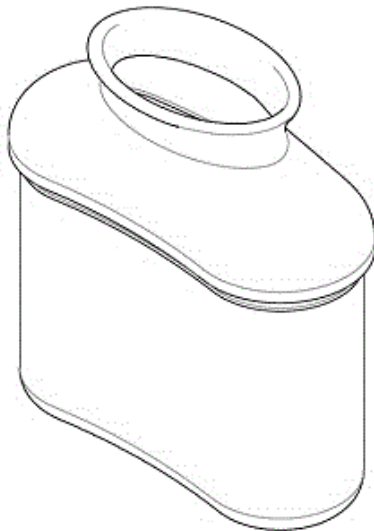
Three-dimensional view (no shield)

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21: A2020/00881 22: 2020-06-22 23:  
43: 2021-03-11  
52: Class 7. 24: Part A  
71: MUZJO PTY LTD  
33: AU 31: 201917405 32: 2019-12-23

**54: Drinking Vessel**

57: The design relates to a drinking vessel. The features of the design are those of shape and/or configuration.



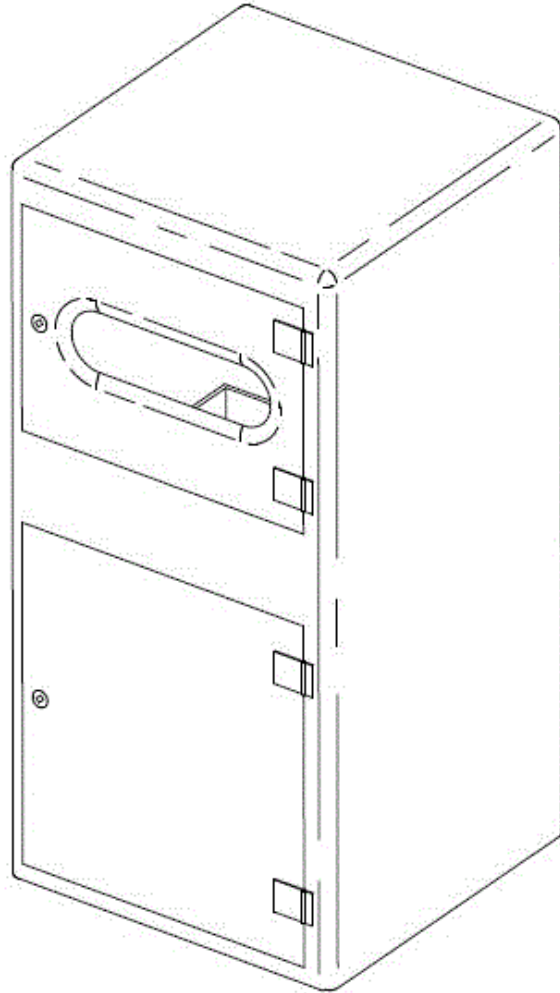
TOP PERSPECTIVE VIEW

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21: A2020/00900 22: 2020-06-26 23:  
43: 2020-06-26  
52: Class 23 24: Part A  
71: CHRIAAN TRUST

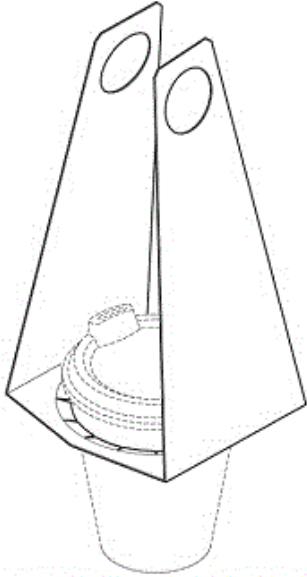
**54: HAND SANITISING DEVICES**

57: The design is for a hand sanitising device, substantially as shown in the accompanying representations.




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21: A2020/00901 22: 2020-06-26 23:  
43: 2021-03-11  
52: Class 9. 24: Part A  
71: EVANS, JOHN PHILIP STUTTAFORD  
**54: Carrier**  
57: The design relates to a carrier. The features of the design are those of shape and/or configuration.

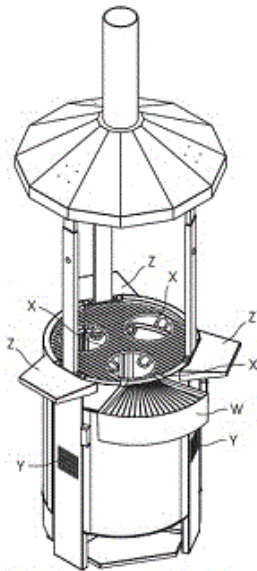


PERSPECTIVE VIEW IN USE

21: A2020/00902 22: 2020-06-26 23:  
43: 2021-03-11  
52: Class 7. 24: Part A  
71: MHEZA ENGINEERING (PTY) LTD.

**54: Cooking Arrangement**

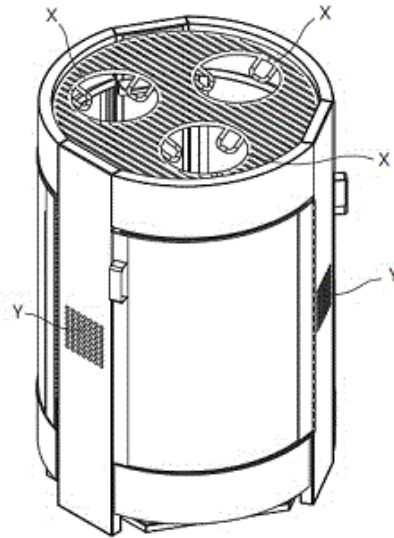
57: The design relates to a cooking arrangement. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/00903 22: 2020-06-26 23:  
43: 2021-03-11  
52: Class 7. 24: Part A  
71: MHEZA ENGINEERING (PTY) LTD.  
**54: Cooking Arrangement**

57: The design relates to a cooking arrangement. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



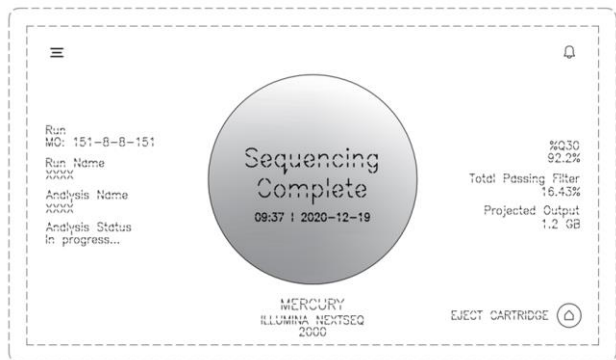
PERSPECTIVE VIEW

21: A2020/00906 22: 2020-06-29 23:  
43: 2021-03-11  
52: Class 14 24: Part A  
71: ILLUMINA, INC.

33: US 31: 29/720,277 32: 2020-01-10

**54: SET OF SCREEN DISPLAYS**

57: The design is applied to a set of screen displays. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the set of screen displays, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.

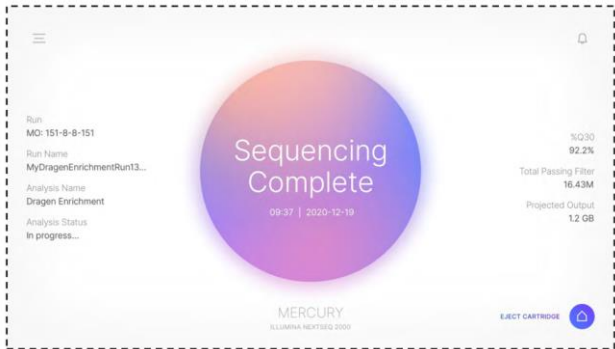


21: A2020/00908 22: 2020-06-29 23:  
43: 2021-03-11

52: Class 14 24: Part A  
 71: ILLUMINA, INC.  
 33: US 31: 29/720,277 32: 2020-01-10

**54: SET OF SCREEN DISPLAYS**

57: The design is applied to a set of screen displays. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the set of screen displays, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.

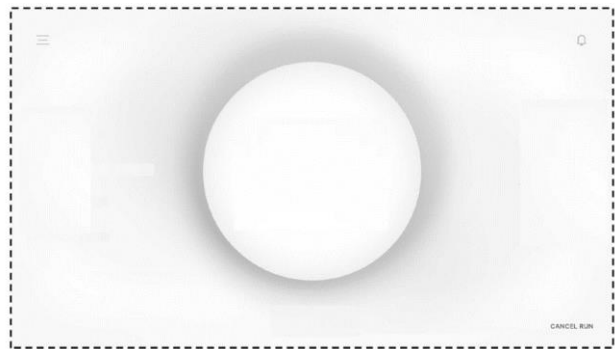


21: A2020/00909 22: 2020-06-29 23:  
 43: 2021-03-11

52: Class 14 24: Part A  
 71: ILLUMINA, INC.

33: US 31: 29/720,277 32: 2020-01-10  
**54: SCREEN DISPLAY**

57: The design is applied to a screen display. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the screen display, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.

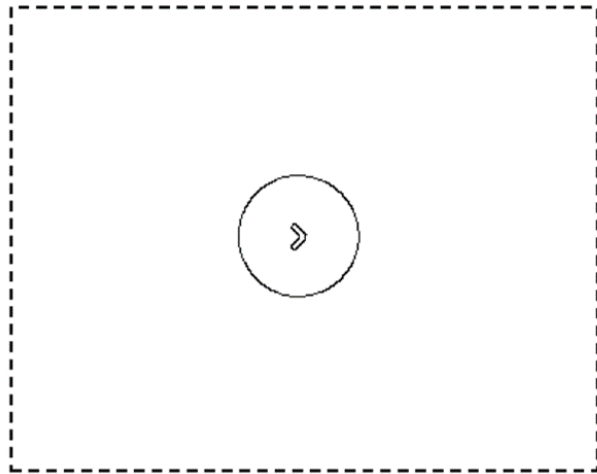


21: A2020/00911 22: 2020-06-29 23:  
 43: 2021-03-11

52: Class 14 24: Part A  
 71: ILLUMINA, INC.  
 33: US 31: 29/720,280 32: 2020-01-10

**54: SET OF SCREEN DISPLAYS**

57: The design is applied to a set of screen displays. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the set of screen displays, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2020/00912 22: 2020-06-29 23:  
 43: 2021-04-15

52: Class 14 24: Part A  
 71: ILLUMINA, INC.

33: US 31: 29/720,280 32: 2020-01-10  
**54: SET OF SCREEN DISPLAYS**

57: The design is applied to a set of screen display. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the set of screen displays, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2020/00913 22: 2020-06-29 23:  
43: 2021-03-11  
52: Class 14 24: Part A  
71: ILLUMINA, INC.  
33: US 31: 29/720,282 32: 2020-01-10

**54: SET OF SCREEN DISPLAYS**

57: The design is applied to a set of screen displays. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the set of screen displays, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2020/00914 22: 2020-06-29 23:  
43: 2021-03-11  
52: Class 14 24: Part A  
71: ILLUMINA, INC.  
33: US 31: 29/720,282 32: 2020-01-10

**54: SET OF SCREEN DISPLAYS**

57: The design is applied to a set of screen displays. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the set of screen displays, substantially as illustrated in the accompanying representation. Features shown in

broken lines do not form part of the design and are disclaimed.



21: A2020/00930 22: 2020-07-02 23:  
43: 2021-03-25

52: Class 22 24: Part A

71: JACOBUS NICOLAAS KRITZINGER

**54: TACKLE HOLDERS FOR FISHING RODS**

57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or ornamentation of a tackle holder substantially as illustrated in Figures 1 to 5 of the representations, wherein Figures 6 to 9 illustrate the tackle holder in an in use condition in which it is mounted to a fishing rod, the in use condition being shown merely as a non-limiting example and the fishing rod partially shown in Figures 6 to 9 does not form part of the design.

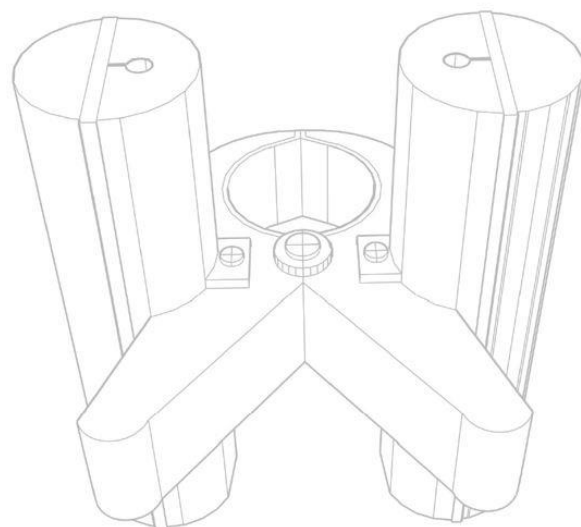


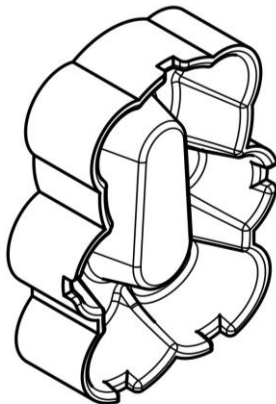
Figure 1

First perspective view

21: A2020/00932 22: 2020-07-03 23:  
43: 2021-03-25  
52: Class 07 24: Part A  
71: MARITZ, Rudolph Johan

**54: MOULDS**

57: The design is for a mould. Specifically, the design is for a hand press cutting mould, used to mould pliable foodstuff. The hand press cutting mould includes an outer portion and an inverted inner cup portion disposed centrally relative to the outer mould portion, forming a receptacle void between an inner surface of the outer mould and an outer surface of the inverted inner cup portion. The outer mould is shaped and dimensioned to reflect the shape of a teddy bear. In use, the hand press cutting mould is pressed in a downwards direction on a heap of pliable foodstuff and cut-outs on a rim of the hand press cutting mould allow excess foodstuff to be escape therethrough. Once retracted, the pressed pliable foodstuff will reflect a teddy bear shaped bowl.



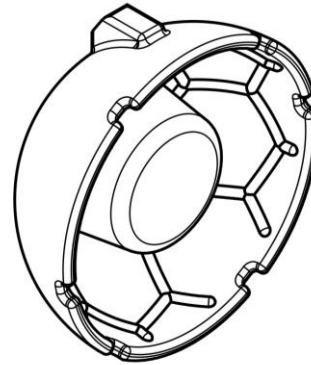
Three-dimensional view

21: A2020/00933 22: 2020-07-03 23:  
43: 2021-03-25  
52: Class 07 24: Part A  
71: MARITZ, Rudolph Johan

**54: MOULDS**

57: The design is for a mould. Specifically, the design is for a hand press cutting mould, used to mould pliable foodstuff. The hand press cutting mould includes an outer mould portion and an inverted inner cup portion disposed centrally relative to the outer mould portion, forming a receptacle void between an inner surface of the outer mould portion and an outer surface of the inverted inner cup mould portion. The outer mould portion is spherical segment-shaped and includes a plurality of hexagon press shapes arranged adjacently on the inner

surface of the outer mould portion to form a soccer ball pattern. In use, the hand press cutting mould is pressed on a heap of pliable foodstuff, with excess foodstuff escaping through cut-outs in a rim of the hand press cutting mould. Once retracted, the pressed foodstuff will reflect the shape of a soccer ball bowl.



Three-dimensional view

21: A2020/00938 22: 2020-07-07 23:  
43: 2021-03-25  
52: Class 9. 24: Part A  
71: UNILEVER PLC

**54: Bottle**

57: The design relates to a bottle. The features of the design are those of shape and configuration.



FRONT PERSPECTIVE VIEW

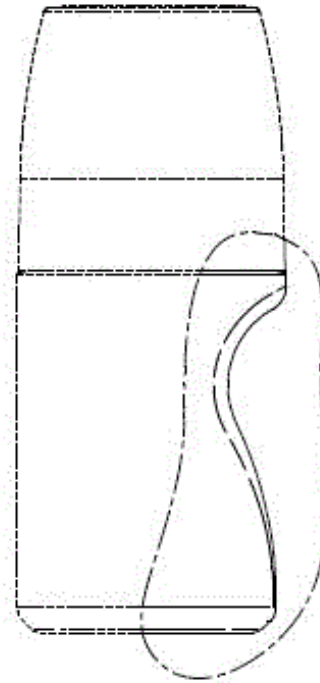
21: A2020/00939 22: 2020-07-07 23:  
43: 2021-03-25  
52: Class 9. 24: Part A

71: UNILEVER PLC  
 33: US 31: 29/721,555 32: 2020-01-21  
**54: Bottle**

57: The design relates to a bottle. The features of the design are those of shape and configuration.



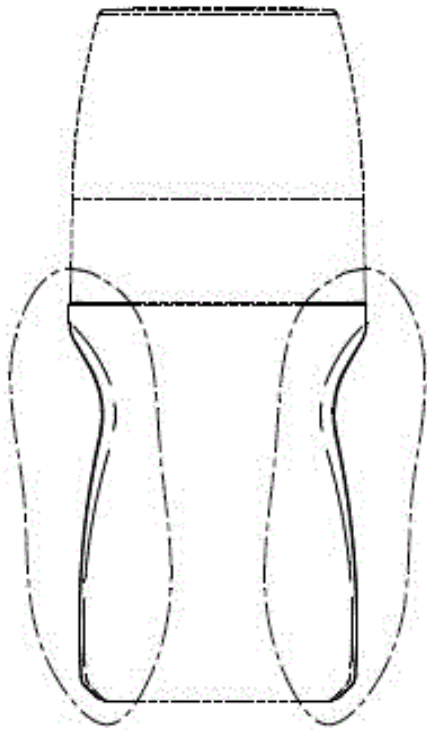
FRONT PERSPECTIVE VIEW



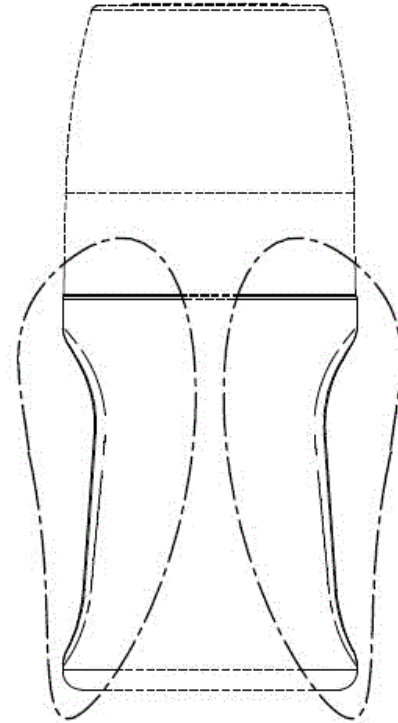
Side view

21: A2020/00942 22: 2020-07-08 23:  
 43: 2020-07-08  
 52: Class 9 24: Part A  
 71: EVOTEC PLASTICS PROPRIETARY LIMITED  
**54: Containers for roll-on deodorant applicators**  
 57: The design relates to a container for a roll-on deodorant applicator. The container has a generally cylindrical sidewall which defines a recessed holding formation for accommodating a hand of a user when holding the container. The features of the container surrounded by the bold broken line comprising alternating long and short dashes, forming an essential part of the design while the features of the container shown by the lighter broken lines comprising uniform length dashes, are optional and do not form an essential part of the design.

21: A2020/00943 22: 2020-07-08 23:  
 43: 2020-07-08  
 52: Class 9 24: Part A  
 71: EVOTEC PLASTICS PROPRIETARY LIMITED  
**54: Containers for roll-on deodorant applicators**  
 57: The design relates to a container for a roll-on deodorant applicator. The container has a generally cylindrical sidewall which defines a pair of recessed holding formations for accommodating a hand of a user when holding the container. The recessed holding formations are disposed at opposite sides of the sidewall. The features of the container surrounded by the bold broken lines comprising alternating long and short dashes, forming an essential part of the design while the features of the container shown by the lighter broken lines comprising uniform length dashes, are optional and do not form an essential part of the design.



Side view



Side view

21: A2020/00944 22: 2020-07-08 23:

43: 2020-07-08

52: Class 9 24: Part A

71: EVOTEC PLASTICS PROPRIETARY LIMITED

**54: Containers for roll-on deodorant applicators**

57: The design relates to a roll-on deodorant applicator. The container has a generally cylindrical sidewall which defines a pair of recessed holding formations for accommodating a hand of a user when holding the container. The recessed holding formations are disposed at opposite sides of the sidewall. The features of the container surrounded by the bold broken lines comprising alternating long and short dashes, forming an essential part of the design while the features of the container shown by the lighter broken lines comprising uniform length dashes, are optional and do not form an essential part of the design.

21: A2020/00945 22: 2020-07-08 23:

43: 2020-07-08

52: Class 9 24: Part A

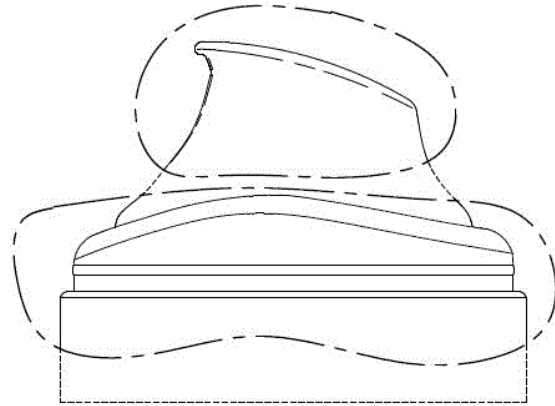
71: EVOTEC PLASTICS PROPRIETARY LIMITED

**54: Containers for roll-on deodorant applicators**

57: The design relates to a container for a roll-on deodorant applicator. The container has a generally cylindrical sidewall which defines a curved tapering region extending circumferentially from a position approximately midway along the sidewall of the container to a base of the container. The features of the container shown by the broken lines comprising uniform length dashes, being optional and not forming an essential part of the design.



Side view



Side view

21: A2020/00946 22: 2020-07-08 23:  
43: 2020-07-08  
52: Class 9 24: Part A  
71: EVOTEC PLASTICS PROPRIETARY LIMITED

**54: Aerosol Dispensers**

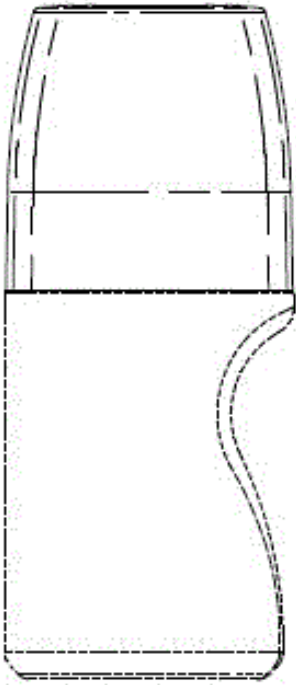
57: The design relates to an aerosol dispenser, the features of the aerosol dispenser surrounded by the bold broken lines comprising alternating long and short dashes, forming an essential part of the design while the features of the aerosol dispenser shown by the lighter broken lines comprising uniform length dashes, are optional and do not form an essential part of the design.

21: A2020/00947 22: 2020-07-08 23:  
43: 2020-07-08  
52: Class 9 24: Part A  
71: EVOTEC PLASTICS PROPRIETARY LIMITED

**54: Caps for roll-on deodorant applicators**

57: The design relates to a cap for a roll-on deodorant applicator. The cap has a sidewall having a generally cylindrical lower region extending, when viewed in side view, between a lower end of the cap and a position approximately one third of the distance upwardly from the lower end between the lower end and an upper end of the cap, and which has a curved circumferential upper region which tapers towards an upper end of the cap from the lower region. An upper end of the cap defines a generally flat surface. The features of the cap shown by the uniform length broken lines being optional and do not form an essential part of the design.





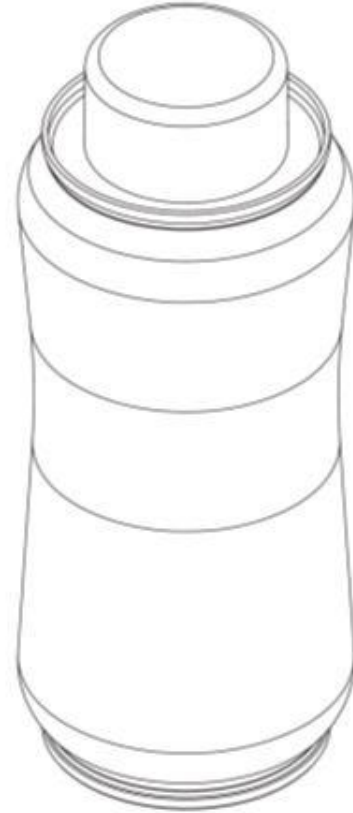
Side view

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21: A2020/00948 22: 2020-07-09 23:  
43: 2021-03-29  
52: Class 09 24: Part A  
71: SODASTREAM INDUSTRIES LTD.  
33: IL 31: 64673 32: 2020-01-09

**54: CANS**

57: The design is for a can with the features as shown in the representations.

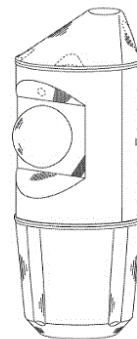


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21: A2020/00977 22: 2020-07-16 23:  
43: 2021-03-25  
52: Class 14 24: Part A  
71: MUSCO CORPORATION  
33: US 31: 29/720,929 32: 2020-01-16

**54: ENCLOSURE FOR CAPTURE DEVICES**

57: The representation shows a perspective view of an enclosure for capture devices showing the overall appearance thereof.



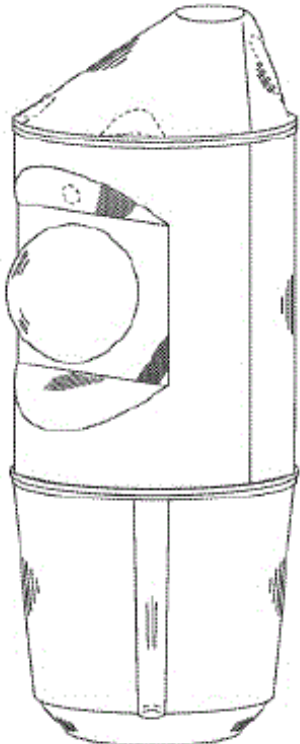
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21: A2020/00978 22: 2020-07-16 23:  
43: 2021-03-25

52: Class 14 24: Part A  
71: MUSCO CORPORATION  
33: US 31: 29/720,929 32: 2020-01-16

**54: ENCLOSURE FOR CAPTURE DEVICES**

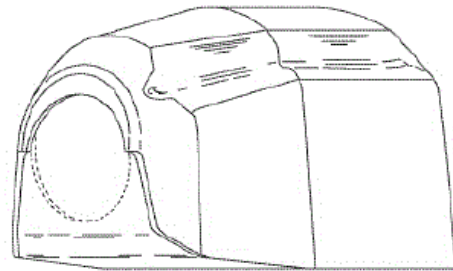
57: The representation shows a perspective view of an enclosure for capture devices showing the overall appearance thereof.



21: A2020/00979 22: 2020-07-16 23:  
43: 2021-03-25  
52: Class 14 24: Part A  
71: MUSCO CORPORATION  
33: US 31: 29/720,957 32: 2020-01-16

**54: HOODED ENCLOSURE FOR CAPTURE DEVICES**

57: The representation shows a perspective view of a hooded enclosure for capture devices showing the overall appearance thereof.



21: A2020/00998 22: 2020-07-17 23:

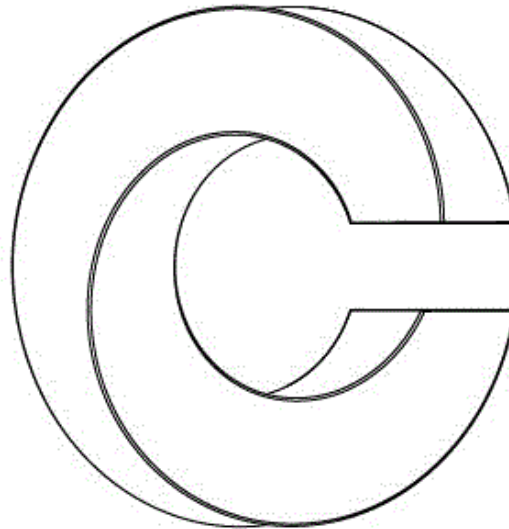
43: 2020-07-17

52: Class 32 24: Part A

71: CLUR INTERNATIONAL (PTY) LTD

**54: LOGOS**

57: The features of the design for which protection is claimed include the shape and/or ornamentation of a C-shaped logo substantially as shown in the accompanying representations.



Side view

21: A2020/01001 22: 2020-07-17 23:

43: 2021-04-15

52: Class 27 24: Part A

71: Shenzhen Eigate Technology Co., Ltd.

33: CN 31: 202030036604.8 32: 2020-01-19

**54: ELECTRONIC CIGARETTE**

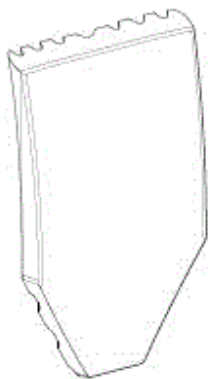
57: The design relates to a Electronic cigarette. The features of the design are those of shape and/or pattern and/or configuration.



21: A2020/01101 22: 2020-08-12 23:  
43: 2021-04-21  
52: Class 15 24: Part A  
71: THE TRUSTEES FOR THE TIME BEING OF  
THE FORZA TRUST

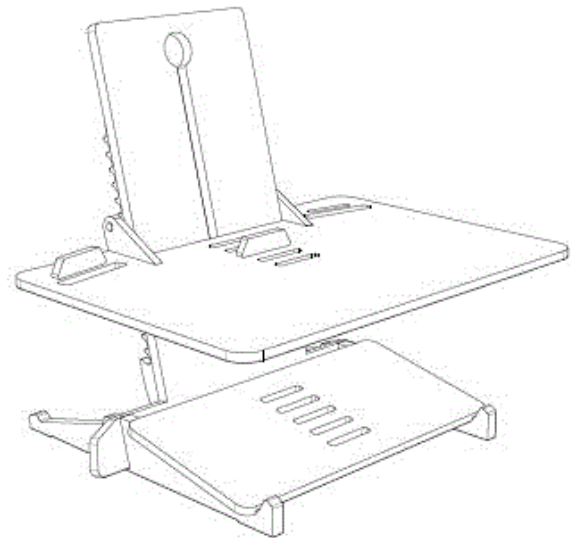
**54: LIP LINER**

57: The design relates to a lip liner. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



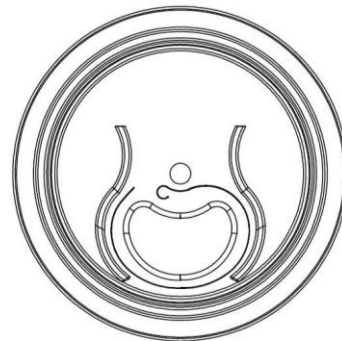
TOP PERSPECTIVE VIEW

21: A2020/01104 22: 2020-08-13 23:  
43: 2021-04-21  
52: Class 6 24: Part A  
71: HOME OFFICE DESIGNS (PTY) LTD  
**54: ADJUSTABLE COMPUTER STAND**  
57: The design relates to an adjustable computer stand. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2020/01127 22: 2020-08-19 23:  
43: 2021-04-21  
52: Class 09 24: Part A  
71: CANPACK SPÓKA AKCYJNA  
33: EU 31: 0001 008048185-0001 32: 2020-07-21  
**54: CAN ENDS (PART OF -)**  
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2020/01152 22: 2020-08-25 23:  
43: 2021-03-18  
52: Class 9. 24: Part A  
71: UNILEVER PLC  
33: EM 31: 007734199-0001 32: 2020-03-04  
**54: Spray Dispenser for Perfumed Products**

57: The design relates to a spray dispenser for perfumed products. The features of the design are those of shape and configuration.

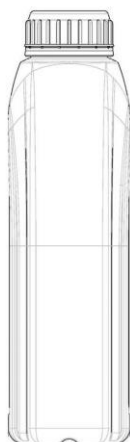


FRONT PERSPECTIVE VIEW

21: A2020/01341 22: 2020-10-07 23:  
43: 2021-05-07  
52: Class 09 24: Part A  
71: Polyoak Packaging (Pty) Ltd

**54: CONTAINER**

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2020/01342 22: 2020-10-07 23:  
43: 2021-05-07  
52: Class 09 24: Part A  
71: Polyoak Packaging (Pty) Ltd

**54: CONTAINER**

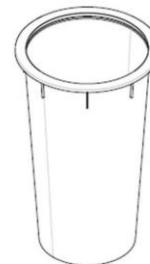
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2020/01346 22: 2020-10-07 23:  
43: 2021-05-07  
52: Class 07 24: Part A  
71: Polyoak Packaging (Pty) Ltd

**54: CUP**

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2020/01389 22: 2020-10-23 23:  
43: 2021-05-07  
52: Class 09 24: Part A  
71: ALPLA Werke Alwin Lehner GmbH & Co. KG  
33: CH 31: 145 322 32: 2020-04-23

**54: BOTTLE**

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2020/01393 22: 2020-10-23 23:  
43: 2021-05-07  
52: Class 09 24: Part A  
71: ALPLA Werke Alwin Lehner GmbH & Co. KG  
33: CH 31: 145 322 32: 2020-04-23

**54: BOTTLE**

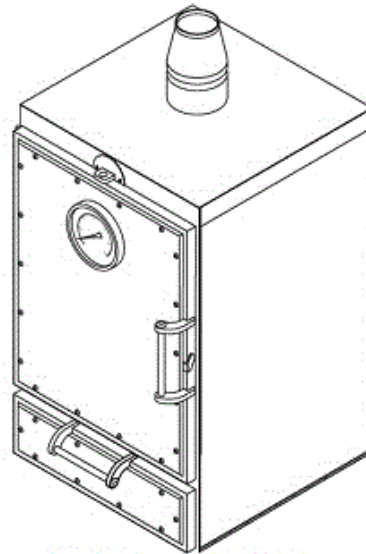
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2020/01424 22: 2020-11-04 23:  
43: 2021-05-05  
52: Class 23. 24: Part A  
71: HOSPITALITY WOOD CHARCOAL  
EQUIPMENT (PTY) LTD.

**54: Oven**

57: The design relates to an oven. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

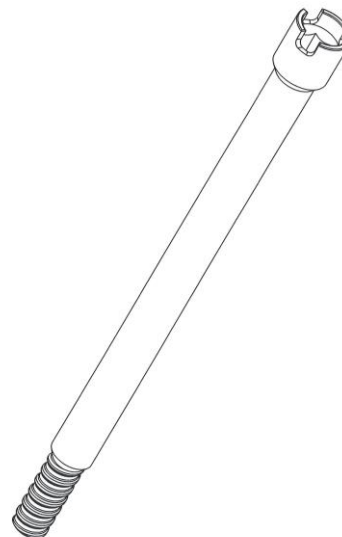


PERSPECTIVE VIEW

21: F2019/01134 22: 2019-08-21 23:  
43: 2021-03-29  
52: Class 08 24: Part F  
71: INNOVATIVE MINING PRODUCTS (PTY) LTD  
33: ZA 31: F2019/01075 32: 2019-08-07

**54: ROCK BOLT INSTALLATION TOOL**

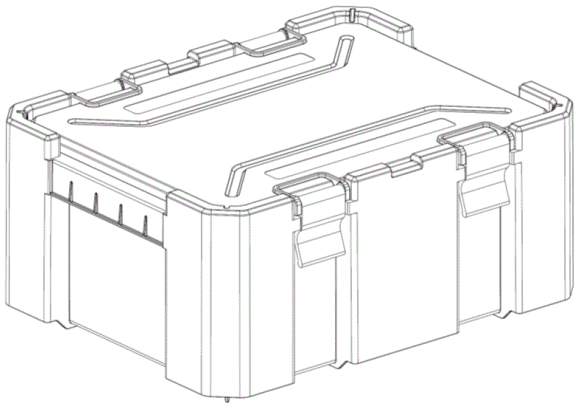
57: A novel design to the shape or configuration of a rock bolt installation tool.



21: F2019/01561 22: 2019-10-23 23:  
43: 2021-03-04  
52: Class 9 24: Part F

71: FRONT RUNNER RACKS 2000 (PTY) LTD  
**54: A BOX CONTAINER TO BE TRANSPORTED ON A ROOF RACK**

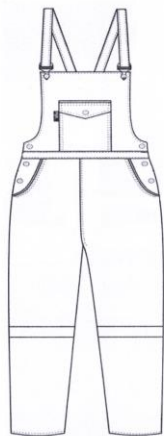
57: The design relates to a Box Container to be Transported on a Roof Rack. Protection is claimed for the features of shape and/or configuration of a Box Container to be Transported on a Roof Rack as shown in the accompanying representations.



21: F2019/01617 22: 2019-10-29 23:  
 43: 2021-05-03  
 52: Class 02 24: Part F  
 71: SELECT PPE (PTY) LTD

**54: OVERALL**

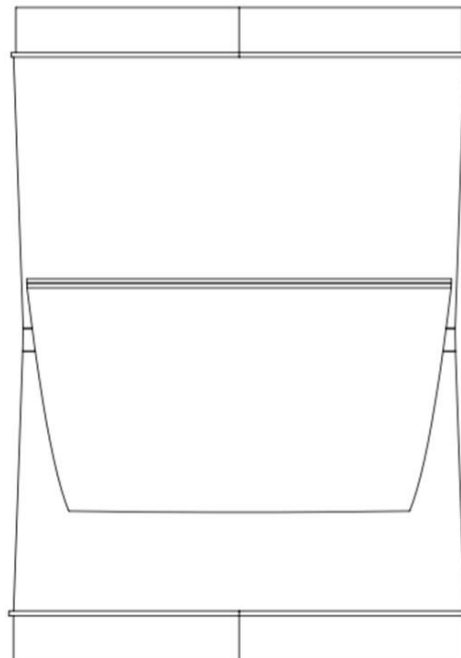
57: The novelty of the design resides in the shape and/or configuration and/or pattern of the overall substantially as shown in the accompanying drawings



21: F2019/01673 22: 2019-11-11 23:  
 43: 2021-04-12  
 52: Class 23 24: Part F

71: SELEBALO MOGALE MALEKA, TUMELO BENEDICT PULE  
**54: HYDROPONICS PLANTER**

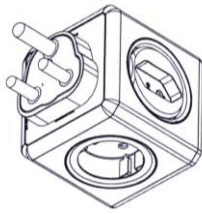
57: The Design is embodied by: 1. A planter – This is embodied by two vertical liquid ducts and a liquid reservoir. 2. A Lid – Used to enclose the reservoir and provide mechanical support to the plant. 3. A Netted cup – To house the plant. 4. A drainage plug – Used to drain liquid out of the reservoir. 5. A bottom joint – Used to channel liquid out of the planter. 6. A top joint – Used to channel liquid into the planter. 7. A liquid channeller – Used to channel liquid from the vertical duct into the reservoir.



21: F2019/01855 22: 2019-12-20 23:  
 43: 2021-05-03  
 52: Class 13 24: Part F  
 71: DESIGNNEST B.V.

**54: POWER SOCKET**

57: The novelty of the design resides in the shape and/or configuration of the power socket substantially as shown in the accompanying drawing



21: F2020/00068 22: 2020-01-21 23:  
43: 2021-03-18

52: Class 02 24: Part F  
71: CROME CHERRY LIMITED

**54: PUMPING BRA**

57: The design is applied to a pumping bra. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the pumping bra, substantially as illustrated in the accompanying representations. The textual matter appearing on the pumping bra does not form part of the design and is disclaimed. Colour does not form part of the design and is disclaimed.



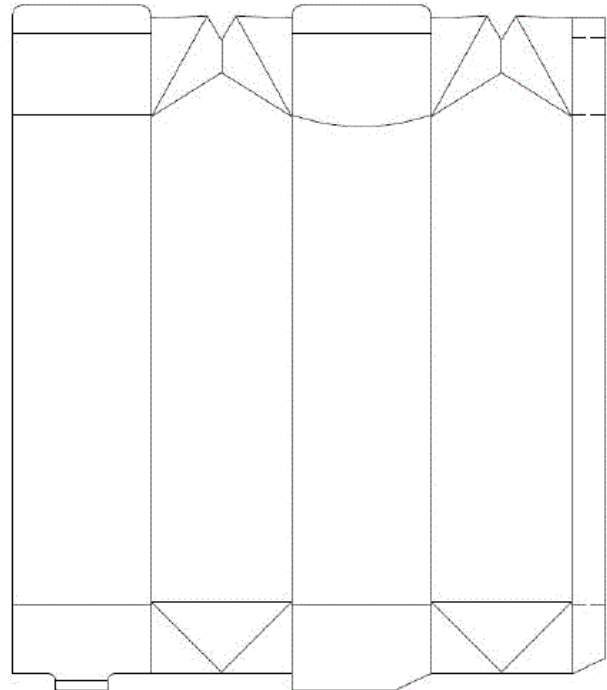
21: F2020/00239 22: 2020-02-26 23:  
43: 2019-08-26

52: Class 9 24: Part F  
71: Elopak AS

33: HSIRID(NO) 31: WIPO86756 32: 2019-08-26  
**54: CONTAINER BLANKS**

57: The design is for a container blank comprising five rectangular panels. The first four panels are equal in width, the fifth panel is narrower. Each panel comprises a first-end, to form an operative upper end of the container, and an opposite second-end, to form an operative lower end of the container. A first-end portion of the first, third and fifth panel include a pair of spaced lateral fold-lines. These fold-lines are parallel on the first and fifth panel, the fold-line closest to a centre on the third panel is convexly curved towards the centre thereof. The first-end portion of the second and fourth panel include fold-

lines forming a pair of obtuse trapezoidal folds which define a central triangular notch. A second end portion of each panel comprises a lateral fold-line. The second-end portion of the second and fourth panel include a pair of diagonal fold-lines to form a triangular fold.



Single figure  
Face-on view

21: F2020/00240 22: 2020-02-26 23:  
43: 2019-08-26

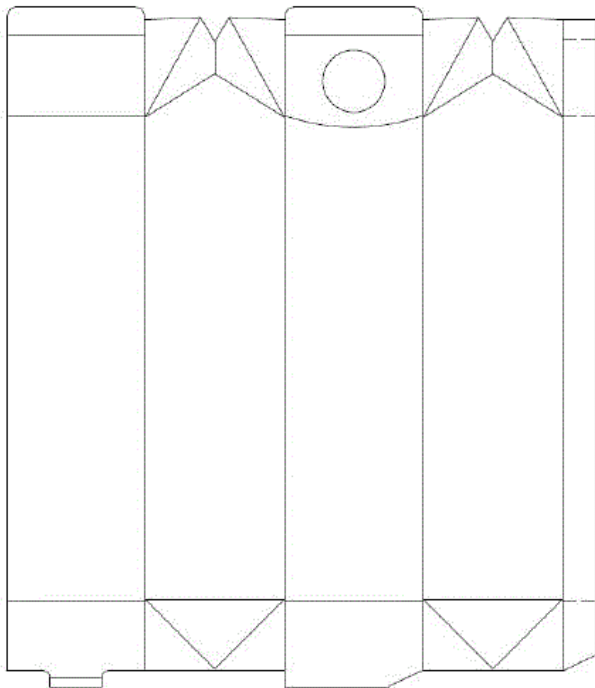
52: Class 9 24: Part F  
71: Elopak AS

33: HSIRID(NO) 31: WIPO86756 32: 2019-08-26

**54: CONTAINER BLANKS**

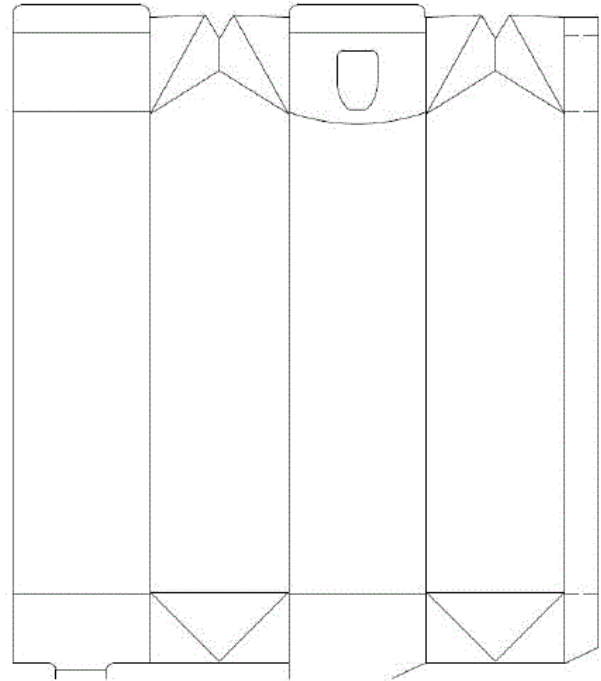
57: The design is for a container blank comprising five rectangular panels. Each panel comprises a first-end, to form an operative upper end of the container, and an opposite second-end, to form an operative lower end of the container. A first-end portion of the first, third and fifth panel include a pair of spaced lateral fold-lines. These fold-lines are parallel on the first and fifth panel, the fold-line closest to a centre on the third panel is convexly curved towards the centre thereof. A circular opening is provided between the lateral fold-lines on the third panel. The first-end portion of the second and fourth panel include fold-lines forming a pair of obtuse trapezoidal folds which define a central triangular notch. A second end portion of each panel

comprises a lateral fold-line. The second-end portion of the second and fourth panel include a pair of diagonal fold-lines to form a triangular fold.



Single figure  
Face-on view

second and fourth panel include a pair of diagonal fold-lines to form a triangular fold.



Single figure  
Face-on view

21: F2020/00241 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part F  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86756 32: 2019-08-26

#### 54: CONTAINER BLANKS

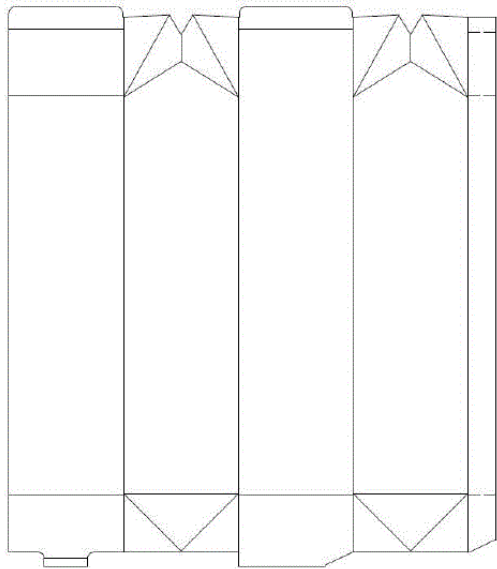
57: The design is for a container blank comprising five rectangular panels. Each panel comprises a first-end, to form an operative upper end of the container, and an opposite second-end, to form an operative lower end of the container. A first-end portion of the first, third and fifth panel include a pair of spaced lateral fold-lines. These fold-lines are parallel on the first and fifth panel, the fold-line closest to a centre on the third panel is convexly curved towards the centre thereof. A generally An irregular hexagonal fold-line oval opening is provided between the lateral fold-lines on the third panel. The first-end portion of the second and fourth panel include fold-lines forming a pair of obtuse trapezoidal folds which define a central triangular notch. A second end portion of each panel comprises a lateral fold-line. The second-end portion of the

21: F2020/00246 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part F  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86757 32: 2019-08-26

#### 54: CONTAINER BLANKS

57: The design is for a blank from which to form a container in the form of a carton. The blank is flat and roughly square comprising four longitudinally extending fold lines or lines of weakness along a length of the blank, roughly equally spaced apart, dividing the blank into four lengthwise equal panels and a fifth, smaller folding lip panel, all having a lower latitudinal fold line or line of weakness. A central tab is provided at a lower edge of the first panel. The first and third panels include slightly protruding upper edges with rounded corners. The second and fourth panels include upper and lower portions which define additional oblique fold lines or lines of weakness.



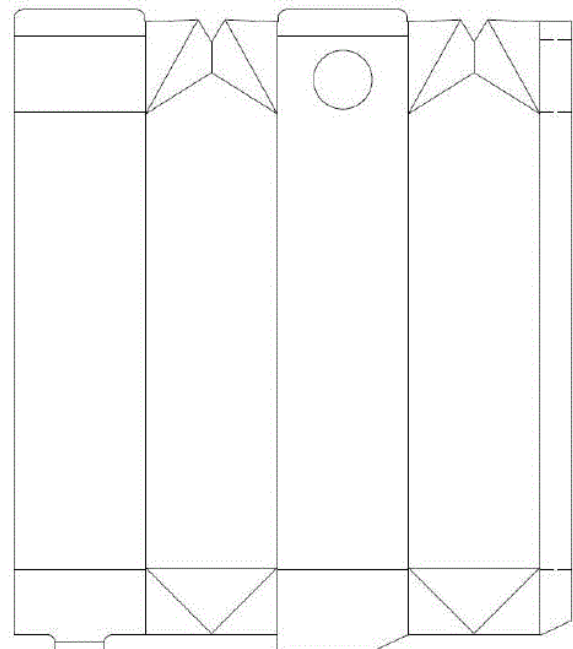


Single figure  
Face-on view

21: F2020/00247 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part F  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86757 32: 2019-08-26

**54: CONTAINER BLANKS**

57: The design is for a blank from which to form a container in the form of a carton. The blank is flat and roughly square comprising four longitudinally extending fold lines or lines of weakness along a length of the blank, roughly equally spaced apart, dividing the blank into four lengthwise equal panels and a fifth, smaller folding lip panel, all having a lower latitudinal fold line or line of weakness. A central tab is provided at a lower edge of the first panel. The first and third panels include slightly protruding upper edges with rounded corners. The second and fourth panels include upper and lower portions which define additional oblique fold lines or lines of weakness. The upper portion of the third panel is defines a central, circle.

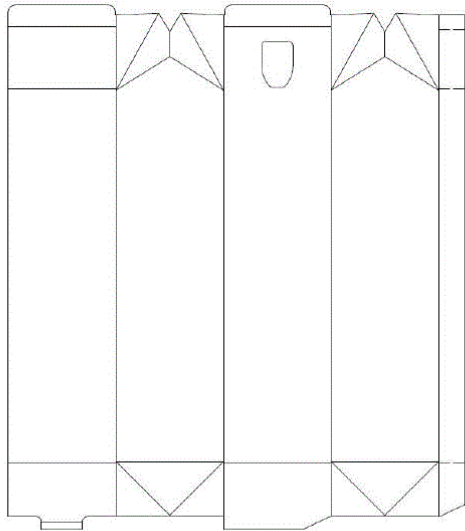


Single figure  
Face-on view

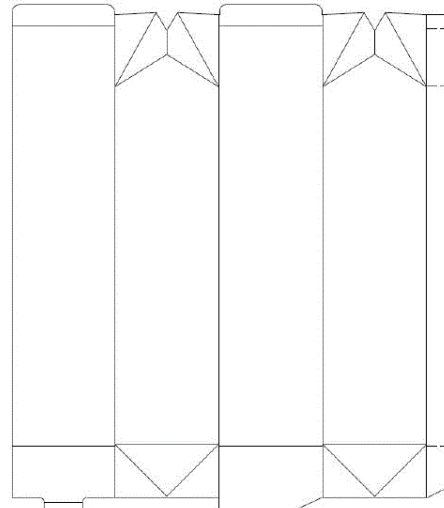
21: F2020/00249 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part F  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86757 32: 2019-08-26

**54: CONTAINER BLANKS**

57: The design is for a blank from which to form a container in the form of a carton. The blank is flat and roughly square comprising four longitudinally extending fold lines or lines of weakness along a length of the blank, roughly equally spaced apart, dividing the blank into four lengthwise equal panels and a fifth, smaller folding lip panel, all having a lower latitudinal fold line or line of weakness. A central tab is provided at a lower edge of the first panel. The first and third panels include a slightly protruding upper edge with rounded corners. The second and fourth panels include upper and lower portions which define additional oblique fold lines or lines of weakness. The upper portion of the third panel defines a central bullet-shaped formation.



Single figure  
Face-on view



Single figure  
Face-on view

21: F2020/00254 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part F  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86758 32: 2019-08-26

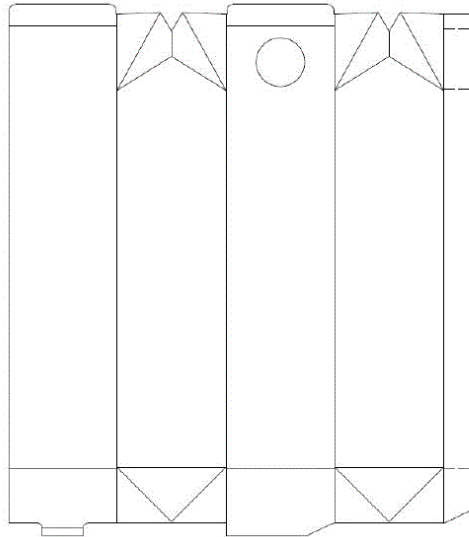
**54: CONTAINER BLANKS**

57: The design is for a container blank comprising five rectangular panels. The first four panels are equal in width, the fifth panel is narrower. Each panel comprises a first-end, to form an operative upper end of the container, and an opposite second-end, to form an operative lower end of the container. A first-end portion of the first and third panels include a lateral fold-line. A first-end portion of the fifth panel includes a pair of parallel lateral fold-lines. The first-end portion of the second and fourth panels include fold-lines forming a pair of obtuse trapezoidal folds which define a central triangular notch. A second end portion of each panel comprises a lateral fold-line. The second-end portion of the second and fourth panel include a pair of diagonal fold-lines to form a triangular fold.

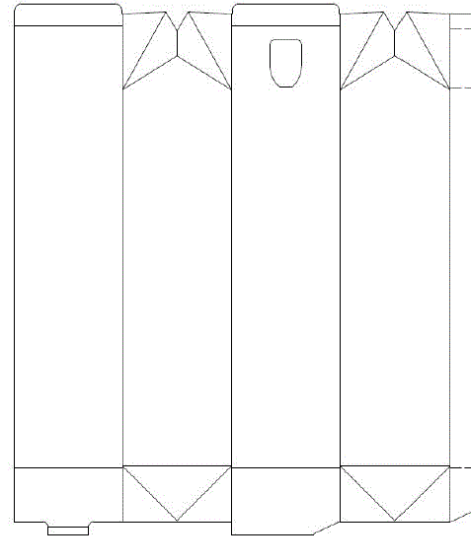
21: F2020/00255 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part F  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86758 32: 2019-08-26

**54: CONTAINER BLANKS**

57: The design is for a container blank comprising five rectangular panels. The first four panels are equal in width, the fifth panel is narrower. Each panel comprises a first-end, to form an operative upper end of the container, and an opposite second-end, to form an operative lower end of the container. A first-end portion of the first and third panels include a lateral fold-line. A circular opening is provided below the lateral fold-line on the third panel. A first-end portion of the fifth panel includes a pair of parallel lateral fold-lines. The first-end portion of the second and fourth panels include fold-lines forming a pair of obtuse trapezoidal folds which define a central triangular notch. A second end portion of each panel comprises a lateral fold-line. The second-end portion of the second and fourth panel include a pair of diagonal fold-lines to form a triangular fold.



Single figure  
Face-on view



Single figure  
Face-on view

21: F2020/00256 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part F  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86758 32: 2019-08-26

**54: CONTAINER BLANKS**

57: The design is for a container blank comprising five rectangular panels. The first four panels are equal in width, the fifth panel is narrower. Each panel comprises a first-end, to form an operative upper end of the container, and an opposite second-end, to form an operative lower end of the container. A first-end portion of the first and third panels include a lateral fold-line. A generally oval opening is provided below the lateral fold-line on the third panel. A first-end portion of the fifth panel includes a pair of parallel lateral fold-lines. The first-end portion of the second and fourth panels include fold-lines forming a pair of obtuse trapezoidal folds which define a central triangular notch. A second end portion of each panel comprises a lateral fold-line. The second-end portion of the second and fourth panel include a pair of diagonal fold-lines to form a triangular fold.

21: F2020/00258 22: 2020-02-26 23:  
43: 2019-08-26  
52: Class 9 24: Part F  
71: Elopak AS  
33: HSIRID(NO) 31: WIPO86752 32: 2019-08-26

**54: CONTAINER BLANKS**

57: The design is for a container blank comprising four foldable rectangular panels and a fifth narrow rectangular end panel. Upper portions of a first and third panel each include a pair of spaced apart lateral fold-lines. Upper portions of a second and fourth panel include fold-lines forming a pair of adjacent obtuse trapezium-shaped folds. A top wall of the second and fourth panels defines a centrally positioned triangular notch. An upper portion and a lower portion of the fifth panel include a pair of spaced apart broken lateral fold-lines. Lower portions of the first and third panels each include a lateral fold-line. A bottom wall of the first panel includes a centrally positioned rectangular extension that protrudes past the bottom wall. The bottom wall of the third panel includes an inclined corner. Lower portions of the second and fourth panels include a lateral fold line from which a pair of oblique fold-lines extend to form a triangular-shaped fold.

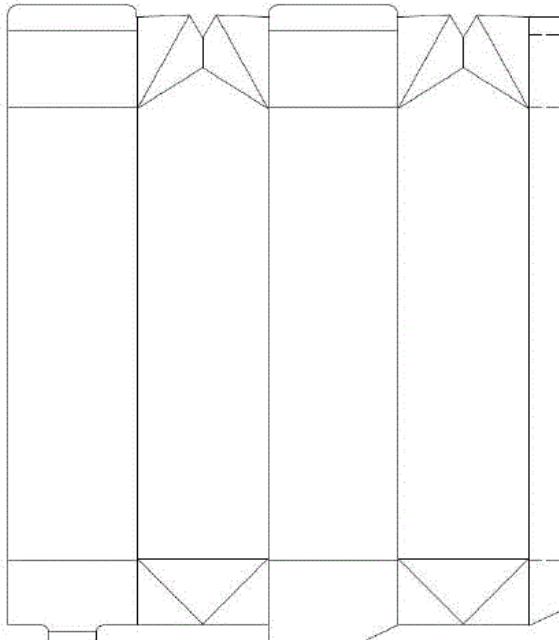


Figure 1

Face-on view

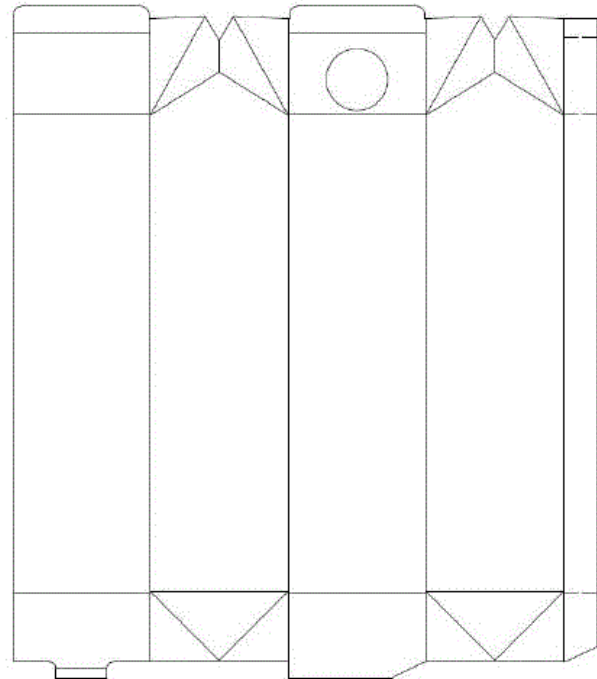


Figure 1

Face-on view

21: F2020/00259 22: 2020-02-26 23:

43: 2019-08-26

52: Class 9 24: Part F

71: Elopak AS

33: HSIRID(NO) 31: WIPO86752 32: 2019-08-26

#### 54: CONTAINER BLANKS

57: The design is for a container blank comprising four foldable rectangular panels and a fifth narrow rectangular panel. Upper portions of a first and third panel include a pair of spaced apart lateral fold-lines. The upper portion of the third panel includes a circular engraved line. Upper portions of a second and fourth panel include fold-lines forming a pair of adjacent obtuse trapezium-shaped folds. A top wall of the second and fourth panels defines a triangular notch. An upper portion and a lower portion of the fifth panel include a pair of lateral fold-lines. Lower portions of the first and third panels include a lateral fold-line. A bottom wall of the first panel includes a rectangular extension that protrudes past the bottom wall. The bottom wall of the third panel includes an inclined corner. Lower portions of the second and fourth panels include a lateral fold line from which a pair of oblique fold-lines extend to form a triangular-shaped fold.

21: F2020/00260 22: 2020-02-26 23:

43: 2019-08-26

52: Class 9 24: Part F

71: Elopak AS

33: HSIRID(NO) 31: WIPO86752 32: 2019-08-26

#### 54: CONTAINER BLANKS

57: The design is for a container blank comprising four foldable rectangular panels and a fifth narrow rectangular panel. Upper portions of a first and third panel include a pair of spaced apart lateral fold-lines. The upper portion of the third panel includes an irregular hexagonal engraved line. Upper portions of a second and fourth panel include fold-lines forming a pair of adjacent obtuse trapezium-shaped folds. A top wall of the second and fourth panels defines a triangular notch. An upper portion and a lower portion of the fifth panel include a pair of lateral fold-lines. Lower portions of the first and third panels include a lateral fold-line. A bottom wall of the first panel includes a rectangular extension that protrudes past the bottom wall. The bottom wall of the third panel includes an inclined corner. Lower portions of the second and fourth panels include a lateral fold line from which a pair of oblique fold-lines extend to form a triangular-shaped fold.

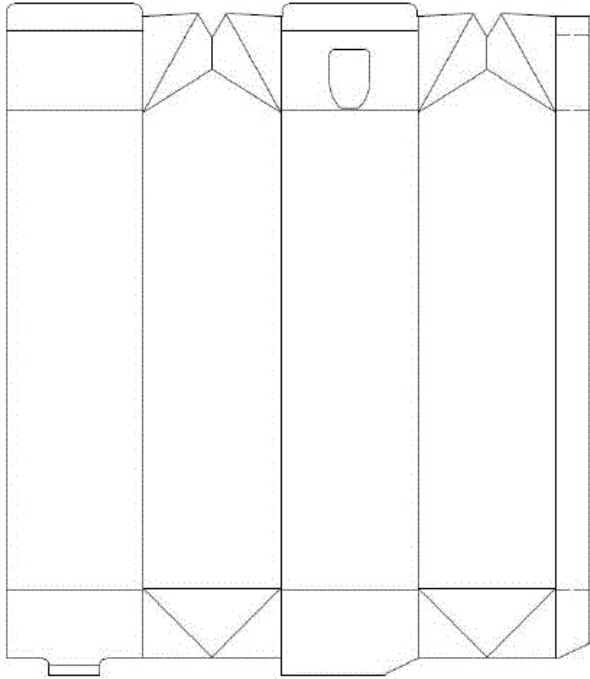
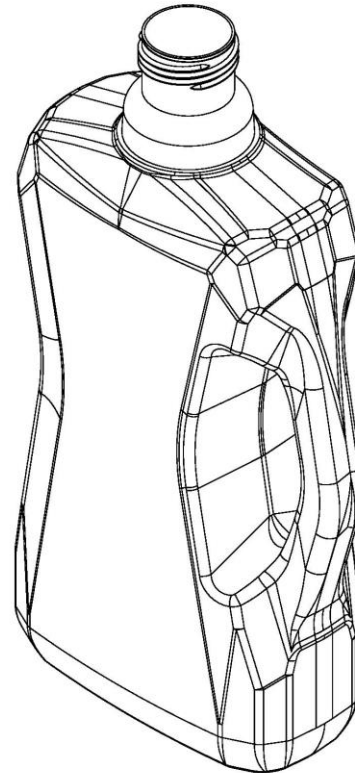


Figure 1  
Face-on view



21: F2020/00306 22: 2020-03-05 23:  
43: 2021-03-24  
52: Class 09 24: Part F  
71: Polokwane Chemical Suppliers  
**54: CONTAINER**  
57: The features of the design for which novelty is claimed are the shape and/or configuration and/or pattern of a container as shown in the accompanying representations.

21: F2020/00449 22: 2020-05-04 23:  
43: 2019-11-04  
52: Class 12 24: Part F  
71: Truck Accessories Group, LLC  
33: US 31: 29/711,962 32: 2019-11-04  
**54: VEHICLE ACCESSORIES**  
57: The design is for a truck cap which fits over the truck bed or cargo box of a pickup truck. The cap has a top surface, with two perpendicular side surfaces extending from the top surface along with a hinged door that extends from one end of the top surface and when in a closed configuration the door is perpendicular to the top surface and meets the edges of the side surfaces converting the open-air truck bed or cargo box into an accessible closed space. The door hingedly opens and closes to allow or prevent access to the truck bed or cargo. The cap includes a video mount that is selectively extendable and retractable with respect to the cap. An audio system is also attached to the cap. Door hinges attached to both the cap and cap door are configured to hingedly open and close same.

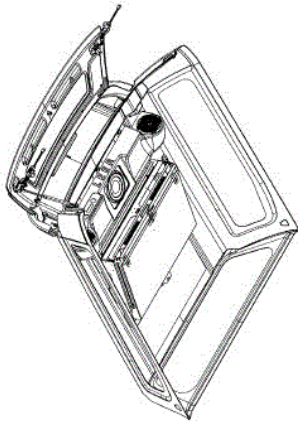


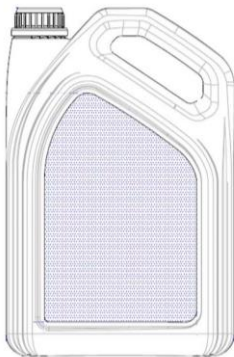
Figure 15

Three-dimensional view with the rear hatch in the open condition, the monitor mount in an undeployed configuration and with an audio system

21: F2020/00504 22: 2020-05-04 23:  
43: 2021-04-15  
52: Class 09 24: Part F  
71: Polyoak Packaging (Pty) Ltd

**54: CONTAINER**

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).

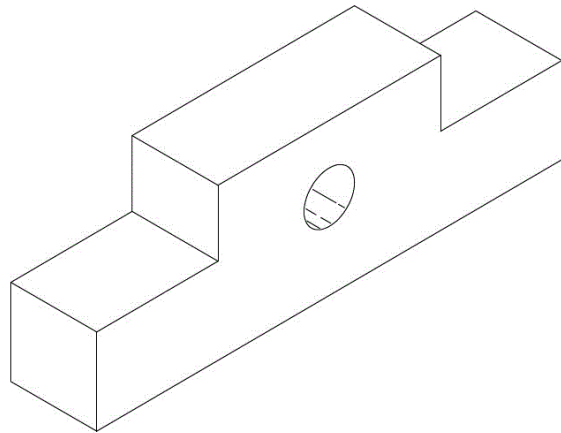


21: F2020/00513 22: 2020-05-04 23:  
43: 2020-05-04  
52: Class 25 24: Part F  
71: MATLAUPANE, Palesa Bohlale

**54: BRICK**

57: The design is applied to a brick substantially as illustrated in the accompanying representations. The brick comprises a body having a front major face and an opposite rear major face, and the body defines openings on the front and major faces, the openings being disposed substantially at the centre of the brick and a passageway extending between the openings. The distance between the border of

any of the openings and any of the edges of the brick is at least equivalent to the distance between the centre of the opening and the border of the opening.



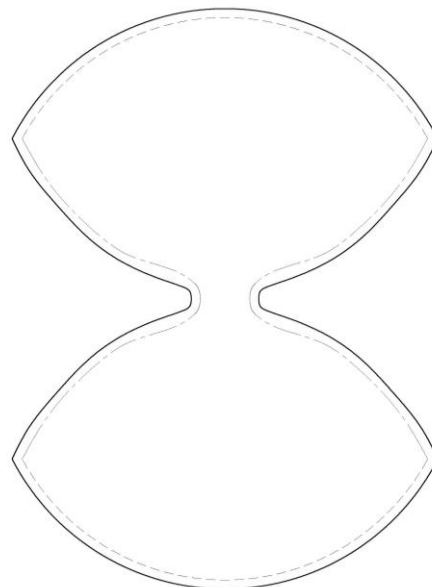
21: F2020/00528 22: 2020-05-05 23:  
43: 2020-04-29

52: Class 29 24: Part F

71: Palm Footwear Manufacturers (Pty) Ltd

**54: MASKS**

57: This design is for a blank for a portion of a face mask having a generally planar body with a bow-tie shaped outline.



Plan view

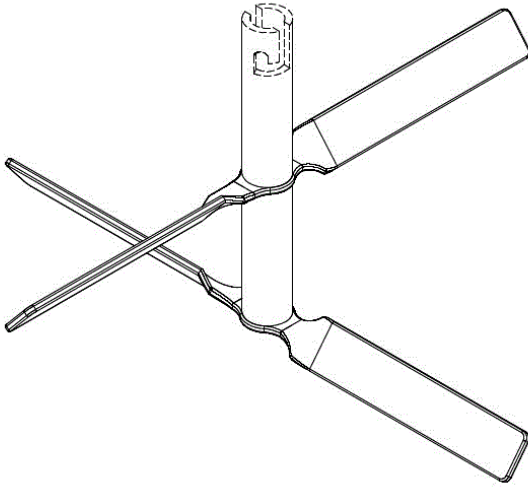
21: F2020/00550 22: 2020-05-07 23:  
43: 2020-05-07

52: Class 31 24: Part F

71: ZHEUNG, Gordon

**54: AGITATOR**

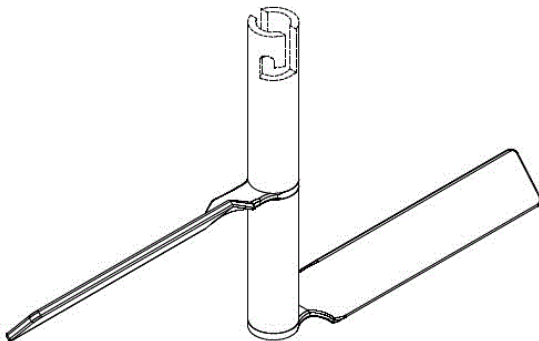
57: The design is applied to an agitator substantially as illustrated in the accompanying representations.



21: F2020/00552 22: 2020-05-07 23:  
43: 2020-05-07  
52: Class 31 24: Part F  
71: ZHEUNG, Gordon

**54: AGITATOR**

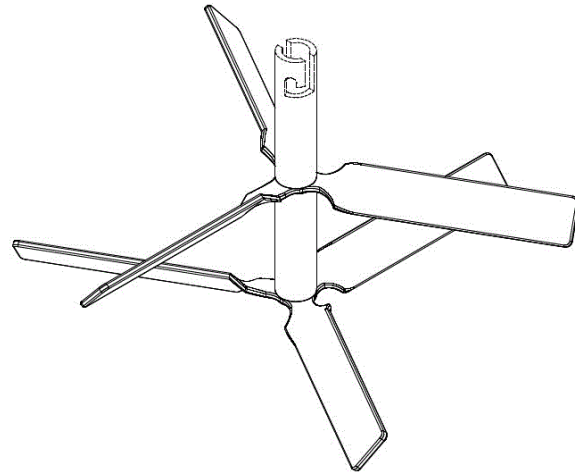
57: The design is applied to an agitator substantially as illustrated in the accompanying representations.



21: F2020/00554 22: 2020-05-07 23:  
43: 2020-05-07  
52: Class 31 24: Part F  
71: ZHEUNG, Gordon

**54: AGITATOR**

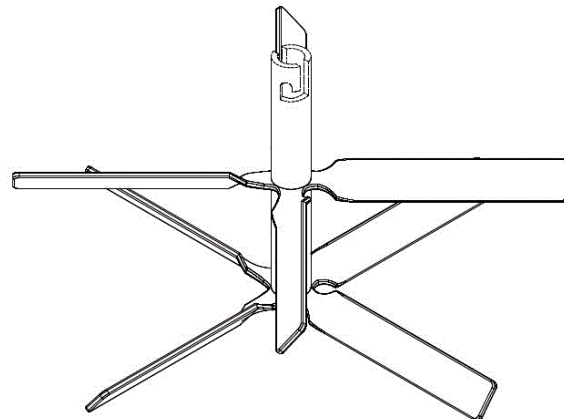
57: The design is applied to an agitator substantially as illustrated in the accompanying representations.



21: F2020/00556 22: 2020-05-07 23:  
43: 2020-05-07  
52: Class 31 24: Part F  
71: ZHEUNG, Gordon

**54: AGITATOR**

57: The design is applied to an agitator substantially as illustrated in the accompanying representations.

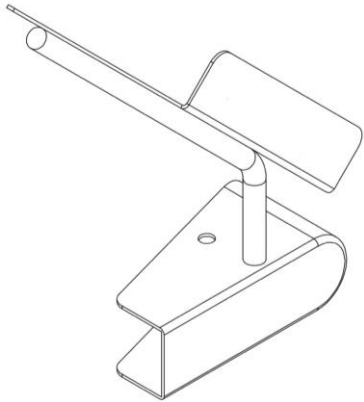


21: F2020/00581 22: 2020-05-12 23:  
43: 2021-03-17  
52: Class 08 24: Part F  
71: EHLERS, Jan Gerhardus

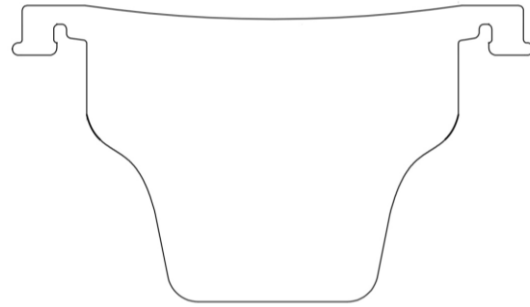
**54: DOOR HANDLES**

57: The design is for a door handle. Specifically, the design is for a door handle adaptor which renders a conventional door handle hands-free. The door handle adaptor includes a sleeve attachment pocket for attaching the hands-free door handle to the conventional door handle, a connecting arm which extends upwards from the sleeve attachment pocket and an arm-engaging formation which extends outwards from the connecting arm. The sleeve attachment pocket is shaped and dimensioned to fit over at least a portion of the conventional door

handle. The connecting arm includes a vertical portion extending upwards from the sleeve attachment member, a counter-clockwise bend and a diagonal portion which extends outwards and upwards, such that the arm-engaging formation is supported spaced apart from the conventional door handle. The arm-engaging formation is in the form of an angle bracket which provides an angle in which an arm of a user can be cradled.



Three-dimensional view



Front view

21: F2020/00597 22: 2020-05-15 23:

43: 2021-03-17

52: Class 9 24: Part F

71: LAUBSCHER, Joseph

**54: DUAL CHAMBER CONTAINER**

57: The Design provides a dual chamber container as shown in the representation, having two interlocking independently moulded chambers each moulded by injection or blow moulding equipment with the two halves interlocking with keys and sockets much like a puzzle pieces and the top part of the two chambers having a continuous screw thread to fit the single squirt nozzle onto the two chamber mto form a single dual chamber container

21: F2020/00585 22: 2020-05-12 23:

43: 2021-03-17

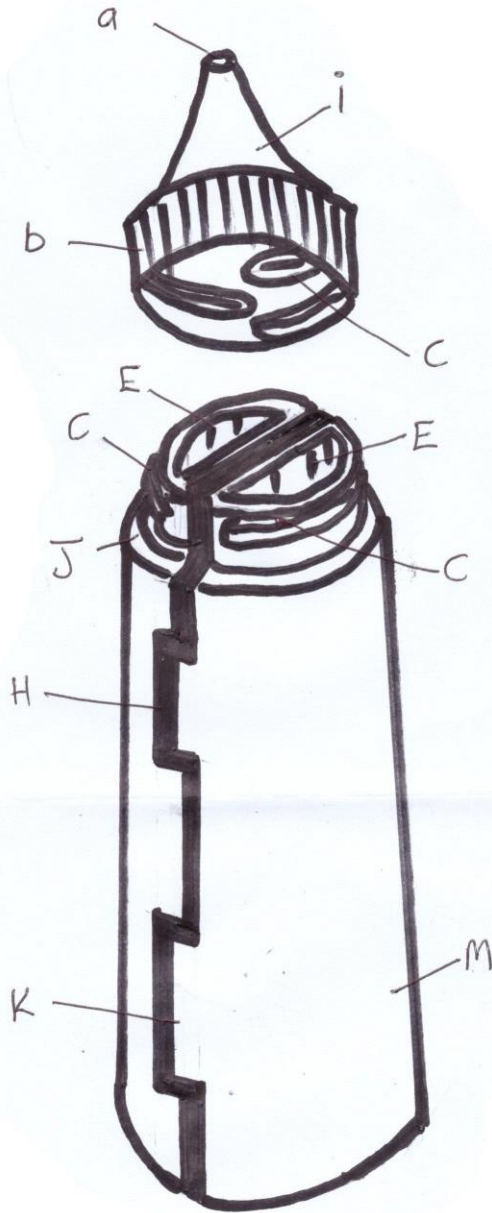
52: Class 29 24: Part F

71: EHLERS, Jan Gerhardus

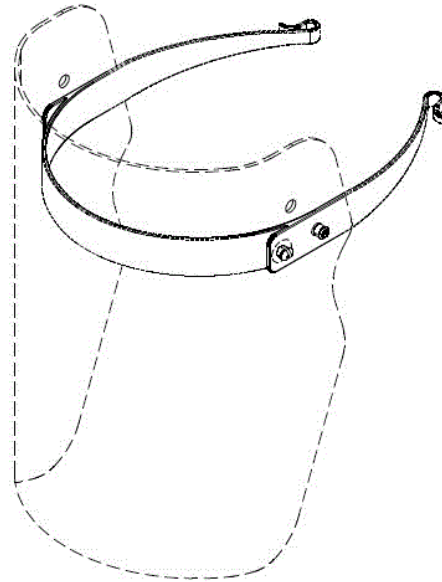
**54: FACE SHIELDS**

57: The design is for a face shield. Specifically, the design is for a face shield which in use is affixed to an upper surface of a hard hat. The face shield is defined by a planar body which is flexible and transparent. The planar body includes two attachment formations positioned on opposing sides of the planar body. Each attachment formation includes an outwardly extending arm having a notch which in use, engages an outer rim of the hard hat, and a tongue which in use, extends into a slot formed on the periphery of the hard hat. The planar body is further defined by a stepped taper such that in use, a portion of the face shield covering a user's eyes is wider and squarer than a portion of the face shield which covers the user's nose and mouth.





the user's face thus shielding it and an inoperative, open position in which the visor is spaced away from the user's face. The detent arrangement includes a barbed pin on each side of the headband which is configured to be received, in push-fit or snap-fit fashion, through either one of a pair of angularly spaced apart holes formed in each side of the visor to lock the visor in either of its two positions.



Three-dimensional view in closed position

21: F2020/00598 22: 2020-05-18 23:  
43: 2020-05-18  
52: Class 29 24: Part F  
71: WITHERS, Robert Graham

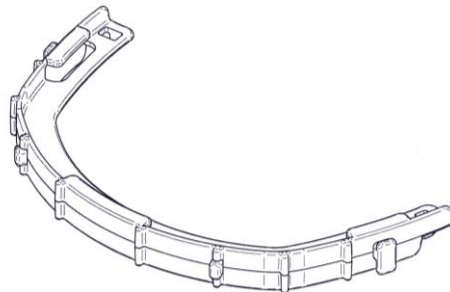
**54: FACE SHIELDS**

57: The design is for a face shield, specifically, for a detent arrangement of the face shield. The face shield includes a roughly C-shaped headband which is configured to engage and mount to a user's head and a full-face see-through visor which is pivotally connected to the headband by way of laterally spaced apart pivots. The visor is pivotally displaceable relative to the headband between an operative, closed position in which the visor abuts

21: F2020/00653 22: 2020-05-25 23:  
43: 2021-04-15  
52: Class 29 24: Part F  
71: ROHLAND MADE CC

**54: VISOR FRAME**

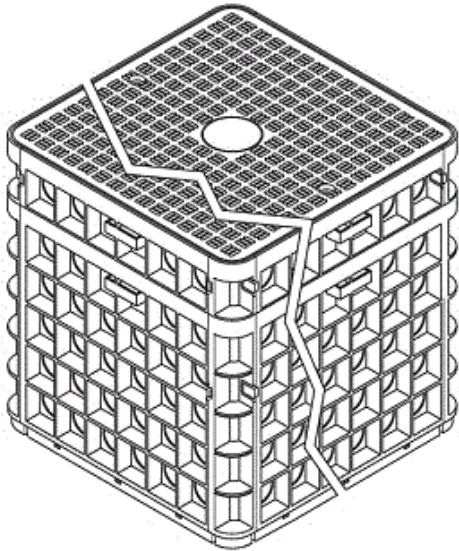
57: The novelty of the design resides in the shape or configuration of a visor frame substantially as shown in the accompanying representation.



21: F2020/00656 22: 2020-05-25 23:  
43: 2021-03-11  
52: Class 14. 24: Part F  
71: MANHOLES 4 AFRICA (PTY) LTD

**54: Chamber Assembly**

57: The design relates to a chamber assembly. The features of the design are those of shape and/or configuration and/or pattern.

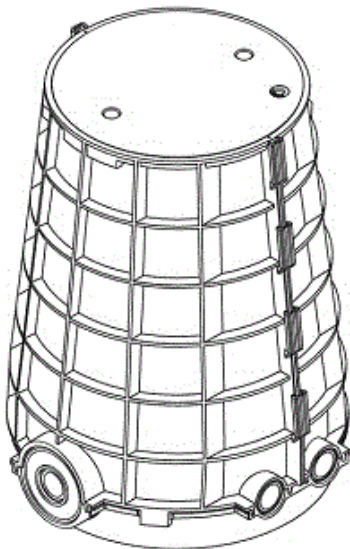


PERSPECTIVE VIEW

21: F2020/00657 22: 2020-05-25 23:  
43: 2021-03-11  
52: Class 14. 24: Part F  
71: MANHOLES 4 AFRICA (PTY) LTD

**54: Chamber Assembly**

57: The design relates to a chamber assembly. The features of the design are those of shape and/or configuration.

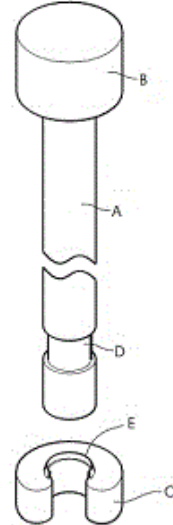


ASSEMBLED PERSPECTIVE VIEW

21: F2020/00659 22: 2020-05-25 23:  
43: 2021-03-11  
52: Class 8. 24: Part F  
71: MANHOLES 4 AFRICA (PTY) LTD

**54: Fastener**

57: The design relates to a fastener. The features of the design are those of shape and/or configuration.



TOP EXPLODED PERSPECTIVE VIEW OF FIRST EMBODIMENT

21: F2020/00669 22: 2020-05-27 23:  
43: 2021-03-17  
52: Class 06 24: Part F  
71: NEL, Willem Johannes, NYATANGA, Rick Irvo

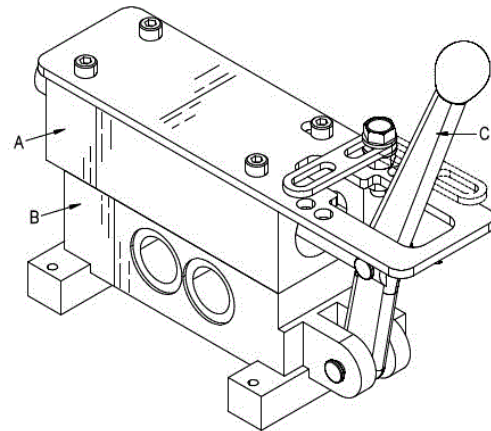
**54: A DESK SCREEN**

57: The novelty of the design resides in the shape and/or configuration of a desk screen, substantially as shown in the accompanying representations.



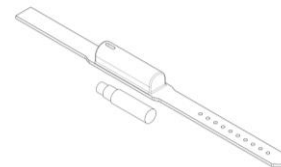
21: F2020/00781 22: 2020-06-11 23:  
43: 2020-06-11  
52: Class 23 24: Part F  
71: JANSSEN, Cornelius Johannes  
**54: VALVES**

57: The invention relates to a valve at least partly cast using aluminium. The valve includes a rectangular body which includes an upper and a lower portion. A pair of laterally extending feet for securing the valve to a surface are connected to the lower portion which also defines two adjacent circular ports in one side thereof. The valve also includes a circular cylindrical plunger received in a longitudinal bore defined by the upper portion, the plunger being movable between open and closed positions by an actuating lever which is pivotally connected to an end of the plunger and the lower portion of the body by way of clevis joints. The valve further includes a planar locking plate mounted to an upper surface of the upper portion, the locking plate having a slot and a transverse locking member which operatively extends across the slot to control a position of the actuating lever.

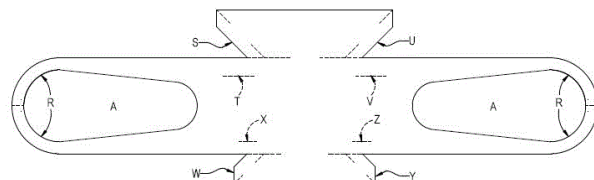


Three-dimensional view

21: F2020/00782 22: 2020-06-11 23:  
43: 2021-04-15  
52: Class 03 24: Part F  
71: Cornelius Johannes Engelbrecht  
**54: WEARABLE SANITISER DISPENSER**  
57: The design relates to a Wearable sanitiser dispenser. The features of the design are those of shape and/or pattern and/or configuration.



21: F2020/00784 22: 2020-06-11 23:  
43: 2020-06-11  
52: Class 2 24: Part F  
71: YASH FOAM TECHNOLOGIES CC  
**54: FOLDABLE FACE MASKS**  
57: The design for which protection is claimed is foldable face mask substantially as shown in the accompanying representations.

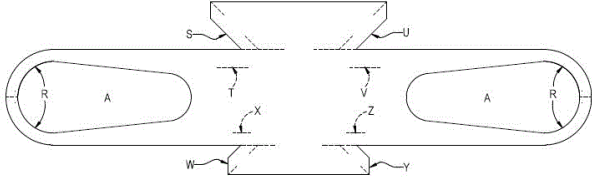


21: F2020/00785 22: 2020-06-11 23:  
43: 2020-06-11  
52: Class 5 24: Part F

71: YASH FOAM TECHNOLOGIES CC

**54: FOLDABLE FACE MASKS**

57: The design for which protection is claimed is foldable face mask substantially as shown in the accompanying representations.



21: F2020/00786 22: 2020-06-11 23:

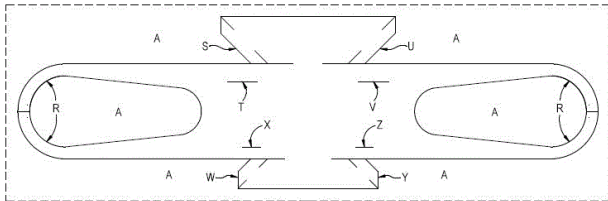
43: 2020-06-11

52: Class 2 24: Part F

71: YASH FOAM TECHNOLOGIES CC

**54: BLANKS FOR FOLDABLE FACE MASKS**

57: The design for which protection is claimed is a blank for a foldable face mask substantially as shown in the accompanying representations.



21: F2020/00787 22: 2020-06-11 23:

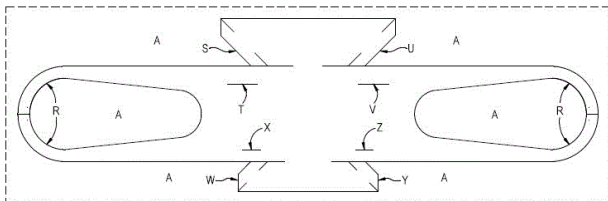
43: 2020-06-11

52: Class 5 24: Part F

71: YASH FOAM TECHNOLOGIES CC

**54: BLANKS FOR FOLDABLE FACE MASKS**

57: The design for which protection is claimed is a blank for a foldable face mask substantially as shown in the accompanying representations.



21: F2020/00788 22: 2020-06-11 23:

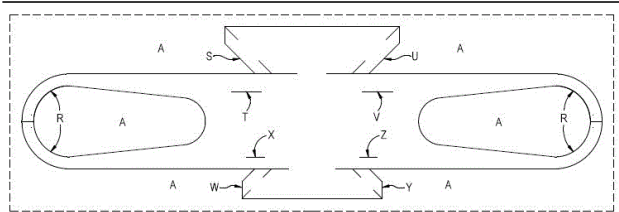
43: 2020-06-11

52: Class 24 24: Part F

71: YASH FOAM TECHNOLOGIES CC

**54: BLANKS FOR FOLDABLE FACE MASKS**

57: The design for which protection is claimed is a blank for a foldable face mask substantially as shown in the accompanying representations.



21: F2020/00789 22: 2020-06-11 23:

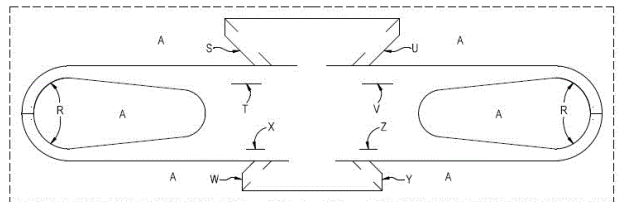
43: 2020-06-11

52: Class 28 24: Part F

71: YASH FOAM TECHNOLOGIES CC

**54: BLANKS FOR FOLDABLE FACE MASKS**

57: The design for which protection is claimed is a blank for a foldable face mask substantially as shown in the accompanying representations.



21: F2020/00790 22: 2020-06-11 23:

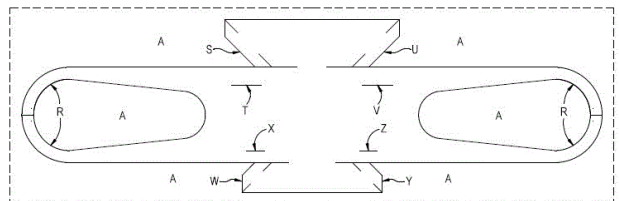
43: 2020-06-11

52: Class 29 24: Part F

71: YASH FOAM TECHNOLOGIES CC

**54: BLANKS FOR FOLDABLE FACE MASKS**

57: The design for which protection is claimed is a blank for a foldable face mask substantially as shown in the accompanying representations.



21: F2020/00796 22: 2020-06-11 23:

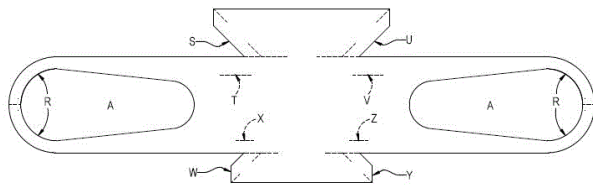
43: 2020-06-11

52: Class 24 24: Part F

71: YASH FOAM TECHNOLOGIES CC

**54: FOLDABLE FACE MASKS**

57: The design for which protection is claimed is foldable face mask substantially as shown in the accompanying representations.



21: F2020/00797 22: 2020-06-11 23:

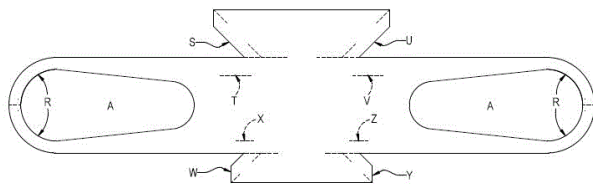
43: 2020-06-11

52: Class 28 24: Part F

71: YASH FOAM TECHNOLOGIES CC

**54: FOLDABLE FACE MASKS**

57: The design for which protection is claimed is foldable face mask substantially as shown in the accompanying representations.



21: F2020/00798 22: 2020-06-11 23:

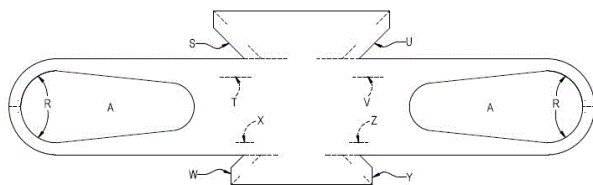
43: 2020-06-11

52: Class 29 24: Part F

71: YASH FOAM TECHNOLOGIES CC

**54: FOLDABLE FACE MASKS**

57: The design for which protection is claimed is foldable face mask substantially as shown in the accompanying representations.



21: F2020/00826 22: 2020-06-15 23:

43: 2020-06-15

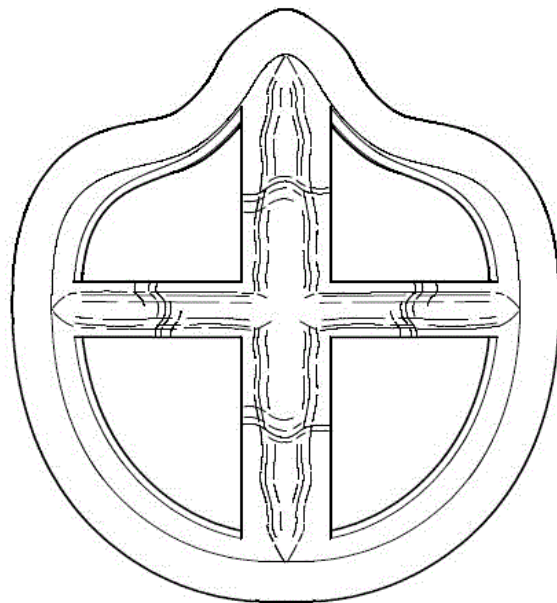
52: Class 24 24: Part F

71: LINDER, Ernst Wilfred, SLABBERT, Hein de Villiers

**54: Face Masks**

57: The design relates to a face mask. The face mask conforms to the anatomical shape of a human wearer's face so as to be located over the mouth

and nose of the wearer. The face mask has a generally annular slender seating formation which seats against the wearer's face when worn, extending around the mouth and nose of the wearer. The seating formation comprises a generally circular portion which extends around the mouth of a wearer and a raised portion which extends over a bridge of the wearer's nose. The face mask includes a domed inverted Y-shaped formation defined by three slender elements which join at a central apex region. Three openings are defined between the slender elements and the seating formation.



Front view

21: F2020/00828 22: 2020-06-15 23:

43: 2020-06-15

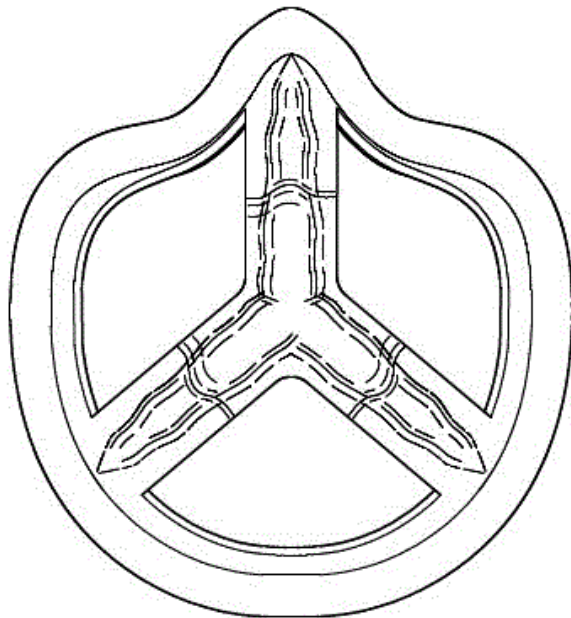
52: Class 24 24: Part F

71: LINDER, Ernst Wilfred, SLABBERT, Hein de Villiers

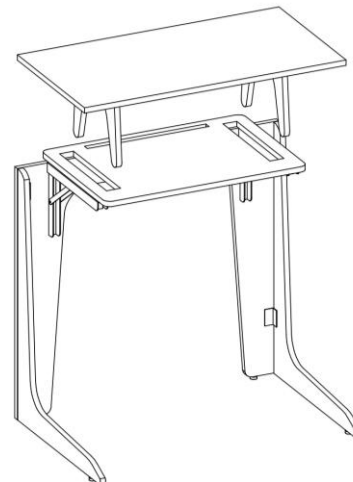
**54: Face Masks**

57: The design relates to a face mask. The face mask conforms to the anatomical shape of a human wearer's face so as to be located over the mouth and nose of the wearer. The face mask has a generally annular slender seating formation which seats against the wearer's face when worn, extending around the mouth and nose of the wearer. The seating formation comprises a generally circular portion which extends around the mouth of a wearer and a raised portion which extends over a bridge of the wearer's nose. The face mask includes a domed inverted Y-shaped formation defined by three slender elements which join at a central apex region.

Three openings are defined between the slender elements and the seating formation.



Front view



Three-dimensional front view in use showing the lap desk extracted from the tabletop support.

21: F2020/00847 22: 2020-06-18 23:  
43: 2021-03-17  
52: Class 06 24: Part F  
71: GEEL, Werner

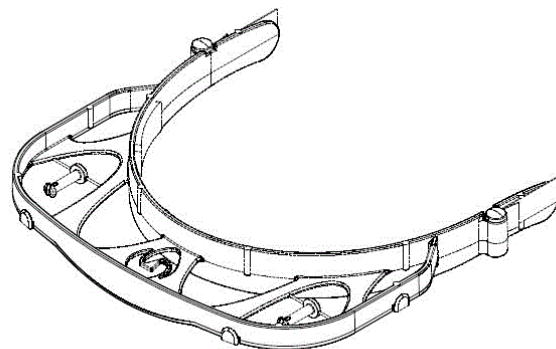
**54: DESKS**

57: The design is for a collapsible desk. The desk is defined by a tabletop support, hinged to an inverted U-shaped back support and two substantially L-shaped legs hinged to the sides of the U-shape back support. The L-shaped legs are collapsible and can fold inwards towards each other. Furthermore, the tabletop support is collapsible to fold inwards towards the inverted U-shape back support. The tabletop support includes two vertical slots positioned on the opposing sides of the tabletop support. The desk further includes a collapsible lap desk, of which the supporting legs can be inserted through the two vertical slots of the tabletop support to provide a tabletop. The supporting legs are capable of being folded inwards, attaching the collapsible lap desk to the tabletop support. In a collapsed condition the desk is folded flat and can be carried using a horizontal slot on the tabletop support.

21: F2020/00860 22: 2020-06-19 23:  
43: 2020-04-17  
52: Class 29 24: Part F  
71: PIMMS FAMOUS BRANDS (PTY) LTD.

**54: FRONT WALLS FOR FACE SHIELD APPARATUS**

57: The design is for a curvature profile of a front wall of a frame of a face shield apparatus. The front wall is generally arcuate, having a gently curved front section, leading to rounded corners at each side of the front section, and leading to straight side portions rearwardly of the rounded corners. The front wall supports and shapes a clear shield.

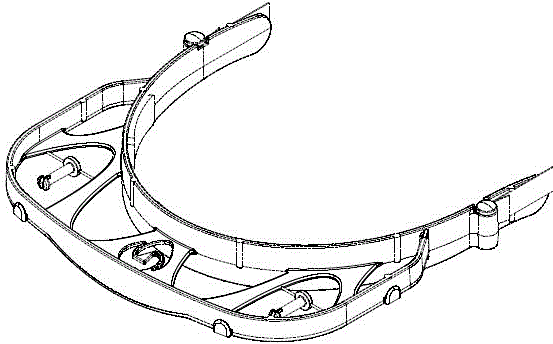


Three-dimensional view (no shield)

21: F2020/00861 22: 2020-06-19 23:  
43: 2020-04-17  
52: Class 29 24: Part F  
71: PIMMS FAMOUS BRANDS (PTY) LTD.

**54: SUPPORT STRUCTURES FOR FACE SHIELD APPARATUS**

57: The design is for a support structure extending in a plane between a front wall and a headband of a frame for a face shield apparatus. The support structure has prominent, part elliptical apertures.

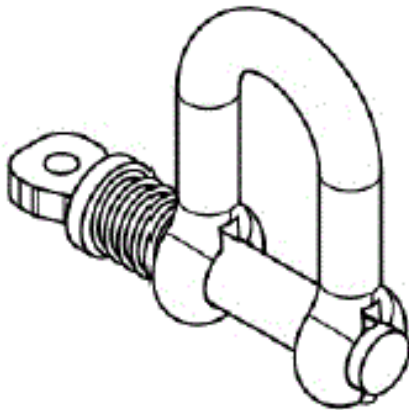


Three-dimensional view (no shield)

21: F2020/00880 22: 2020-06-22 23:  
43: 2021-03-17  
52: Class 8 24: Part F  
71: BROWN, Samuel, Jackson, Charles  
33: NZ 31: 426919 32: 2019-12-20

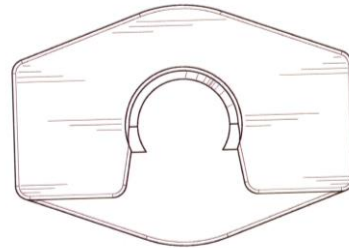
**54: A SHACKLE**

57: The drawing shows a front right perspective view of a shackle in accordance with the present design in a closed position showing the overall appearance thereof.



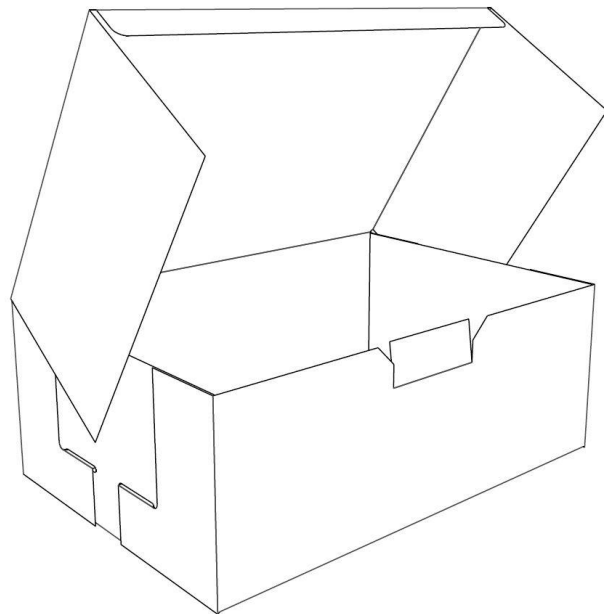
21: F2020/00882 22: 2020-06-22 23:  
43: 2021-04-15  
52: Class 24 24: Part F  
71: KAISHA PACKAGING PRIVATE LTD  
**54: DEVICE FOR A SYRINGE WITH PLUNGER  
ROD LOCKING FUNCTION AND CONFIGURED  
FOR PREVENTING INADVERTENT REMOVAL OF  
A STOPPER FROM THE SYRINGE**

57: The novelty of the design resides in the shape or configuration of a device according to the design substantially as shown in the accompanying drawing.



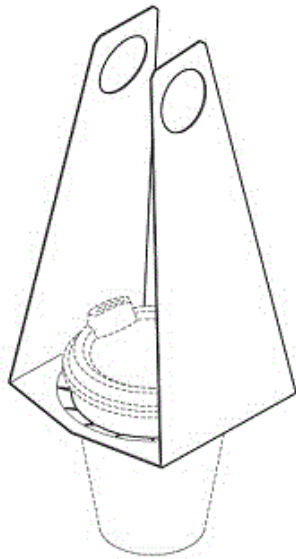
21: F2020/00887 22: 2020-06-24 23:  
43: 2021-04-15  
52: Class 09 24: Part F  
71: APL Cartons (Pty) Ltd  
**54: CONTAINER**

57: The design is for a container with a rectangular base, opposing side walls and opposing end walls and a lid that pivots from one side wall and that can be secured to the opposing side wall with a tab. The container is shaped and dimensioned such that it can hold a pair of shoes.



21: F2020/00904 22: 2020-06-26 23:  
43: 2021-03-11  
52: Class 9. 24: Part F  
71: EVANS, JOHN PHILIP STUTTAFORD  
**54: Carrier**

57: The design relates to a carrier. The features of the design are those of shape and/or configuration.

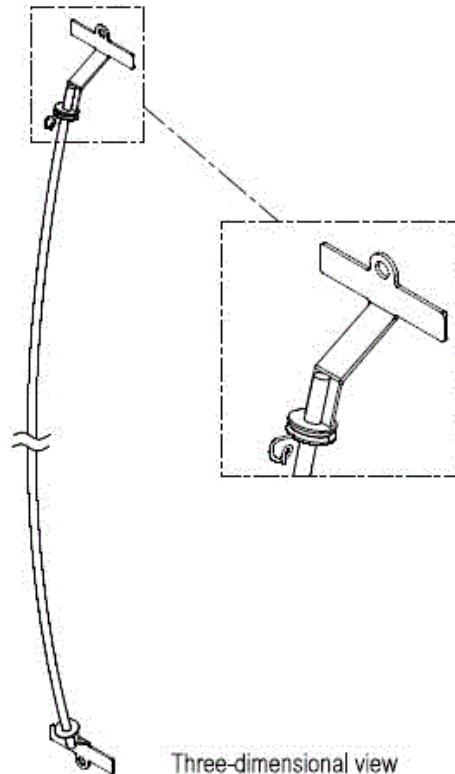


PERSPECTIVE VIEW IN USE

21: F2020/00907 22: 2020-06-29 23:  
43: 2020-06-29  
52: Class 8 24: Part F  
71: COMBRINK, Jan Rasmus, BERKOWITZ, Isaac  
Justin

**54: SUPPORT BRACKET FOR A ROPE**

57: The design relates to a support bracket for a rope. The bracket comprises an elongate body which is formed by arcuately curved round bar which is connected to mounting brackets at opposing ends for securing the support bracket to a wall. A rope guide has a rope receiving portion for holding a rope and an annular metal part which is connected to the rope receiving portion and receives the round bar therethrough and, accordingly, is displaceable along the length of the round bar in sliding fashion as well as angularly displaceable relative to the round bar. An annular magnetic retainer is provided proximate an operative upper end of the round bar to retain the rope guide in an inoperative or stowed condition. A circular stopper is provided proximate an operative lower end of the round bar.



Three-dimensional view

21: F2020/00931 22: 2020-07-02 23:  
43: 2021-03-25  
52: Class 22 24: Part F  
71: JACOBUS NICOLAAS KRITZINGER

**54: TACKLE HOLDERS FOR FISHING RODS**

57: The features of the design for which protection is claimed reside in the shape and/or configuration of a tackle holder substantially as illustrated in Figures 1 to 5 of the representations, wherein Figures 6 to 9 illustrate the tackle holder in an in use condition in which it is mounted to a fishing rod, the in use condition being shown merely as a non-limiting example and the fishing rod partially shown in Figures 6 to 9 does not form part of the design.



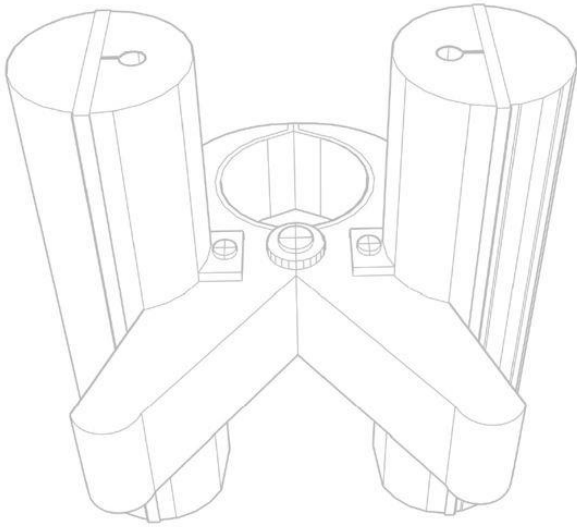
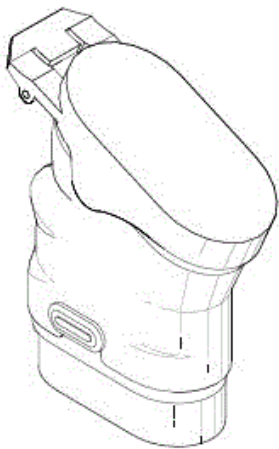


Figure 1  
First perspective view

21: F2020/00935 22: 2020-07-06 23:  
43: 2021-04-15  
52: Class 24 24: Part F  
71: STONEWILL (PTY) LTD

**54: PATHOGEN CONTAINMENT DEVICE**

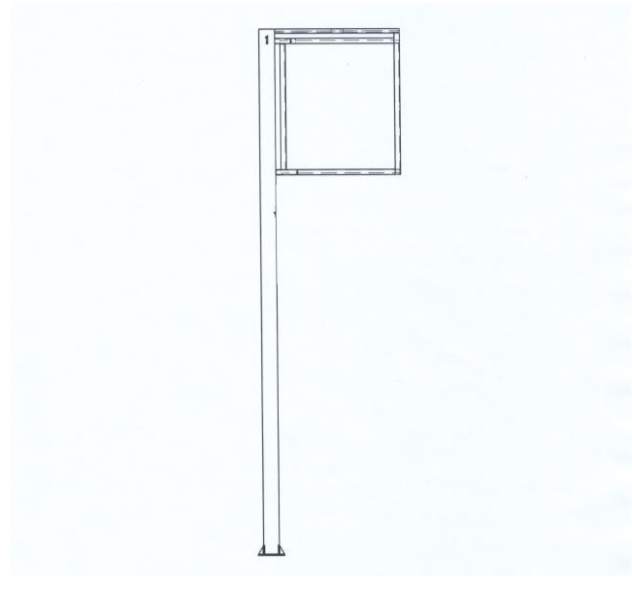
57: The features of the design for which protection is claimed include the shape and/or configuration of a pathogen containment device, substantially as illustrated in the accompanying representations.



TOP PERSPECTIVE VIEW

21: F2020/00940 22: 2020-07-08 23:  
43: 2021-03-25  
52: Class 20 24: Part F  
71: SOLAR STREET NAMES (PTY) LTD  
**54: A DISPLAY ARRANGEMENT**

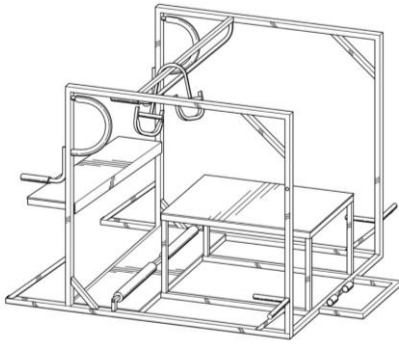
57: The novelty of the design resides in the shape or configuration of a display arrangement substantially as shown in the accompanying representation.



21: F2020/00960 22: 2020-07-10 23:  
43: 2021-03-29  
52: Class 21 24: Part F  
71: INKAZY HOLDINGS (PTY) LTD

**54: EXERCISING APPARATUS**

57: The design is for an exercising apparatus on which a variety of physical exercises can be performed. The exercising apparatus includes a frame body which is substantially rectangular in shape. The exercising apparatus includes on one side: a seat at sitting height, two outward-extending handlebars above the seat, and two inward-facing arched handlebars above the outward-extending handlebars. The exercising apparatus also includes an ankle bar connected to a base of the frame, and a bench at another side of the exercising apparatus. A plurality of shorter bars are provided at a lower end of the other side of the exercising apparatus, extending outwards in various directions. In use, a stepper and an inclined bench can be attached to the exercising apparatus, as shown. Various stretch or resistance cords can also be attached to the exercising apparatus at apertures provided at spaced apart positions.



Three-dimensional view

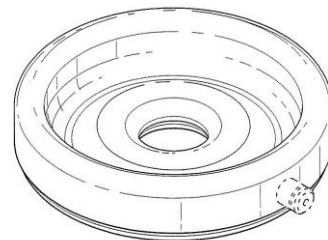
21: F2020/01000 22: 2020-07-17 23:  
43: 2021-04-15  
52: Class 27 24: Part F  
71: Shenzhen Eigate Technology Co., Ltd.  
33: CN 31: 202030036605.2 32: 2020-01-19  
**54: ELECTRONIC HOOKAH**  
57: The design relates to a Electronic hookah. The features of the design are those of shape and/or pattern and/or configuration.



21: F2020/01004 22: 2020-07-17 23:  
43: 2021-04-15  
52: Class 07 24: Part F  
71: MDK PROJECT MANAGEMENT CC  
**54: DISH DRYING RACK**  
57: The design is for a dish drying rack comprising a frame with one or two horizontal shelves and each shelf defines apertures into which inserts are receivable, to support washed dishes while they dry.

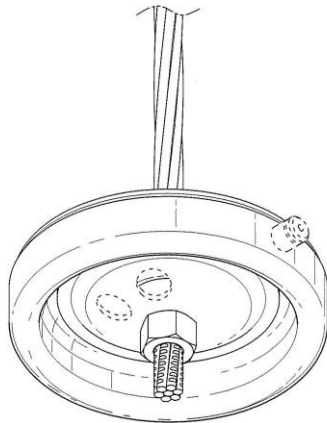


21: F2020/01067 22: 2020-07-30 23:  
43: 2021-04-22  
52: Class 8 24: Part F  
71: DAK ENGINEERING PROPRIETARY LIMITED  
**54: TENSIONING DEVICE FOR A ROOF ANCHOR**  
57: The features of the design for which protection is claimed reside in the shape of a roof anchor assembly, substantially as illustrated in the accompanying drawings.



TOP PERSPECTIVE VIEW OF TENSIONING DEVICE FOR ROOF ANCHOR

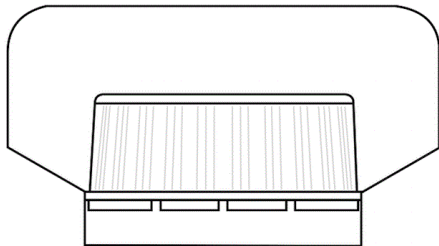
21: F2020/01068 22: 2020-07-30 23:  
43: 2021-04-22  
52: Class 8 24: Part F  
71: DAK ENGINEERING PROPRIETARY LIMITED  
**54: ROOF ANCHOR ASSEMBLY**  
57: The features of the design for which protection is claimed reside in the shape and/or configuration of a roof anchor assembly, substantially as illustrated in the accompanying drawings.



BOTTOM PERSPECTIVE VIEW  
OF ROOF ANCHOR ASSEMBLY

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21: F2020/01086 22: 2020-08-11 23:  
43: 2021-04-21  
52: Class 7 24: Part F  
71: David Frederich Smith Kriek, Gerrit Hendrik Muller Kotze  
**54: BOTTLE CAP TURNING DEVICE**  
57: The design relates to a BOTTLE CAP TURNING DEVICE. The features of the design are those of shape and/or pattern and/or configuration.




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21: F2020/01100 22: 2020-08-12 23:  
43: 2021-04-21  
52: Class 15 24: Part F  
71: THE TRUSTEES FOR THE TIME BEING OF THE FORZA TRUST  
**54: LIP LINER**  
57: The design relates to a lip liner. The features of the design are those of shape and/or configuration and/or pattern.

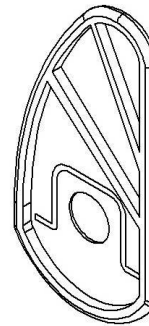


TOP PERSPECTIVE VIEW

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21: F2020/01126 22: 2020-08-19 23:  
43: 2021-04-21  
52: Class 09 24: Part F  
71: CANPACK SPÓKA AKCYJNA  
33: EU 31: 007871918-0001 32: 2020-05-26  
**54: PACKAGING OPENERS**

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).




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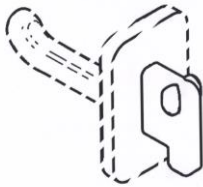
21: F2020/01128 22: 2020-08-19 23:  
43: 2021-04-21  
52: Class 09 24: Part F  
71: CANPACK SPÓKA AKCYJNA  
33: EU 31: 0001 008048185-0001 32: 2020-07-21  
**54: CAN ENDS (PART OF -)**  
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2020/01131 22: 2020-08-19 23:  
43: 2021-04-21  
52: Class 08 24: Part F  
71: ROHLAND MADE CC

**54: CLIP**

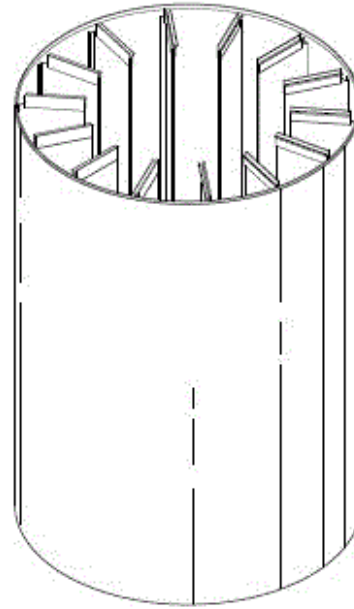
57: The novelty of the design resides in the shape or configuration of a clip substantially as shown in the accompanying drawings; the parts displayed in broken line do not form part of the design.



21: F2020/01135 22: 2020-08-21 23:  
43: 2021-04-21  
52: Class 13 24: Part F  
71: GREYLING, Frederik Petrus

**54: ELECTRODE CASING SEGMENT**

57: The features of the design for which protection is claimed comprise the shape and/or configuration of an electrode casing segment substantially as illustrated in the accompanying representations.

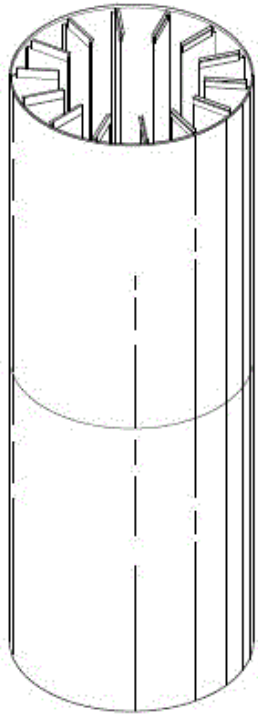


TOP PERSPECTIVE VIEW

21: F2020/01136 22: 2020-08-21 23:  
43: 2021-04-21  
52: Class 13 24: Part F  
71: GREYLING, Frederik Petrus

**54: ELECTRODE CASING ASSEMBLY**

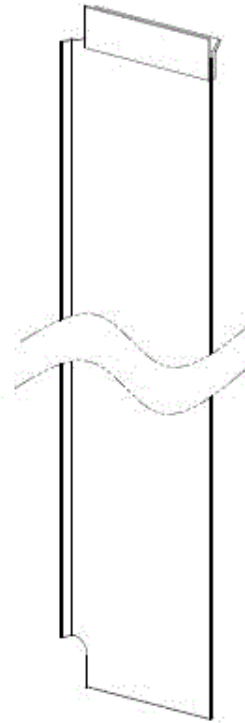
57: The features of the design for which protection is claimed comprise the shape and/or configuration and/or pattern of an electrode casing assembly substantially as illustrated in the accompanying representations.



TOP PERSPECTIVE VIEW

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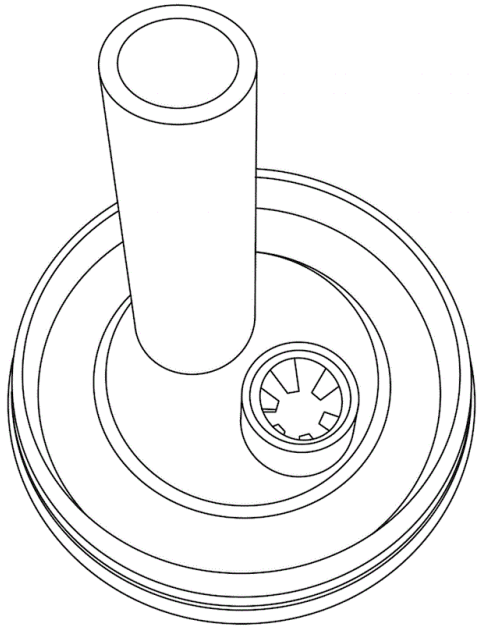
21: F2020/01137 22: 2020-08-21 23:  
43: 2021-04-21  
52: Class 13 24: Part F  
71: GREYLING, Frederik Petrus  
**54: ELECTRODE CASING FIN**  
57: The features of the design for which protection is claimed comprise the shape and/or configuration and/or pattern of an electrode casing fin substantially as illustrated in the accompanying representations.



TOP PERSPECTIVE VIEW

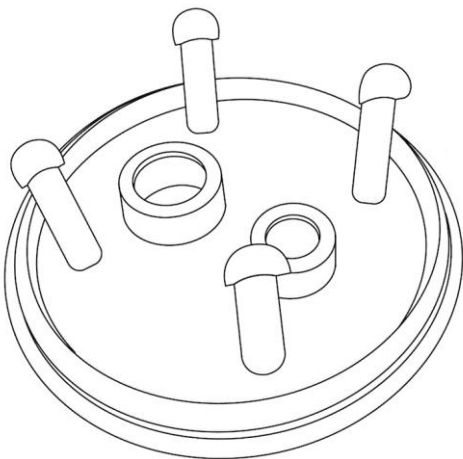
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21: F2020/01138 22: 2020-08-21 23:  
43: 2021-04-21  
52: Class 22 24: Part F  
71: LIAONING QINGYANG EXPLOSIVE  
MATERIALS CO., LTD  
**54: DETONATOR BASE**  
57: The design relates to a Detonator Base. The features of the design are those of shape and/or pattern and/or configuration.



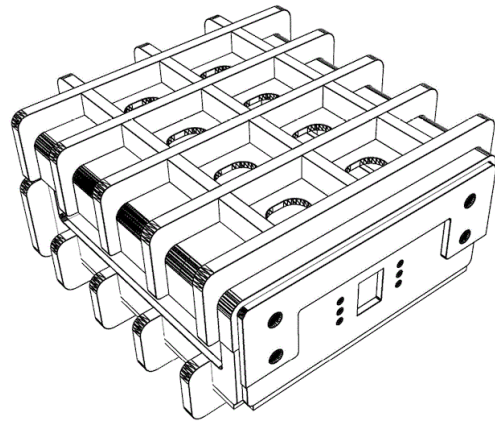
21: F2020/01139 22: 2020-08-21 23:  
43: 2021-04-21  
52: Class 22 24: Part F  
71: LIAONING QINGYANG EXPLOSIVE  
MATERIALS CO., LTD  
**54: DETONATOR COVER**

57: The design relates to a Detonator Cover. The features of the design are those of shape and/or pattern and/or configuration.



21: F2020/01143 22: 2020-08-24 23:  
43: 2021-04-21  
52: Class 13 24: Part F  
71: Jorge Manuel Felicio da Silva  
**54: BATTERY CASING**

57: The design relates to a Battery casing. The features of the design are those of shape and/or pattern and/or configuration.



21: F2020/01145 22: 2020-08-24 23:  
43: 2021-04-21  
52: Class 9 24: Part F  
71: CG PAK (Pty) Ltd  
**54: INSULATING BOX**

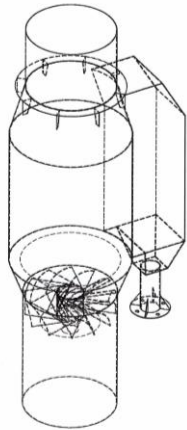
57: The design relates to an Insulating box. The features of the design are those of shape and/or pattern and/or configuration.



21: F2020/01195 22: 2020-09-03 23:  
43: 2021-04-22  
52: Class 23 24: Part F  
71: BOSMAN DROëRS CC  
**54: SOOT COLLECTOR**

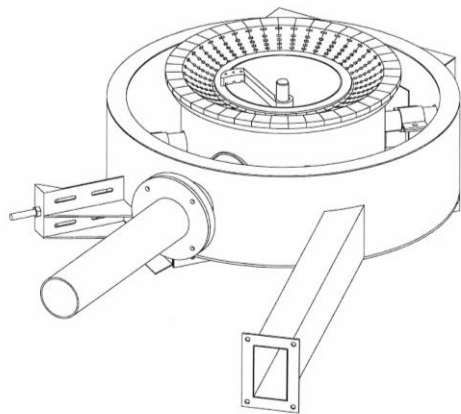
57: The features of this design for which protection are claimed include the shape and/or configuration of a soot collector for a smoke stack or chimney

substantially as illustrated in the accompanying representations.



21: F2020/01196 22: 2020-09-03 23:  
43: 2021-04-22  
52: Class 23 24: Part F  
71: BOSMAN DROËRS CC  
**54: BURNER HEAD**

57: The features of this design for which protection are claimed include the shape and/or configuration of a burner head substantially as illustrated in the accompanying representations.



21: F2020/01344 22: 2020-10-07 23:  
43: 2021-05-07  
52: Class 09 24: Part F  
71: Polyoak Packaging (Pty) Ltd  
**54: CONTAINER**

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



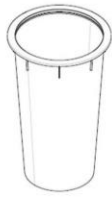
21: F2020/01345 22: 2020-10-07 23:  
43: 2021-05-07  
52: Class 09 24: Part F  
71: Polyoak Packaging (Pty) Ltd  
**54: CONTAINER**

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2020/01347 22: 2020-10-07 23:  
43: 2021-05-07  
52: Class 07 24: Part F  
71: Polyoak Packaging (Pty) Ltd  
**54: CUP**

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



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21: F2020/01390 22: 2020-10-23 23:  
43: 2021-05-07  
52: Class 09 24: Part F  
71: ALPLA Werke Alwin Lehner GmbH & Co. KG  
33: CH 31: 145 322 32: 2020-04-23

**54: BOTTLE**

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



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21: F2020/01392 22: 2020-10-23 23:  
43: 2021-05-07  
52: Class 09 24: Part F  
71: ALPLA Werke Alwin Lehner GmbH & Co. KG  
33: CH 31: 145 322 32: 2020-04-23

**54: BOTTLE**

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).

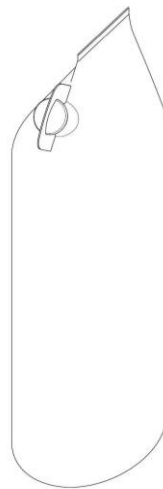


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21: F2020/01394 22: 2020-10-23 23:  
43: 2021-05-07  
52: Class 09 24: Part F  
71: ALPLA Werke Alwin Lehner GmbH & Co. KG  
33: CH 31: 145 322 32: 2020-04-23

**54: BOTTLE**

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).





**HYPOTHECATIONS**

No records available

**JUDGMENTS**

No records available

**OFFICE PRACTISE NOTICES**

No records available

# 4. COPYRIGHT

## COPYRIGHT IN CINEMATOGRAPH FILMS

## NOTICES OF ACCEPTANCE

**(Applications filed in terms of Act No. 62 of 1977)**

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement. This period may on application be extended by the Registrar.

The numerical denote the following: **(21)** Official application number. **(22)** Date of application. **(43)** Date of acceptance. **(24)** Date(s) and place(s) at which cinematograph films was made. **(25)** Date and place of first publication. **(71)** Name (s) of all applicant (s). **(75)** Name of author. **(76)** Name of producer **(77)** Name of director **(54)** Title of cinematograph film. **(78)** Name(s) of principal players or narrator. **(26)** Places at which cinematograph film may be viewed and conditions. **(55)** Specimen lodged/Not lodged. **(56)** Preview requested/Not requested. **(57)** Abstract (Storyline). **(58)** Category.

21: 2021/00001. 22: 2021/04/20. 43: 21/04/2021  
 24: 2019/03/01 to 2019/08/31; Cape Town  
 25: 2021/02/01; Johannesburg, South Africa  
 71: Sanktuary Films (Pty) Ltd  
 1D Study Road, Johannesburg, 2000, South Africa  
 75: Sanktuary Films (Pty) Ltd 2017/420779/071D  
 Study Road, Glenhazel, Johannesburg, ZA, 2001,  
 Email: jordy@sanktuaryfilms.com;  
 76: Gabriella Blumberg;  
 77: Jordy Sank  
 54: **I Am Here**  
 78: Howard Feldman; Ella Blumenthal; Menachem  
 Levitt; Chris Mc Arthur; Omri Suiza; Omri Suiza;  
 Rabbi Yochanan Ziegler; Yehudit Ziegler; Efrat  
 Ziegler; Trudy van Rooy; Naomi Sank; Sara Sank;  
 Norman Blumenthal; Alvin Blumenthal; Debbi  
 Blumenthal; Henry Blumenthal; Fran Blumenthal;  
 Evelyn Kaplan; Paul Kaplan; Darrin Blumenthal;  
 Danielle Katz; Brandon Katz; Shane Kaplan; Jade  
 Kaplan; Lior Blumenthal; Ariella Blumenthal;  
 Idan Blumenthal; Danny Flax; Esther Silman; Gabbi  
 Vogel; Mendy Vogel; Daniel Levitt; Rachel 'Roma'  
 Roth; Jordy Sank; Esther Badenhorst;  
 Gabriella Blumberg;  
 26: 1D Study Road  
 Glenhazel  
 Johannesburg  
 2001  
 upon request to the director at  
 ordy@sanktuaryfilms.com;  
 55: Specimen lodged/Not lodged.  
 56: Preview Requested/Not requested  
 57: A life-affirming documentary and celebration of  
 the life of 98-year-old Ella Blumenthal, who at her  
 birthday party, reflects on harrowing memories

and uplifting moments in her fight for survival during the Holocaust. As she leans in to blow out her birthday candles; overcome with emotion, she is lost in the memories of her unforgettable past. The present day of Ella living her vibrant life is juxtaposed with 2D Animations of her recollections of her experiences. The present day is an amalgamation of beautifully shot activities that she does weekly, such as walking on the promenade and lighting Sabbath candles. This is combined with various interactions with family and friends, which bring out the inspiring narratives and anecdotes on her resilience and her key life lessons. These encounters will leave the audience crying and laughing along with Ella and her playful personality. The animated memories include tales of survival from three concentration camps: Majdanek, Auschwitz and Bergen Belsen, where she narrowly avoids death in seemingly serendipitous situations. Her memories extend to convincing her niece not to commit suicide and reiterations of her faith in dark times. The audience can observe how Ella's experiences shaped both her and her family. Ella gives a powerful speech at her birthday, sharing that she could not escape her past, but is proud of the future that she has shaped. She now has more immediate family members by her side than she lost in the Holocaust. Her remarkable energy and zest for life continues to shine light into our world.

**58: DO**

**HYPOTHECATIONS**

No records available

**JUDGMENTS**

No records available

**OFFICE PRACTISE NOTICES**



**NOTICE IN TERMS OF REGULATION 3 (7) OF THE REGULATIONS ON COLLECTING SOCIETIES – COPYRIGHT ACT 98 OF 1978**

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1. Notice is hereby given of the renewal of accreditation of Independent Music Performance Rights Association (IMPRA) by Companies and Intellectual Property Commission (CIPC) to act as a representative Collecting Society for a further period of five (05) years in terms of Section 9A of the Copyright Act, 1978 read with Section 5 (1) of the Performers' Protection Act, 1967.
2. The Regulations on Collecting Societies in Music Industry came into effect on 01 June 2006 with CIPC as Accrediting Authority.
3. The effective date of this notice will be the date of publication in the Government Gazette.

A handwritten signature in black ink, appearing to read "R. Voller".

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**Adv Rory Voller**

**Commissioner: Companies and Intellectual Property Commission (CIPC)**

.....<sup>26</sup>/<sub>4</sub>...../2021

The dti Campus (Block F - Entfufukweni), 77 Meintjies Street, Sunnyside, Pretoria | P O Box 429, Pretoria, 0001  
Call Centre: 086 100 2472  
Email [LLelejane@cipc.co.za](mailto:LLelejane@cipc.co.za) Website: [www.cipc.co.za](http://www.cipc.co.za)

## 5. CORRECTION NOTICES

## TRADE MARK CORRECTION NOTICES

There has been some publications which appeared March 2021 journal and also in the April 2021 journal. Therefore all the applications which were advertised in the March 2021 journal and appeared again in the April 2021 journal, their valid publication date will remain the **31/03/2021**.

The Trade mark application nos. **2014/14990-91, 2014/14993 and 2014/15062 ATS Device** (colour) in classes 06, 19, 37 and 42 in the name of MECAL B.V were advertised in the March 2021 journal without the colour endorsement and these applications should have been advertised with the following endorsement below however the publication date will remain as **31/03/2021**.

2014/14990 in Class 06: Transportable buildings of metal for generating wind energy; metallic machine supports, foundations, towers and masts for generating wind energy. in the name of MECAL B.V., Capitool 15, 7521 PL Enschede, Netherlands. Address for service: VON SEIDELS, Docex 16, Century City PO Box 440 Century City (Cape Town), 7446, SOUTH AFRICA

***“The colours green and yellow are essential and distinctive features of the mark as depicted in the accompanying representation.”***

The trade mark application no: **2020/15741** was advertised in the April 2021 journal with an incorrect mark as **HUAWEI IDEADESK** and incorrect disclaimer as ***Registration of this trade mark shall give no right to the exclusive use of the word IDEA and DESK each other separately and apart from the mark.***

This trade mark no: **(2020/15741)** should have been advertised correctly as **HUAWEI ideaDesk** with the correct disclaimer as ***Registration of this mark shall give no right to the exclusive use of the words "IDEA" and "DESK" separately from each other and apart from the mark.***

However the publication date of this trade mark no: **2020/15741** will remain the **28 April 2021**.

## PATENT CORRECTION NOTICES

There has been some publications which appeared in the March 2021 journal and also in the April 2021 journal. Therefore all the applications which were advertised in the March 2021 journal and appeared again in the April 2021 journal, their valid publication will remain the 31/03/2021.

The application no: 2019/04153 was advertised in the April 2021 journal with an incorrect drawing and it should have been advertised as the one below however the publication will remain as 28 April 2021.

21: 2019/04153. 22: 6/26/2019. 43: 3/24/2021

51: B60L

71: MAKHWILIRI, Thabiso Oriel

72: MAKHWILIRI, Thabiso Oriel

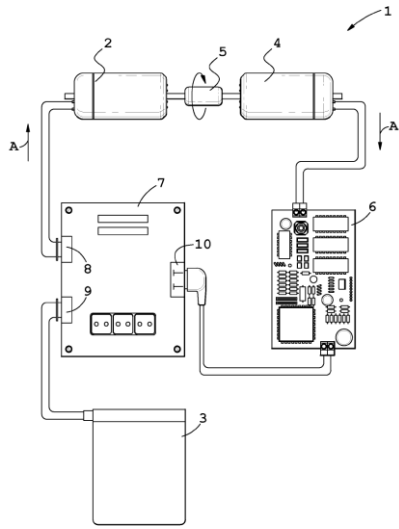
33: ZA 31: 2018/02855 32: 2018-03-26

**54: APPARATUS FOR EXTENDING THE RANGE OF AN ELECTRIC VEHICLE**

00: -

This invention relates to an apparatus for extending the range of an electric vehicle with a battery. Electric engines have several advantages over internal combustion engines however, a problem in the art is that electric engines need to be recharged after the vehicle has travelled a certain distance and all the energy contained in the engine has been consumed. The apparatus for extending the range of an electric vehicle with a battery comprises an energy conversion mechanism for converting potential energy of the battery to kinetic energy and an energy harvesting mechanism for harvesting the kinetic energy and charging the battery with the harvested energy. It is envisaged that the invention will provide an apparatus for extending the driving range of an electric vehicle with a

battery while the vehicle is operating to avoid unnecessary stops where the battery of the vehicle requires charging.



### DESIGNS CORRECTION NOTICES

The Design application no: A2020/00807 was advertised in the April 2021 journal with an incorrect drawing and it is re-advertised in the May 2021 journal and therefore the April 2021 publication is null and void. The valid publication will be 26/05/2021.

There has been some publications which appeared March 2021 journal and also in the April 2021 journal. Therefore all the applications which were advertised in the March 2021 journal and appeared again in the April 2021 journal, their valid publication date will remain the 31/03/2021.

### COPYRIGHT CORRECTION NOTICES

No records available



## PATENTS

## Advertisement List for May 2021

Number of Advertised Patents: 552

Application Number	Patent Title	Filing Date
2009/00868	PHARMACEUTICAL COMPOSITION CONTAINING A TETRAHYDROFOLIC ACID	2/5/2009 12
2012/06033	REFLECTOR, RECEIVER ARRANGEMENT, AND SENSOR FOR THERMAL SOLAR COLLECTORS	2/10/2011 1
2012/09259	USES AND COMPOSITIONS	12/6/2012 1
2013/00081	ROTATIONAL DRILL BITS AND DRILLING APPARATUSES INCLUDING THE SAME	1/3/2013 12
2013/01389	TRANSDERMAL THERAPEUTIC SYSTEMS WITH CRYSTALLIZATION-INHIBITING PROTECTIVE FILM (RELEASE LINER)	2/22/2013 1
2013/02265	SUBSTITUTED 2-OXO- AND 2-THIOXO-DIHYDROQUINOLINE-3-CARBOXAMIDES AS KCNQ2/3 MODULATORS	3/26/2013 1
2013/02269	ANTI-VIRAL COMPOUNDS	3/26/2013 1
2013/02395	CONSTRUCTION OF A GRIPPING FABRIC	4/3/2013 12
2013/02438	PHARMACEUTICAL COMPOSITION FOR TREATING HCV INFECTIONS	4/4/2013 12
2013/03175	HUMAN ANTI-TAU ANTIBODIES	4/30/2013 1
2013/03777	A PACKAGE FOR TOBACCO INDUSTRY PRODUCTS	5/23/2013 1
2013/03816	A NEW VARIANT OF ANTIHEMOPHILIC FACTOR VIII HAVING INCREASED SPECIFIC ACTIVITY	5/24/2013 1
2013/04009	HETEROCYCLIC COMPOUNDS AND USES THEREOF	5/31/2013 1
2013/04093	CO-CURRENT AND COUNTER CURRENT RESIN-IN-LEACH IN GOLD LEACHING PROCESSES	6/4/2013 12
2013/04260	ADENOVIRUS SEROTYPE 26 AND SEROTYPE 35 FILOVIRUS VACCINES	6/10/2013 1
2013/04762	SMOKING ARTICLE	6/25/2013 1
2013/05240	METHOD AND DEVICE FOR ENCODING INTRA PREDICTION MODE FOR IMAGE PREDICTION UNIT, AND METHOD AND DEVICE FOR DECODING INTRA PREDICTION MODE FOR IMAGE	7/11/2013 1

Application Number	Patent Title	Filing Date
	PREDICTION UNIT	
2013/05436	TASTE -MASKED ORAL CARE COMPOSITIONS	7/18/2013 1
2013/05589	METHOD AND APPARATUS FOR PACKAGING BEVERAGE UNDER PRESSURE	7/23/2013 1
2013/05689	APPARATUS AND METHOD FOR ENCODING/DECODING FOR HIGH-FREQUENCY BANDWIDTH EXTENSION	7/26/2013 1
2013/05856	COMPOUNDS AND METHODS FOR KINASE MODULATION, AND INDICATIONS THEREFOR	8/2/2013 12
2013/06453	INTERROGATORY CELL-BASED ASSAYS AND USES THEREOF	8/27/2013 1
2013/07379	A FOODSTUFF PRESERVING COMPOSITION AND USE THEREOF	10/2/2013 1
2013/07399	BREATHING APPARATUS	10/3/2013 1
2013/07646	CUTTING BIT AND BIT HOLDER	10/14/2013
2013/07934	DEVICE AND METHOD FOR SIGNATURE ADAPTATION AND AN OBJECT WITH SUCH A DEVICE	10/23/2013
2013/08590	ROTATIONAL DRILL BITS AND DRILLING APPARATUSES INCLUDING THE SAME	11/14/2013
2013/08635	BCMA (CD269/TNFRSF17) -BINDING PROTEINS	11/18/2013
2013/08709	METHOD OF QUANTIZING LINEAR PREDICTIVE CODING COEFFICIENTS, SOUND ENCODING METHOD, METHOD OF DE-QUANTIZING LINEAR PREDICTIVE CODING COEFFICIENTS, SOUND DECODING METHOD, AND RECORDING MEDIUM	11/20/2013
2013/08710	APPARATUS FOR QUANTIZING LINEAR PREDICTIVE CODING COEFFICIENTS, SOUND ENCODING APPARATUS, APPARATUS FOR DE-QUANTIZING LINEAR PREDICTIVE CODING COEFFICIENTS, SOUND DECODING APPARATUS, AND ELECTRONIC DEVICE THEREFOR	11/20/2013
2013/08992	THERAPEUTIC ANTIBODIES	11/28/2013
2013/09052	INTRANASAL LOWER DOSAGE STRENGTH TESTOSTERONE GEL FORMULATIONS AND USE THEREOF FOR TREATING ANORGASMIA OR HYPOACTIVE SEXUAL DESIRE DISORDER	12/2/2013 1
2013/09173	METHODS OF TREATING OR PREVENTING CHOLESTEROL	12/5/2013 1

Application Number	Patent Title	Filing Date
	RELATED DISORDERS	
2013/09406	BIT ALLOCATING, AUDIO ENCODING AND DECODING	12/12/2013
2013/09413	IMPROVED CENTRIFUGAL SEPARATOR	12/12/2013
2013/09481	HEATING, VENTILATION AND/OR AIR-CONDITIONING DEVICE WITH TARGETED POWER-SUPPLY MANAGEMENT	12/13/2013
2014/00230	BORDER PIXEL PADDING FOR INTRA PREDICTION IN VIDEO CODING	1/10/2014 1
2014/00704	APPARATUS AND METHOD FOR GENERATING BANDWIDTH EXTENSION SIGNAL	1/29/2014 1
2014/00706	POWER ALLOCATION FOR OVERLAPPING TRANSMISSIONS WHEN MULTIPLE TIMING ADVANCES ARE USED	1/29/2014 1
2014/00802	ACTIVE FORMULATION FOR USE IN FEED PRODUCTS	2/3/2014 12
2014/01025	DISPERSING POLYMERS WITH IMPROVED THERMAL STABILITY	2/10/2014 1
2014/01264	BUFFERING PREDICTION DATA IN VIDEO CODING	2/19/2014 1
2014/01971	GYRATORY CRUSHER OUTER CRUSHING SHELL	3/18/2014 1
2014/02074	AUTOMATIC INJECTION DEVICE	3/20/2014 1
2014/02165	COMPOSITIONS OF LOPINAVIR	3/24/2014 1
2014/02257	TAPERED STRUCTURE CONSTRUCTION	3/26/2014 1
2014/02258	CD27L ANTIGEN BINDING PROTEINS	3/26/2014 1
2014/02262	CAN ENDS HAVING MACHINE READABLE INFORMATION	3/26/2014 1
2014/02734	COLLECTOR COMPOSITIONS AND METHODS OF USING THE SAME	4/14/2014 1
2014/02834	MOTION VECTOR DETERMINATION FOR VIDEO CODING	4/16/2014 1
2014/03156	DISPENSER CAP ARRANGEMENT	4/30/2014 1
2014/03236	INVOICE PAYMENT SYSTEM AND METHOD	5/5/2014 12
2014/03267	METHOD AND DEVICE FOR DETERMINING MOTION VECTOR FOR VIDEO CODING OR VIDEO DECODING	5/6/2014 12
2014/03344	METHOD FOR PREPARING A PRECOAT ON THE SURFACE OF THE FILTER MEDIUM OF A POLISHING FILTER, POLISHING FILTER AND USE OF A POLISHING FILTER	5/9/2014 12

Application Number	Patent Title	Filing Date
2014/03367	BILE ACID RECYCLING INHIBITORS FOR TREATMENT OF HYPERCHOLEMIA AND CHOLESTATIC LIVER DISEASE	10/26/2012
2014/03550	ANTI-ADRENOMEDULLIN (ADM) ANTIBODY OR ANTI-ADM ANTIBODY FRAGMENT OR ANTI-ADM NON-IG SCAFFOLD FOR REGULATING THE FLUID BALANCE IN A PATIENT HAVING A CHRONIC OR ACUTE DISEASE	5/15/2014 1
2014/03678	METHODS AND SYSTEMS FOR GROWING PLANTS USING SILICATE-BASED SUBSTRATES, CULTIVATION OF ENHANCED PHOTOSYNTHETIC PRODUCTIVITY AND PHOTOSAFENING BY UTILIZATION OF EXOGENOUS GLYCOPYRANOSIDES FOR ENDOGENOUS GLYCOPYRANOSYL-PROTEIN DERIVATIVES, AND FORMULATIONS, PROCESSES AND SYSTEMS FOR THE SAME	5/20/2014 1
2014/03807	DETERMINING BOUNDARY STRENGTH VALUES FOR DEBLOCKING FILTERING FOR VIDEO CODING	5/23/2014 1
2014/03876	METHOD AND DEVICE FOR INTRA PREDICTION OF VIDEO	5/27/2014 1
2014/04245	FAT-BASED FOOD PRODUCTS	6/9/2014 12
2014/04343	HYBRID DRILL BITS HAVING INCREASED DRILLING EFFICIENCY	6/12/2014 1
2014/04513	DISSIPATIVE SURFACTANT AQUEOUS-BASED DRILLING SYSTEM FOR USE IN HYDROCARBON RECOVERY OPERATIONS FROM HEAVY OIL AND TAR SANDS	6/19/2014 1
2014/04609	PRECIOUS METALS RECOVERY	6/23/2014 1
2014/04790	ANTI-PD-L1 ANTIBODIES AND USES THEREOF	6/27/2014 1
2014/05719	CEILING FRAMEWORK AND METHOD OF MANUFACTURING SAME	8/1/2014 12
2014/07243	VECTOR FIND ELEMENT NOT EQUAL INSTRUCTION	10/6/2014 1
2014/07582	COMPOSITION AND METHODS FOR HIGHLY EFFICIENT GENE TRANSFER USING AAV CAPSID VARIANTS	10/17/2014
2014/08081	PROGRAM INTERRUPTION FILTERING IN TRANSACTIONAL	11/4/2014 1

Application Number	Patent Title	Filing Date
	EXECUTION	
2014/08314	FILTERING CONTAMINANTS FROM FLUID	11/12/2014
2014/08315	MEDICAMENT DELIVERY DEVICE	11/12/2014
2014/08425	OPTOELECTRONIC DEVICES WITH ORGANOMETAL PEROVSKITES WITH MIXED ANIONS	11/17/2014
2014/08429	METHODS FOR THE SYNTHESIS OF ETHYLFUMARATES AND THEIR USE AS INTERMEDIATES	11/17/2014
2014/08883	METHOD AND SYSTEM FOR IMPROVING THE PRODUCTIVITY OF CALLING AGENTS AND CALL YIELD	12/3/2014 1
2014/09254	PRODRUG DERIVATIVES OF (E)-N-METHYL-N-((3-METHYLBENZOFURAN-2-YL)METHYL)-3-(7-OXO-5,6,7,8-TETRAHYDRO-1,8-NAPHTHYRIDIN-3-YL)ACRYLAMIDE	12/15/2014
2014/09422	BENZIMIDAZOLE-PROLINE DERIVATIVES	12/19/2014
2014/09477	HETEROCYCLIC MODULATORS OF LIPID SYNTHESIS	12/22/2014
2015/02383	PYRROLO[3,2-D]PYRIMIDINE DERIVATIVES FOR THE TREATMENT OF VIRAL INFECTIONS AND OTHER DISEASES	4/9/2015 12
2015/04442	REGULATION OF GENE EXPRESSION	6/19/2015 1
2015/05253	CONDITIONING OF THE ORE IN THE COMMINATION STEP AND RECOVERY OF DESIRED METAL VALUES BY FLOTATION	7/21/2015 1
2015/05508	ELECTRONIC MANAGEMENT SYSTEM FOR ELECTRICITY GENERATING CELLS, ELECTRICITY GENERATING SYSTEM AND METHOD FOR ELECTRONICALLY MANAGING ENERGY FLOW	2/20/2014 1
2015/07481	2,2-DIFLUOROPROPIONAMIDE DERIVATIVES OF BARDOXOLONE METHYL, POLYMORPHIC FORMS AND METHODS OF USE THEREOF	10/8/2015 1
2015/08689	MOLECULAR DIAGNOSTIC TEST FOR CANCER	11/26/2015
2016/00036	MANIFOLD ARRANGEMENT	6/13/2014 1
2016/04977	A TAMPER-EVIDENT CLOSURE	7/18/2016 1
2016/06123	PHARMACEUTICAL COMPOSITIONS OF A ERB2 (HER2) INHIBITOR	9/5/2016 12
2017/00030	SOLID HERBICIDAL COMPOSITIONS CONTAINING A SAFENER	6/9/2015 12

Application Number	Patent Title	Filing Date
2017/00571	THERAPEUTICALLY ACTIVE COMPOUNDS AND THEIR METHODS OF USE	1/21/2013 1
2017/00710	PATHOGENIC CONTROL OF APOPTOSIS	8/17/2015 1
2017/00786	PROTEIN KINASE C INHIBITORS AND METHODS OF THEIR USE	8/5/2015 12
2017/00832	ANTI-PD-L1 ANTIBODIES AND DIAGNOSTIC USES THEREOF	5/29/2015 1
2017/00939	COMPUTATIONAL ANALYSIS OF BIOLOGICAL DATA USING MANIFOLD AND A HYPERPLANE	8/12/2015 1
2017/01046	TIDAL DRY POWDER INHALER WITH MINIATURE PRESSURE SENSOR ACTIVATION	8/28/2015 1
2017/01168	ANTIBODIES, COMPOSITIONS, AND USES	8/26/2015 1
2017/01179	VACCINE COMPOSITIONS COMPRISING TRYPTOPHAN 2,3-DIOXYGENASE OR FRAGMENTS THEREOF	9/15/2015 1
2017/01246	SYNTHESIS OF DNA	2/20/2017 1
2017/01290	BONE IMPLANTS FOR CORRECTING BONE DEFECTS	2/21/2017 1
2017/01341	BISPECIFIC HER2 AND CD3 BINDING MOLECULES	7/24/2015 1
2017/01458	COMPLIANCE-ASSISTING MODULE FOR AN INHALER	8/28/2015 1
2017/01487	POWDER ORAL SUSPENSION FORMULATIONS OF ANTIBACTERIAL AGENTS	2/28/2017 1
2017/01566	DETONATOR CONNECTION CABLE	3/3/2017 12
2017/01670	STABLE FORMULATIONS OF LIPIDS AND LIPOSOMES	9/17/2015 1
2017/02553	IMPROVEMENTS TO CLAMPING APPARATUS	4/11/2017 1
2017/02728	FITTING FOR LIQUID GAS CYLINDERS AND FILLING METHOD	4/18/2017 1
2017/02740	CONSTRUCTION PANEL HAVING IMPROVED FIXING STRENGTH	11/19/2015
2017/03701	OPHTHALMIC COMPOSITION	5/30/2017 1
2017/03790	COLLECTORS FOR MINERAL FLOTATION	9/29/2014 1
2017/04621	COMBINATION OF A 6-OXO-1,6-DIHYDRO-PYRIDAZINE DERIVATIVE HAVING ANTI-CANCER ACTIVITY WITH A QUINAZOLINE DERIVATIVE	7/10/2017 1
2017/04727	NEW IMIDAZO[1,2-A]QUINOXALINES AND DERIVATES THEREOF FOR THE TREATMENT OF CANCER	7/13/2017 1
2017/04886	DISK BRAKE FOR A UTILITY-VEHICLE WHEEL	2/1/2016 12

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2017/04944	NASAL POWDER FORMULATION FOR TREATMENT OF HYPOGLYCEMIA	7/20/2017 1
2017/05300	BINDING MOLECULES DIRECTED AGAINST INFLUENZA HEMAGGLUTININ AND USES THEREOF	8/4/2017 12
2017/06495	A FORMULATION WHICH INCLUDES TRACE ELEMENTS AND IS FOR ADMINISTRATION TO ANIMALS	9/27/2017 1
2017/07423	IMIDAZOLONYL QUINOLINES AND USE THEREOF AS ATM KINASE INHIBITORS	11/1/2017 1
2017/07459	DRILL ROD OR ADAPTOR WITH STRENGTHENED SPIGOT COUPLING	11/3/2017 1
2017/07461	SUSPENSION AND GUIDANCE APPARATUS FOR TOOLS AND PLATFORMS RELATIVE TO A MILL	11/3/2017 1
2017/07464	MULTI-LIGAND DRUG CONJUGATES AND USES THEREOF	11/3/2017 1
2017/07468	THREADED COUPLING END FOR A PERCUSSION DRILL STRING COMPONENT	11/3/2017 1
2017/07628	APPARATUS FOR DEWATERING AND DEMINERALIZATION OF FINE PARTICLES	11/10/2017
2017/07631	INFLUENZA VIRUS NEUTRALIZING PEPTIDOMIMETIC COMPOUNDS	11/10/2017
2017/07657	SAFETY NET ATTACHMENT DEVICE	11/13/2017
2017/07705	METHOD AND SYSTEM FOR AUTOMATICALLY COUNTING MICROBIAL COLONIES	11/14/2017
2017/07769	A TAP	11/16/2017
2017/07860	METHODS FOR INSPECTING CELLULAR ARTICLES	11/20/2017
2017/07939	STABLE ELECTROLYTE MATERIAL AND SOLVENT MATERIAL CONTAINING SAME	11/22/2017
2017/07944	PROCESS FOR PREPARING SUPRAMOLECULAR PLATINUM-BASED COMPOUNDS	11/22/2017
2017/08045	LABORATORY INSTRUMENT INDUSTRIAL DESIGN CUSTOMIZATION FOR CUSTOMER PERSONALIZATION	11/27/2017
2017/08073	DEPLOYABLE RADIO FREQUENCY TRANSMISSION LINE	11/28/2017
2017/08111	CODE ARRANGEMENT AND CONTAINER OF SYSTEM FOR PREPARING A BEVERAGE OR FOODSTUFF	11/29/2017

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2017/08114	AUTOMATED METHOD AND SYSTEM FOR OBTAINING AND PREPARING MICROORGANISM SAMPLE FOR BOTH IDENTIFICATION AND ANTIBIOTIC SUSCEPTIBILITY TESTS	11/29/2017
2017/08159	ADENOVIRUS POLYNUCLEOTIDES AND POLYPEPTIDES	11/30/2017
2017/08231	DETECTION OF CHROMOSOME INTERACTIONS	6/24/2016 1
2017/08284	MODULAR SYSTEM AND METHOD FOR CONTINUOUSLY PRODUCING AND/OR PREPARING A PRODUCT IN A DISINFECTED MANNER	12/6/2017 1
2017/08317	PROCESS FOR TREATING KERATIN FIBRES WITH AN ALKOXYSILANE POLYMER BEARING A NUCLEOPHILIC GROUP AND AN ACTIVATED (THIO)ESTER	12/7/2017 1
2017/08341	PDE9 INHIBITORS WITH IMIDAZO TRIAZINONE BACKBONE AND IMIDAZO PYRAZINONE BACKBONE FOR TREATMENT OF PERIPHERAL DISEASES	12/8/2017 1
2017/08422	BELT TURNING STATION AND METHOD	12/12/2017
2017/08439	VEGFR-2 TARGETING DNA VACCINE FOR COMBINATION THERAPY	6/16/2016 1
2018/00320	LAYERED AUTOMOTIVE CATALYST COMPOSITES	1/17/2018 1
2018/00476	IMMUNE MODULATION AND TREATMENT OF SOLID TUMORS WITH ANTIBODIES THAT SPECIFICALLY BIND CD38	1/23/2018 1
2018/00555	JASMONIC ACID PATHWAY ACTIVATOR	1/26/2018 1
2018/00569	COMPOSITIONS AND METHODS FOR THE CONTROL OF ARTHROPODS	7/6/2016 12
2018/00630	FOLDABLE CONTAINER	1/30/2018 1
2018/00675	GOLF BALL GAME APPARATUS	7/8/2016 12
2018/00769	METHODS AND COMPOSITIONS FOR IMPROVING PLANT TRAITS	7/13/2016 1
2018/00770	OPTIMIZED VARIANTS OF ANTI-VEGF ANTIBODIES	9/23/2016 1
2018/00771	SUBSTITUTED PYRAZOLO[1,5-A]PYRIDINE COMPOUNDS AS RET KINASE INHIBITORS	2/6/2018 12
2018/00776	RESOURCE ALLOCATION FOR DATA TRANSMISSION IN WIRELESS SYSTEMS	7/6/2015 12



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2018/01012	ORAL CARE COMPOSITIONS AND METHODS OF USE	2/14/2018 1
2018/01017	FLEXIBLE CAPACITY SATELLITE CONSTELLATION	7/26/2016 1
2018/01022	SYD985 TREATMENT OF T-DM1 REFRACTORY CANCER PATIENTS	9/21/2016 1
2018/01052	COMBINATIONS AND USES THEREOF	8/18/2016 1
2018/01092	A METHOD OF PRODUCING A TWO-DIMENSIONAL MATERIAL	7/1/2016 12
2018/01121	A WEB OF TIPPING PAPER	2/19/2018 1
2018/01130	EDIBLE VACCINATION AGAINST MICROBIAL PATHOGENS	7/22/2016 1
2018/01253	AN ANCHOR	4/28/2016 1
2018/01300	COMPOSITION AND MEDICAL DEVICE COMPRISING ACETYLSALICYLIC ACID FOR THE TREATMENT OF HUMAN PAPILLOMA VIRUS SKIN INFECTIONS	9/5/2016 12
2018/01346	HOMOGENEOUS LINEAR EVAPORATION SOURCE	8/19/2016 1
2018/01438	A HYDRAULICALLY POWERED ROTARY ACTUATOR	3/1/2018 12
2018/01530	WATERPROOFING APPARATUS	3/6/2018 12
2018/02447	HYDROGEN REDUCTION OF METAL SULPHATE SOLUTIONS FOR DECREASED SILICON IN METAL POWDER	4/13/2018 1
2018/02621	METHOD OF INCREASING DRAINAGE PERFORMANCE OF A PULP SLURRY DURING MANUFACTURE OF PAPER PRODUCTS, AND PRODUCTS THEREFROM	10/12/2015
2018/02923	SOLAR THERMAL COLLECTOR	10/6/2015 1
2018/03091	SYSTEM AND METHOD FOR VIRTUAL ENABLEMENT OF HEALTHCARE SERVICES	5/11/2018 1
2018/03288	STERN PLATFORM ASSEMBLY FOR AN OUTBOARD PROPELLED BOAT	5/17/2018 1
2018/03517	SECURITY DOCUMENT AND ELEMENT	5/28/2018 1
2018/03575	GRIPPING DEVICE AND METHOD OF GRIPPING DRILLING TOOLS	5/30/2018 1
2018/03942	NOVEL PROCESSES FOR PREPARATION OF INTEGRASE INHIBITOR	6/13/2018 1
2018/03978	HUMAN IMMUNODEFICIENCY VIRUS ANTIGENS, VECTORS, COMPOSITIONS, AND METHODS OF USE THEREOF	6/14/2018 1

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2018/04211	HANDLING MULTIPLE HDR IMAGE SOURCES	6/22/2018 1
2018/04377	CATALYTIC HYDROGEN DISPERSAL MECHANISM	6/29/2018 1
2018/04868	FEED APPARATUS AND METHOD FOR FEEDING CEMENT TO A CEMENT SILO	7/19/2018 1
2018/05414	DISTRIBUTED DATA PROCESSING SYSTEM FOR AUTHENTICATING AND DISSEMINATING USER-SUBMITTED DATA OVER A WIDE AREA NETWORK	1/12/2017 1
2018/05683	LIQUID UREASE INHIBITOR FORMULATIONS	2/24/2017 1
2018/06356	6-HYDROXY-4-OXO-1,4-DIHYDROPYRIMIDINE-5-CARBOXAMIDES AS APJ AGONISTS	9/21/2018 1
2018/06860	NOVEL IMMUNOGENIC CD1D BINDING PEPTIDES	4/19/2017 1
2018/07009	ELECTROSPINNING DEVICE AND METHOD	10/19/2018
2018/07019	MULTI-THERMAL STORAGE UNIT SYSTEMS, FLUID FLOW CONTROL DEVICES, AND LOW PRESSURE SOLAR RECEIVERS FOR SOLAR POWER SYSTEMS, AND RELATED COMPONENTS AND USES THEREOF	3/14/2013 1
2018/07132	HUMANIZED ANTI-BASIGIN ANTIBODIES AND THE USE THEREOF	10/25/2018
2018/07136	COMPOSITIONS FOR USE IN TREATING TENDON DEGENERATION	10/25/2018
2018/07219	DISTINGUISHING BETWEEN BLOOD SAMPLE COMPONENTS	10/29/2018
2018/07266	A BOOM MOUNTABLE BREAKER AND METHODS OF USING SAME	10/30/2018
2018/07476	ORAL CARE COMPOSITION AND METHOD OF USE	11/7/2018 1
2018/07542	POTENT AND BALANCED BIDIRECTIONAL PROMOTER	11/9/2018 1
2018/07579	CATALYST FOR THE HYDROFORMYLATION OF OLEFINS, AND USE THEREOF	11/12/2018
2018/07581	ANTIGEN BINDING MOLECULES COMPRISING A TNF FAMILY LIGAND TRIMER AND PD1 BINDING MOIETY	11/12/2018
2018/07630	CHARGING CONNECTOR ARRANGEMENT IN UNDERGROUND VEHICLE	11/13/2018

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2018/07633	ANTI-N3pGlu AMYLOID BETA PEPTIDE ANTIBODIES AND USES THEREOF	11/13/2018
2018/07652	PHOSPHORAMIDATE NUCLEOSIDE DERIVATIVES AS ANTICANCER AGENTS	5/31/2017 1
2018/07687	PERFORMING OPTICAL MEASUREMENTS ON A SAMPLE	11/15/2018
2018/07691	BIORENEWABLE KEROSENE, JET FUEL, JET FUEL BLENDSTOCK, AND METHOD OF MANUFACTURING	11/15/2018
2018/07733	POROUS CERAMIC FILTERS AND METHODS FOR FILTERING	11/16/2018
2018/07893	AEROSOL DELIVERY DEVICE	11/22/2018
2018/07936	PIXEL ARRAY MEDICAL SYSTEMS, DEVICES AND METHODS	11/23/2018
2018/08108	LUMINESCENT MATERIAL	5/23/2016 1
2018/08121	THERAPEUTIC HPV VACCINE COMBINATIONS	11/30/2018
2018/08130	AROMATIC SULFONAMIDE DERIVATIVES	11/30/2018
2018/08131	AMIDE-SUBSTITUTED PYRIDINYLTRIAZOLE DERIVATIVES AND USES THEREOF	11/30/2018
2018/08132	BIOPOLYMER SIZING AGENTS	11/30/2018
2018/08159	RAIL TRANSPORT SYSTEM	12/3/2018 1
2018/08647	METHODS FOR PREDICTING THERAPEUTIC BENEFIT OF ANTI-CD19 THERAPY IN PATIENTS	5/30/2017 1
2019/00029	FEMALE PART OF AN ANIMAL IDENTIFICATION DEVICE COMPRISING AN ELEMENT FOR LOCKING THE MALE PART INSIDE THE FEMALE PART	7/11/2017 1
2019/00434	PLANT STIMULATING CONCENTRATE	1/22/2019 1
2019/00634	LUMINAIRE HOUSING	1/30/2019 1
2019/00741	COMMUNICATION METHOD, TERMINAL DEVICE, AND ACCESS-NETWORK DEVICE	2/5/2019 12
2019/00761	A BUILDING STRUCTURE	2/6/2019 12
2019/00826	A VENTILATOR	8/17/2017 1
2019/00942	CAISSON BLOCK CONSTRUCTION METHOD AND CAISSON BLOCK STRUCTURE	9/8/2016 12
2019/00974	A TENSIONING ASSEMBLY	2/15/2019 1
2019/01056	ORGANIC FERTILISER AND SOIL IMPROVER COMPRISING KERATIN	8/14/2017 1
2019/01075	CONTAINER CLOSURE WITH RIBS FORMED IN SEALING COMPOUND	6/1/2017 12
2019/01081	ENERGY MANAGEMENT SYSTEM	2/20/2019 1

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	AND METHOD	
2019/01094	A THREAD WITH RINGS AND KNITTING METHOD USING THE THREAD WITH RINGS	2/20/2019 1
2019/01218	SOLID STATE DISK WITH LOCKING FUNCTION	1/9/2019 12
2019/01243	METHOD FOR AND APPARATUS FOR DECODING AN AMBISONICS AUDIO SOUNDFIELD REPRESENTATION FOR AUDIO PLAYBACK USING 2D SETUPS	10/20/2014
2019/01244	SPECTACLES AND HINGE ARRANGEMENT FOR USE IN THE MANUFACTURING THEREOF	2/27/2019 1
2019/01347	DOUBLE INSULATED PHOTOVOLTAIC WIRE AND PHOTOVOLTAIC SYSTEM	11/16/2018
2019/01831	METHOD AND APPARATUS FOR ENCODING DATA USING A POLAR CODE	3/25/2019 1
2019/01980	SYNCHRONIZATION SIGNAL SENDING METHOD AND RECEIVING METHOD, AND APPARATUS	3/29/2019 1
2019/02110	INTEGRAL HEEL AND SHANK MOULDING FOR FOOTWEAR	4/4/2019 12
2019/02176	GENERATING RADIOMETRICALLY CORRECTED SURFACE IMAGES	9/21/2017 1
2019/02224	CALIBRATION METHOD AND CALIBRATION DEVICE FOR A GROUP OF REFLECTORS FOR CONCENTRATING SOLAR RADIATION ONTO A RADIATION RECEIVER	4/9/2019 12
2019/02449	TRANSMISSION METHOD, TRANSMISSION DEVICE, RECEPTION METHOD, AND RECEPTION DEVICE	4/17/2019 1
2019/02483	A DOMAIN NAME MANAGEMENT SCHEME FOR CROSS-CHAIN INTERACTIONS IN BLOCKCHAIN SYSTEMS	4/17/2019 1
2019/02560	REGULATING BLOCKCHAIN CONFIDENTIAL TRANSACTIONS	4/23/2019 1
2019/02782	A CONCRETE BATCHING PLANT HAVING REDUCED CYCLE TIME AND REDUCED INSTALLATION AND DISMANTLING TIME	11/25/2016
2019/02929	GAS INFLATABLE BALLOONS	4/4/2017 12
2019/02938	OFFLINE-SERVICE MULTI-USER INTERACTION BASED ON AUGMENTED REALITY	5/10/2019 1
2019/02996	STABLE SOLID COMPOSITION	5/14/2019 1

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	BASED ON AN AROMATIC COMPOUND AND USES THEREOF	
2019/03117	SEED COATING COMPOSITION	5/17/2019 1
2019/03265	SKY RAIL-BASED MULTIMODAL TRANSPORTATION INTERWORKING SYSTEM	5/23/2019 1
2019/03419	LOW ENERGY CURING OFFSET AND LETTERPRESS PRINTING INKS AND PRINTING PROCESS	5/29/2019 1
2019/03714	BLOCKCHAIN-BASED COMMODITY CLAIM METHOD AND APPARATUS, AND ELECTRONIC DEVICE	6/10/2019 1
2019/03782	LONG TERM EVOLUTION (LTE) NETWORK DEVICE	6/12/2019 1
2019/03788	WIRELESS COMMUNICATION SYSTEM FOR WLAN AND LTE COMMUNICATIONS	6/12/2019 1
2019/03996	SYSTEMS AND METHODS FOR USE IN WELDING PIPE SEGMENTS OF A PIPELINE	6/19/2019 1
2019/04041	OPTICAL DEVICE AUGMENTING THE EMISSION OF ELECTRO-LUMINESCENT LIGHT SOURCES WITH HELP OF A DICHROIC ZNO NANOROD COMPRISING FILTER	6/21/2019 1
2019/04088	METHOD AND APPARATUS FOR IDENTITY AUTHENTICATION IN CONNECTION WITH MOBILE PAYMENT TRANSACTIONS	6/24/2019 1
2019/04089	SERVICE PROCESSING METHOD AND DEVICE	6/24/2019 1
2019/04091	NAME MATCHING METHOD AND APPARATUS	6/24/2019 1
2019/04124	LANOSTEROL PRODRUG COMPOUND AND PREPARATION METHOD THEREFOR AND USE THEREOF	6/25/2019 1
2019/04220	METHOD AND DEVICE FOR EXPANDING A METAL ELEMENT	6/27/2019 1
2019/04224	BLOCKCHAIN-BASED CONSENSUS METHOD AND DEVICE	6/27/2019 1
2019/04230	SERVICE PROCESSING AND CONSENSUS METHOD AND DEVICE	6/27/2019 1
2019/04398	ELECTRONIC DEVICE, METHOD AND STORAGE MEDIUM FOR WIRELESS COMMUNICATION SYSTEM	7/4/2019 12
2019/04435	REINFORCING ELEMENT	7/5/2019 12
2019/04615	SMALL MOLECULE INHIBITORS OF THE JAK FAMILY OF KINASES	7/15/2019 1
2019/04616	GLP-1 RECEPTOR AGONISTS AND USES THEREOF	7/15/2019 1

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2019/04655	TREATMENT COMPRISING ORAL OR GASTRIC ADMINISTRATION OF EDARAVONE	7/16/2019 1
2019/04656	KEY ESTABLISHMENT AND DATA SENDING METHOD AND APPARATUS	7/16/2019 1
2019/04695	AMINO-TRIAZOLOPYRIDINE COMPOUNDS AND THEIR USE IN TREATING CANCER	7/17/2019 1
2019/04773	NON-INVASIVE BRAIN INJURY DIAGNOSTIC DEVICE	7/19/2019 1
2019/04930	METHOD FOR SUPPLYING WATER IN THE REARING OF LIVESTOCK AND DEVICE FOR PRODUCING BLOCKS OF AN AQUEOUS GEL	7/26/2019 1
2019/04931	GEL COMPRISING A LIQUID COPRODUCT FROM AGRO-INDUSTRY AND USE THEREOF FOR REARING INSECTS	7/26/2019 1
2019/04934	OFF-CHAIN SMART CONTRACT SERVICE BASED ON TRUSTED EXECUTION ENVIRONMENT	7/26/2019 1
2019/04955	INTRANASAL COMPOSITION COMPRISING BETAHISTINE	2/2/2018 12
2019/05012	HIGHLY REACTIVE, DUST-FREE AND FREE-FLOWING LITHIUM SULPHIDE AND METHOD FOR THE PRODUCTION THEREOF	7/30/2019 1
2019/05117	A METHOD OF PREDICTING A TRAFFIC BEHAVIOUR IN A ROAD SYSTEM	8/1/2019 12
2019/05160	A POLYPEPTIDE LINKER FOR PREPARING MULTISPECIFIC ANTIBODIES	8/5/2019 12
2019/05186	POWER SUPPLY CHARGING SYSTEM	8/6/2019 12
2019/05299	CARTRIDGE RECEIVER, CARTRIDGE SYSTEM, DRINK PREPARATION MACHINE AND METHOD FOR PRODUCING A DRINK	1/12/2017 1
2019/05302	SYSTEM, CARTRIDGE, BEVERAGE PREPARATION UNIT AND METHOD FOR PRODUCING A BEVERAGE	1/12/2017 1
2019/05304	SYSTEM, CARTRIDGE, BEVERAGE PREPARATION UNIT AND METHOD FOR PRODUCING A BEVERAGE	1/12/2017 1
2019/05305	PORTABLE DEVICE AND METHODS FOR EFFICIENT PRODUCTION OF MICROBES	2/12/2018 1
2019/05311	IMAGE GENERATION METHOD AND DEVICE	8/12/2019 1

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2019/05517	IMMUNOCONJUGATES OF AN ANTI-PD-1 ANTIBODY WITH A MUTANT IL-2 OR WITH IL-15	8/21/2019 1
2019/05540	METHODS FOR PRODUCING (METH)ACRYLIC ACID NORBORNYL ESTERS	8/22/2019 1
2019/05543	NEISSERIA MENINGITIDIS COMPOSITIONS AND METHODS THEREOF	8/22/2019 1
2019/05546	COMBINATION BETWEEN TRIFLURIDINE/TIPIRACIL HYDROCHLORIDE, AN ANTI-TUMOR PLATINUM COMPLEX, AND AN IMMUNE CHECKPOINT MODULATOR	8/22/2019 1
2019/05609	COMPOSITIONS AND METHODS FOR IMPROVING SEXUAL FUNCTION	2/8/2018 12
2019/05618	FUSED IMIDAZO-PIPERIDINE JAK INHIBITORS	8/26/2019 1
2019/05711	ANTI-PD-L1-ANTI-TIM-3 BISPECIFIC ANTIBODIES	8/29/2019 1
2019/05817	CRYSTAL FORM AND SALT OF 3-(3,5-DICHLORO-4-HYDROXYBENZOYL)-1,1-DIOXO-2,3-DIHYDRO-1,3-BENZOTHIAZOLE	9/3/2019 12
2019/05902	2-HETEROARYL-3-OXO-2,3-DIHYDRO-4-CARBOXAMIDES FOR THE TREATMENT OF CANCER	9/6/2019 12
2019/05921	METHOD AND APPARATUS FOR THE COMPACT REPRESENTATION OF BIOINFORMATICS DATA USING MULTIPLE GENOMIC DESCRIPTORS	2/14/2018 1
2019/05924	CLIP PUSHING MECHANISM FOR SURGICAL CLIP APPLICATOR	9/9/2019 12
2019/06031	CONTAINER FOR HERMETICALLY SEALED STORAGE OF PRODUCTS, IN PARTICULAR FOODSTUFFS	5/12/2017 1
2019/06063	NOVEL 5'-INOSINIC ACID DEHYDROGENASE AND METHOD OF PREPARING 5'-INOSINIC ACID USING THE SAME	9/13/2019 1
2019/06079	NOVEL ESTER COMPOUNDS, METHOD FOR THE PRODUCTION THEREOF AND USE THEREOF	9/13/2019 1
2019/06104	SUBSTITUTED IMIDAZO-QUINOLINES AS NLRP3 MODULATORS	9/16/2019 1
2019/06154	AMINOPHOSPHINIC DERIVATIVES FOR PREVENTING AND TREATING EYE INFLAMMATION	3/9/2018 12

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2019/06196	BUILDING STRUCTURE	9/19/2019 1
2019/06201	FIRE SAFETY DEVICES METHODS AND SYSTEMS	9/19/2019 1
2019/06240	CONSTRAINING MOTION VECTOR INFORMATION DERIVED BY DECODER-SIDE MOTION VECTOR DERIVATION	9/20/2019 1
2019/06308	CONTINUOUS CASTING METHOD AND CONTINUOUS CASTING DEVICE	3/2/2018 12
2019/06317	CONVEYOR DEVICE FOR AN AUTOMATED PRODUCTION LINE, COMPONENT CARRIER CARRIAGE FOR A CONVEYOR DEVICE, AND METHOD FOR OPERATING A CONVEYOR DEVICE	9/25/2019 1
2019/06319	METHODS OF TREATING DEPRESSION	9/25/2019 1
2019/06343	METALLIC CAN LID	5/12/2017 1
2019/06345	METHODS FOR REMOVING IMPURITIES FROM A HYDROCARBON STREAM AND THEIR USE IN AROMATIC ALKYLATION PROCESSES	3/19/2018 1
2019/06358	IMPROVED ANTIGEN BINDING RECEPTORS	9/26/2019 1
2019/06387	IMPROVEMENTS IN GAS STORAGE DEVICES	9/27/2019 1
2019/06395	SUBSTITUTED INDOLINE DERIVATIVES AS DENGUE VIRAL REPLICATION INHIBITORS	9/27/2019 1
2019/06436	AN ACCESSORY FOR PROVIDING A DYNAMICALLY CHANGEABLE ALARM SIGNAL IN AN ALARM INSTALLATION	3/5/2018 12
2019/06552	OPTICAL THERAPEUTIC DEVICE	10/4/2019 1
2019/06579	CONTROL SYSTEM FOR AIR SEEDER VENTING SYSTEM	4/27/2018 1
2019/06717	SANITARY DEVICE	10/11/2019
2019/06724	LOW-FLOW FLUID DELIVERY SYSTEM AND LOW-FLOW DEVICES THEREFOR	3/21/2018 1
2019/06759	PEPPER PLANTS WITH IMPROVED PEST RESISTANCE	4/24/2018 1
2019/06875	JAK1 SELECTIVE INHIBITORS	10/18/2019
2019/07013	LONG CARBON FIBRE REINFORCED POLYPROPYLENE COMPOSITION	7/26/2018 1
2019/07026	ITEM PROTECTED BY A ROUGH TEMPORARY PROTECTIVE COVER	10/24/2019
2019/07027	FLUCARBAZONE SODIUM HEMIHYDRATE METHOD AND	10/24/2019



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	COMPOSITION	
2019/07091	COMPOSITIONS AND METHODS FOR INHIBITING ARGINASE ACTIVITY	10/28/2019
2019/07108	FLOATING POOL SANITIZER WITH LOCKING DEVICE	10/28/2019
2019/07224	INTER-HAPS COMMUNICATION AND HIGH-CAPACITY MULTI-CELL HAPS FOR CONSTRUCTING THREE-DIMENSIONALIZED NETWORK OF FIFTH- GENERATION COMMUNICATION	4/24/2018 1
2019/07313	STABLE LIQUID PHARMACEUTICAL COMPOSITION	4/18/2018 1
2019/07329	BRIMONIDINE FOR USE AND CLINICAL TRIAL DESIGN FOR GEOGRAPHIC ATROPHY DUE TO AGE-RELATED MACULAR DEGENERATION	5/4/2018 12
2019/07359	HERBICIDALLY ACTIVE 3-PHENYLISOXAZOLINE-5-CARBOXAMIDES OF TETRAHYDRO AND DIHYDROFURAN CARBOXAMIDES	6/11/2018 1
2019/07363	REINFORCED REMOVABLE THERMAL INSULATION	11/6/2019 1
2019/07366	LACTONES AS SOLVENTS IN AGROCHEMICAL FORMULATIONS	11/6/2019 1
2019/07443	A METHOD AND SYSTEM FOR ADMINISTRATING TRAVEL EXPENSES AND RELATED ACTIVITIES	11/11/2019
2019/07450	USE OF A PARAFFINIC GASOIL	6/29/2018 1
2019/07453	USER EQUIPMENT AND BASE STATION APPARATUS	11/11/2019
2019/07518	METHOD FOR PRODUCING A STEEL PART AND CORRESPONDING STEEL PART	5/22/2018 1
2019/07538	TOWED UNDERWATER GEOELECTRIC DETECTION SYSTEM AND METHOD	11/14/2019
2019/07558	HERBICIDALLY ACTIVE 3-PHENYLISOXAZOLINE-5-CARBOXAMIDES OF TETRAHYDRO AND DIHYDROFURAN CARBOXYLIC ACIDS AND ESTERS	6/11/2018 1
2019/07578	METHOD FOR DEFOLIATING HEMP, DEFOLIANT AND APPLICATION THEREOF	8/10/2018 1
2019/07607	LABELED INHIBITORS OF PROSTATE SPECIFIC MEMBRANE ANTIGEN (PSMA), THEIR USE AS	10/17/2014

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	IMAGING AGENTS AND PHARMACEUTICAL AGENTS FOR THE TREATMENT OF PROSTATE CANCER	
2019/07609	HOOD FOR SI-METAL TAPPING AND PROCESS FOR PRODUCTION OF SILICON USING SUCH A HOOD	2/22/2018 1
2019/07641	TREATMENT OF CANCER BY MANIPULATION OF COMMENSAL MICROFLORA	6/1/2016 12
2019/07670	METHOD OF EXCAVATING A TAILINGS LAGOON	11/20/2019
2019/07672	STRIP OF FLAT CLOSURES MADE OF PLASTIC FOAM THAT ARE COUPLED TOGETHER	7/10/2018 1
2019/07673	BONE-TARGETING ANTIBODIES	1/19/2018 1
2019/07708	NANOFIBER MANUFACTURING DEVICE AND HEAD USED FOR SAME	5/22/2018 1
2019/07773	RGMA BINDING PROTEIN AND USE THEREOF	4/27/2016 1
2019/07807	RAILWAY FREIGHT CAR COUPLING FORCE MONITORING SYSTEM	6/14/2018 1
2019/07830	HOLDER FOR SECURING A FLUID TUBE, A SOLAR COLLECTOR, AND METHOD OF ARRANGING A FLUID TUBE	5/15/2018 1
2019/07884	SYNCHRONIZATION SIGNAL SENDING METHOD, SYNCHRONIZATION SIGNAL RECEIVING METHOD, AND RELATED DEVICE	11/27/2019
2019/07916	BOTULINUM NEUROTOXIN FOR TREATMENT OF DISORDERS ASSOCIATED WITH MELANOCYTE HYPERACTIVITY AND/OR EXCESS MELANIN	5/30/2018 1
2019/08020	METHOD AND TESTING DEVICE FOR MEASURING PARTIAL DISCHARGE PULSES OF A SHIELDED CABLE	4/26/2018 1
2019/08022	COMPOSITIONS COMPRISING A BACTERIAL STRAIN OF THE GENUS MEGASPHERA AND USES THEREOF	6/14/2018 1
2019/08048	MACHINE FOR INTEGRAL PROCESSING OF FRUITS WITH A HARD OR SOFT SHELL	12/4/2019 1
2019/08084	A PORTABLE BATTERY AND METHOD OF ADVERTISING THEREWITH	12/5/2019 1
2019/08085	POLYPROPYLENE COMPOSITION	8/24/2018 1

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	WITH LOW SHRINKAGE AT WIDE APPLICATION TEMPERATURE RANGE	
2019/08100	METHOD AND APPARATUSES FOR SCREENING	6/6/2018 12
2019/08125	PAGING METHOD, TERMINAL DEVICE, AND NETWORK DEVICE	8/11/2017 1
2019/08153	CONSTRUCTION METHOD FOR HIGH-DUCTILITY MASONRY WALL HAVING REINFORCED JOINT MORTAR LAYER	11/5/2018 1
2019/08154	COMPOUNDS AND COMPOSITIONS FOR TREATING CONDITIONS ASSOCIATED WITH NLRP ACTIVITY	7/23/2018 1
2019/08155	APPARATUS FOR WEED CONTROL	7/2/2018 12
2019/08156	A WEED CONTROL APPARATUS	7/2/2018 12
2019/08159	PRODUCTION OF RADIOISOTOPES	12/9/2019 1
2019/08192	APPARATUS FOR DETERMINING NITRATE LEVELS, AND METHOD FOR MEASURING ION CONCENTRATION WITH A STANDARD DEVIATION CORRECTION	5/6/2016 12
2019/08199	A HAND HELD DEVICE FOR ECONOMIC AGRICULTURAL MANAGEMENT	7/26/2018 1
2019/08235	METHOD FOR CALCULATING PERMEABILITY OF SHALE FRACTURING SELF-SUPPORTING FRACTURE NETWORK	12/11/2019
2019/08308	SYSTEM OF ROTOR, TRANSMISSION AND COLLECTION ELEMENTS THAT OPTIMISES A VERTICAL-AXIS WIND TURBINE	7/3/2018 12
2019/08350	APPARATUS FOR RADIOPHARMACEUTICAL QUANTIFICATION OF A BODY PART	7/23/2018 1
2019/08392	THERAPEUTIC COMBINATION OF A THIRD-GENERATION EGFR TYROSINE KINASE INHIBITOR AND A RAF INHIBITOR	8/1/2018 12
2019/08407	IMPELLER OF FLOTATION MACHINE, FLOTATION MACHINE AND FLOTATION METHOD THEREOF	8/13/2019 1
2019/08427	PHARMACEUTICAL COMPOSITIONS CONTAINING SUBSTITUTED POLYCYCLIC PYRIDONE DERIVATIVES AND PRODRUG THEREOF	8/9/2017 12
2019/08430	A HAND HELD DEVICE FOR LAND MANAGEMENT	7/26/2018 1

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2019/08451	TREATMENT OF SEXUAL DYSFUNCTION AND IMPROVEMENT IN SEXUAL QUALITY OF LIFE	6/15/2018 1
2019/08531	DEVICE FOR AGRICULTURAL MANAGEMENT	7/26/2018 1
2019/08535	DISCHARGE NOZZLE FOR NANO FIBER MANUFACTURING DEVICE AND NANO FIBER MANUFACTURING DEVICE PROVIDED WITH DISCHARGE NOZZLE	6/20/2018 1
2020/00021	ASSEMBLY FOR THE ELECTROCHEMICAL DECONTAMINATION OF METALLIC RADIOACTIVE WASTE	1/2/2020 12
2020/00098	COMBUSTION SYSTEM AND METHODS	7/6/2018 12
2020/00109	ANTI-ALLERGEN ANTIBODIES	6/20/2018 1
2020/00216	UNIVERSAL JOINT FOR USE IN A DRILLING DEVICE, AND DRILLING DEVICE	1/13/2020 1
2020/00233	LIGHTWEIGHT APPLIANCE WITH EXOSKELETAL SUPPORT RESPECTIVE KIT-OF-PARTS AND METHOD FOR PRODUCTION OF BIOGAS AND LIQUID FERTILIZER	6/25/2018 1
2020/00371	BACILLUS AMYLOLIQUEFACIENS QV15 STIMULANT FOR THE SECONDARY METABOLISM OF PHENOLIC COMPOUNDS AND THE INHIBITORY CAPACITY OF RASBERRY AND STRAWBERRY EXTRACTS FOR ENZYMES RELATED TO METABOLIC SYNDROME	5/22/2018 1
2020/00407	DEVICE AND METHOD FOR TREATING MUST	6/20/2018 1
2020/00528	METHOD OF ESTABLISHING NATURAL CIRCULATION OF A LIQUID METAL COOLANT IN A FAST NEUTRON REACTOR	7/18/2018 1
2020/00562	A WINE POURER AND AERATOR, AND LABEL INCORPORATING SAME	9/26/2018 1
2020/00639	STERILIZING MODULE	1/30/2020 1
2020/00982	A TOOL FOR BARBED WIRE	9/6/2018 12
2020/01042	ANTIBODY SPECIFICALLY BINDING TO PAUF PROTEIN, AND USE THEREOF	2/19/2020 1
2020/01049	AN APPARATUS AND METHOD FOR MANUFACTURING A SOLAR COLLECTOR	7/19/2018 1
2020/01247	A LOCKING ARRANGEMENT	8/3/2018 12

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2020/01257	ENABLING AND DISABLING LOCATION SHARING BASED ON ENVIRONMENTAL SIGNALS	6/22/2018 1
2020/01262	CACHE-BASED TRACE RECORDING USING CACHE COHERENCE PROTOCOL DATA	6/22/2018 1
2020/01263	NATURAL LANGUAGE PROCESSING AND ANALYSIS IN A CONVERSATIONAL SCHEDULING ASSISTANT COMPUTING SYSTEM	6/25/2018 1
2020/01274	DIRECTIONAL ACOUSTIC WAVE EMISSION DEVICE AND METHOD FOR REPELLING BIRDS	10/23/2017
2020/01290	HIGH NOISE REDUCTION COEFFICIENT, LOW DENSITY ACOUSTICAL TILES	8/9/2018 12
2020/01292	NEGATIVE PRESSURE WOUND TREATMENT APPARATUSES AND METHODS WITH INTEGRATED ELECTRONICS	9/13/2018 1
2020/01308	UPLINK TRANSMISSION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE	2/28/2020 1
2020/01382	NOVEL PROMOTER AND L-AMINO ACID PRODUCTION METHOD USING SAME	3/4/2020 12
2020/01383	A SPIN-ON FLUID TREATMENT DEVICE AND METHODS	3/4/2020 12
2020/01469	A WEB-BASED MARKETING TECHNOLOGY AND CHANNEL TO EXPERIENCE AUGMENTED REALITY (AR) PRODUCT AND SERVICE OFFERING VIA A COMPUTER OR MOBILE DEVICE	3/9/2020 12
2020/01526	PROCESS FOR PRODUCING (METH)ACRYLATES FROM GLYCEROL CARBONATE	3/11/2020 1
2020/01588	METHOD OF TREATING ALZHEIMER'S DISEASE	10/4/2017 1
2020/01702	PEI PARTICLE FOAMS FOR APPLICATIONS IN AVIATION INTERIORS	3/18/2020 1
2020/01727	IMPROVEMENTS IN AND RELATING TO TRANSPORTATION	9/18/2018 1
2020/01761	EXCAVATOR BUCKET & MANUFACTURING METHOD	10/2/2018 1
2020/01786	DIGITAL MODELING AND TRACKING OF AGRICULTURAL FIELDS FOR IMPLEMENTING AGRICULTURAL FIELD TRIALS	3/20/2020 1
2020/01888	LONG-ACTING CONJUGATE OF GLUCAGON-LIKE PEPTIDE-2 (GLP-	3/24/2020 1

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	2) DERIVATIVE	
2020/01967	AVOIDANCE MODIFIER SYSTEM FOR COLLISION AVOIDANCE SYSTEM	5/4/2020 12
2020/01968	TIPPING AVOIDANCE SYSTEM AND METHOD	5/4/2020 12
2020/01969	CONTROL SYSTEM FOR DRILLING MACHINES	5/4/2020 12
2020/01971	COLLISION AVOIDANCE SYSTEM WITH ELEVATION COMPENSATION	5/4/2020 12
2020/01989	PORTABLE RAZOR WIRE RAPID DEPLOYMENT UNIT	5/4/2020 12
2020/01990	SYSTEM FOR THE SAFE COUPLING OF A RE-USABLE BAG TO A BANKNOTE HANDLING AND STORING MACHINE	5/4/2020 12
2020/01992	AUTOMATED FEEDBACK IN ONLINE LANGUAGE EXERCISES	5/4/2020 12
2020/01993	A METHOD FOR DETECTING THE QUALITY OF FIGS BASED ON NEAR-INFRARED SPECTROSCOPY	5/4/2020 12
2020/01994	REINFORCED ICE SUPPORTING DEVICE FOR FOUNDATION PIT AND METHOD FOR SUPPORTING THROUGH SAME	5/4/2020 12
2020/01995	INDIRECT HEATING DEVICE FOR ABANDONED MINE SHAFT AND HEATING METHOD USING INDIRECT HEATING DEVICE	5/4/2020 12
2020/02009	SHOPPING CART SANITIZING STATION	5/4/2020 12
2020/02012	AN APPARATUS AND A METHOD FOR SOLID WASTE MANAGEMENT	5/4/2020 12
2020/02025	SPIRAL CONVEYOR CONSTRUCTION AS WELL AS A DRIVE TOWER	5/4/2020 12
2020/02026	APPLICATION OF HERBICIDES	5/4/2020 12
2020/02034	HETEROARYL COMPOUNDS AS MUSCARINIC M1 RECEPTOR POSITIVE ALLOSTERIC MODULATORS	10/17/2018
2020/02048	METHOD AND DEVICE FOR CHEMICAL LOOPING GASIFICATION OF BIOMASS BASED ON AN OXYGEN CARRIER/CARBON CARRIER	10/18/2018
2020/02052	SIC POWER DEVICE-BASED FULL-BRIDGE LLC RESONANT PLASMA POWER SUPPLY	1/31/2018 1
2020/02127	ASPHALT EMULSION SURFACE TREATMENT CONTAINING STEROL	5/4/2020 12
2020/02131	COMPOSITIONS AND METHODS	5/4/2020 12

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	FOR IMPROVING NITROGEN UTILIZATION IN A RUMINANT	
2020/02135	A SUBMERSIBLE HABITAT FOR THE REPAIR OF SUBSEA CABLE	5/4/2020 12
2020/02136	DEVICES FOR REFLECTING, DEFLECTING, AND/OR ABSORBING ELECTROMAGNETIC RADIATION EMITTED FROM AN ELECTRONIC DEVICE AND METHODS THEREFOR	5/4/2020 12
2020/02138	METHOD FOR PREPARING OXASPIROCYCLE DERIVATIVE, AND INTERMEDIATE THEREOF	5/4/2020 12
2020/02142	DIGITAL HIGH VOLTAGE POWER SUPPLY	5/4/2020 12
2020/02152	IMAGE PROCESSING DEVICE AND METHOD	5/4/2020 12
2020/02166	NOVEL COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS THEREOF FOR THE TREATMENT OF INFLAMMATORY DISORDERS	5/4/2020 12
2020/02207	ANTIBODIES AND ANTIBODY-DRUG CONJUGATES SPECIFIC FOR CD123 AND USES THEREOF	5/4/2020 12
2020/02225	DISEASE RECOGNITION FROM IMAGES HAVING A LARGE FIELD OF VIEW	5/4/2020 12
2020/02254	IMPROVED HEAT TREATABLE TITANIUM ALLOY	5/4/2020 12
2020/02256	MACHINE GUN	5/4/2020 12
2020/02257	MACHINE GUN	5/4/2020 12
2020/02302	AIR RELEASE VALVE	5/4/2020 12
2020/02414	A CATHODE MATERIAL	5/4/2020 12
2020/02440	SWING DOOR SYSTEM AND A FREEZER DEVICE	5/5/2020 12
2020/02446	A SECOND-ORDER ALL-PASS NETWORK COMPRISING CCIIS	5/5/2020 12
2020/02447	INTERMODAL CONTAINER DOOR LOCK	9/26/2018 1
2020/02448	METHOD FOR CONCENTRATING IRON ORE SLURRY	5/5/2020 12
2020/02469	CATALYST FOR AROMATIZATION OF LONG-CARBON CHAIN ALKANE AND PREPARATION METHOD AND USE THEREOF	5/6/2020 12
2020/02522	AUDIO DECODER SUPPORTING A SET OF DIFFERENT LOSS CONCEALMENT TOOLS	11/5/2018 1
2020/02527	SYSTEMS AND METHODS FOR CELLULAR REPROGRAMMING OF A PLANT CELL	10/12/2018
2020/02530	PROCESS FOR PRODUCING HERBICIDAL PYRIDAZINONE	5/7/2020 12

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	COMPOUNDS	
2020/02574	ANTI-INTRUSION CYLINDER	5/8/2020 12
2020/02610	PROCESS FOR THE OLIGOMERIZATION OF OLEFINS WITH CONTROL OF THE OLIGOMER CONTENT IN THE HYDROCARBON STREAMS TO BE OLIGOMERIZED	5/11/2020 1
2020/02619	TELECOMMUNICATION MASTS	10/11/2018
2020/02625	SIDEWALL WITH BUCKSTAY FOR A METALLURGICAL FURNACE	5/11/2020 1
2020/02637	METHOD, DEVICE AND SYSTEM FOR DETERMINING AN ARC ON A POWER TRANSMISSION LINE	5/12/2020 1
2020/02669	PREVENTION AND TREATMENT OF GRAFT-VERSUS-HOST-DISEASE WITH DEFENSINS	11/21/2018
2020/02675	PROBIOTIC COMPOSITION	10/15/2018
2020/02714	MOBILE POWER SUPPLY TRAILER	5/13/2020 1
2020/02715	ENERGISER ARRANGEMENT FOR USE WITH AN ELECTRIFIED FENCE	5/13/2020 1
2020/02716	IMPELLER	5/13/2020 1
2020/02722	SYSTEM AND METHOD FOR OPTIMIZING SATELLITE GATEWAY DIVERSITY	5/13/2020 1
2020/02723	COMPOSITION	5/13/2020 1
2020/02724	DOUBLE WALL COFFERDAM AND CONSTRUCTION METHOD FOR PIER SHAFT	5/13/2020 1
2020/02749	PRESERVATIVE FREE PHARMACEUTICAL COMPOSITION FOR OPHTHALMIC ADMINISTRATION COMPRISING BRIMONIDINE	5/14/2020 1
2020/02767	MULTILOBULAR SUPERSONIC GAS NOZZLES FOR LIQUID SPARGING	5/14/2020 1
2020/02769	A PROCESS LEADING TO ZERO WATER DISCHARGE IN POST TANNING OPERATIONS	5/14/2020 1
2020/02815	BRAKE FORCE MODULATION TO ENABLE STEERING WHEN STATIONARY	5/15/2020 1
2020/02882	METHODS AND DEVICES FOR PERFORMING AN ANALYTICAL MEASUREMENT BASED ON A COLOR FORMATION REACTION	5/18/2020 1
2020/02885	DISPLACEMENT TRANSDUCER DEVICE	5/18/2020 1
2020/02889	DETECTION WINDOW INDICATION METHOD AND APPARATUS	5/18/2020 1
2020/02913	A BOILER SYSTEM WITH A SUPPORT CONSTRUCTION	5/19/2020 1
2020/02978	PRESERVATIVE FREE	5/21/2020 1



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	PHARMACEUTICAL COMPOSITION FOR OPHTHALMIC ADMINISTRATION CONTAINING CYCLOSPORINE	
2020/02979	FACILITATING CLEANING OF DEPOSITS FROM RAIL WAGONS	5/21/2020 1
2020/02980	NUMERICAL SIMULATION METHOD FOR ASPHALT MIXTURE BASED ON DISCRETE ELEMENT METHOD-FINITE DIFFERENCE METHOD COUPLING	5/21/2020 1
2020/02994	DISINFECTION STATION AND METHOD OF USING SAME	10/16/2018
2020/02998	MEDICAL SYSTEM AND METHOD OF MANUFACTURING THEREOF	5/21/2020 1
2020/03012	PALLET SHELFING APPARATUS	11/29/2018
2020/03027	AUTOMATIC AND CONTINUOUS HYDROGEN GENERATION DEVICE	12/24/2018
2020/03066	ACOUSTIC RECOGNITION METHOD FOR BUBBLE SIGNAL IN FRESH WATER	5/25/2020 1
2020/03067	VISOR FRAME	5/25/2020 1
2020/03101	A DIETARY COMPOSITION COMPRISING PLANT-BASED SOURCES OF FATTY ACIDS	11/1/2018 1
2020/03138	AN EARTH CUTTING APPARATUS, SYSTEM AND METHOD	11/16/2018
2020/03139	ACTIVE BREATHING SYSTEM	12/14/2018
2020/03195	MELAMINE-FACED WOOD-INORGANIC COMPOSITE PANEL AND PREPARATION METHOD THEREOF	5/29/2020 1
2020/03196	SOUNDPROOF COMPOSITE PANEL FACED WITH POPLAR VENEER AND PREPARATION METHOD THEREOF	5/29/2020 1
2020/03201	CONTROL SYSTEM FOR INDUCING SUGARCANE FLOWERING BASED ON PHOTOPERIOD	5/29/2020 1
2020/03204	METHOD AND SYSTEM FOR SETTING FURNACE ROLL SHAPE CURVE IN WHOLE FURNACE SECTION OF CONTINUOUS ANNEALING UNIT	5/29/2020 1
2020/03299	HIGH-SPEED SHEARING EMULSIFICATION DEVICE AND COMPLETE FLOTATION EQUIPMENT	6/2/2020 12
2020/03309	MOBILE MODULAR TREATMENT DEVICE FOR ORGANIC WASTE GAS IN SITE REMEDIATION	6/3/2020 12
2020/03367	INDUSTRIAL RADIO FREQUENCY INSECTICIDAL METHOD FOR AGRICULTURAL PRODUCTS	6/5/2020 12

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2020/03434	METHOD FOR SETTING ENVIRONMENT-FRIENDLY AND ENERGY-SAVING COLORED-LEAF STREET LAMPS	6/8/2020 12
2020/03438	PICKUP DEVICE FOR AUTOMATIC CLEANING OF THE MULCHING FILMS	6/9/2020 12
2020/03557	ENGINEERING RETREADED TIRE TREAD CONTAINING GRAPHENE OXIDE AND PREPARATION METHOD	6/12/2020 1
2020/03610	REMOTE ACTIVATION OF DEVICES	6/17/2020 1
2020/03632	ROCK BOLT	11/13/2018
2020/03887	RADIO-FREQUENCY VACUUM-HOT-AIR DRYING METHOD FOR KIWI FRUIT SLICES	6/24/2020 1
2020/03999	SYSTEM AND METHODS	1/11/2019 1
2020/05477	HARNESS CONNECTION POINT	2/7/2018 12
2020/06501	TRANSOM-MULLION COMPONENTS, FRAME ARRANGEMENT AND FRAME ASSEMBLY	10/20/2020
2020/06669	METHOD FOR ASSESSING BUSINESS RISK AND BUSINESS CONSULTATION	10/27/2020
2020/07479	A DESCENDER	5/24/2018 1
2020/07635	A STRUCTURE AND METHOD OF WAVE ENERGY POWER GENERATION	12/8/2020 1
2020/07702	APPLICATION OF CERASUS HUMILIS (BGE.) SOK EXTRACT IN PREPARATION OF ANTIBACTERIAL PRODUCT	12/10/2020
2020/07964	PHOTOVOLTAIC PANEL STRUCTURE CAPABLE OF REDUCING INFLUENCE OF DUST ACCUMULATION AND METHOD FOR DESIGNING PHOTOVOLTAIC PANEL STRUCTURE	12/18/2020
2021/00258	"COMPOSITING RECARBURIZATION AND NITROGEN CONTROL" TYPE EMISSION REDUCTION FERTILIZING METHOD FOR GREENHOUSE VEGETABLES	1/13/2021 1
2021/00506	AUXILIARY DEVICE FOR REALIZING ACCURATE SHOOTING OF C-ARM FLUOROSCOPY	4/17/2020 1
2021/00541	METHOD, SYSTEM, STORAGE MEDIUM, AND PROGRAM FOR DETECTING AROMATIC CHARACTERISTICS WITH RESPECT TO FLUE-CURED TOBACCO	1/26/2021 1

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2021/00577	POLLUTED SOFT CLAY FOUNDATION REINFORCED WITH DRAINAGE WOODPILES	1/27/2021 1
2021/00710	EXPLOSIVE FEEDING METHOD AND APPARATUS FOR ULTRA-DEEP HOLE PRESPLITTING BLASTING	2/2/2021 12
2021/00738	A DISTRIBUTED FISHING TACKLE FOR FISHING DEEP-SEA THYSANOTEUTHIS RHOMBUS	2/3/2021 12
2021/00739	A SQUID FISHHOOK	2/3/2021 12
2021/00740	A METHOD FOR CONTROLLING THE STARTING LINE SPEED OF SQUID JIGGING MACHINE	2/3/2021 12
2021/00741	A COMBINED TYPE LED ABOVE-WATER FISH LAMP	2/3/2021 12
2021/00744	BLASTING CHARGE STRUCTURE	2/3/2021 12
2021/00746	IGNITION ELEMENT, MILLISECOND ELECTRIC DETONATOR WITHOUT CONVENTIONAL DELAY DEVICE AND PROCESSING METHOD THEREOF	2/3/2021 12
2021/00748	A MOBILE INTEGRATED DEVICE FOR QUANTITATIVE BAIT FEEDING AND SPRAYING	2/3/2021 12
2021/00810	HOLE SEALING SYSTEM AND METHOD FOR FLOOR THROUGH-BED PRESSURE RELIEF DRILLING HOLE OF CLOSE DISTANCE COAL SEAM	2/5/2021 12
2021/01164	DRILL BIT	2/22/2021 1
2021/01265	EDIBLE FRUIT AND VEGETABLE NANO COATING PRESERVATIVE, AND PREPARATION METHOD AND APPLICATION THEREOF	2/25/2021 1
2021/01268	A COMBINABLE CROSS-TYPE ARTIFICIAL FISH REEF	2/25/2021 1
2021/01269	A SYSTEM FOR PRODUCTION, PLACEMENT, TRACKING AND INSPECTION OF FISH REEFS BASED ON QUICK RESPONSE CODE INFORMATION	2/25/2021 1
2021/01578	RELAY ASSEMBLING AND DETECTING EQUIPMENT	3/9/2021 12
2021/01579	CAMERA WITH VIDEO TRACKING FUNCTION	3/9/2021 12
2021/01580	A DESIGN TOOL FOR INTELLIGENT INTERIOR DESIGN	3/9/2021 12
2021/01722	STRESS GRADIENT LOAD TESTING APPARATUS AND METHOD FOR ACCURATE DETERMINATION OF LOAD ENERGY	4/1/2020 12
2021/01725	TILTING TRUCK BED AND DUMP	8/16/2019 1

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	TRUCK	
2021/01745	QUICK-SEPARATE SLIDER AND ZIPPER	8/7/2020 12
2021/01769	CLASSROOM TEACHING DEVICE	3/16/2021 1
2021/01770	SCAFFOLD FOR BUILDING CONSTRUCTION	3/16/2021 1
2021/01775	UNDERGROUND DUST PARTICLE SIZE CONTROL VALVE FOR COAL MINES	3/17/2021 1
2021/01776	UNDERGROUND DUST CONCENTRATION DETECTION DEVICE FOR COAL MINES	3/17/2021 1
2021/01783	SYSTEM FOR CONTROLLING UNMANNED AERIAL VEHICLE (UAV) TO PERFORM MULTI-PARAMETER UNDERWATER DETECTION BASED ON SPECTRAL ANALYSIS	3/17/2021 1
2021/01818	MINE UNDERGROUND SUSPENDED INCLINED ROADWAY BAFFLE AND SHIFTING FORK DEVICE	3/18/2021 1
2021/01819	SMALL-FILE STORAGE OPTIMIZATION SYSTEM BASED ON VIRTUAL FILE SYSTEM IN KUBERNETES USER-MODE APPLICATION	3/18/2021 1
2021/01830	FAN MILL	9/19/2019 1
2021/01909	PROTEIN SECONDARY STRUCTURE PREDICTION METHOD	3/23/2021 1
2021/01910	PASSIVE OPTICAL FIBER COMMUNICATION PRINCIPLE TEACHING EXPERIMENT BOX	3/23/2021 1
2021/01911	APPLICATION OF A 4,6-DIMETHYL-2-MERCAPTOPYRIMIDINE DIVALENT NICKEL COMPLEX IN THE PREPARATION OF ALPHA-ALKYL KETONES	3/23/2021 1
2021/02049	PRECAST REINFORCED CONCRETE MOULDING BED	3/26/2021 1
2021/02215	HAND-HELD AND FULLY-AUTOMATIC BONE MARROW PUNCTURE INFUSION DEVICE	4/1/2021 12
2021/02221	TURBINE MOUNTING BASE HAVING SHOCK ABSORPTION FUNCTION	8/26/2019 1
2021/02253	MULTIFUNCTIONAL TEA LEAF FERMENTING AND DRYING INTEGRATED EQUIPMENT	4/6/2021 12
2021/02254	BRUSHLESS DC MOTOR SPEED CONTROL DEVICE AND METHOD	4/6/2021 12
2021/02273	MICROENCAPSULATED SQUID INK MELANIN BISCUIT AND PREPARATION METHOD THEREOF	3/18/2021 1
2021/02299	APPARATUS FOR TESTING HEAT-	4/7/2021 12

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	PRESERVATION AND COLD-INSULATION PROPERTIES OF MATERIALS UNDER CONFINING PRESSURE AND METHOD THEREOF	
2021/02300	GROUTING QUALITY TESTING METHOD FOR WEAK FLOOR OF COAL MINE ROCK ROADWAY	4/7/2021 12
2021/02301	PREPARATION METHOD AND PRODUCT OF MICROENCAPSULATED PHLOROTANNIN BISCUIT	3/18/2021 1
2021/02315	A METHOD OF PREPARING A SUPERCAPACITOR SLURRY	4/8/2021 12
2021/02316	CALCULATION METHOD FOR DESIGN OF GAS-CONTROL CROSSING HOLES IN COAL ROADWAY	4/8/2021 12
2021/02330	METHOD FOR CALCULATING PIPELINE LEAK POSITION BASED ON BEAMFORMING	12/31/2020
2021/02336	CHINESE HERB COMPOSITE LIQUID CAPABLE OF EFFECTIVELY ENHANCING IMMUNITY AND DISEASE RESISTANCE OF PRAWNS	4/9/2021 12
2021/02337	ARTIFICIAL EGG COLLECTION AND FERTILIZATION METHOD FOR CALIFORNIA SEA CUCUMBERS	4/9/2021 12
2021/02338	BIOLOGICAL PREVENTION AND CONTROL TECHNIQUE FOR EFFECTIVELY PREVENTING DISEASE OCCURRENCE OF MARSUPENAEUS JAPONICAS	4/9/2021 12
2021/02346	PELMET ASSEMBLY AND BRACKET THEREFOR	9/11/2019 1
2021/02402	A METHOD FOR MEASURING MORPHOLOGICAL PARAMETER OF CEPHALOPOD BEAK BASED ON COMPUTER VISION AND APPLICATION THEREOF	4/13/2021 1
2021/02561	OIL COLLECTING DEVICE FIXED ON DIESEL ENGINE MOUNTING RACK	4/19/2021 1
2021/02562	DEVICE AND METHOD FOR TESTING AUTOMATIC DISENGAGEMENT AND ENGAGEMENT OF LIFE JACKET BUCKLE	4/19/2021 1
2021/02563	DEVICE FOR MONITORING SHIP LIFE SEWAGE DISCHARGE	4/19/2021 1
2021/02564	DEVICE FOR AUTOMATICALLY PREVENTING SEAWATER FROM ENTERING SHIP VENTILATOR	4/19/2021 1
2021/02565	SYSTEM FOR TESTING OXYGEN	4/19/2021 1

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	UTILIZATION OF SUBMERSIBLE SELF-PRIMING CENTRIFUGAL AERATOR	
2021/02566	DEEP-SEA AQUACULTURE WORK SHIP	4/19/2021 1
2021/02568	A METHOD FOR MEASURING INDIVIDUAL GROWTH AND SEXUAL MATURITY OF STHENOTEUTHIS OUALANIENSIS IN SOUTH CHINA SEA BASED ON HORNY JAW MORPHOLOGY	4/19/2021 1
2021/02569	A METHOD FOR CONSTRUCTING A GROWTH MODEL OF STHENOTEUTHIS OUALANIENSIS BASED ON MARINE ENVIRONMENTAL FACTORS	4/19/2021 1
2021/02570	DOWNHOLE COAL GANGUE SOURCE REDUCTION, SORTING, AND FILLING COLLABORATIVE MINING SYSTEM	4/19/2021 1
2021/02600	MULTIFUNCTIONAL SUSTAINED-RELEASE MICROCAPSULE, PREPARATION METHOD AND APPLICATION THEREOF	4/20/2021 1
2021/02601	COMPOSITE HIGH-ABSORBENT ANTI-EXTINGUISHING GEL FOR COAL MINES, PREPARATION METHOD AND APPLICATION	4/20/2021 1
2021/02602	EXPERIMENTAL METHOD FOR THE CLINICAL APPLICATION OF MESENCHYMAL STEM CELLS TO CHILDREN WITH AUTISM	4/20/2021 1
2021/02605	POLYCARBOXYLATIC METAL-ORGANIC FRAMEWORK MATERIAL BASED ON ELECTROSPUN FIBER MEMBRANE AND PRODUCTION METHOD THEREFOR	4/20/2021 1
2021/02606	A METHOD FOR EVALUATING DEPLOYMENT QUALITY OF ARTIFICIAL REEFS	4/20/2021 1
2021/02684	AUTONOMOUS NAVIGATION METHOD FOR UNMANNED COMBAT AERIAL VEHICLE ASSISTED BY BIONIC POLARIZATION	4/22/2021 1
2021/02805	ACCURATE BOREHOLE PEEPING DEVICE INTEGRATED WITH "DRILLING AND PUSHING" AND METHOD	4/28/2021 1
2021/02811	FULL-DAY IMAGING DETECTOR WITH MULTI-FUNCTIONAL WINDOW, AND METHOD FOR PREPARING SAME	11/23/2019
2021/02813	METHOD FOR USING ANTI-	9/9/2020 12

Application Number	Patent Title	Filing Date
	EVAPORATION DETACHABLE-TYPE SLIDE INCUBATOR	
2021/02814	SUPPORT FRAME USED IN EXAMINING OCULAR FUNDUS	5/29/2020 1
2021/02815	CONVENIENT-ASSEMBLY, DETACHABLE INCUBATOR FOR MICROSCOPE SLIDE	6/28/2020 1
2021/02862	INTEGRATION MODULE SYSTEM OF MILLIMETER-WAVE AND NON-MILLIMETER-WAVE ANTENNAS AND ELECTRONIC APPARATUS	4/28/2021 1
2021/02863	MULTIPLEX PCR DETECTION METHOD AND APPLICATION FOR DETECTING FOUR KINDS OF CANINE VIRUSES	4/29/2021 1
2021/02867	SELF-CLEANING PERMANENT MAGNET SYNCHRONOUS MOTOR	4/29/2021 1
2021/02868	METHOD FOR TESTING HYDRAULIC FRACTURING AND FLUSHING PERMEABILITY-INCREASING EFFECT IN COAL SEAMS	4/29/2021 1
2021/02869	PRE-DRAINING HYDRAULIC FRACTURING PERMEABILITY-INCREASING METHOD FOR A COAL ROADWAY LAYER-CROSSING STRIP IN A BOTTOM DRAINING ROADWAY	4/29/2021 1

## DESIGNS

### Advertisement List for May 2021

**Number of Advertised Designs: 206**

Application Number	Design Articles	Filing Date
A2019/00158	HYDROPONICS PLANTER	1/30/2019 1
A2019/00434	SECURITY CONTROL HUB	4/2/2019 12
A2019/00829	DOOR PROTECT SENSOR	6/19/2019 1
A2019/01093	CHOPPING BOARDS WITH CASES	8/8/2019 12
A2019/01151	AUTOMOBILE	8/23/2019 1
A2019/01476	CONSTRUCTION AND MINING MACHINERY	10/4/2019 1
A2019/01488	CONSTRUCTION AND MINING MACHINERY	10/7/2019 1
A2019/01489	CONSTRUCTION AND MINING MACHINERY	10/7/2019 1
A2019/01560	A BOX CONTAINER TO BE	10/23/2019

Application Number	Design Articles	Filing Date
	TRANSPORTED ON A ROOF RACK	
A2019/01592	SMOKE DETECTOR	10/25/2019
A2019/01616	OVERALL	10/29/2019
A2019/01737	PUMP HOUSING	11/29/2019
A2019/01738	PUMP HOUSING	11/29/2019
A2019/01884	CONTAINER	12/18/2019
A2020/00065	Stand	1/23/2020 1
A2020/00165	HAIR DRYER	2/12/2020 1
A2020/00170	Bead Lock	2/12/2020 1
A2020/00236	CONTAINERS	2/26/2020 1
A2020/00237	CONTAINERS	2/26/2020 1
A2020/00238	CONTAINERS	2/26/2020 1
A2020/00242	CONTAINERS	2/26/2020 1
A2020/00243	CONTAINERS	2/26/2020 1
A2020/00244	CONTAINERS	2/26/2020 1
A2020/00245	CONTAINERS	2/26/2020 1
A2020/00248	CONTAINERS	2/26/2020 1
A2020/00250	CONTAINERS	2/26/2020 1
A2020/00251	CONTAINERS	2/26/2020 1
A2020/00252	CONTAINERS	2/26/2020 1
A2020/00253	CONTAINERS	2/26/2020 1
A2020/00257	CONTAINERS	2/26/2020 1
A2020/00261	CONTAINERS	2/26/2020 1
A2020/00262	CONTAINERS	2/26/2020 1
A2020/00263	CONTAINERS	2/26/2020 1
A2020/00307	CONTAINER	3/5/2020 12
A2020/00321	CISTERN	3/10/2020 1
A2020/00322	CISTERN	3/10/2020 1
A2020/00448	VEHICLE ACCESSORIES	5/4/2020 12
A2020/00473	RAZORS	5/4/2020 12
A2020/00474	RAZOR HANDLES	5/4/2020 12
A2020/00512	BRICK	5/4/2020 12
A2020/00549	AGITATOR	5/7/2020 12
A2020/00551	AGITATOR	5/7/2020 12
A2020/00553	AGITATOR	5/7/2020 12
A2020/00555	AGITATOR	5/7/2020 12
A2020/00557	AEROSOL GENERATING DEVICE	5/8/2020 12
A2020/00558	AEROSOL GENERATING DEVICE	5/8/2020 12
A2020/00571	NOSE TRIMMERS	5/11/2020 1
A2020/00579	Vaginal Ring for Oestrus Synchronization in a Cow	5/12/2020 1
A2020/00582	CASES FOR WATCHES	5/12/2020 1
A2020/00586	Vegetable Spiralizer	5/13/2020 1
A2020/00654	Enclosure	5/25/2020 1
A2020/00676	Flange	5/28/2020 1
A2020/00721	TIRES	6/2/2020 12
A2020/00763	Punnet with Shoulder	6/9/2020 12
A2020/00779	TROLLEY	6/10/2020 1
A2020/00780	TROLLEY	6/10/2020 1
A2020/00791	BLANKS FOR FOLDABLE FACE	6/11/2020 1



Application Number	Design Articles	Filing Date
	MASKS	
A2020/00792	BLANKS FOR FOLDABLE FACE MASKS	6/11/2020 1
A2020/00793	BLANKS FOR FOLDABLE FACE MASKS	6/11/2020 1
A2020/00794	BLANKS FOR FOLDABLE FACE MASKS	6/11/2020 1
A2020/00795	BLANKS FOR FOLDABLE FACE MASKS	6/11/2020 1
A2020/00799	FOLDABLE FACE MASKS	6/11/2020 1
A2020/00801	FOLDABLE FACE MASKS	6/11/2020 1
A2020/00802	FOLDABLE FACE MASKS	6/11/2020 1
A2020/00803	FOLDABLE FACE MASKS	6/11/2020 1
A2020/00804	GAMING MACHINE	6/11/2020 1
A2020/00805	ELECTRICAL PLUG	6/11/2020 1
A2020/00807	GARMENTS	6/11/2020 1
A2020/00809	TUB	6/12/2020 1
A2020/00825	Face Masks	6/15/2020 1
A2020/00827	Face Masks	6/15/2020 1
A2020/00839	TIRES	6/17/2020 1
A2020/00840	TIRES	6/17/2020 1
A2020/00842	Mixing Machine	6/17/2020 1
A2020/00843	Mixing Machine	6/17/2020 1
A2020/00845	FOOTWEAR	6/18/2020 1
A2020/00848	DESKS	6/18/2020 1
A2020/00851	CAR	6/18/2020 1
A2020/00852	SCALE CAR MODEL	6/18/2020 1
A2020/00858	FRONT WALLS FOR FACE SHIELD APPARATUS	6/19/2020 1
A2020/00859	SUPPORT STRUCTURES FOR FACE SHIELD APPARATUS	6/19/2020 1
A2020/00881	Drinking Vessel	6/22/2020 1
A2020/00900	HAND SANITISING DEVICES	6/26/2020 1
A2020/00901	Carrier	6/26/2020 1
A2020/00902	Cooking Arrangement	6/26/2020 1
A2020/00903	Cooking Arrangement	6/26/2020 1
A2020/00906	SET OF SCREEN DISPLAYS	6/29/2020 1
A2020/00908	SET OF SCREEN DISPLAYS	6/29/2020 1
A2020/00909	SCREEN DISPLAY	6/29/2020 1
A2020/00911	SET OF SCREEN DISPLAYS	6/29/2020 1
A2020/00912	SET OF SCREEN DISPLAYS	6/29/2020 1
A2020/00913	SET OF SCREEN DISPLAYS	6/29/2020 1
A2020/00914	SET OF SCREEN DISPLAYS	6/29/2020 1
A2020/00930	TACKLE HOLDERS FOR FISHING RODS	7/2/2020 12
A2020/00932	MOULDS	7/3/2020 12
A2020/00933	MOULDS	7/3/2020 12
A2020/00938	Bottle	7/7/2020 12
A2020/00939	Bottle	7/7/2020 12
A2020/00942	Containers for roll-on deodorant applicators	7/8/2020 12

Application Number	Design Articles	Filing Date
A2020/00943	Containers for roll-on deodorant applicators	7/8/2020 12
A2020/00944	Containers for roll-on deodorant applicators	7/8/2020 12
A2020/00945	Containers for roll-on deodorant applicators	7/8/2020 12
A2020/00946	Aerosol Dispensers	7/8/2020 12
A2020/00947	Caps for roll-on deodorant applicators	7/8/2020 12
A2020/00948	CANS	7/9/2020 12
A2020/00977	ENCLOSURE FOR CAPTURE DEVICES	7/16/2020 1
A2020/00978	ENCLOSURE FOR CAPTURE DEVICES	7/16/2020 1
A2020/00979	HOODED ENCLOSURE FOR CAPTURE DEVICES	7/16/2020 1
A2020/00998	LOGOS	7/17/2020 1
A2020/01001	ELECTRONIC&#160;CIGARETTE	7/17/2020 1
A2020/01101	LIP LINER	8/12/2020 1
A2020/01104	ADJUSTABLE COMPUTER STAND	8/13/2020 1
A2020/01127	CAN ENDS (PART OF -)	8/19/2020 1
A2020/01152	Spray Dispenser for Perfumed Products	8/25/2020 1
A2020/01341	CONTAINER	10/7/2020 1
A2020/01342	CONTAINER	10/7/2020 1
A2020/01346	CUP	10/7/2020 1
A2020/01389	BOTTLE	10/23/2020
A2020/01393	BOTTLE	10/23/2020
A2020/01424	Oven	11/4/2020 1
F2019/01134	ROCK BOLT INSTALLATION TOOL	8/21/2019 1
F2019/01561	A BOX CONTAINER TO BE TRANSPORTED ON A ROOF RACK	10/23/2019
F2019/01617	OVERALL	10/29/2019
F2019/01673	HYDROPONICS PLANTER	11/11/2019
F2019/01855	POWER SOCKET	12/20/2019
F2020/00068	PUMPING BRA	1/21/2020 1
F2020/00239	CONTAINER BLANKS	2/26/2020 1
F2020/00240	CONTAINER BLANKS	2/26/2020 1
F2020/00241	CONTAINER BLANKS	2/26/2020 1
F2020/00246	CONTAINER BLANKS	2/26/2020 1
F2020/00247	CONTAINER BLANKS	2/26/2020 1
F2020/00249	CONTAINER BLANKS	2/26/2020 1
F2020/00254	CONTAINER BLANKS	2/26/2020 1
F2020/00255	CONTAINER BLANKS	2/26/2020 1
F2020/00256	CONTAINER BLANKS	2/26/2020 1
F2020/00258	CONTAINER BLANKS	2/26/2020 1
F2020/00259	CONTAINER BLANKS	2/26/2020 1
F2020/00260	CONTAINER BLANKS	2/26/2020 1
F2020/00306	CONTAINER	3/5/2020 12
F2020/00449	VEHICLE ACCESSORIES	5/4/2020 12
F2020/00504	CONTAINER	5/4/2020 12
F2020/00513	BRICK	5/4/2020 12

Application Number	Design Articles	Filing Date
F2020/00528	Masks	5/5/2020 12
F2020/00550	AGITATOR	5/7/2020 12
F2020/00552	AGITATOR	5/7/2020 12
F2020/00554	AGITATOR	5/7/2020 12
F2020/00556	AGITATOR	5/7/2020 12
F2020/00581	DOOR HANDLES	5/12/2020 1
F2020/00585	FACE SHIELDS	5/12/2020 1
F2020/00597	DUAL CHAMBER CONTAINER	5/15/2020 1
F2020/00598	FACE SHIELDS	5/18/2020 1
F2020/00653	VISOR FRAME	5/25/2020 1
F2020/00656	Chamber Assembly	5/25/2020 1
F2020/00657	Chamber Assembly	5/25/2020 1
F2020/00659	Fastener	5/25/2020 1
F2020/00669	A DESK SCREEN	5/27/2020 1
F2020/00781	VALVES	6/11/2020 1
F2020/00782	WEARABLE SANITISER DISPENSER	6/11/2020 1
F2020/00784	FOLDABLE FACE MASKS	6/11/2020 1
F2020/00785	FOLDABLE FACE MASKS	6/11/2020 1
F2020/00786	BLANKS FOR FOLDABLE FACE MASKS	6/11/2020 1
F2020/00787	BLANKS FOR FOLDABLE FACE MASKS	6/11/2020 1
F2020/00788	BLANKS FOR FOLDABLE FACE MASKS	6/11/2020 1
F2020/00789	BLANKS FOR FOLDABLE FACE MASKS	6/11/2020 1
F2020/00790	BLANKS FOR FOLDABLE FACE MASKS	6/11/2020 1
F2020/00796	FOLDABLE FACE MASKS	6/11/2020 1
F2020/00797	FOLDABLE FACE MASKS	6/11/2020 1
F2020/00798	FOLDABLE FACE MASKS	6/11/2020 1
F2020/00826	Face Masks	6/15/2020 1
F2020/00828	Face Masks	6/15/2020 1
F2020/00847	DESKS	6/18/2020 1
F2020/00860	FRONT WALLS FOR FACE SHIELD APPARATUS	6/19/2020 1
F2020/00861	SUPPORT STRUCTURES FOR FACE SHIELD APPARATUS	6/19/2020 1
F2020/00880	A SHACKLE	6/22/2020 1
F2020/00882	DEVICE FOR A SYRINGE WITH PLUNGER ROD LOCKING FUNCTION AND CONFIGURED FOR PREVENTING INADVERTENT REMOVAL OF A STOPPER FROM THE SYRINGE	6/22/2020 1
F2020/00887	CONTAINER	6/24/2020 1
F2020/00904	Carrier	6/26/2020 1
F2020/00907	SUPPORT BRACKET FOR A ROPE	6/29/2020 1
F2020/00931	TACKLE HOLDERS FOR FISHING RODS	7/2/2020 12
F2020/00935	PATHOGEN CONTAINMENT DEVICE	7/6/2020 12

Application Number	Design Articles	Filing Date
F2020/00940	A DISPLAY ARRANGEMENT	7/8/2020 12
F2020/00960	EXERCISING APPARATUS	7/10/2020 1
F2020/01000	ELECTRONIC&#160;HOOKAH	7/17/2020 1
F2020/01004	DISH DRYING RACK	7/17/2020 1
F2020/01067	TENSIONING DEVICE FOR A ROOF ANCHOR	7/30/2020 1
F2020/01068	ROOF ANCHOR ASSEMBLY	7/30/2020 1
F2020/01086	BOTTLE CAP TURNING DEVICE	8/11/2020 1
F2020/01100	LIP LINER	8/12/2020 1
F2020/01126	PACKAGING OPENERS	8/19/2020 1
F2020/01128	CAN ENDS (PART OF -)	8/19/2020 1
F2020/01131	CLIP	8/19/2020 1
F2020/01135	ELECTRODE CASING SEGMENT	8/21/2020 1
F2020/01136	ELECTRODE CASING ASSEMBLY	8/21/2020 1
F2020/01137	ELECTRODE CASING FIN	8/21/2020 1
F2020/01138	DETONATOR BASE	8/21/2020 1
F2020/01139	DETONATOR COVER	8/21/2020 1
F2020/01143	BATTERY CASING	8/24/2020 1
F2020/01145	INSULATING BOX	8/24/2020 1
F2020/01195	SOOT COLLECTOR	9/3/2020 12
F2020/01196	BURNER HEAD	9/3/2020 12
F2020/01344	CONTAINER	10/7/2020 1
F2020/01345	CONTAINER	10/7/2020 1
F2020/01347	CUP	10/7/2020 1
F2020/01390	BOTTLE	10/23/2020
F2020/01392	BOTTLE	10/23/2020
F2020/01394	BOTTLE	10/23/2020

## OFFICE PRACTISE NOTICES



**NOTICE IN TERMS OF REGULATION 3 (7) OF THE REGULATIONS ON COLLECTING SOCIETIES – COPYRIGHT ACT 98 OF 1978**

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1. Notice is hereby given of the renewal of accreditation of Independent Music Performance Rights Association (IMPRA) by Companies and Intellectual Property Commission (CIPC) to act as a representative Collecting Society for a further period of five (05) years in terms of Section 9A of the Copyright Act, 1978 read with Section 5 (1) of the Performers' Protection Act, 1967.
2. The Regulations on Collecting Societies in Music Industry came into effect on 01 June 2006 with CIPC as Accrediting Authority.
3. The effective date of this notice will be the date of publication in the Government Gazette.

A handwritten signature in black ink, appearing to read 'R. Voller', is positioned above a horizontal line.

**Adv Rory Voller**

**Commissioner: Companies and Intellectual Property Commission (CIPC)**

.....26/4...../2021

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