



**Australian Government**

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**IP Australia**

**AUSTRALIAN OFFICIAL JOURNAL**

**OF**

**PATENTS**



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## *General Information*

*For information on the following please see our website [www.ipaustralia.gov.au](http://www.ipaustralia.gov.au)  
or contact our Customer Service Network on 1300651010*

*Editorial enquiries*

*Contact information*

*Freedom of Information ACT*

*Professional Standards Board*

*Sales*

*Requests for Information under Section 194 (c)*

*Country Codes*

*Trade Mark and Designs Hearing Sessions*

*INID (Internationally agreed Numbers for the Identification of Data)*

## GUIDE TO THE USE OF THIS JOURNAL

The Australian Official Journal of Patents (AOJP) reports all major events and actions which take place during the life cycle of an Australian patent and provides certain details of these actions as they relate to the patent or patent application involved. This guide sets out to teach the reader how to use the journal to access this information.

While there are many possible actions in the life of a patent, the majority of actions reported relate to the following events, which are the main stages in the progression of a patent application to a granted patent:

### (i) FILING -

This is the act of making an application. When the application is first filed certain details are published.

### (ii) OPEN-TO-PUBLIC-INSPECTION (OPI) -

Approximately 18 months after first filing of an Australian or a corresponding foreign application, certain application documents, including the complete specification, become available to the public (Open-to-Public-Inspection or "OPI"). Relevant application details are published.

### (iii) ACCEPTANCE –

This is the Commissioner's acceptance of a patent application. Once the Commissioner has accepted a patent application, certain details of the application are published in the AOJP. Notice of opposition may be filed within three months of advertisement of acceptance.

### (iv) OPPOSITION –

If an opposition action is commenced against the grant of the patent, the application number and the name of the opponent are published. If the opposition is to the Certification of an Innovation Patent, the patent number and the name of the opponent are published.

### (v) GRANTING –

Most accepted applications are not opposed. These proceed to grant and become granted patents. Of the few that are opposed (less than 1%) most of these, after resolution of the opposition, proceed to grant and become granted patents. Granted patents are simply listed in order of their patent number.

### (vi) CERTIFICATION

This is the Commissioner's Certification after passing examination of a previously granted unexamined Innovation Patent.

In addition to the actions related to these stages, other actions reported include: assignments, lapsing or withdrawal of applications and ceasing or expiry of patents, voluntary amendments, extensions of time for certain actions and registration of licences.

## How To Identify Information Using "INID" Numbers

Patents are published in many different countries and in many different languages. As a result, finding the information that you want ( eg the filing date) on a patent document or in a journal can be quite difficult. There is an international system operating, which codifies this information in an unambiguous way, by assigning a specific number to each piece of information about the history of a patent. These numbers are called the **Internationally agreed Numbers for the Identification of Data** or INID numbers.

These numbers appear on all published patents and abstracts and are used throughout this journal to identify particular items of information. For example, the date on which a document is filed has the INID number (22), while the name of the applicant has the INID number of (71). These numbers are always expressed in parentheses and always immediately precede the information to which they relate. For example:

(22) 12.10.91

means that the filing date of the document which contains this reference is 12 October 1991. Learning the INID numbers for the information you want will help you find it quickly and easily. A complete list of the INID numbers and the items to which they relate is provided at the end of this Guide.

## How Australian Patent Documents are Numbered

When searching information or ordering documents it is vital that you understand the numbering system.

Document Numbering in the **Australian Official Journal of Patents from 10th March 2018** All

patents, patent applications and provisional applications are assigned a "10" digit number.

- The first 4 digits identify the year of filing; and
- The fifth digit identifies the type of patent. Numerals; "0", "2", or "3" are allocated to standard complete applications and patents (including petty patents); "1" is allocated to innovation applications and patents; and "9" is allocated to provisional applications.

**See Examples:**

2011236254 and 2000023658 (Standard Complete)

2011158589 (Innovation Complete)

2011902365 (Provisional)

**NOTE:** Please refer to previous journal publications for numbering formats used prior to 10th March 2018.

Different prefixes will be associated to the application/patent at different stages of its life. This prefix indicates whether the application has been accepted.

A document corresponding to an unaccepted application has the prefix, AU-A; eg AU-A-2002200234. A document corresponding to an accepted application carries the prefix AU-B; eg AU-B-2002200234.

Users need to be aware that an accepted document may differ from the corresponding unaccepted document. This is because amendment may occur between first publication (OPI) and second publication (acceptance).

<p><b>NOTE:</b> When ordering any patent document from us, whether accepted or not, please quote the application/patent number preceded by the appropriate prefix.</p>
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## Arrangement of Information in the Journal

For each of the categories

(i) Provisional Applications Filed, (ii)

Complete Applications Filed, (iii)

Applications Open to Public Inspection

(iv) Applications Accepted, and (v)

Innovation Patent Certified.

The Journal lists the information published in that category in an alphabetical Name Index list based on the name of the applicant. These indices are useful if you wish to find information about applications made by a particular applicant.

In addition to the Name Index there is provided, for each of these categories, a Numerical Index This index lists the applications either in order of their Application Numbers, in the case of complete applications filed and applications OPI, or in order of their Document Number in the case of accepted applications. It provides, for each number, the name of the applicant. These indices are useful if you wish to track the progress of a particular patent application.

There are also IPC Indices provided for applications which are OPI and for applications which have been accepted. IPC stands for International Patent Classification. Each IPC "mark" is an alpha-numerical representation of a particular area of technology. These indices are in order of IPC mark, and within each mark provide either the application numbers of the application which are now OPI or the numbers of the cases now accepted. These indices are useful if you wish to check on patent activity in a particular technology.

## Using the Indices To Find Patent Information if You Know the Name of the Applicant.

Use the Name Indices. They will give you the following information identified by their INID number:

<u>ITEM</u>	<u>INID</u> <u>No.</u>	<u>ITEM</u>	<u>INID</u> <u>No.</u>
<b>A) Provisional applications filed - Name Index</b>		<b>B) Complete application filed - Name Index</b>	
The <u>name</u> of the applicant	(71)	The <u>name</u> of the applicant	(71)
The Provisional application <u>number</u>	(21)	The <u>number</u> assigned to the application	(21)
The <u>date</u> of filing	(22)	The <u>date</u> of filing	(22)
The <u>title</u> of the invention	(54)	<u>Title</u> of the invention	(54)
		<u>Number</u> of priority document(s) if any	(31)
		<u>Date(s)</u> of filing of priority documents	(32)
		<u>Country</u> of which priority documents filed	(33)
		PCT application <u>number</u>	(86)

<u>ITEM</u>	<u>INID No.</u>	<u>ITEM</u>	<u>INID</u> <u>No.</u>
<b>C) Applications open to public inspection Name Index</b>		<b>D) Applications accepted - Name Index</b>	
The <u>name</u> of the applicant	(71)	The <u>name</u> of the applicant	(71)
The <u>number</u> of the document	(11)	The <u>number</u> of the document	(11)
The <u>number</u> assigned to the application	(21)	The <u>number</u> of the accepted document	(10)
The <u>date</u> of filing	(22)	The <u>number</u> assigned to the application	(21)
The <u>title</u>	(54)	The <u>date</u> of filing	(22)
The <u>classification marks</u>	(51)	The <u>title</u>	(54)
Priority document <u>number(s)</u>	(31)	The <u>classification marks</u>	(51)
<u>Date</u> of filing of priority document(s)	(32)	PCT publication <u>number</u>	(87)
<u>Country</u> in which priority document filed	(33)	Priority document <u>number</u>	(31)
Publication <u>date</u> of unexamined document	(43)	<u>Date</u> of filing of priority document(s)	(32)
Inventors names if known	(72)	<u>Country</u> in which priority document filed	(33)
<u>Patent Attorneys</u>	(74)	Publication <u>date</u> of unexamined document	(43)

<u>ITEM</u>	<u>INID</u> <u>No.</u>
<b>E) Patents Certified – Name Index</b>	
The <u>name</u> of the applicant	(71)
The <u>number</u> of the accepted document	(10)
The <u>number</u> assigned to the application	(21)
The <u>date</u> of filing	(22)
The <u>title</u>	(54)
The <u>classification marks</u>	(51)
Priority document <u>number</u>	(31)
<u>Date</u> of filing of priority document(s)	(32)
<u>Country</u> in which priority document filed	(33)
Publication <u>date</u> of granted patent	(45)
<u>Inventors names</u>	(72)
<u>Patent Attorneys</u>	(74)
Related by division	(62)

You will notice at each stage of following application through that all applications are in alphabetical order of **Applicant**, not inventor.



### 1. To Find Information About a Patent Application if You Know its Number.

Use the appropriate numerical index. This will give you the name of the applicant from the number. You will then need to use the appropriate Name Index as above to find out other information about the Patent Application you are interested in.

The following Numerical Indices are available:

- A) **Provisional** Applications filed.
- B) **Complete** Applications filed.
- C) Innovation Applications filed.
- D) Applications **Open to Public Inspection**.
- E) Applications **Accepted**.
- F) Innovation Patent Certified

### 3. To Find Information About Patent Documents in the Area of Technology in which You are Interested if You Know the International Patent Classification Mark for that Area.

All patent applications are classified according to their subject matter using the International Patent Classification (IPC). Although the system is very detailed and covers all technologies, knowledge of the IPC marks of the technologies you are interested in will allow you to find patent documents in these technologies quite easily. To identify the IPC marks of technologies you are interested in, you can inspect relevant documentation in any of AIPO's state offices.

The indices to use are

- A) Applications **OPI** - IPC Index
- B) Applications **accepted** - IPC Index.

These indices give you the numbers of the applications which are either OPI or Accepted and are listed in order of their IPC marks.

Once you have the numbers of the documents that interest you, consult the relevant Number Index (see 2. above) to find the applicant's name, and then the Name Index (see 1. above) to find out the details of that application.

## 'INID' NUMBERS in use on Australian Patent Documents

'INID' is an acronym for 'Internationally agreed Numbers for the Identification of Data'.

#### (10) Document identification

- (11) Number of the document
- (12) Plain language designation of the kind of document
- (19) WIPO country code, or other identification, of the country publishing the document.

#### (20) Document filing data

- (21) Number(s) assigned to the application(s).
- (22) Date(s) of filing application(s)
- (23) Other date(s) of filing, including exhibition filing date and date of filing complete specification following provisional specification.
- (24) Date from which industrial property rights may have effect.

#### (30) Priority data

- (31) Number(s) assigned to priority application(s)
- (32) Date(s) of filing priority application(s)
- (33) Country (countries) in which the priority application(s) was (were) filed.

#### (40) Date(s) of making available to the public

- (43) Date of publication by printing or similar process of an unexamined document, on which no grant has taken place on or before the said date.

(43) Date of publication by printing or similar process of an examined document, on which no grant has taken place on or before the said date.

(44) Date of publication by printing or similar process of a document, on which grant, or certification has taken place on or before the said date.

**(50) Technical Information**

(51) International Patent Classification

(52) Domestic or national classification

(54) Title of invention

(56) List of prior art documents, if separate from descriptive text

(57) Abstract or claim

**(60) Reference(s) to other legally related domestic document(s)**

(60) Related by cognate(s).

(61) Related by addition(s).

(62) Related by division(s).

**(70) Identification of parties concerned with the document**

(71) Name(s) of applicant(s)

(72) Name(s) of inventor(s) if known to be such

(74) Name(s) of attorney(s) or agent(s)

(75) Name(s) of inventor(s) who is (are) also applicant(s)

**(80) Identification of data related to International Conventions other than the Paris Convention**

(86) PCT Application Number

(87) PCT Publication Number

**NOTE**

(1) Australian patent documents published on or after 26 October 1978 should be referred to by the application number preceded by the prefix AU-A or AU-B.

**AU-A** = Pre-examination

**AU-B** = Post-examination

(2) The classification used is the International Patent Classification and is identified by the INID code (51). Further editions of the classification are identified as (51)<sub>2</sub>, (51)<sub>3</sub>, (51)<sub>4</sub> and (51)<sub>5</sub>.

(3) INID code 74 provides for the name of the patent attorney, or firm of attorneys, prosecuting an application.

(4) There is a gap in volume numbering of the Australian Official Journal of Patents. The volumes are:

- 1987-2022      Volume 1 - 36
- 2023 -            Volume 57 -

Proceedings under the Patents Act 1990

**Provisional Applications Filed**

**Name Index**

Applications listed below were processed through the Patent Office Canberra during the period ending 14 Mar 2023 .

(71) Adelaide Brighton Cement Limited (21) 2023900675 (22) 13.03.2023 (54) A binder	(71) Brand Developers Limited (21) 2023900691 (22) 14.03.2023 (54) OSCILLATING HEATER MECHANISM	(71) Cripps Clark, J. (21) 2023900667 (22) 12.03.2023 (54) The Algo specification is an extension to the invention for block chain processing for consistent asynchronous, non-linear, localized, state-driven and/or condition-based procedurality in distributed systems (and enabling safer application of AI learning) for distributed information system processing where algorithmic approaches should be produced, systemized and managed in a way to be shared that is as consistent as possible with other shared systemizing structures.
(71) Aegros Ltd (21) 2023900670 (22) 13.03.2023 (54) Single step process for preparation of pure immunoglobulin from plasma	(71) Canva Pty Ltd (21) 2023900703 (22) 15.03.2023 (54) Systems and methods for prompt-based inpainting	
(71) Alchin Long Group IP Pty Limited (21) 2023900701 (22) 15.03.2023 (54) Double hung window	(71) Carbelec Pty Ltd (21) 2023900754 (22) 20.03.2023 (54) ELECTROLYSIS OF CARBON DIOXIDE TO SOLID CARBON USING A MOLTEN CARBONATE-CONTAINING ELECTROLYTE	
(71) Australia River&Stone Culture Development PTY LTD (21) 2023900752 (22) 20.03.2023 (54) coffee grounds cat litter	(71) Carden, B. (21) 2023900666 (22) 11.03.2023 (54) Wearable Liquid Metal Temperature Therapy System and Method	(71) Dunlop, C. (21) 2023900750 (22) 19.03.2023 (54) PROTECTIVE COVER FOR AN ANAESTHETIC BREATHING CIRCUIT
(71) Baraja Pty Ltd (21) 2023900712 (22) 16.03.2023 (54) Spatial estimation system with object state detection	(71) Casburn, D. (21) 2023900748 (22) 17.03.2023 (54) LOTION APPLICATOR	(71) EZRI & BEN (21) 2023900749 (22) 18.03.2023 (54) An ultraviolet and sun blocking, fleece lined, rubber palmed driving and outdoor activity long sleeved glove with variations in fingertip design.
<b>Beuzeville, G. see THE RENEWABLE GROUP PTY. LTD.</b> (21) 2023900757	(71) Certa Therapeutics Pty Ltd (21) 2023900699 (22) 15.03.2023 (54) Inhibitors of Proton Sensing GPCRs	(71) FIXSIBO PTY LTD (21) 2023900714 (22) 16.03.2023 (54) Method and formula for a supplement supporting digestion
(71) Bigmate Group Pty Ltd (21) 2023900702 (22) 15.03.2023 (54) A SYSTEM AND METHOD FOR NON-CONTACT AND NON-INVASIVE VOLUMETRIC TEMPERATURE MEASUREMENTS OF HETEROGENEOUS 3D OBJECTS	(71) Coma, A. (21) 2023900762 (22) 20.03.2023 (54) ZIG ZAG LIVE	(71) FIXSIBO PTY LTD (21) 2023900715 (22) 16.03.2023 (54) Method and formula for a supplement supporting gut microbiota balance
(71) Bio-Protect Australia Pty Ltd (21) 2023900746 (22) 17.03.2023 (54) NANOPARTICLE ANTI-MICROBIAL COMPOSITION	(71) Cost-Bry Pty Ltd (trading as Bio-meBank) (21) 2023900704 (22) 15.03.2023 (54) Microbiota Compositions and Methods for Treating Disorders	(71) FIXSIBO PTY LTD (21) 2023900716 (22) 16.03.2023 (54) Method and formula for a supplement supporting gut health

Provisional Applications Filed - Name Index cont'd

**Fulton Hogan Industries Pty Ltd see Rem-Bind Pty Ltd**  
(21) 2023900726

(71) Future Fuels CRC Ltd  
(21) 2023900742 (22) 17.03.2023  
(54) A process for producing hydrogen

(71) Garvan Institute of Medical Research  
(21) 2023900764 (22) 20.03.2023  
(54) VACCINES AND METHODS OF USE THEREOF

(71) Geddes, L.  
(21) 2023900713 (22) 16.03.2023  
(54) An architectural design ruler

(71) Gold Standard Tick Pty Ltd  
(21) 2023900687 (22) 14.03.2023  
(54) Boxing training apparatus

(71) Gomez, R.  
(21) 2023900664 (22) 11.03.2023  
(54) ADVANCED PROTON ELECTROLYTIC HYDROGEN FUEL CELL

(71) Good Water Energy Ltd  
(21) 2023900697 (22) 15.03.2023  
(54) SEA WATER GEOTHERMAL SY-PHONING PURIFICATION, DESALINATION AND ENERGY SYSTEM

(71) Gulikov, P.  
(21) 2023900711 (22) 16.03.2023  
(54) Computer System and Method Relating to Adult Entertainment

(71) Gunarathna Mudiyansele, P.B.G.  
(21) 2023900737 (22) 17.03.2023  
(54) Building and Construction Device and Method

(71) Harcan Marine Pty Ltd  
(21) 2023900681 (22) 14.03.2023  
(54) A bridge pile encasement deployment system

(71) Hermes and Soteria Pte Ltd  
(21) 2023900692 (22) 14.03.2023  
(54) INFRASTRUCTURE MONITORING SYSTEM

(71) hopkins, t.  
(21) 2023900674 (22) 13.03.2023  
(54) Mechanical Blinds system Auto Glide

(71) Hysata Pty Ltd  
(21) 2023900672 (22) 13.03.2023  
(54) Balance-of-Plant for Electro-Synthetic or Electro-Energy Liquid-Gas Cells or Cell Stacks

(71) Jacobson, S.; JACOBSON INNOVATIONS PTY LTD  
(21) 2023900684 (22) 14.03.2023  
(54) COMBINED ELASTIC ANTERIOR MATRIX AND WEDGE

**JACOBSON INNOVATIONS PTY LTD see Jacobson, S.**  
(21) 2023900684

(71) JACOBSON INNOVATIONS PTY LTD  
(21) 2023900689 (22) 14.03.2023  
(54) COMBINED ELASTIC ANTERIOR MATRIX AND WEDGE

(71) Jafarzadeh, M.  
(21) 2023900695 (22) 15.03.2023  
(54) An auricular light acupuncture therapy system

(71) Johnson Screens, Inc.  
(21) 2023900727 (22) 16.03.2023  
(54) Flow control device

(71) Kemp, M.  
(21) 2023900673 (22) 13.03.2023  
(54) A recyclable surfboard constructed from recycled material

(71) Knorr, A.  
(21) 2023900693 (22) 15.03.2023  
(54) Method of producing timber from log sectors

(71) L. & A. Fazzini Manufacturing Pty Ltd  
(21) 2023900735 (22) 17.03.2023  
(54) AN IMPROVED FIRE RESISTANCE OR FIRE PROOFING MATERIAL

(71) Lam, T.T.  
(21) 2023900669 (22) 13.03.2023  
(54) CIRCULAR ORBIT BASED WAVE ENERGY SYSTEM FOR UTILITY SCALE POWER PLANTS

(71) Land, J.  
(21) 2023900731 (22) 17.03.2023  
(54) Method and apparatus for the controlled deposition of coatings on surfaces

(71) Martin, G.  
(21) 2023900717 (22) 16.03.2023  
(54) A system and method for excavator auger drilling

(71) Mitacom Pty Ltd  
(21) 2023900725 (22) 16.03.2023  
(54) Rope Movement Detector

(71) Moore, R.  
(21) 2023900730 (22) 17.03.2023  
(54) Useful Aesthetic Pendant

(71) Newton, M.  
(21) 2023900627 (22) 08.03.2023  
(54) Improved Sterling Engine

(71) Next-Gen Energy Technology Holding Pty Ltd  
(21) 2023900759 (22) 20.03.2023  
(54) Production of Lithium Nickel Cobalt Aluminate for Lithium Batteries

(71) Nichols, C.  
(21) 2023900677 (22) 13.03.2023  
(54) Aqua Phone line is an emergency telephone used for the purpose of in case of an emergency. The phone is positioned in the area of the swimming pool with a hands free or portable component for easy access during an emergency situation.

(71) niumeitolu, v.  
(21) 2023900734 (22) 17.03.2023  
(54) Hydropower Plant

(71) Nunhems B.V.  
(21) 2023900743 (22) 17.03.2023  
(54) Watermelon Varieties NUN 22102 WMW and NUN 22104 WMW

(71) Nunhems B.V.  
(21) 2023900744 (22) 17.03.2023  
(54) Watermelon Variety NUN 32137 WMW

(71) Oscillation Pty Ltd  
(21) 2023900736 (22) 17.03.2023  
(54) IMPROVED SAMPLING APPARATUS CLEANING

(71) Petrik, G.  
(21) 2023900722 (22) 16.03.2023  
(54) Neurogenic Audiological Tinnitus Treatment

(71) Pham, V.A.D.  
(21) 2023900761 (22) 20.03.2023  
(54) A SYSTEM FOR PERMANENTLY STORING AND CONTROLLING A

Provisional Applications Filed - Name Index cont'd

FILE AND ASSOCIATED METADATA  
ON THE BLOCKCHAIN

(71) Polyline Pipe Systems Ltd  
(21) 2023900705 (22) 15.03.2023  
(54) Jacketing extruder for mobile plastics  
extrusion plant

(71) Polyline Pipe Systems Ltd  
(21) 2023900706 (22) 15.03.2023  
(54) Cooling arrangement for mobile plastics  
extrusion plant

(71) POSITIVE BY DESIGN PTY LTD  
(21) 2023900747 (22) 17.03.2023  
(54) IMPROVED DEVICE CHARGER

(71) Pring, G.  
(21) 2023900683 (22) 14.03.2023  
(54) Improvements in or in relation to internal  
partitions in buildings

(71) PURTON, W.W.  
(21) 2023900682 (22) 14.03.2023  
(54) IMPROVED METHOD AND APPARAT-  
US FOR MAKING BEVERAGES

(71) Rebus Corporation Pty Ltd  
(21) 2023900696 (22) 15.03.2023  
(54) Control system for a device for recov-  
ering energy from a rotating wheel of a  
vehicle and energy recovery system

(71) RemBind Pty Ltd; Fulton Hogan Indus-  
tries Pty Ltd  
(21) 2023900726 (22) 16.03.2023  
(54) PFAS IMMOBILISATION IN ASPHALT

(71) ResMed Pty Ltd  
(21) 2023900733 (22) 17.03.2023  
(54) PATIENT INTERFACE AND CUSHION  
THEREFOR

(71) Roberts NZ Limited  
(21) 2023900709 (22) 16.03.2023  
(54) Anti-Climbing device

(71) Rose, C.  
(21) 2023900719 (22) 16.03.2023  
(54) An ember resistant guttering system

(71) Sakr, O.  
(21) 2023900700 (22) 15.03.2023  
(54) Pet Bed

(71) Scolaro, A.  
(21) 2023900676 (22) 13.03.2023  
(54) A Power Drive

(71) Scolaro, A.  
(21) 2023900729 (22) 16.03.2023  
(54) A Clean Energy Power Drive

(71) Sentek Pty Ltd  
(21) 2023900739 (22) 17.03.2023  
(54) ANALYTE IN SOIL AND OTHER MEDI-  
UM ARRANGEMENT

(71) Site Specific Software Solutions  
(21) 2023900707 (22) 16.03.2023  
(54) A system and method for reshaping ag-  
ricultural field terrain.

(71) Solution Design Group Pty Ltd  
(21) 2023900710 (22) 16.03.2023  
(54) BED FOR MINIMISATION OF USER  
SELF-HARM

(71) SOPHINITY PTY LTD  
(21) 2023900690 (22) 14.03.2023  
(54) TAMPER BAND FOR CLOSURE

(71) Speed, T.  
(21) 2023900668 (22) 13.03.2023  
(54) A storage container for a vehicle

(71) StarLogixs Pty Ltd  
(21) 2023900756 (22) 20.03.2023  
(54) Two Pulse Adaptive Solar Energiser

(71) Stramit Corporation Pty Limited  
(21) 2023900732 (22) 17.03.2023  
(54) CLIP ASSEMBLY FOR CONCEALED  
ATTACHMENT OF A CLADDING  
SHEET TO A SUPPORT

(71) Studco Australia Pty Ltd  
(21) 2023900708 (22) 16.03.2023  
(54) IMPROVED BUILDING STUD FOR  
UTILITY SERVICES

(71) SVW TECHNOLOGIES PTY LTD  
(21) 2023900741 (22) 17.03.2023  
(54) Wool Harvesting

(71) Techgong Mining & Engineering Ser-  
vices Pty Ltd.  
(21) 2023900678 (22) 13.03.2023  
(54) Tool system

(71) The Banktech Group Pty Ltd  
(21) 2023900671 (22) 13.03.2023  
(54) SYSTEMS AND METHODS FOR  
CASHLESS GAMING USING EFTPOS

(71) The Bionics Institute of Australia  
(21) 2023900698 (22) 15.03.2023  
(54) Method and system for neuromodula-  
tion

(71) The Florey Institute of Neuroscience  
and Mental Health  
(21) 2023900723 (22) 16.03.2023  
(54) Stapled peptides

(71) THE RENEWABLE GROUP PTY. LTD.;  
Beuzeville, G.  
(21) 2023900757 (22) 20.03.2023  
(54) UNIVERSAL FENCING SYSTEM IM-  
PROVED

(71) The University of Adelaide  
(21) 2023900718 (22) 16.03.2023  
(54) METHODS AND COMPOSITION FOR  
TREATING METABOLIC DISORDERS  
AND HYPERGLYCAEMIA

(71) The University of Adelaide  
(21) 2023900724 (22) 16.03.2023  
(54) AGENTS AND PROCESSES FOR RE-  
CYCLING BATTERIES

(71) The University of Melbourne  
(21) 2023900694 (22) 15.03.2023  
(54) METHOD OF SYNTHESIS OF  
PARTICLES DISPLAYING INSULAT-  
OR-TO-METAL TRANSITION

(71) The University of Sydney  
(21) 2023900679 (22) 14.03.2023  
(54) Hydrogen production

(71) The University of Sydney  
(21) 2023900680 (22) 14.03.2023  
(54) Production of hydrogen

(71) The University of Sydney  
(21) 2023900686 (22) 14.03.2023  
(54) Methods of processing cellulosic mater-  
ials, composites derived therefrom and  
use thereof

(71) Veneman, R.  
(21) 2023900688 (22) 14.03.2023  
(54) IMPROVED ELECTRIC MOTOR AS-  
SEMBLY

(71) Vertech Group Pty Ltd  
(21) 2023900728 (22) 16.03.2023  
(54) Pressurised enclosed space access  
system

(71) Viortec Pty Ltd  
(21) 2023900720 (22) 16.03.2023  
(54) SURGICAL CLAMP

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(71) Visser, R.  
(21) 2023900738 (22) 17.03.2023  
(54) A fencing post tie wire fastening tool

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(71) Vitruvian Investments Pty Ltd  
(21) 2023900745 (22) 17.03.2023  
(54) FITNESS TRAINING APPARATUS

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(71) Weisshaus Research Pty Ltd  
(21) 2023900721 (22) 16.03.2023  
(54) IMPROVEMENTS FOR THICKNESS  
PLANERS AND OTHER MACHINES

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(71) Welladsen Bros Pty Ltd  
(21) 2023900685 (22) 14.03.2023  
(54) A Method of Preparing an Audio Cable  
Connector

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2023900627	Newton, M.	2023900732	Stramit Corporation Pty Limited
2023900664	Gomez, R.	2023900733	ResMed Pty Ltd
2023900666	Carden, B.	2023900734	niumeitolu, v.
2023900667	Cripps Clark, J.	2023900735	L. & A. Fazzini Manufacturing Pty Ltd
2023900668	Speed, T.	2023900736	Oscillation Pty Ltd
2023900669	Lam, T.T.	2023900737	Gunarathna Mudiyansele, P.B.G.
2023900670	Aegros Ltd	2023900738	Visser, R.
2023900671	The Banktech Group Pty Ltd	2023900739	Sentek Pty Ltd
2023900672	Hysata Pty Ltd	2023900741	SVW TECHNOLOGIES PTY LTD
2023900673	Kemp, M.	2023900742	Future Fuels CRC Ltd
2023900674	hopkins, t.	2023900743	Nunhems B.V.
2023900675	Adelaide Brighton Cement Limited	2023900744	Nunhems B.V.
2023900676	Scolaro, A.	2023900745	Vitruvian Investments Pty Ltd
2023900677	Nichols, C.	2023900746	Bio-Protect Australia Pty Ltd
2023900678	Techgong Mining & Engineering Services Pty Ltd.	2023900747	POSITIVE BY DESIGN PTY LTD
2023900679	The University of Sydney	2023900748	Casburn, D.
2023900680	The University of Sydney	2023900749	EZRI & BEN
2023900681	Harcan Marine Pty Ltd	2023900750	Dunlop, C.
2023900682	PURTON, W.W.	2023900752	Australia River&Stone Culture Development PTY LTD
2023900683	Pring, G.	2023900754	Carbelec Pty Ltd
2023900684	Jacobson, S.; JACOBSON INNOVATIONS PTY LTD	2023900756	StarLogixs Pty Ltd
2023900685	Welladsen Bros Pty Ltd	2023900757	THE RENEWABLE GROUP PTY. LTD.; Beuzeville, G.
2023900686	The University of Sydney	2023900759	Next-Gen Energy Technology Holding Pty Ltd
2023900687	Gold Standard Tick Pty Ltd	2023900761	Pham, V.A.D.
2023900688	Veneman, R.	2023900762	Coma, A.
2023900689	JACOBSON INNOVATIONS PTY LTD	2023900764	Garvan Institute of Medical Research
2023900690	SOPHINITY PTY LTD		
2023900691	Brand Developers Limited		
2023900692	Hermes and Soteria Pte Ltd		
2023900693	Knorr, A.		
2023900694	The University of Melbourne		
2023900695	Jafarzadeh, M.		
2023900696	Rebus Corporation Pty Ltd		
2023900697	Good Water Energy Ltd		
2023900698	The Bionics Institute of Australia		
2023900699	Certa Therapeutics Pty Ltd		
2023900700	Sakr, O.		
2023900701	Alchin Long Group IP Pty Limited		
2023900702	Bigmate Group Pty Ltd		
2023900703	Canva Pty Ltd		
2023900704	Cost-Bry Pty Ltd (trading as BiomeBank)		
2023900705	Polyline Pipe Systems Ltd		
2023900706	Polyline Pipe Systems Ltd		
2023900707	Site Specific Software Solutions		
2023900708	Studco Australia Pty Ltd		
2023900709	Roberts NZ Limited		
2023900710	Solution Design Group Pty Ltd		
2023900711	Gulikov, P.		
2023900712	Baraja Pty Ltd		
2023900713	Geddes, L.		
2023900714	FIXSIBO PTY LTD		
2023900715	FIXSIBO PTY LTD		
2023900716	FIXSIBO PTY LTD		
2023900717	Martin, G.		
2023900718	The University of Adelaide		
2023900719	Rose, C.		
2023900720	Viortec Pty Ltd		
2023900721	Weisshaus Research Pty Ltd		
2023900722	Petrik, G.		
2023900723	The Florey Institute of Neuroscience and Mental Health		
2023900724	The University of Adelaide		
2023900725	Mitacom Pty Ltd		
2023900726	RemBind Pty Ltd; Fulton Hogan Industries Pty Ltd		
2023900727	Johnson Screens, Inc.		
2023900728	Vertech Group Pty Ltd		
2023900729	Scolaro, A.		
2023900730	Moore, R.		
2023900731	Land, J.		

**Complete Applications Filed**

**Name Index**

Applications listed below were processed through the Patent Office Canberra during the period ending 14 Mar 2023 .

- . (\*) Title not in Roman characters
- . (\*\*) Title not given

<hr/> <p>(71) Adobe Inc.                      (21) 2023201151 (22) 27.02.2023                      (54) REAL TIME GENERATIVE AUDIO FOR BRUSH AND CANVAS INTERACTION IN DIGITAL DRAWING                      (31) 17/733,635 (32) 29.04.22 (33) US</p> <hr/> <p>(71) Allegion (New Zealand) Limited                      (21) 2023201133 (22) 24.02.2023                      (54) A Lock</p> <hr/> <p>(71) Amunix Pharmaceuticals, Inc.                      (21) 2023201227 (22) 28.02.2023                      (54) Chimeric polypeptide assembly and methods of making and using the same                      (62) 2016315656</p> <hr/> <p>(71) Ancorra Pty Ltd                      (21) 2023201160 (22) 27.02.2023                      (54) PYROLYTIC CONVERSION OF WASTE MATERIALS</p> <hr/> <p>(71) Apple Inc.                      (21) 2023201189 (22) 28.02.2023                      (54) Multi-user configuration                      (62) 2022203561</p> <hr/> <p>(71) Apple Inc.                      (21) 2023201250 (22) 01.03.2023                      (54) Avatar navigation, library, editing and creation user interface                      (62) 2021202254</p> <hr/> <p>(71) Arcus Biosciences, Inc.                      (21) 2023201288 (22) 02.03.2023                      (54) Modulators of 5' nucleotidase, ecto and the use thereof                      (62) 2017206061</p> <hr/> <p>(71) Arla Foods Amba                      (21) 2023201182 (22) 28.02.2023                      (54) Production of novel beta-lactoglobulin preparations and related methods, uses, and food products                      (62) 2017380258</p> <hr/> <p>(71) Australian Plant Proteins Pty Ltd                      (21) 2023201174 (22) 27.02.2023                      (54) System and method for extracting a protein food product                      (62) 2019339916</p>	<hr/> <p>(71) Avalon HepaPOC Limited                      (21) 2023201158 (22) 27.02.2023                      (54) GALACTOSE ORAL COMPOSITION AND USE THEREOF                      (62) 2018445495</p> <hr/> <p>(71) B. Braun Medical Inc.                      (21) 2023201278 (22) 01.03.2023                      (54) Compounding device, system, kit, software, and method                      (62) 2021200225</p> <hr/> <p>(71) BASF Agro B.V.                      (21) 2023201264 (22) 01.03.2023                      (54) Method for controlling herbicide resistant or tolerant weeds                      (62) 2021200840</p> <hr/> <p>(71) Baxter Corporation Englewood                      (21) 2023201223 (22) 28.02.2023                      (54) MANAGED MEDICAL INFORMATION EXCHANGE                      (62) 2021201053</p> <hr/> <p>(71) Becton, Dickinson and Company                      (21) 2023201284 (22) 02.03.2023                      (54) COVER FOR TISSUE PENETRATING DEVICE WITH INTEGRATED MAGNETS AND MAGNETIC SHIELDING                      (62) 2022200237</p> <hr/> <p>(71) Bellerophon Therapeutics                      (21) 2023201137 (22) 24.02.2023                      (54) Combination drug therapies of PDE-5 inhibitors and inhaled nitric oxide                      (62) 2020209661</p> <hr/> <p>(71) Beth Israel Deaconess Medical Center, Inc.; The Children's Medical Center Corporation                      (21) 2023201193 (22) 28.02.2023                      (54) Therapeutic use of mitochondria and combined mitochondrial agents                      (62) 2017208013</p> <hr/> <p>(71) Bioneer Corporation                      (21) 2023201262 (22) 01.03.2023                      (54) Amphiregulin gene-specific double-stranded oligonucleotide and composition for preventing and treating fibrosis-</p>	<p>related diseases and respiratory diseases, comprising same                      (62) 2019272190</p> <hr/> <p>(71) BioNTech SE                      (21) 2023201185 (22) 28.02.2023                      (54) Preparation and storage of liposomal RNA formulations suitable for therapy                      (62) 2018350846</p> <hr/> <p><b>Biopeptides Corp. see QIAGEN Sciences LLC</b>                      (21) 2023201072</p> <hr/> <p>(71) BISSELL Inc.                      (21) 2023201202 (22) 28.02.2023                      (54) SURFACE CLEANING APPARATUS WITH STEAM DELIVERY                      (31) 63/318,911 (32) 11.03.22 (33) US</p> <hr/> <p>(71) Black &amp; Decker Inc.                      (21) 2023201275 (22) 01.03.2023                      (54) System and tool for wireless retrieval of measured component data                      (62) 2017279715</p> <hr/> <p>(71) Bond University Ltd                      (21) 2023201179 (22) 28.02.2023                      (54) Methods of differentiating retinal cells                      (62) 2016363664</p> <hr/> <p>(71) Boston Scientific Neuromodulation Corporation                      (21) 2023201153 (22) 27.02.2023                      (54) Neuromodulation using stochastically-modulated stimulation parameters                      (62) 2020289746</p> <hr/> <p>(71) Boston Scientific Neuromodulation Corporation                      (21) 2023201208 (22) 28.02.2023                      (54) System for delivering prescribed neuromodulation dose                      (62) 2020218477</p> <hr/> <p>(71) Boston Scientific Neuromodulation Corporation                      (21) 2023201221 (22) 28.02.2023                      (54) Fitting algorithm to determine best stimulation parameter in a spinal cord stimulation system                      (62) 2020219714</p>
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Complete Applications Filed - Name Index cont'd

**Breethe, Inc. see University of Maryland, Baltimore**  
**(21)** 2023201261

**(71)** Brown, T.  
**(21)** 2023201280 **(22)** 01.03.2023  
**(54)** The Demon's Head drinking card game

**(71)** Canva Pty Ltd  
**(21)** 2023201259 **(22)** 01.03.2023  
**(54)** Systems and methods for automatically generating designs

**(71)** CASIO COMPUTER CO., LTD.  
**(21)** 2023201166 **(22)** 27.02.2023  
**(54)** RECORDING APPARATUS, IMAGING APPARATUS, TIME SETTING CONTROL METHOD, AND PROGRAM  
**(31)** 2022-037694 **(32)** 11.03.22 **(33)** JP

**(71)** CATERPILLAR INC.  
**(21)** 2023201272 **(22)** 01.03.2023  
**(54)** CONTROLLING AN IMPLEMENT BASED ON DETERMINING A TARGET POSITION OF THE IMPLEMENT  
**(31)** 17/654,960 **(32)** 15.03.22 **(33)** US

**(71)** CATERPILLAR PAVING PRODUCTS INC.  
**(21)** 2023201274 **(22)** 01.03.2023  
**(54)** ASPHALT COMPACTOR PROPEL DIRECTION INDICATION  
**(31)** 17/696,092 **(32)** 16.03.22 **(33)** US

**(71)** CHAN, E.  
**(21)** 2023201281 **(22)** 02.03.2023  
**(54)** A TEETH ALIGNER SYSTEM  
**(62)** 2017304229

**(71)** China Medical University; China Medical University Hospital; Shine-On Biomedical Co., Ltd.  
**(21)** 2023201146 **(22)** 26.02.2023  
**(54)** PRODUCTION OF EXOSOMES AND USES THEREOF

**China Medical University Hospital see China Medical University**  
**(21)** 2023201146

**(71)** Cold Forged Products No. 1 Pty Limited  
**(21)** 2023201195 **(22)** 28.02.2023  
**(54)** Rail clamp  
**(62)** 2021286308

**(71)** Cold Forged Products No. 1 Pty Limited  
**(21)** 2023201369 **(22)** 28.02.2023  
**(54)** Rail clamp  
**(62)** PCT/AU2022/051366

**(71)** Commonwealth Scientific and Industrial Research Organisation  
**(21)** 2023201165 **(22)** 27.02.2023  
**(54)** Sugar reduced products and method of producing thereof  
**(62)** 2018381338

**(71)** COS IPT Pty Ltd  
**(21)** 2023201192 **(22)** 28.02.2023  
**(54)** Apparatus for storing organic material  
**(62)** 2016345054

**(71)** Cripps Clark, J.  
**(21)** 2023201205 **(22)** 28.02.2023  
**(54)** IntegPlz is an extension to block chain processing (ie for consistent asynchronous, non-linear, localized, state-driven and/or condition-based procedurality in distributed systems (and enabling safer application of AI learning)) for situations where information related to people, assets and activities with commercial / care implications that allows degrees of centralized management of collaborative arrangements including technical processes and contracts and/or info flows.  
**(62)** 2022203235

**(71)** CVRx, Inc.  
**(21)** 2023201215 **(22)** 28.02.2023  
**(54)** External baroreflex activation for assessment and treatment  
**(31)** 63/337,692 **(32)** 03.05.22 **(33)** US

**(71)** Daiichi Sankyo Company, Limited  
**(21)** 2023201159 **(22)** 27.02.2023  
**(54)** Novel cyclic dinucleotide derivative and antibody-drug conjugate thereof  
**(62)** 2019337051

**(71)** Deere & Company  
**(21)** 2023201241 **(22)** 01.03.2023  
**(54)** Spring dampening for accumulator system  
**(31)** 63/319,267 **(32)** 11.03.22 **(33)** US

**(71)** Deere & Company  
**(21)** 2023201282 **(22)** 02.03.2023  
**(54)** Methods, systems, and apparatuses for bulk material meter calibration  
**(31)** 63/362436 **(32)** 04.04.22 **(33)** US  
 17/810066 30.06.22 US

**(71)** Deere & Company; Iowa State University Research Foundation, Inc.  
**(21)** 2023201283 **(22)** 02.03.2023  
**(54)** A crop feed rate control system for a harvester vehicle  
**(31)** 17/711384 **(32)** 01.04.22 **(33)** US

**(71)** Deere & Company; Iowa State University Research Foundation, Inc.  
**(21)** 2023201285 **(22)** 02.03.2023  
**(54)** Sensor fusion system for improved accumulator fill level in a harvester vehicle  
**(31)** 17/711575 **(32)** 01.04.22 **(33)** US

**(71)** Dolby International AB  
**(21)** 2023201183 **(22)** 28.02.2023  
**(54)** Cross Product Enhanced Subband Block Based Harmonic Transposition  
**(62)** 2022201270

**(71)** Dolby International AB  
**(21)** 2023201244 **(22)** 01.03.2023  
**(54)** Video decoder with reduced dynamic range transform with inverse transform shifting memory  
**(62)** 2021203402

**(71)** Donaldson Company, Inc.  
**(21)** 2023201156 **(22)** 27.02.2023  
**(54)** Hydrocarbon fluid-water separation  
**(62)** 2017313120

**(71)** Electrolux Appliances Aktiebolag  
**(21)** 2023201164 **(22)** 27.02.2023  
**(54)** COOKING APPLIANCE FOR COOKING FOOD, COOKING METHOD, CONTROL UNIT, AND COMPUTER PROGRAM PRODUCT  
**(31)** 21213286.4 **(32)** 09.12.21 **(33)** EP  
 22209671.1 25.11.22 EP

**(71)** Evapco, Inc.  
**(21)** 2023201245 **(22)** 01.03.2023  
**(54)** Mini-tube air cooled industrial steam condenser  
**(62)** 2017280058

**(71)** Evolution Oil Tools Inc.  
**(21)** 2023201290 **(22)** 02.03.2023  
**(54)** Dual tubing string adaptor

**(71)** Eximis Surgical Inc.  
**(21)** 2023201204 **(22)** 28.02.2023  
**(54)** Large volume tissue reduction and removal system and method  
**(62)** 2021202563

**(71)** Extreme Banners Pty Ltd  
**(21)** 2023201292 **(22)** 02.03.2023  
**(54)** A Self-Opening Folding Marquee Frame  
**(31)** 2022900517 **(32)** 03.03.22 **(33)** AU

**(71)** Francis, W.  
**(21)** 2023201145 **(22)** 25.02.2023  
**(54)** Aesthetically Pleasing QR code generation algorithm

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(71) Frequency Therapeutics, Inc.  
(21) 2023201216 (22) 28.02.2023  
(54) METHODS FOR CONTROLLED PROLIFERATION OF VESTIBULAR STEM CELLS / GENERATING INNER EAR HAIR CELLS USING WNT AND TGF-BETA INHIBITION  
(62) 2017227846

(71) Gen-Probe Incorporated  
(21) 2023201136 (22) 24.02.2023  
(54) Compositions and methods for detecting C1orf43 nucleic acid  
(62) 2018369872

(71) GILLAN, G.  
(21) 2023201225 (22) 28.02.2023  
(54) TOOL ATTACHMENT FOR SHARPENING AN ELONGATED ROD  
(62) 2017204629

(71) GI Scientific, LLC  
(21) 2023201209 (22) 28.02.2023  
(54) Endoscope accessory with angularly adjustable exit portal  
(62) 2020289889

(71) Google LLC  
(21) 2023201235 (22) 01.03.2023  
(54) QUANTUM CIRCUITS WITH REDUCED T GATE COUNT  
(62) 2021200999

Gundersen Lutheran Medical Foundation, Inc. see QIAGEN Sciences LLC  
(21) 2023201072

(71) HERO HEALTH, INC.  
(21) 2023201240 (22) 01.03.2023  
(54) DISPENSABLE UNIT RETRIEVAL MECHANISM, IDENTIFICATION, AND NETWORKED NOTIFICATION  
(62) 2021258044

(71) Howmedica Osteonics Corp.  
(21) 2023201257 (22) 01.03.2023  
(54) BONE REATTACHMENT SYSTEM  
(31) 63/315,610 (32) 02.03.22 (33) US

(71) Hubbell Incorporated  
(21) 2023201252 (22) 01.03.2023  
(54) Side break air switch with anti-rolling blade lock  
(62) 2021201535

(71) IB Operations Pty Ltd  
(21) 2023201231 (22) 28.02.2023  
(54) Method and apparatus for processing magnetite  
(62) 2021200900

(71) ICM Airport Technics Pty Ltd  
(21) 2023201187 (22) 28.02.2023  
(54) LUGGAGE PROCESSING STATION AND SYSTEM THEREOF  
(62) 2021201398

(71) IGNITION INNOVATION HUB PTY LTD  
(21) 2023201294 (22) 02.03.2023  
(54) SHOE DRYING BOX  
(31) 2022900529 (32) 04.03.22 (33) AU

(71) IGT  
(21) 2023201234 (22) 01.03.2023  
(54) TIPPING IN GAMING ESTABLISHMENT RETAIL PURCHASES  
(31) 17/691,766 (32) 10.03.22 (33) US

(71) Inspire Medical Systems, Inc.  
(21) 2023201220 (22) 28.02.2023  
(54) Power element for an implantable medical device  
(62) 2018208485

Intellia Therapeutics, Inc. see Novartis AG  
(21) 2023201162

Intima Bioscience, Inc. see Regents of the University of Minnesota  
(21) 2023201224

Iowa State University Research Foundation, Inc. see Deere & Company  
(21) 2023201283

Iowa State University Research Foundation, Inc. see Deere & Company  
(21) 2023201285

(71) Janssen Biotech, Inc.  
(21) 2023201217 (22) 28.02.2023  
(54) Safe and effective method of treating ulcerative colitis with anti-IL12/IL23 antibody  
(62) 2019346134

(71) Joy Global Surface Mining Inc  
(21) 2023201190 (22) 28.02.2023  
(54) Air filtration for a mobile mining machine  
(62) 2018203044

(71) Kabushiki Kaisha Toshiba; Toshiba Energy Systems & Solutions Corporation  
(21) 2023201150 (22) 27.02.2023  
(54) Information processing device, information processing method, computer program and information processing system  
(31) 2022-107249 (32) 01.07.22 (33) JP

(71) Kabushiki Kaisha Toshiba  
(21) 2023201239 (22) 01.03.2023  
(54) Electrolysis device and electrolysis method  
(31) 2022-147380 (32) 15.09.22 (33) JP

Khoury, M. see Khoury, H.  
(21) 2023201268

(71) Khoury, H.; Khoury, M.  
(21) 2023201268 (22) 01.03.2023  
(54) Hinge jig  
(31) 2022900486 (32) 01.03.22 (33) AU

(71) Kite Pharma, Inc  
(21) 2023201286 (22) 02.03.2023  
(54) Chimeric antigen receptor therapy T cell expansion kinetics and uses thereof  
(62) 2019314452

(71) Kite Pharma, Inc.  
(21) 2023201197 (22) 28.02.2023  
(54) Chimeric transmembrane proteins and uses thereof  
(62) 2019288733

Komatsu Ltd. see Toyota Jidosha Kabushiki Kaisha  
(21) 2023201199

Komatsu Ltd. see Toyota Jidosha Kabushiki Kaisha  
(21) 2023201201

(71) Lee, W.  
(21) 2023201194 (22) 28.02.2023  
(54) Wall Cladding, Panel and Assembly  
(62) 2023200683

(71) LEIDOS SECURITY DETECTION & AUTOMATION, INC.  
(21) 2023201238 (22) 01.03.2023  
(54) SYSTEMS AND METHODS FOR IMAGE PROCESSING  
(62) 2018272836

(71) Magic Leap, Inc.  
(21) 2023201163 (22) 27.02.2023  
(54) Projector architecture incorporating artifact mitigation  
(62) 2018221742

(71) Magic Leap, Inc.  
(21) 2023201212 (22) 28.02.2023  
(54) Virtual, augmented, and mixed reality systems and methods  
(62) 2022201611

(71) Magic Leap, Inc.  
(21) 2023201266 (22) 01.03.2023

Complete Applications Filed - Name Index cont'd

(54) Eyepiece for virtual, augmented, or mixed reality systems

(62) 2018210527

(71) MAX CO., LTD.

(21) 2023201293 (22) 02.03.2023

(54) BINDING MACHINE

(31) 2022-031360 (32) 02.03.22 (33) JP

(71) MedicalTree Patent Ltd

(21) 2023201242 (22) 01.03.2023

(54) Stimulation of Penis Erection

(62) 2020213411

(71) MESSENGER, O.

(21) 2023201267 (22) 01.03.2023

(54) A Continuous , Easy Access, Compost Generator for the House and Garden.

(31) 2022903737 (32) 07.12.22 (33) AU

(71) MiMedx Group, Inc.

(21) 2023201219 (22) 28.02.2023

(54) Compositions and methods of treatment with amniotic fluid

(62) 2017237093

(71) Minas, L.

(21) 2023201168 (22) 27.02.2023

(54) A Liquid Waste Filtering and Disposal Apparatus

(31) 2022900466 (32) 27.02.22 (33) AU

(71) Mobiltex Data Ltd.

(21) 2023201188 (22) 28.02.2023

(54) MODELS FOR PREDICTING RESISTANCE TRENDS

(31) 3150704 (32) 02.03.22 (33) CA  
17/684,752 02.03.22 US

(71) MONTI-Werkzeuge GmbH

(21) 2023201270 (22) 01.03.2023

(54) Brush assembly

(31) 22 160 267.5 (32) 04.03.22 (33) EP

(71) N.V. Nutricia

(21) 2023201251 (22) 01.03.2023

(54) Product and method for increasing uridine concentration in blood plasma

(62) 2017314713

(71) National Operations Network Pty Ltd

(21) 2023201181 (22) 28.02.2023

(54) Wall plug for cable head

(31) 2022904046 (32) 06.03.22 (33) AU

(71) Naumcevski, S.

(21) 2023201222 (22) 28.02.2023

(54) A hook lift bin with concrete release mechanism

(62) 2021240287

(71) NAVICO HOLDING AS

(21) 2023201175 (22) 28.02.2023

(54) VARIABLE RANGE ESTIMATION FOR A MARINE VESSEL

(31) 17/682,437 (32) 28.02.22 (33) US

(71) Nikko Toys Limited

(21) 2023201152 (22) 27.02.2023

(54) Expandable wheel

(62) 2020464392

(71) Nokia Technologies Oy

(21) 2023201180 (22) 28.02.2023

(54) Systems and method for secure updates of configuration parameters provisioned in user equipment

(62) 2019355197

(71) Nomad Tackle Pty Ltd

(21) 2023201173 (22) 27.02.2023

(54) SQUID LURE FOR FISHING

(31) 2022902937 (32) 07.10.22 (33) AU

(71) Novartis AG; Intellia Therapeutics, Inc.

(21) 2023201162 (22) 27.02.2023

(54) Compositions and methods for immunooncology

(62) 2020230334

(71) Nuritas Limited

(21) 2023201277 (22) 01.03.2023

(54) PEPTIDES FOR USE IN PROMOTING TRANSPORT OF GLUCOSE

(62) 2021202759

(71) OG PONYTAIL

(21) 2023201232 (22) 28.02.2023

(54) Concealable Ponytail Hair Extension

(71) PayPal, Inc.

(21) 2023201184 (22) 28.02.2023

(54) Physical stand for multiple device orientations and peripheral card reader

(62) 2021259182

(71) PayPal, Inc.

(21) 2023201287 (22) 02.03.2023

(54) Interface for constructing smart protocols for execution on blockchain platforms

(31) 17/654,751 (32) 14.03.22 (33) US

(71) Profile Products L.L.C.

(21) 2023201254 (22) 01.03.2023

(54) Bark and wood fiber growing medium

(62) 2018205254

(71) QIAGEN Sciences LLC; Biopeptides Corp.; Gundersen Lutheran Medical Foundation, Inc.

(21) 2023201072 (22) 23.02.2023

(54) Compositions and methods for diagnosing lyme disease and for predicting lyme disease spirochete elimination after treatment

(62) 2016328277

(71) QinetiQ Limited

(21) 2023201255 (22) 01.03.2023

(54) Drive configurations for skid steered vehicles

(62) 2017265390

(71) RD Intellectual Property Holding Pty Ltd

(21) 2023201258 (22) 01.03.2023

(54) A LOCK MECHANISM

(71) Real Time Dynamics Pty Ltd

(21) 2023201200 (22) 28.02.2023

(54) Real Time Environment Control System for a Data Centre

(62) 2018267689

(71) Regeneron Pharmaceuticals, Inc.

(21) 2023201589 (22) 14.03.2023

(54) Anti-VEGF protein compositions and methods for producing the same

(62) 2020398125

(71) Regents of the University of Minnesota; Intima Bioscience, Inc.; The United States of America, as represented by the Secretary Department of Health and Human Services

(21) 2023201224 (22) 28.02.2023

(54) Viral methods of T cell therapy

(62) 2017347854

(71) Safariland, LLC

(21) 2023201167 (22) 27.02.2023

(54) Holster tensioner device

(31) 18/104,901 (32) 02.02.23 (33) US  
63/320,424 16.03.22 US  
63/354,127 21.06.22 US  
63/357,324 30.06.22 US

(71) Samsung Electronics Co., Ltd.

(21) 2023201172 (22) 27.02.2023

(54) Antenna module including dielectric material and electronic device including antenna module

(62) 2019255870

(71) Schneider Electric (Australia) Pty Limited

(21) 2023201260 (22) 01.03.2023

(54) IMPROVEMENTS IN WALL MOUNTED ELECTRICAL OUTLETS AND SWITCH PLATES

(62) 2020200096

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(71) Sealy Technology, LLC  
 (21) 2023201269 (22) 01.03.2023  
 (54) Open coil spring assemblies  
 (62) 2017377031

(71) Seowon University Industry-University  
 Cooperation Foundation  
 (21) 2023201256 (22) 01.03.2023  
 (54) Seal Cap  
 (31) 10-2022-0152704 (32) 15.11.22 (33) KR

(71) Sequenom, Inc.  
 (21) 2023201148 (22) 27.02.2023  
 (54) Methods and processes for non-invas-  
 ive assessment of genetic variations  
 (62) 2020244389

(71) Sharp Kabushiki Kaisha  
 (21) 2023201177 (22) 28.02.2023  
 (54) User equipment (UE)  
 (31) 2022-147150 (32) 15.09.22 (33) JP

(71) Sharp Kabushiki Kaisha  
 (21) 2023201203 (22) 28.02.2023  
 (54) Systems and methods for signaling  
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 (31) 18/084346 (32) 19.12.22 (33) US

(71) Sharp Kabushiki Kaisha  
 (21) 2023201210 (22) 28.02.2023  
 (54) Network controlled repeater (NCR) pro-  
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 (31) 17/985,104 (32) 10.11.22 (33) US

(71) Sharp Kabushiki Kaisha  
 (21) 2023201213 (22) 28.02.2023  
 (54) User equipment and method  
 (31) 2022-209620 (32) 27.12.22 (33) JP

(71) Sharp Kabushiki Kaisha  
 (21) 2023201248 (22) 01.03.2023  
 (54) Network controlled repeater (NCR) pro-  
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 (31) 17/985082 (32) 10.11.22 (33) US

(71) Sharp Kabushiki Kaisha  
 (21) 2023201263 (22) 01.03.2023  
 (54) Terminal apparatus and communication  
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 (31) 2022-205289 (32) 22.12.22 (33) JP

(71) Sharp Kabushiki Kaisha  
 (21) 2023201265 (22) 01.03.2023  
 (54) Communications network and methods  
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 (31) 18/148,121 (32) 29.12.22 (33) US

**Shine-On Biomedical Co., Ltd. see China  
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 (21) 2023201146

(71) Snap-on Incorporated  
 (21) 2023201155 (22) 27.02.2023  
 (54) METHOD AND SYSTEM OF USING  
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 (62) 2021200856

(71) Snap-on Incorporated  
 (21) 2023201161 (22) 27.02.2023  
 (54) STORAGE BIN WITH RETAINING  
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 (62) 2021201943

(71) SOURCE GLOBAL PTY. LTD.  
 (21) 2023201144 (22) 25.02.2023  
 (54) IMPROVED RAINWATER GUTTER  
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(71) Spacecraft Seven, LLC  
 (21) 2023201237 (22) 01.03.2023  
 (54) Gene therapy vectors for treatment of  
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 (62) 2020221842

(71) Strata Safety Products, LLC  
 (21) 2023201157 (22) 27.02.2023  
 (54) Integrated alarm device  
 (62) 2020256319

(71) Stratatech Corporation  
 (21) 2023201176 (22) 28.02.2023  
 (54) TISSUE CONTAINER SYSTEMS  
 (62) 2018211945

(71) STRYKER EUROPEAN OPERATIONS  
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 (21) 2023201253 (22) 01.03.2023  
 (54) SPINAL IMPLANTS  
 (62) 2020273374

(71) Sungrow Energy Storage Technology  
 Co., Ltd.  
 (21) 2023201236 (22) 01.03.2023  
 (54) Household energy storage system with  
 charging pile  
 (31) 202220566846.1 (32) 14.03.22 (33) CN

(71) Synlogic Operating Company, Inc.  
 (21) 2023201271 (22) 01.03.2023  
 (54) Bacteria for the treatment of disorders  
 (62) 2018290278

(71) TAE Technologies, Inc.  
 (21) 2023201218 (22) 28.02.2023

(54) SYSTEMS AND METHODS FOR IM-  
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 (62) 2017355652

(71) Tai, T.K.F.  
 (21) 2023201207 (22) 28.02.2023  
 (54) AN EXPANDABLE FOLDING SYSTEM  
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 TURE and its applications on PHOTO-  
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 (31) 2022900473 (32) 28.02.22 (33) AU

(71) Tempest Therapeutics, Inc.  
 (21) 2023201228 (22) 28.02.2023  
 (54) Bicyclic carboxamides and methods of  
 use thereof  
 (62) 2019255717

(71) Tencent America LLC  
 (21) 2023201230 (22) 28.02.2023  
 (54) Signaling of Coding Tools for Encoding  
 a Video Component as Monochrome  
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 (62) 2020371551

(71) The Boeing Company  
 (21) 2023201134 (22) 24.02.2023  
 (54) Commercial satellite operations with se-  
 cure enclave for payload operations  
 (62) 2018214040

**The Children's Medical Center Corporation  
 see Beth Israel Deaconess Medical Center,  
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 (21) 2023201193

(71) The Coca-Cola Company  
 (21) 2023201273 (22) 01.03.2023  
 (54) System and method to purchase from  
 a vending machine by using a mobile  
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 (62) 2017238515

(71) The Council of the Queensland Institute  
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 (21) 2023201279 (22) 01.03.2023  
 (54) CMV Epitopes  
 (62) 2017271136

**The United States of America, as represen-  
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 (21) 2023201224

(71) Three Peaks Medical Pty Ltd  
 (21) 2023201186 (22) 28.02.2023  
 (54) Adjustable Sheath Device (2)  
 (62) 2019343639

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(71) Tink, R.  
 (21) 2023201226 (22) 28.02.2023  
 (54) WEAR MONITORING SYSTEM  
 FOR LUBRICANT-IMMERSED DISC  
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 (31) 2022900544 (32) 07.03.22 (33) AU  
 2022903687 02.12.22 AU

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(71) Torsch Inc.  
 (21) 2023201249 (22) 01.03.2023  
 (54) METHOD AND APPARATUS FOR  
 COLLECTING DOWNHOLE DEBRIS  
 (31) 63/388,934 (32) 13.07.22 (33) US

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**Toshiba Energy Systems & Solutions Corporation see Kabushiki Kaisha Toshiba**  
 (21) 2023201150

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(71) Toyota Jidosha Kabushiki Kaisha; Komatsu Ltd.  
 (21) 2023201199 (22) 28.02.2023  
 (54) Route calculation device  
 (31) 2022-035234 (32) 08.03.22 (33) JP

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(71) Toyota Jidosha Kabushiki Kaisha; Komatsu Ltd.  
 (21) 2023201201 (22) 28.02.2023  
 (54) Own position calculating device  
 (31) 2022-034336 (32) 07.03.22 (33) JP

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(71) Transportation IP Holdings, LLC  
 (21) 2023201147 (22) 27.02.2023  
 (54) THERMAL MANAGEMENT SYSTEM  
 AND METHOD  
 (31) 63/315,724 (32) 02.03.22 (33) US  
 63/347,082 31.05.22 US  
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(71) Transportation IP Holdings, LLC  
 (21) 2023201171 (22) 27.02.2023  
 (54) Vehicle Component And Method  
 (31) 63/269,321 (32) 14.03.22 (33) US  
 18/172,848 22.02.23 US

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(71) Treemagineers Ltd  
 (21) 2023201149 (22) 27.02.2023  
 (54) Harnesses  
 (62) 2021396591

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(71) Underwood Companies Holdings Pty Ltd  
 (21) 2023201247 (22) 01.03.2023  
 (54) Open Loop Connector  
 (62) 2021307473

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(71) Unicharm Corporation  
 (21) 2023201206 (22) 28.02.2023  
 (54) Method and system for recovering pulp  
 fibers from used absorbent articles  
 (62) 2018360433

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(71) University of Maryland, Baltimore; Breethe, Inc.  
 (21) 2023201261 (22) 01.03.2023  
 (54) Artificial lung system and its methods of  
 use  
 (62) 2020267243

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(71) University of Technology Sydney  
 (21) 2023201214 (22) 28.02.2023  
 (54) Multibeam antenna system and method

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(71) Vacrest Pty Ltd  
 (21) 2023201276 (22) 01.03.2023  
 (54) Composition, Method and System for  
 Stabilising a Rock Mass  
 (31) 2022900580 (32) 10.03.22 (33) AU

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(71) V-DAQ Pty Ltd  
 (21) 2023201233 (22) 28.02.2023  
 (54) Method, system, and device to monitor  
 vehicles

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(71) View, Inc.  
 (21) 2023201196 (22) 28.02.2023  
 (54) Control method for tintable windows  
 (62) 2017376447

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(71) W. L. Gore & Associates, Inc.  
 (21) 2023201243 (22) 01.03.2023  
 (54) Telescoping prosthetic valve with retention  
 element  
 (62) 2020232237

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(71) Wabash National, L.P.  
 (21) 2023201211 (22) 28.02.2023  
 (54) Composite floor structure with embedded  
 hardpoint connector and method of  
 making the same  
 (62) 2018220122

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(71) White, R.  
 (21) 2023201229 (22) 28.02.2023  
 (54) Plate Holder

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(71) Wittman, B.  
 (21) 2023201170 (22) 27.02.2023  
 (54) Golf putter head

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(71) Won Kwang S&T Co., Ltd.  
 (21) 2023201191 (22) 28.02.2023  
 (54) SOLAR PANEL DISASSEMBLING APPARATUS  
 (31) 10-2023-0021546 (32) 17.02.23 (33) KR

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(71) Won Kwang S&T Co., Ltd.  
 (21) 2023201198 (22) 28.02.2023  
 (54) SOLAR MODULE EXTERIOR DISASSEMBLING  
 APPARATUS  
 (31) 10-2023-0021555 (32) 17.02.23 (33) KR

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<b>2023201072</b>	QIAGEN Sciences LLC; Biopeptides Corp.; Gundersen Lutheran Medical Foundation, Inc.	<b>2023201205</b>	Cripps Clark, J.
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<b>2023201134</b>	The Boeing Company	<b>2023201207</b>	Tai, T.K.F.
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<b>2023201137</b>	Bellerophon Therapeutics	<b>2023201209</b>	GI Scientific, LLC
<b>2023201144</b>	SOURCE GLOBAL PTY. LTD.	<b>2023201210</b>	Sharp Kabushiki Kaisha
<b>2023201145</b>	Francis, W.	<b>2023201211</b>	Wabash National, L.P.
<b>2023201146</b>	China Medical University; China Medical University Hospital; Shine-On Biomedical Co., Ltd.	<b>2023201212</b>	Magic Leap, Inc.
<b>2023201147</b>	Transportation IP Holdings, LLC	<b>2023201213</b>	Sharp Kabushiki Kaisha
<b>2023201148</b>	Sequenom, Inc.	<b>2023201214</b>	University of Technology Sydney
<b>2023201149</b>	Treemagineers Ltd	<b>2023201215</b>	CVRx, Inc.
<b>2023201150</b>	Kabushiki Kaisha Toshiba; Toshiba Energy Systems & Solutions Corporation	<b>2023201216</b>	Frequency Therapeutics, Inc.
<b>2023201151</b>	Adobe Inc.	<b>2023201217</b>	Janssen Biotech, Inc.
<b>2023201152</b>	Nikko Toys Limited	<b>2023201218</b>	TAE Technologies, Inc.
<b>2023201153</b>	Boston Scientific Neuromodulation Corporation	<b>2023201219</b>	MiMedx Group, Inc.
<b>2023201155</b>	Snap-on Incorporated	<b>2023201220</b>	Inspire Medical Systems, Inc.
<b>2023201156</b>	Donaldson Company, Inc.	<b>2023201221</b>	Boston Scientific Neuromodulation Corporation
<b>2023201157</b>	Strata Safety Products, LLC	<b>2023201222</b>	Naumcevski, S.
<b>2023201158</b>	Avalon HepaPOC Limited	<b>2023201223</b>	Baxter Corporation Englewood
<b>2023201159</b>	Daiichi Sankyo Company, Limited	<b>2023201224</b>	Regents of the University of Minnesota; Intima Bioscience, Inc.; The United States of America, as represented by the Secretary Department of Health and Human Services
<b>2023201160</b>	Ancorra Pty Ltd	<b>2023201225</b>	GILLAN, G.
<b>2023201161</b>	Snap-on Incorporated	<b>2023201226</b>	Tink, R.
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<b>2023201163</b>	Magic Leap, Inc.	<b>2023201228</b>	Tempest Therapeutics, Inc.
<b>2023201164</b>	Electrolux Appliances Aktiebolag	<b>2023201229</b>	White, R.
<b>2023201165</b>	Commonwealth Scientific and Industrial Research Organisation	<b>2023201230</b>	Tencent America LLC
<b>2023201166</b>	CASIO COMPUTER CO., LTD.	<b>2023201231</b>	IB Operations Pty Ltd
<b>2023201167</b>	Safariland, LLC	<b>2023201232</b>	OG PONYTAIL
<b>2023201168</b>	Minas, L.	<b>2023201233</b>	V-DAQ Pty Ltd
<b>2023201170</b>	Wittman, B.	<b>2023201234</b>	IGT
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<b>2023201174</b>	Australian Plant Proteins Pty Ltd	<b>2023201238</b>	LEIDOS SECURITY DETECTION & AUTOMATION, INC.
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<b>2023201184</b>	PayPal, Inc.	<b>2023201248</b>	Sharp Kabushiki Kaisha
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<b>2023201189</b>	Apple Inc.	<b>2023201253</b>	STRYKER EUROPEAN OPERATIONS HOLDINGS LLC
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<b>2023201192</b>	COS IPT Pty Ltd	<b>2023201256</b>	Seowon University Industry-University Cooperation Foundation
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<b>2023201194</b>	Lee, W.	<b>2023201258</b>	RD Intellectual Property Holding Pty Ltd
<b>2023201195</b>	Cold Forged Products No. 1 Pty Limited	<b>2023201259</b>	Canva Pty Ltd
<b>2023201196</b>	View, Inc.	<b>2023201260</b>	Schneider Electric (Australia) Pty Limited
<b>2023201197</b>	Kite Pharma, Inc.	<b>2023201261</b>	University of Maryland, Baltimore; Breethe, Inc.
<b>2023201198</b>	Won Kwang S&T Co., Ltd.	<b>2023201262</b>	Bioneer Corporation
<b>2023201199</b>	Toyota Jidosha Kabushiki Kaisha; Komatsu Ltd.	<b>2023201263</b>	Sharp Kabushiki Kaisha
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<b>2023201203</b>	Sharp Kabushiki Kaisha	<b>2023201267</b>	MESSENGER, O.
<b>2023201204</b>	Eximis Surgical Inc.		

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2023201268 Khoury, H.; Khoury, M.  
2023201269 Sealy Technology, LLC  
2023201270 MONTI-Werkzeuge GmbH  
2023201271 Synlogic Operating Company, Inc.  
2023201272 CATERPILLAR INC.  
2023201273 The Coca-Cola Company  
2023201274 CATERPILLAR PAVING PRODUCTS INC.  
2023201275 Black & Decker Inc.  
2023201276 Vacrest Pty Ltd  
2023201277 Nuritas Limited  
2023201278 B. Braun Medical Inc.  
2023201279 The Council of the Queensland Institute of Medical Research  
2023201280 Brown, T.  
2023201281 CHAN, E.  
2023201282 Deere & Company  
2023201283 Deere & Company; Iowa State University Research Foundation, Inc.  
2023201284 Becton, Dickinson and Company  
2023201285 Deere & Company; Iowa State University Research Foundation, Inc.  
2023201286 Kite Pharma, Inc  
2023201287 PayPal, Inc.  
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2023201290 Evolution Oil Tools Inc.  
2023201292 Extreme Banners Pty Ltd  
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2023201294 IGNITION INNOVATION HUB PTY LTD  
2023201369 Cold Forged Products No. 1 Pty Limited  
2023201589 Regeneron Pharmaceuticals, Inc.

**Innovation Patent Applications Filed****Name Index**

Applications listed below were processed through the Patent Office Canberra during the period ending 14 Mar 2023 .  
(This list may contain multiple listings of a patent application where there are multiple applicants for that patent.)

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**(71)** Vision Composite Products, LLC  
**(21)** 2023100027      **(22)** 15.03.2023  
**(54)** TWO PIECE WHEEL  
**(62)** 2022100029



**Numerical Index**

**2023100027** Vision Composite Products, LLC

**Applications with amended filing dates Reg 3.5(A).**

2022263493 **MATTHEWS, A.** The filing date has been amended to  
09.02.2023

**Applications Lapsed, Refused Or Withdrawn, Patents Ceased or Expired**

Reference to the application numbers must include the year of the application of the patent, which is shown preceding the numbers.  
The codes next to each number have the following meanings:

**Code Meaning**

- 1 Application Lapsed Section 142(2)(a)
- 3 Application Lapsed Section 142(2)(c)
- 4 Application Lapsed Section 142(2)(d)
- 5 Application Lapsed Section 142(2)(e)
- 6 Application Lapsed Section 142(2)(f)/Reg. 13.5A(2)\Reg. 8.3(3)
- 7 Application Lapsed Reg. 3.2A(3)/Reg. 3.2C
- 8 Application Lapsed Reg. 3.4(6)
- 9 Application Lapsed Section 142(3)
- 11 Application Lapsed Section 148(1)(c)
- 12 Application Withdrawn Section 141(1)
- 13 Application Withdrawn Section 141(2)/Reg 13.1C\Section 141(3)/See Reg 8.3(2)
- 14 Patent Ceased Section 143(a), or Expired
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- 16 Application Refused
- 17 Application Lapsed Reg. 22.2B(2)
- 18 Application Lapsed Reg. 3.2B(3),(5) or (6)
- 20 Patent Ceased Section 143A(b)/Reg. 22.2D(2) or (4)
- 21 Patent Ceased Section 101C(b)/Section 143A(c)/Reg. 9A.4
- 22 Patent Ceased Section 143A(d), or Expired
- 23 Patent Ceased Section 143A(e)
- 24 Application Lapsed Reg. 22.2E(2)
- 25 Application Lapsed Reg. 22.2I(2)
- 26 Application Lapsed Reg. 3.5AC(11)
- 27 Application Lapsed Reg. 3.5AF(2F)
- 28 Application Lapsed Reg. 22.15A(3)
  
- A Applications on which examination has not been requested or directed
- B Applications on which a direction to request examination has been given
- C Applications on which examination has been requested or on which an examination report has been issued
- D Applications which have been accepted or advertised accepted
- E Patents on which an examination has not been requested
- F Patents on which an examination has been requested or report issued
- G Patents Certified
- N Applications not Open to Public Inspection

**2003**

- 2003200906 ( 14 )    2003200917 ( 14 )    2003200958 ( 14 )
- 2003200977 ( 14 )    2003200981 ( 14 )    2003200983 ( 14 )
- 2003201279 ( 14 )    2003201298 ( 14 )    2003201381 ( 14 )
- 2003208184 ( 14 )    2003208185 ( 14 )    2003208235 ( 14 )
- 2003209483 ( 14 )    2003209816 ( 14 )    2003212089 ( 14 )
- 2003212327 ( 14 )    2003212617 ( 14 )    2003213441 ( 14 )
- 2003213763 ( 14 )    2003213780 ( 14 )    2003213819 ( 14 )
- 2003214128 ( 14 )    2003216898 ( 14 )    2003218077 ( 14 )
- 2003218720 ( 14 )    2003218722 ( 14 )    2003218738 ( 14 )
- 2003219045 ( 14 )    2003219162 ( 14 )    2003220111 ( 14 )
- 2003220248 ( 14 )    2003220295 ( 14 )    2003221215 ( 14 )
- 2003221378 ( 14 )    2003224656 ( 14 )    2003224672 ( 14 )
- 2003224675 ( 14 )    2003225811 ( 14 )    2003226489 ( 14 )
- 2003227061 ( 14 )    2003227820 ( 14 )    2003231967 ( 14 )
- 2003244557 ( 14 )    2003244558 ( 14 )    2003256044 ( 14 )
- 2003257259 ( 14 )    2003258861 ( 14 )    2003261071 ( 14 )
- 2003263092 ( 14 )    2003271582 ( 14 )    2003298445 ( 14 )

**2004**

- 2004208680 ( 14 )    2004208684 ( 14 )    2004208738 ( 14 )
- 2004270538 ( 14 )    2004272005 ( 14 )    2004322947 ( 14 )
- 2004323089 ( 14 )

**2005**

- 2005205779 ( 14 )    2005205794 ( 14 )    2005279292 ( 14 )
- 2005279293 ( 14 )    2005279712 ( 14 )    2005280737 ( 14 )
- 2005282368 ( 14 )    2005282384 ( 14 )    2005282437 ( 14 )
- 2005282475 ( 14 )    2005282732 ( 14 )    2005294679 ( 14 )
- 2005297017 ( 14 )

**2006**

- 2006203686 ( 14 )    2006207887 ( 14 )    2006252029 ( 14 )
- 2006286306 ( 14 )    2006287603 ( 14 )    2006289048 ( 14 )
- 2006290814 ( 14 )    2006294125 ( 14 )

**2007**

- 2007214379 ( 14 )    2007216654 ( 14 )    2007292155 ( 14 )
- 2007292221 ( 14 )    2007292903 ( 14 )    2007293274 ( 14 )
- 2007293868 ( 14 )    2007338601 ( 14 )    2007358520 ( 14 )

**2008**

- 2008203279 ( 14 )    2008249229 ( 14 )    2008294388 ( 14 )
- 2008294417 ( 14 )    2008296209 ( 14 )    2008296841 ( 14 )
- 2008297052 ( 14 )    2008299144 ( 14 )    2008299993 ( 14 )
- 2008300185 ( 14 )

**2009**

- 2009200769 ( 14 )    2009212918 ( 14 )    2009212947 ( 14 )
- 2009212980 ( 14 )    2009212983 ( 14 )    2009213017 ( 14 )
- 2009288027 ( 14 )    2009288037 ( 14 )    2009289280 ( 14 )
- 2009289737 ( 14 )    2009290965 ( 14 )

**2010**

- 2010202171 ( 14 )    2010219290 ( 14 )    2010289506 ( 14 )
- 2010290423 ( 14 )    2010290424 ( 14 )    2010291040 ( 14 )
- 2010291056 ( 14 )    2010291108 ( 14 )    2010291208 ( 14 )
- 2010291560 ( 14 )    2010293436 ( 14 )    2010294123 ( 14 )
- 2010297616 ( 14 )

**2011**

- 2011213864 ( 14 )    2011218765 ( 14 )    2011221343 ( 14 )
- 2011298226 ( 14 )    2011298833 ( 14 )    2011299601 ( 14 )
- 2011300359 ( 14 )    2011303103 ( 14 )    2011303104 ( 14 )
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**2012**

- 2012203737 ( 14 )    2012216265 ( 14 )    2012216726 ( 14 )
- 2012300585 ( 14 )    2012304387 ( 14 )    2012304641 ( 14 )
- 2012304689 ( 14 )    2012305209 ( 14 )    2012305852 ( 14 )
- 2012307090 ( 14 )    2012314943 ( 14 )    2012317171 ( 14 )
- 2012333098 ( 14 )    2012333101 ( 14 )    2012344547 ( 14 )

**2013**

- 2013202770 ( 14 )    2013204065 ( 14 )    2013222050 ( 14 )
- 2013224654 ( 14 )    2013224667 ( 14 )    2013224669 ( 14 )
- 2013224702 ( 14 )    2013254947 ( 14 )    2013267050 ( 14 )
- 2013311463 ( 14 )    2013313720 ( 14 )    2013319845 ( 14 )
- 2013324514 ( 14 )    2013330419 ( 14 )    2013386647 ( 14 )
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**2014**

- 2014203365 ( 14 )    2014221209 ( 14 )    2014314079 ( 14 )
- 2014315142 ( 14 )    2014315280 ( 14 )    2014315356 ( 14 )
- 2014315359 ( 14 )    2014317208 ( 14 )    2014326318 ( 14 )
- 2014327604 ( 14 )    2014339527 ( 14 )    2014405666 ( 14 )

**2015**

- 2015100292 ( 22 )    2015100299 ( 22 )    2015101870 ( 22 )
- 2015101983 ( 22E )    2015221567 ( 14 )    2015221571 ( 14 )
- 2015221576 ( 14 )    2015249073 ( 14 )    2015310545 ( 14 )
- 2015311751 ( 14 )    2015314413 ( 14 )

**2016**

2016101568 ( 22G ) 2016101570 ( 22E ) 2016200698 ( 14 )  
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**2017**

2017101212 ( 22E ) 2017101223 ( 22E ) 2017101224 ( 22E )  
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 2017259048 ( 13D ) 2017261317 ( 5C ) 2017271136 ( 5C )  
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 2017430487 ( 4C ) 2017430791 ( 4C )

**2018**

2018202686 ( 5C ) 2018220024 ( 14 ) 2018223061 ( 4A )  
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**2019**

2019101003 ( 22E ) 2019101004 ( 22E ) 2019101024 ( 22E )  
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 2019395403 ( 5C ) 2019397104 ( 5C )

**2020**

2020102068 ( 22E ) 2020102069 ( 22E ) 2020102070 ( 22E )  
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 2020205121 ( 5C ) 2020221842 ( 5C ) 2020230334 ( 5C )  
 2020277194 ( 4C ) 2020289825 ( 5C ) 2020289874 ( 5C )  
 2020294168 ( 5C ) 2020294179 ( 5C ) 2020294182 ( 5C )

**2021**

2021200051 ( 4C ) 2021200307 ( 5C ) 2021200490 ( 5C )  
 2021200631 ( 5C ) 2021200880 ( 5C ) 2021200900 ( 5C )  
 2021200967 ( 5C ) 2021201053 ( 5C ) 2021201234 ( 5C )  
 2021201510 ( 5C ) 2021201564 ( 5C ) 2021201994 ( 5C )  
 2021202087 ( 5C ) 2021202237 ( 5C ) 2021202499 ( 5C )  
 2021202500 ( 5C ) 2021203286 ( 4C ) 2021203531 ( 5C )  
 2021203930 ( 5C ) 2021229224 ( 25D )

**2022**

2022200254 ( 5CN ) 2022275529 ( 1B ) 2022279368 ( 1B )  
 2022900664 ( 12AN ) 2022900712 ( 12AN ) 2022900740 ( 12AN )  
 2022900923 ( 12AN )

**2023**

2023900684 ( 12AN )

**Assignments before Grant, Section 113**

**2017**

2017261216 Phasebio Pharmaceuticals, Inc. The application has been assigned to **IMMUNOFORCE CO., LTD.**

2017361526 Before Brands, Inc. The application has been assigned to **Société des Produits Nestlé S.A.**

2017387033 PhaseBio Pharmaceuticals, Inc. The application has been assigned to **Ji Xing Pharmaceuticals Hong Kong Limited**

**2018**

2018302153 Before Brands, Inc. The application has been assigned to **Société des Produits Nestlé S.A.**

2018308191 Stichting Het Nederlands Kanker Instituut-Antoni Van Leeuwenhoek Ziekenhuis; Academisch Ziekenhuis Leiden H.O.D.N. LUMC The application has been assigned to **Scenic immunology B.V.**

2018361822 Aircraft Medical Limited The application has been assigned to **Covidien AG**

2018366386 Aircraft Medical Limited The application has been assigned to **Covidien AG**

2018395956 Kollinger, Michael The application has been assigned to **United Bracing Systems Inc.**

**2019**

2019205330 Iconic Therapeutics, Inc. The application has been assigned to **Iconic Therapeutics LLC**

2019261083 Takeda Pharmaceutical Company Limited; Kyoto University The application has been assigned to **Orizuru Therapeutics, Inc.**

2019270181 The Board of Trustees of The Leland Stanford Junior University; Chan Zuckerberg Biohub, Inc. The application has been assigned to **CZ Biohub SF, LLC; The Board of Trustees of The Leland Stanford Junior University**

2019343003 Kyoto University; Takeda Pharmaceutical Company Limited The application has been assigned to **Orizuru Therapeutics, Inc.**

2019350480 Atos Medical AB The application has been assigned to **Coloplast A/S**

2019391600 Keech Castings Australia Pty Limited The application has been assigned to **Derwent Industries Pty Ltd**

2019446046 Dacanay Ventures, Inc. The application has been assigned to **Dacanay, Rhodel**

2019448466 Datum Biotech Ltd. The application has been assigned to **Datum Dental Ltd.**

**Assignments before Grant, Section 113**

**2020**

2020204692 Kaydence Pharma AS The application has been assigned to **Nattopharma AS**

2020212023 Keeeb Inc. The application has been assigned to **MEDULLAR SOLUTIONS INC.**

2020213085 Before Brands, Inc. The application has been assigned to **Société des Produits Nestlé S.A.**

2020218361 Hyper Ice, Inc. The application has been assigned to **HYPERICE IP SUBCO, LLC**

2020220214 Nanjing Normal University The application has been assigned to **Shenzhen Jikang Pharmaceutical Technology Co., LTD.**

2020223508 Atos Medical AB The application has been assigned to **Coloplast A/S**

2020233397 Greiner, Mark; Reed, Cynthia; Saha, Sanjib; Nishimura, Darryl; University of Iowa Research Foundation; Ibrahim, Youssef; Salem, Aliasger; Skeie, Jessica; Abdelrahman, Somaya; Schmidt, Gregory; Aldrich, Benjamin The application has been assigned to **University of Iowa Research Foundation**

2020234467 Kaydence Pharma AS The application has been assigned to **Nattopharma AS**

2020236308 Kaydence Pharma AS The application has been assigned to **Nattopharma AS**

2020275917 Centre National de la Recherche Scientifique; Universite D'Aix Marseille; Gem Innov The application has been assigned to **Gem Innov**

2020287260 Atos Medical AB The application has been assigned to **Coloplast A/S**

2020297034 Datum Biotech Ltd. The application has been assigned to **Datum Dental Ltd.**

2020299398 Zymeworks BC Inc.; Iconic Therapeutics, Inc. The application has been assigned to **Zymeworks BC Inc.; Iconic Therapeutics LLC**

2020333543 X Development LLC The application has been assigned to **Mineral Earth Sciences LLC**

**2021**

2021229233 Phasebio Pharmaceuticals, Inc. The application has been assigned to **IMMUNOFORCE CO., LTD.**

2021229984 Shanghai Fo Ze Medical Technology Co., Ltd The application has been assigned to **Shiya Pharmaceutical, Inc**

2021233385 Nourish Ingredients Pty Ltd; Commonwealth Scientific and Industrial Research Organisation The application has been assigned to **Nourish Ingredients Pty Ltd**

**Assignments before Grant, Section 113**

2021238358 The Regents of the University of California; Chan Zuckerberg Biohub, Inc. The application has been assigned to **CZ Biohub SF, LLC; The Regents of the University of California**

2021258031 Corplex Plastics UK Ltd. The application has been assigned to **LB Europe Limited**

2021258210 University of Arkansas Technology Ventures The application has been assigned to **Board of Trustees of the University Of Arkansas**

2021275137 Stella Diagnostics, Inc. The application has been assigned to **Prophase Labs, Inc.**

2021279207 Swinburne University of Technology The application has been assigned to **mDetect Pty Ltd**

2021304359 Iconic Therapeutics, Inc. The application has been assigned to **Iconic Therapeutics LLC**

2021305676 Nelson Jr., G. The application has been assigned to **Tandem Building Products LLC**

2021314400 Inspirar Limited The application has been assigned to **Frontera Therapeutics, Inc.**

2021320511 Ewha University-Industry Collaboration Foundation; Cellionbiomed Inc. The application has been assigned to **Cellionbiomed Inc.**

2021327375 Plexixikon Inc. The application has been assigned to **Opna Bio SA**

2021337567 Dein, Richard; Schoville, Fredrick The application has been assigned to **Surgical Safety Scanner, Inc.**

2021903160 Commonwealth Scientific and Industrial Research Organisation; Nourish Ingredients Pty Ltd The application has been assigned to **Nourish Ingredients Pty Ltd**

**2022**

2022903229 FELLROCK DEVELOPMENTS LIMITED The application has been assigned to **TTT PRODUCTS ADVANCED LIMITED**

2022903237 FELLROCK DEVELOPMENTS LIMITED The application has been assigned to **TTT PRODUCTS ADVANCED LIMITED**

2022903349 FELLROCK DEVELOPMENTS LIMITED The application has been assigned to **TTT PRODUCTS ADVANCED LIMITED**

2022903387 FELLROCK DEVELOPMENTS LIMITED The application has been assigned to **TTT PRODUCTS ADVANCED LIMITED**

2022903815 Nourish Ingredients Pty Ltd; Commonwealth Scientific and Industrial Research Organisation The application has been assigned to **Nourish Ingredients Pty Ltd**

**Extensions of Time, Section 223****Applications Received**

Notice of opposition under Section 223(6) to the undermentioned application(s) for an extension of time may be lodged at the Patent Office within the prescribed time.

**2013**

2013274574 **Tenex Health, Inc.** An application to extend the time from 10 Jun 2022 to 10 Feb 2023 in which to pay a renewal fee has been filed . Address for service - Pizzeys Patent and Trade Mark Attorneys Pty Ltd GPO Box 1374 Brisbane QLD 4001 AU

**2014**

2014281389 **F.F. Seeley Nominees Pty Ltd.** An application to extend the time from 19 Jun 2022 to 19 Jan 2023 in which to pay a renewal fee has been filed . Address for service - WRAYS PTY LTD L7 863 Hay St Perth WA 6000 AU

**2017**

2017100647 **Convergence Event Systems Pty Ltd** An application to extend the time from 02 Jun 2022 to 02 Mar 2023 in which to pay a renewal fee has been filed . Address for service - Griffith Hack Level 10 161 Collins St MELBOURNE VIC 3000 AU

**Applications Allowed - Section 223(2)****2012**

2012253880 **H & M Innovations, LLC** The time in which to pay a renewal fee has been extended to 04 Jan 2023 . Address for service - Griffith Hack Level 15, 376-390 Collins Street Melbourne VIC 3000 AU

**2013**

2013262439 **T. Callaway and Associates Pty Ltd** The time in which to pay a renewal fee has been extended to 17 Dec 2022 . Address for service - Patentec Patent Attorneys L11, 65 York Street Sydney NSW 2000 AU

2013273918 **Maxquip Pty Ltd** The time in which to pay a renewal fee has been extended to 05 Jan 2023 . Address for service - Armour IP Pty Ltd PO Box 3099 Broadway Nedlands WA 6009 AU

**2017**

2017212156 **B-Temia Inc.** The time in which to pay a continuation fee has been extended to 25 Oct 2022 . Address for service - Origin Patent and Trade Mark Attorneys P O Box 106775 Auckland 1143 NZ

2017212157 **B-Temia Inc.** The time in which to pay a continuation fee has been extended to 25 Oct 2022 . Address for service - Origin Patent and Trade Mark Attorneys P O Box 106775 Auckland 1143 NZ

2017217864 **Smart Medical Devices, Inc.** The time in which to gain acceptance has been extended to 20 Apr 2023 . Address for service - Phillips Ormonde Fitzpatrick PO Box 323 COLLINS STREET WEST VIC 8007 AU

2017395793 **B-Temia Inc.** The time in which to pay a continuation fee has been extended to 25 Oct 2022 . Address for service - Origin Patent and Trade Mark Attorneys P O Box 106775 Auckland 1143 NZ

**Extensions of Time, Section 223**

**2018**

2018425856 **Taiyuan University of Technology** The time in which to pay the acceptance fee has been extended to 23 Dec 2022 . Address for service - Griffith Hack Level 15, 376-390 Collins Street Melbourne VIC 3000 AU

**2019**

2019202002 **Eaton Intelligent Power Limited** The time in which to request examination has been extended to 04 Apr 2023 . Address for service - Maxwells Patent & Trade Mark Attorneys Pty Ltd PO Box R1466 Royal Exchange SYDNEY NSW 1225 AU

2019240749 **AirboardX Pty Ltd** The time in which to request examination has been extended to 04 Apr 2023 . Address for service - Chrysiliou IP Unit 1 Level 2 15 Rodborough Road Frenchs Forest NSW 2086 AU

2019409901 **BOTANECO INC.** The time in which to enter the National Phase has been extended to 21 Nov 2022 . Address for service - FB Rice Pty Ltd Level 23, 44 Market Street Sydney NSW 2000 AU

2019419414 **ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI** The time in which to enter the National Phase has been extended to 30 Sep 2022 . Address for service - PHILLIPS ORMONDE FITZPATRICK PO Box 323 COLLINS STREET WEST VIC 8007 AU

**2020**

2020203702 **Qualcomm Incorporated** The time in which to pay a renewal fee has been extended to 18 Nov 2022 . Address for service - Madderns Pty Ltd GPO Box 2752 Adelaide SA 5001 AU

**2021**

2021276921 **LIN, Chih-Hsueh; CHAN, Ya-Ching** The time in which to enter the National Phase has been extended to 20 Jan 2023 . Address for service - PHILLIPS ORMONDE FITZPATRICK PO Box 323 COLLINS STREET WEST VIC 8007 AU

**2022**

2022263493 **MATTHEWS, A.** The time in which to comply with a direction under Reg 3.2A has been extended to 21 Mar 2023 . Address for service - ALLAN MATTHEWS 181 Bryants Rd Loganholme QLD 4129 AU

**Amendments**

**Applications for Amendment**

A person interested in opposing the allowance of amendments under Section 104 may at any time within two months from the date of this journal give notice at the Patent Office using the approved form accompanied by the prescribed fee.

A person who wishes to be heard in relation to a proposed Rectification of the Register must file a request to be heard within two months from the date of this journal.

**2016**

2016271607 Cell-controlled perfusion in continuous culture **Boehringer Ingelheim International GmbH** The nature of the amendment is as shown in the statement(s) filed 15 Feb 2023 . Address

**Amendments**

for service - Spruson & Ferguson GPO Box 3898 Sydney NSW 2001 AU

**2017**

2017296040 Compositions and methods for treating pulmonary hypertension **Acceleron Pharma Inc.** The nature of the amendment is as shown in the statement(s) filed 24 Feb 2023 . Address for service - Spruson & Ferguson GPO Box 3898 Sydney NSW 2001 AU

2017373639 Use of peptide compounds for promoting survival, growth and cell differentiation **AXOLTIS PHARMA** The nature of the amendment is as shown in the statement(s) filed 03 Mar 2023 . Address for service - Davies Collison Cave Pty Ltd Level 15 1 Nicholson Street MELBOURNE VIC 3000 AU

**2018**

2018203044 Air filtration for a mobile mining machine **Joy Global Surface Mining Inc** The nature of the amendment is as shown in the statement(s) filed 24 Feb 2023 . Address for service - Griffith Hack Level 10 161 Collins St MELBOURNE VIC 3000 AU

**2019**

2019210133 Systems and methods for detecting neurological conditions **NovaSignal Corp.** The nature of the amendment is as shown in the statement(s) filed 10 Feb 2023 . Address for service - RnB IP Pty Ltd PO Box 9530 Deakin ACT 2600 AU

2019212478 Chemokine receptor modulators and uses thereof **RAPT Therapeutics, Inc.** The nature of the amendment is as shown in the statement(s) filed 09 Mar 2023 . Address for service - Pizzey's Patent and Trade Mark Attorneys Pty Ltd GPO Box 1374 Brisbane QLD 4001 AU

2019247936 Novel GLP-1 analogues **Sun Pharmaceutical Industries Limited** The nature of the amendment is as shown in the statement(s) filed 07 Mar 2023 . Address for service - Phillips Ormonde Fitzpatrick Level 16 333 Collins Street Melbourne VIC 3000 AU

2019346903 Strain for preventing and treating metabolic diseases and use thereof **SPH SINE Pharmaceutical Laboratories Co., Ltd ; Shanghai Institute of Endocrine and Metabolic Diseases** The nature of the amendment is as shown in the statement(s) filed 10 Mar 2023 . Address for service - FB Rice Pty Ltd L 33 477 Collins Street Melbourne VIC 3000 AU

**2020**

2020104490 Method and device for analyzing plants **SpexAI GmbH** The nature of the amendment is as shown in the statement(s) filed 10 Mar 2023 . Address for service - FPA Patent Attorneys Pty Ltd ANZ Tower 161 Castlereagh Street Sydney NSW 2000 AU

2020277094 Path Planning **Commonwealth Scientific and Industrial Research Organisation** The nature of the amendment is as shown in the statement(s) filed 09 Mar 2023 . Address for service - Davies Collison Cave Pty Ltd Level 10 301 Coronation Drive MILTON QLD 4064 AU

**2021**

2021200894 Multi-device charging user interface **Apple Inc.** The nature of the amendment is as shown in the statement(s) filed 27 Feb

**Amendments**

2023 . Address for service - FPA Patent Attorneys Pty Ltd ANZ Tower  
161 Castlereagh Street Sydney NSW 2000 AU

2021388872 Photodynamic therapy and diagnosis **RMW CHO Group Limited** The nature of the amendment is as shown in the statement(s) filed 08 Mar 2023 . Address for service - Spruson & Ferguson GPO Box 3898 Sydney NSW 2001 AU

**Amendments Made**

**2012**

2012326370 **Celator Pharmaceuticals, Inc.** The nature of the amendment is as shown in the statement(s) filed 18 Nov 2022 and 6 December 2022

**2016**

2016292896 **H. Lundbeck A/S** The nature of the amendment is as was notified in the Supplement to the Official Journal dated 22 Dec 2022

**2017**

2017261363 **MURTHY, S.; GIRALDO, E.; GOEL, R.; WETT, B.; D.C Water & Sewer Authority** The nature of the amendment is: Add co-applicant names as Sudhir N. MURTHY; Eugenio GIRALDO; Ramesh GOEL and Bernhard WETT

2017292900 **Commonwealth Scientific and Industrial Research Organisation** The nature of the amendment is as shown in the statement filed 11 Nov 2022

**2018**

2018201733 **ESCO Group LLC** The nature of the amendment is as shown in the statements filed 15 Apr 2021 and 20 May 2021

2018239353 **Magic Leap, Inc.** The nature of the amendment is as shown in the statement filed 16 Dec 2022

2018307726 **TGX Soft Chew, LLC** The nature of the amendment is as shown in the statement filed 16 Dec 2022

2018401518 **GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.** The nature of the amendment is as shown in the statement filed 05 Dec 2022

**2019**

2019201633 **Neumann Steel Pty Ltd** The nature of the amendment is: Application is to proceed under the number 2019101841

2019221691 **illumina, Inc.; illumina Singapore Pte. Ltd.** The nature of the amendment is as was notified in the Supplement to the Official Journal dated 05 Jan 2023

2019280049 **Regeneron Pharmaceuticals, Inc.** The nature of the amendment is as shown in the statement filed 16 Dec 2022

2019303419 **LG Electronics Inc.** The nature of the amendment is as shown in the statement filed 30 Nov 2022

**Amendments**

2019402151 **Novartis AG** The nature of the amendment is as was notified in the Supplement to the Official Journal dated 12 Jan 2023

**2020**

2020201409 **Rearden, LLC** The nature of the amendment is as shown in the statement filed 17 Nov 2022

2020266010 **Creo Medical Limited** The nature of the amendment is: Amend the name of the inventor to read HANCOCK, Christopher; PRESTON, Shaun; ULLRICH, George and WEBB, David

2020317303 **NEC Corporation** The nature of the amendment is: Amend the invention title to read INFORMATION PROCESSING DEVICE, DATA GENERATION METHOD, AND PROGRAM

2020322810 **Jiangyin Xingcheng Special Steel Works Co., Ltd** The nature of the amendment is: Amend the invention title to read A WEAR-RESISTANT STEEL WITH EXCELLENT SURFACE QUALITY AND A PRODUCTION METHOD

2020324253 **ZTE Corporation** The nature of the amendment is: Amend the invention title to read RESOURCE INDICATION METHOD, RESOURCE INDICATION APPARATUS, DATA RECEIVING METHOD, AND DATA RECEIVING APPARATUS

2020901962 **Monash University** The nature of the amendment is as was notified in the Supplement to the Official Journal dated 12 Jan 2023

**2021**

2021202594 **Chugai Seiyaku Kabushiki Kaisha** The nature of the amendment is as shown in the statement filed 22 Dec 2022

2021218773 **Zhong Jing Wei Shi (Suzhou) Optical Technology Ltd; Nthalmic Holding Pty Ltd** The nature of the amendment is: Add co-applicant name as Zhong Jing Wei Shi (Suzhou) Optical Technology Ltd

2021221540 **SOLETECH LIMITED** The nature of the amendment is: Amend the name of the inventor to read SOLE, David John; FULTON, Georgia Elizabeth; WILLIAMS, Michael Bryan and RIDDLE, Garth David

2021267402 **Genmab A/S** The nature of the amendment is: Amend the name of the inventor to read AHMADI, Tahamtan; GUPTA, Manish; LI, Tommy R.; OLIVERI, Roberto; DEMARCO, Dena; HIEMSTRA, Ida; CHIU, Christopher; ELLIOTT, Brian and AZARYAN, Ada

2021307313 **Hydrogen Source AS** The nature of the amendment is as shown in the statement filed 09 Feb 2023

2021312637 **Noniashvili, A.** The nature of the amendment is: Amend the invention title to read DEVICE FOR UNLOADING OF PACKAGE CONTENTS

2021315800 **Global Bamboo Technologies Inc.** The nature of the amendment is: Amend the applicant name to read Global Bamboo Technologies Inc.

**Amendments**

2021316674 **Les Laboratoires Servier; Novartis AG** The nature of the amendment is: Add the name co-inventor Cooper, Michael Robert

2021318155 **Alley, J.; Whitaker, J.; Gomes, G.** The nature of the amendment is: Amend the name of the inventor to read WHITAKER, James and GOMES, Gary G.

2021323868 **Huawei Technologies Co., Ltd.** The nature of the amendment is: Amend the invention title to read CRITICAL BSS PARAMETER MANAGEMENT METHOD APPLICABLE TO MULTIPLE LINK AND RELATED APPARATUS

2021327342 **Nippon Steel Corporation; Vallourec Oil and Gas France** The nature of the amendment is: Amend the invention title to read Oil-Well Metal Pipe, and Method for Producing Oil-Well Metal Pipe

2021328555 **Depco, Inc.** The nature of the amendment is: Amend the name of the inventor to read MINUTO, M. Gregory and MLCOCH, Stephen

2021329841 **Huawei Technologies Co., Ltd.** The nature of the amendment is: Amend the invention title to read METHOD FOR INDICATING UPLINK PARAMETER OF PDU AND RELATED APPARATUS

2021333061 **Celltrion Inc.** The nature of the amendment is: Amend the invention title to read Stable Pharmaceutical Formulation, Vial, Cartidge, Pre-Filled Syringe and Auto-Injector Comprising the Same

2021336888 **The General Hospital Corporation** The nature of the amendment is: Amend the name of the inventor to read CASALES SANDOVAL, Juan Pedro and EVANS, Conor L.

**2022**

2022202745 **LINEAGE LOGISTICS, LLC** The nature of the amendment is as shown in the statement filed 23 Dec 2022

**Alteration of Name(s) of Applicant(s)/Patentee(s)**

**2005**

2005277510 Nature Technology Corp. The name of the patentee has been altered to **Aldevron, L.L.C.**

**2006**

2006204817 Cephalon, Inc. The name of the patentee has been altered to **Cephalon LLC**

**2007**

2007200077 Morpho The name of the patentee has been altered to **IDEMIA Identity & Security France**

2007222279 Morpho The name of the patentee has been altered to **IDEMIA Identity & Security France**

**2008**

2008218968 Merck Sharp & Dohme Corp. The name of the patentee has been altered to **Merck Sharp & Dohme LLC**

**Amendments**

**2009**

2009288419 Merck Sharp & Dohme Corp. The name of the patentee has been altered to **Merck Sharp & Dohme LLC**

2009296526 First Light Biosciences, Inc. The name of the patentee has been altered to **FIRST LIGHT DIAGNOSTICS, INC.**

2009296662 First Light Biosciences, Inc. The name of the patentee has been altered to **FIRST LIGHT DIAGNOSTICS, INC.**

2009296734 Cephalon, Inc. The name of the patentee has been altered to **Cephalon LLC**

2009302493 Cephalon, Inc. The name of the patentee has been altered to **Cephalon LLC**

**2010**

2010267876 MORPHO The name of the patentee has been altered to **IDEMIA Identity & Security France**

2010326801 Morpho The name of the patentee has been altered to **IDEMIA Identity & Security France**

**2011**

2011254473 MORPHO The name of the patentee has been altered to **IDEMIA Identity & Security France**

2011327986 MORPHO The name of the patentee has been altered to **IDEMIA Identity & Security France**

2011335020 Morpho The name of the patentee has been altered to **IDEMIA Identity & Security France**

**2012**

2012240647 Advanced Material Engineering Pte Ltd The name of the patentee has been altered to **ST Engineering Advanced Material Engineering Pte. Ltd.**

**2013**

2013269822 Morpho The name of the patentee has been altered to **IDEMIA Identity & Security France**

2013359767 Merck Sharp & Dohme Corp. The name of the patentee has been altered to **Merck Sharp & Dohme LLC**

**2014**

2014208246 MORPHO The name of the patentee has been altered to **IDEMIA Identity & Security France**

**2015**

2015200505 Morpho The name of the patentee has been altered to **IDEMIA Identity & Security France**

2015207940 Cephalon, Inc. The name of the patentee has been altered to **Cephalon LLC**



**Amendments**

2015243006 First Light Biosciences, Inc. The name of the patentee has been altered to **FIRST LIGHT DIAGNOSTICS, INC.**

**2016**

2016203246 Cephalon, Inc. The name of the patentee has been altered to **Cephalon LLC**

2016243800 Advanced Material Engineering Pte Ltd The name of the patentee has been altered to **ST Engineering Advanced Material Engineering Pte. Ltd.**

**2017**

2017298699 Dongguan Prestige Sporting Products Co., Ltd. The name of the patentee has been altered to **Guangdong Prestige Technology Company Limited**

2017298700 Dongguan Prestige Sporting Products Co., Ltd. The name of the patentee has been altered to **Guangdong Prestige Technology Company Limited**

**2018**

2018220014 Blueprint Lab Pty Ltd The name of the applicant has been altered to **Reach Robotics Pty Ltd**

**2019**

2019204365 StraxCorp Pty. Ltd The name of the patentee has been altered to **CURVEBEAM AI LIMITED**

2019204372 StraxCorp Pty. Ltd The name of the patentee has been altered to **CURVEBEAM AI LIMITED**

2019204376 StraxCorp Pty. Ltd The name of the patentee has been altered to **CURVEBEAM AI LIMITED**

2019204380 StraxCorp Pty. Ltd The name of the patentee has been altered to **CURVEBEAM AI LIMITED**

2019222723 Bluestar Genomics, Inc. The name of the applicant has been altered to **ClearNote Health, Inc.**

2019236394 Ph Kleven AS The name of the applicant has been altered to **Kongsberg Beam Technology AS**

2019288835 Bluestar Genomics, Inc. The name of the applicant has been altered to **ClearNote Health, Inc.**

2019343931 Bluestar Genomics, Inc. The name of the applicant has been altered to **ClearNote Health, Inc.**

2019354789 Bluestar Genomics, Inc. The name of the applicant has been altered to **ClearNote Health, Inc.**

**2020**

2020223750 StraxCorp Pty. Ltd The name of the patentee has been altered to **CURVEBEAM AI LIMITED**

2020258381 MycoMed Technologies LLC The name of the applicant has been altered to **Pearl Diagnostics, Inc.**

**Amendments**

2020274205 Enovix Corporation The name of the applicant has been altered to **ENOVIX CORPORATION**

**2021**

2021201834 The Climate Corporation The name of the applicant has been altered to **CLIMATE LLC**

2021233462 Hitachi Metals, Ltd. The name of the applicant has been altered to **Proterial, Ltd.**

2021236468 StraxCorp Pty. Ltd The name of the applicant has been altered to **CURVEBEAM AI LIMITED**

2021318155 Alley, Jack; Whitaker, James; Gomes, Gary The name of the applicant has been altered to **Alley, J.; Whitaker, J.; Gomes, G.**

2021320219 Dicerna Pharmaceuticals Inc. The name of the applicant has been altered to **DICERNA PHARMACEUTICALS, INC.**

2021321430 Dicerna Pharmaceuticals Inc. The name of the applicant has been altered to **DICERNA PHARMACEUTICALS, INC.**

**2022**

2022204142 StraxCorp Pty. Ltd The name of the patentee has been altered to **CURVEBEAM AI LIMITED**

2022221522 StraxCorp Pty. Ltd The name of the applicant has been altered to **CURVEBEAM AI LIMITED**

2022287623 Budge, David James The name of the applicant has been altered to **GoldTec IP Pty Ltd**

2022900791 Blueprint Lab Pty Ltd The name of the applicant has been altered to **Reach Robotics Pty Ltd**

**Notice of Intention to Amend under Section 105 pursuant to the Federal Court Rules**

Australian Patent/Patent Application 2018275541 in the name(s) of Dignity Health

Applications Open to Public Inspection

Name Index

- . (\*) Title not in Roman characters
- . (\*\*) Title not given

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(71) Ag Growth International Inc.  
 (11) AU-A-2022231659  
 (21) 2022231659 (22) 12.09.2022  
 (54) Extendable and Retractable Conveyor  
 (51) Int. Cl.  
*B65G 17/00* ( 2006.01 )  
*A01D 57/20* ( 2006.01 )  
*B65G 15/00* ( 2006.01 )  
*B65G 15/28* ( 2006.01 )  
 (31) 63/242,606 (32) 10.09.21 (33) US  
 (43) 30.03.2023  
 (72) Johnson, Zack; Camm, Tyler; Carruthers, Brandon  
 (74) Clark Intellectual Property Pty Ltd

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Al-Dabbagh, A. see Khalil, G.  
 (21) 2021236549

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(71) Alexza Pharmaceuticals, Inc.  
 (11) AU-A-2023201108  
 (21) 2023201108 (22) 24.02.2023  
 (54) USE OF ANTISTATIC MATERIALS IN THE AIRWAY FOR THERMAL AEROSOL CONDENSATION PROCESS  
 (51) Int. Cl.  
*A61M 11/04* ( 2006.01 )  
*A61K 9/12* ( 2006.01 )  
*A61M 15/02* ( 2006.01 )  
 (43) 30.03.2023  
 (62) 2021201111  
 (72) Myers, Daniel J.; Kubel, Khe; Cassella, James  
 (74) Davies Collison Cave Pty Ltd

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(71) Amgen Inc.  
 (11) AU-A-2023201127  
 (21) 2023201127 (22) 24.02.2023  
 (54) Mammalian cell culture  
 (51) Int. Cl.  
*C12N 5/00* ( 2006.01 )  
*C07K 16/00* ( 2006.01 )  
*C12N 5/10* ( 2006.01 )  
*C12P 21/00* ( 2006.01 )  
 (43) 30.03.2023  
 (62) 2020281075  
 (72) Follstad, Brian D.; McCoy, Rebecca E.; Morris, Arvia E.  
 (74) FPA Patent Attorneys Pty Ltd

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(71) Apple Inc.  
 (11) AU-A-2023201115  
 (21) 2023201115 (22) 24.02.2023  
 (54) User interfaces for stored-value accounts  
 (51) Int. Cl.  
*G06Q 20/36* ( 2012.01 )  
*G06Q 40/04* ( 2012.01 )

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(43) 30.03.2023  
 (62) 2021201276  
 (72) Van Os, Marcel; Ahn, Charles; Anton, Peter D.; Alabi, Oluwatomiwa B.; Pitschel, Donald W.; Dicker, George R.; Steele, Glen W.; Ruangchan, Danvin; Tickner, Simon; Webster, Shawn T.  
 (74) FPA Patent Attorneys Pty Ltd

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(71) Apple Inc.  
 (11) AU-A-2023201119  
 (21) 2023201119 (22) 24.02.2023  
 (54) Sample adaptive offset control  
 (51) Int. Cl.  
*H04N 19/186* ( 2014.01 )  
*H04N 19/44* ( 2014.01 )  
*H04N 19/463* ( 2014.01 )  
*H04N 19/70* ( 2014.01 )  
*H04N 19/82* ( 2014.01 )  
*H04N 19/86* ( 2014.01 )  
 (43) 30.03.2023  
 (62) 2021204661  
 (72) Tourapis, Alexandros  
 (74) FPA Patent Attorneys Pty Ltd

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(71) Apple Inc.  
 (11) AU-A-2023201123  
 (21) 2023201123 (22) 24.02.2023  
 (54) Physiological monitoring system for measuring oxygen saturation  
 (51) Int. Cl.  
*A61B 5/1455* ( 2006.01 )  
*A61B 5/00* ( 2006.01 )  
 (43) 30.03.2023  
 (62) 2020352919  
 (72) Venugopal, Vivek; Block, Ueyn L.; Land, Brian R.; Mannheimer, Paul D.; Cerussi, Albert E.  
 (74) FPA Patent Attorneys Pty Ltd

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(71) Aristocrat Technologies, Inc.  
 (11) AU-A-2022231738  
 (21) 2022231738 (22) 15.09.2022  
 (54) SYSTEMS AND METHODS FOR DISPLAYING A FREE SPIN COUNT-UP AND SUBSEQUENT COUNT-DOWN  
 (51) Int. Cl.  
*G07F 17/34* ( 2006.01 )  
*A63F 9/24* ( 2006.01 )  
*A63F 13/85* ( 2014.01 )  
 (31) 17/710,295 (32) 31.03.22 (33) US  
 63/244,369 15.09.21 US  
 (43) 30.03.2023  
 (72) MARSH, David; MARSTON, Daniel  
 (74) Griffith Hack

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(71) Bellerophon Therapeutics  
 (11) AU-A-2023201137  
 (21) 2023201137 (22) 24.02.2023

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(54) Combination drug therapies of PDE-5 inhibitors and inhaled nitric oxide  
 (51) Int. Cl.  
*A61M 16/20* ( 2006.01 )  
 (43) 30.03.2023  
 (62) 2020209661  
 (72) SHAH, Parag; FERNANDES, Peter Paul; KIM, Bobae  
 (74) Spruson & Ferguson

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(71) Benchmark Animal Health Ltd.  
 (11) AU-A-2022291431  
 (21) 2022291431 (22) 19.12.2022  
 (54) TREATMENT OF CANINE ATOPIC DERMATITIS  
 (51) Int. Cl.  
*A61K 39/12* ( 2006.01 )  
*A61K 39/35* ( 2006.01 )  
*C07K 14/005* ( 2006.01 )  
*C07K 14/08* ( 2006.01 )  
*C07K 16/24* ( 2006.01 )  
 (43) 30.03.2023  
 (62) 2017256727  
 (72) Tars, Kaspars  
 (74) PHILLIPS ORMONDE FITZPATRICK

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Biopeptides Corp. see QIAGEN Sciences LLC  
 (21) 2023201072

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(71) Body Vision Medical Ltd.  
 (11) AU-A-2023201097  
 (21) 2023201097 (22) 24.02.2023  
 (54) SURGICAL DEVICES AND METHODS OF USE THEREOF  
 (51) Int. Cl.  
*A61B 5/06* ( 2006.01 )  
*A61B 6/02* ( 2006.01 )  
 (43) 30.03.2023  
 (62) 2020204064  
 (72) Averbuch, Dorian  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

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(71) Borg Manufacturing Pty Limited  
 (11) AU-A-2023201462  
 (21) 2023201462 (22) 08.03.2023  
 (54) A JOINING STRIP AND A PANEL ASSEMBLY EMPLOYING THE JOINING STRIP  
 (51) Int. Cl.  
*E04B 1/61* ( 2006.01 )  
*E04B 1/48* ( 2006.01 )  
*E04B 2/08* ( 2006.01 )  
*E04F 13/076* ( 2006.01 )  
*E04F 19/06* ( 2006.01 )

Applications Open to Public Inspection - Name Index cont'd

(43) 30.03.2023  
 (62) 2016216548  
 (72) Bloch, Guido  
 (74) Maxwells Patent & Trade Mark Attorneys Pty Ltd

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(71) Boston Scientific Neuromodulation Corporation  
 (11) AU-A-2023201153  
 (21) 2023201153 (22) 27.02.2023  
 (54) Neuromodulation using stochastically-modulated stimulation parameters  
 (51) Int. Cl.  
**A61N 1/36** ( 2006.01 )  
 (43) 30.03.2023  
 (62) 2020289746  
 (72) ZHU, Changfang  
 (74) Spruson & Ferguson

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(71) C.M.T. Utensili S.p.A.  
 (11) AU-A-2022231673  
 (21) 2022231673 (22) 13.09.2022  
 (54) CIRCULAR SAW BLADE  
 (51) Int. Cl.  
**B27B 33/08** ( 2006.01 )  
**A47J 43/07** ( 2006.01 )  
 (31) 102021000023654 (32) 14.09.21 (33) IT  
 (43) 30.03.2023  
 (72) Pozzo, Piergiorgio  
 (74) PHILLIPS ORMONDE FITZPATRICK

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(71) Canon Kabushiki Kaisha  
 (11) AU-A-2021232739  
 (21) 2021232739 (22) 15.09.2021  
 (54) System and method for encoding and decoding data  
 (51) Int. Cl.  
**G06N 3/02** ( 2006.01 )  
**G06N 20/00** ( 2019.01 )  
**H04N 19/46** ( 2014.01 )  
 (43) 30.03.2023  
 (72) Gan, Jonathan  
 (74) Spruson & Ferguson

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(71) CareFusion 303, Inc.  
 (11) AU-A-2022231685  
 (21) 2022231685 (22) 13.09.2022  
 (54) Dual channel infusion pump for continuous infusion  
 (51) Int. Cl.  
**A61M 5/142** ( 2006.01 )  
 (31) 63/244,170 (32) 14.09.21 (33) US  
 (43) 30.03.2023  
 (72) MENG, Fanqing; CARROLL, Derek Alan; KIMM, Daniel I.; WEIMER, Marc William  
 (74) FB Rice Pty Ltd

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(71) Caterpillar Global Mining Equipment LLC  
 (11) AU-A-2022224805  
 (21) 2022224805 (22) 01.09.2022  
 (54) SYSTEM AND METHOD FOR AUTOMATIC TILTING OF OPERATOR CABIN  
 (51) Int. Cl.

**E02F 9/16** ( 2006.01 )  
**B66F 17/00** ( 2006.01 )  
 (31) 17/474,184 (32) 14.09.21 (33) US  
 (43) 30.03.2023  
 (72) SELVAM, Sudhagar; MATHIVANAN, Saravanan  
 (74) FPA Patent Attorneys Pty Ltd

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(71) Cementech Pty Ltd  
 (11) AU-A-2022231661  
 (21) 2022231661 (22) 12.09.2022  
 (54) A SEAWALL STRUCTURAL WALL SYSTEM AND CORRESPONDING METHOD OF CONSTRUCTION  
 (51) Int. Cl.  
**E02B 3/06** ( 2006.01 )  
**E02B 3/14** ( 2006.01 )  
**E02D 29/02** ( 2006.01 )  
**E04B 2/00** ( 2006.01 )  
 (31) 2021902936 (32) 10.09.21 (33) AU  
 (43) 30.03.2023  
 (72) Rafidi, Iyad  
 (74) Adams Pluck

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(71) CFPH, LLC  
 (11) AU-A-2023200700  
 (21) 2023200700 (22) 09.02.2023  
 (54) GAME AT CASH REGISTER  
 (51) Int. Cl.  
**A63F 9/24** ( 2006.01 )  
 (43) 30.03.2023  
 (62) 2021201528  
 (72) Lutnick, Howard W.; Gelman, Geoffrey M.  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

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**Chalhoub, M. see Chalhoub, A.**  
 (21) 2021232706

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(71) Chalhoub, A.; Chalhoub, M.  
 (11) AU-A-2021232706  
 (21) 2021232706 (22) 14.09.2021  
 (54) IMPROVED PACKAGE SYSTEM AND METHOD  
 (51) Int. Cl.  
**B65D 5/12** ( 2006.01 )  
**B65D 5/20** ( 2006.01 )  
**B65D 5/36** ( 2006.01 )  
**B65D 21/02** ( 2006.01 )  
**B65D 77/04** ( 2006.01 )  
**B65D 5/64** ( 2006.01 )  
 (43) 30.03.2023  
 (72) Chalhoub, Anis; Chalhoub, Mary  
 (74) Patentable

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(71) CHAO, S.  
 (11) AU-A-2021229235  
 (21) 2021229235 (22) 10.09.2021  
 (54) System and method for recording attendance of a caregiver  
 (51) Int. Cl.  
**G06Q 10/10** ( 2012.01 )  
**G06Q 50/22** ( 2018.01 )  
**G07C 9/38** ( 2020.01 )  
**H04W 4/02** ( 2018.01 )

**H04L 67/12** ( 2022.01 )  
**H04W 4/029** ( 2018.01 )  
 (43) 30.03.2023  
 (72) CHAO, Shih-Chang  
 (74) FB Rice Pty Ltd

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(71) ColdQuanta, Inc.  
 (11) AU-A-2022218477  
 (21) 2022218477 (22) 15.08.2022  
 (54) Coherent oscillatory matterwave resonator system  
 (51) Int. Cl.  
**H01S 3/08** ( 2006.01 )  
 (31) 17/687,643 (32) 06.03.22 (33) US  
 63/243,336 13.09.21 US  
 63/297,785 09.01.22 US  
 63/297,853 10.01.22 US  
 (43) 30.03.2023  
 (72) Anderson, Dana Zachary  
 (74) Griffith Hack

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(71) Commonwealth Scientific and Industrial Research Organisation  
 (11) AU-A-2023201165  
 (21) 2023201165 (22) 27.02.2023  
 (54) Sugar reduced products and method of producing thereof  
 (51) Int. Cl.  
**A23L 2/02** ( 2006.01 )  
**A23L 2/84** ( 2006.01 )  
**A23L 33/135** ( 2016.01 )  
 (43) 30.03.2023  
 (62) 2018381338  
 (72) AUGUSTIN, Mary Ann; SHIFERAW TEREFE, Netsanet; HLAING, Mya Myintzu  
 (74) FB Rice Pty Ltd

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(71) Concert Pharmaceuticals, Inc.  
 (11) AU-A-2023201112  
 (21) 2023201112 (22) 24.02.2023  
 (54) Treatment of hair loss disorders with deuterated JAK inhibitors  
 (51) Int. Cl.  
**A61K 31/437** ( 2006.01 )  
**A61K 31/00** ( 2006.01 )  
**A61K 31/519** ( 2006.01 )  
 (43) 30.03.2023  
 (62) 2017261286  
 (72) WAGNER, Amanda T.; CASSELLA, James V.; GRAHAM, Philip B.; BRAMAN, Virginia; UTTAMSINGH, Vinita; VON HEHN, Jana; HAMILTON, Colleen E.  
 (74) Spruson & Ferguson

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(71) Corbin Clinical Resources, LLC  
 (11) AU-A-2023200954  
 (21) 2023200954 (22) 17.02.2023  
 (54) Apparatus, systems, and methods for planning and performing guided and free-handed transperineal prostate biopsies  
 (51) Int. Cl.  
**A61B 10/02** ( 2006.01 )  
**A61B 17/34** ( 2006.01 )

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- (43) 30.03.2023  
(62) 2020264404  
(72) ALLAWAY, Matthew J.  
(74) Spruson & Ferguson
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- (71) Creo Medical Limited  
(11) AU-A-2023201138  
(21) 2023201138 (22) 24.02.2023  
(54) Electrosurgical instrument  
(51) Int. Cl.  
*A61B 18/18* ( 2006.01 )  
(43) 30.03.2023  
(62) 2018241269  
(72) Hancock, Christopher Paul; Ebbutt, Julian Mark; Turner, Louis; Meadowcroft, Simon  
(74) FPA Patent Attorneys Pty Ltd
- 
- (71) Cripps Clark, J.  
(11) AU-A-2023201205  
(21) 2023201205 (22) 28.02.2023  
(54) IntegPlz is an extension to block chain processing (ie for consistent asynchronous, non-linear, localized, state-driven and/or condition-based procedurality in distributed systems (and enabling safer application of AI learning)) for situations where information related to people, assets and activities with commercial / care implications that allows degrees of centralized management of collaborative arrangements including technical processes and contracts and/or info flows.  
(51) Int. Cl.  
*G16Y 30/10* ( 2020.01 )  
*G06Q 10/10* ( 2023.01 )  
*H04W 12/06* ( 2021.01 )  
*G06F 11/30* ( 2006.01 )  
*G06F 21/50* ( 2013.01 )  
*H04L 43/10* ( 2022.01 )  
*H04L 67/12* ( 2022.01 )  
(43) 30.03.2023  
(62) 2022203235  
(72) Cripps Clark, Julianne  
(74) Julianne Mary Cripps Clark
- 
- (71) Daiichi Sankyo Company, Limited  
(11) AU-A-2023201159  
(21) 2023201159 (22) 27.02.2023  
(54) Novel cyclic dinucleotide derivative and antibody-drug conjugate thereof  
(51) Int. Cl.  
*A61K 47/68* ( 2017.01 )  
*A61K 31/7084* ( 2006.01 )  
*A61K 47/65* ( 2017.01 )  
*A61P 35/00* ( 2006.01 )  
*A61P 35/02* ( 2006.01 )  
*A61P 43/00* ( 2006.01 )  
*C07H 21/02* ( 2006.01 )  
*C07K 16/00* ( 2006.01 )  
(43) 30.03.2023  
(62) 2019337051  
(72) TSUDA, Toshifumi; TABUCHI, Toshiki; WATANABE, Hideaki; KOBAYASHI, Hiroyuki; ISHIZAKI, Masayuki; HARA, Kyoko; WADA, Teiji; ARAI, Masami  
(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd
- 
- (71) Deere & Company  
(11) AU-A-2022215270  
(21) 2022215270 (22) 12.08.2022  
(54) Roll assembly for cotton harvester  
(51) Int. Cl.  
*A01D 46/08* ( 2006.01 )  
(31) 17/447,589 (32) 14.09.21 (33) US  
(43) 30.03.2023  
(72) Ballewar, Sachin; Carlson, Brandon C.; Eaker, Adam R.  
(74) Davies Collison Cave Pty Ltd
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- (71) Delta Electronics (Shanghai) Co., Ltd.  
(11) AU-A-2022215316  
(21) 2022215316 (22) 12.08.2022  
(54) Energy storage system  
(51) Int. Cl.  
*H02J 7/02* ( 2016.01 )  
*H02J 1/10* ( 2006.01 )  
*H02J 3/28* ( 2006.01 )  
*H02J 7/04* ( 2006.01 )  
*H02J 7/34* ( 2006.01 )  
*H02J 15/00* ( 2006.01 )  
*H02M 1/092* ( 2006.01 )  
(31) 202111085638.6 (32) 16.09.21 (33) CN  
(43) 30.03.2023  
(72) GUAN, Wei; GAO, Zhiguang; CHEN, Jun; LU, Yansong; WANG, Changyong  
(74) Spruson & Ferguson
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- (71) Digital Medical Technologies, LLC (d/b/a AdhereTech)  
(11) AU-A-2023201114  
(21) 2023201114 (22) 24.02.2023  
(54) Medication apparatus  
(51) Int. Cl.  
*A61J 7/04* ( 2006.01 )  
*G07F 17/00* ( 2006.01 )  
(43) 30.03.2023  
(62) 2017335776  
(72) STEIN, Joshua D.; MORENA, Michael C.; LANGHAUSER, John W.; GUSZ, John D.  
(74) Spruson & Ferguson
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- (71) Disney Enterprises, Inc.; ETH Zürich (Eidgenössische Technische Hochschule Zürich)  
(11) AU-A-2022231680  
(21) 2022231680 (22) 13.09.2022  
(54) Techniques for re-aging faces in images and video frames  
(51) Int. Cl.  
*G06T 15/00* ( 2011.01 )  
*G06N 20/00* ( 2019.01 )  
*G06T 7/00* ( 2017.01 )  
*G06T 11/00* ( 2006.01 )  
*G06T 17/00* ( 2006.01 )  
(31) 17/473,232 (32) 13.09.21 (33) US  
(43) 30.03.2023  
(72) Zoss, Gaspard; Edward Bradley, Derek; Chandran, Prashanth; Fabiano Urnao Gotardo, Paulo; Sifakis, Eftychios  
(74) FPA Patent Attorneys Pty Ltd
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- (71) Donaldson Company, Inc.  
(11) AU-A-2023201156  
(21) 2023201156 (22) 27.02.2023  
(54) Hydrocarbon fluid-water separation  
(51) Int. Cl.  
*B01D 39/16* ( 2006.01 )  
(43) 30.03.2023  
(62) 2017313120  
(72) Hauser, Bradly G.; Sontag, Stephen K.; Moravec, Davis B.; Rajgarhia, Stuti S.; Dallas, Andrew J.; Kapoor, Vijay K.; Rahmathullah, Afjal; Christ, Charles S.; Block, Joseph M.  
(74) FPA Patent Attorneys Pty Ltd
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- (71) Eagle Biologics, Inc.  
(11) AU-A-2023200941  
(21) 2023200941 (22) 17.02.2023  
(54) LIQUID PROTEIN FORMULATIONS CONTAINING ORGANOPHOSPHATES  
(51) Int. Cl.  
*C07K 1/14* ( 2006.01 )  
*A61K 9/00* ( 2006.01 )  
*A61K 9/19* ( 2006.01 )  
*A61K 38/00* ( 2006.01 )  
*A61K 39/00* ( 2006.01 )  
*A61K 39/395* ( 2006.01 )  
*A61K 47/24* ( 2006.01 )  
*C07K 16/22* ( 2006.01 )  
*C07K 16/24* ( 2006.01 )  
*C07K 16/28* ( 2006.01 )  
*C07K 16/32* ( 2006.01 )  
(43) 30.03.2023  
(62) 2020202240  
(72) Langer, Robert S.; Weight, Alisha K.; Larson, Alyssa M.; Klibanov, Alexander M.; Love, Kevin; Crane, Alan  
(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd
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- (71) Ecolab USA Inc.  
(11) AU-A-2023201139  
(21) 2023201139 (22) 24.02.2023  
(54) Antimicrobial multi-purpose cleaner and methods of making and using the same  
(51) Int. Cl.  
*C11D 1/14* ( 2006.01 )  
*C11D 1/22* ( 2006.01 )  
*C11D 3/20* ( 2006.01 )  
*C11D 3/43* ( 2006.01 )  
*C11D 3/48* ( 2006.01 )  
*C11D 11/00* ( 2006.01 )  
(43) 30.03.2023  
(62) 2020272127  
(72) BAKKEN, Amanda; LEVITT, Mark D.; ABELSETH, Avila  
(74) Spruson & Ferguson
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- (71) Electronics Boutique Australia Pty Limited  
(11) AU-A-2022215280  
(21) 2022215280 (22) 12.08.2022  
(54) A DIAGNOSTIC DEVICE AND METHOD OF USE  
(51) Int. Cl.  
*G08B 21/18* ( 2006.01 )  
*G06F 11/273* ( 2006.01 )  
*G06F 11/277* ( 2006.01 )  
*H04N 21/4363* ( 2011.01 )

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**H04N 21/478** ( 2011.01 )  
**G01R 27/02** ( 2006.01 )  
**G01R 31/28** ( 2006.01 )  
**G01R 31/389** ( 2019.01 )  
**(31)** 2021902986 **(32)** 16.09.21 **(33)** AU  
**(43)** 30.03.2023  
**(72)** Micheletti, Samuele  
**(74)** KINGS PATENT & TRADE MARKS ATTORNEYS PTY LTD

**ETH Zürich (Eidgenössische Technische Hochschule Zürich) see Disney Enterprises, Inc.**  
**(21)** 2022231680

**(71)** Fisher & Paykel Healthcare Limited  
**(11)** AU-A-2023201143  
**(21)** 2023201143 **(22)** 25.02.2023  
**(54)** COMPONENTS FOR MEDICAL CIRCUITS  
**(51)** Int. Cl.  
**A61M 16/08** ( 2006.01 )  
**A61M 16/01** ( 2006.01 )  
**A61M 16/06** ( 2006.01 )  
**A61M 16/16** ( 2006.01 )  
**(43)** 30.03.2023  
**(62)** 2020277084  
**(72)** MILNE, Robert Andrew David; GIERKE, Timothy Dee  
**(74)** AJ PARK

**(71)** Fisher and Paykel Healthcare Limited  
**(11)** AU-A-2023201117  
**(21)** 2023201117 **(22)** 24.02.2023  
**(54)** METAL-ORGANIC FRAMEWORK MATERIALS IN GASES DELIVERY SYSTEMS  
**(51)** Int. Cl.  
**A61M 16/00** ( 2006.01 )  
**B01J 49/00** ( 2017.01 )  
**(43)** 30.03.2023  
**(62)** 2020281127  
**(72)** Dor-Zidon, Shahar  
**(74)** AJ PARK

**Gundersen Lutheran Medical Foundation, Inc. see QIAGEN Sciences LLC**  
**(21)** 2023201072

**(71)** Gupta, K.  
**(11)** AU-A-2021229264  
**(21)** 2021229264 **(22)** 11.09.2021  
**(54)** 1. The app/system will integrate key partners (Public transport/Cab/Taxis system, ride-share, food delivery, car rentals, and various e-commerce businesses) apps for fast, efficient, and cost-effective transport, food deliveries, ride share, car rental and e-commerce services by providing ease of access and comprehensive compared fares, reviews, and instant booking in one place to the potential customers. 2. Another system also provides bookings, estimated fare prices, real-time tracking of Public Transport Services like Bus,

Train, Ferries, Trams and will be integrated in above system.  
**(51)** Int. Cl.  
**G06Q 10/08** ( 2012.01 )  
**G06Q 30/02** ( 2012.01 )  
**G06Q 50/30** ( 2012.01 )  
**G06F 21/31** ( 2013.01 )  
**G06Q 50/12** ( 2012.01 )  
**(43)** 30.03.2023  
**(72)** Gupta, Kailash  
**(74)** Kailash Prasad Gupta

**(71)** Halliburton Energy Services, Inc.  
**(11)** AU-A-2022202234  
**(21)** 2022202234 **(22)** 04.04.2022  
**(54)** Improved steerability of downhole ranging tools using rotary magnets  
**(51)** Int. Cl.  
**E21B 44/00** ( 2006.01 )  
**E21B 17/02** ( 2006.01 )  
**E21B 17/20** ( 2006.01 )  
**(31)** 17/653,198 **(32)** 02.03.22 **(33)** US  
 63/244,414 15.09.21 US  
 PCT/ 02.03.22 WO  
 US2022/070916  
**(43)** 30.03.2023  
**(72)** SCHIERMEIER, Pete L.; HINKE, Sean  
**(74)** Spruson & Ferguson

**(71)** Halliburton Energy Services, Inc.  
**(11)** AU-A-2022203414  
**(21)** 2022203414 **(22)** 20.05.2022  
**(54)** BOTTOM HOLE ASSEMBLY MOUNTED SOLENOID FOR MAGNETIC RANGING  
**(51)** Int. Cl.  
**E21B 47/13** ( 2012.01 )  
**E21B 7/00** ( 2006.01 )  
**E21B 47/01** ( 2012.01 )  
**E21B 47/08** ( 2012.01 )  
**E21B 47/092** ( 2012.01 )  
**(31)** 63/243,618 **(32)** 13.09.21 **(33)** US  
 17/727,165 22.04.22 US  
**(43)** 30.03.2023  
**(72)** Hinke, Sean; Schiermeier, Pete L.  
**(74)** Phillips Ormonde Fitzpatrick

**(71)** Hamilton Sundstrand Corporation  
**(11)** AU-A-2022228190  
**(21)** 2022228190 **(22)** 09.09.2022  
**(54)** Interstage electric alternator for micro-turbine alternator applications  
**(51)** Int. Cl.  
**F01D 15/10** ( 2006.01 )  
**F02C 3/04** ( 2006.01 )  
**F02C 3/107** ( 2006.01 )  
**F02C 7/18** ( 2006.01 )  
**(31)** 17/471,875 **(32)** 10.09.21 **(33)** US  
**(43)** 30.03.2023  
**(72)** HIMMELMANN, Richard A.  
**(74)** Griffith Hack

**(71)** Heiniger Limited  
**(11)** AU-A-2022224707  
**(21)** 2022224707 **(22)** 29.08.2022  
**(54)** Drive Assembly  
**(51)** Int. Cl.

**B26B 19/36** ( 2006.01 )  
**A01K 14/00** ( 2006.01 )  
**F16D 1/02** ( 2006.01 )  
**F16D 1/10** ( 2006.01 )  
**A61D 99/00** ( 2006.01 )  
**B26B 19/24** ( 2006.01 )  
**(31)** 2021902958 **(32)** 13.09.21 **(33)** AU  
**(43)** 30.03.2023  
**(72)** Williams, Selwyn  
**(74)** WRAYS PTY LTD

**(71)** HONEYWELL INTERNATIONAL INC.  
**(11)** AU-A-2022215228  
**(21)** 2022215228 **(22)** 11.08.2022  
**(54)** METHOD AND APPARATUS FOR AN ALTERNATE COMMUNICATION PATH FOR CONNECTED NETWORKS  
**(51)** Int. Cl.  
**H04W 24/04** ( 2009.01 )  
**H04B 7/005** ( 2006.01 )  
**H04L 12/46** ( 2006.01 )  
**(31)** 17/471,899 **(32)** 10.09.21 **(33)** US  
**(43)** 30.03.2023  
**(72)** MCLAUGHLIN, Paul F.; FELIX, Joseph; SCHREDER, James M.; ALTIMARI, Robert; ROSA-BIAN, John  
**(74)** FPA Patent Attorneys Pty Ltd

**(71)** Huawei Technologies Co., Ltd.  
**(11)** AU-A-2023201111  
**(21)** 2023201111 **(22)** 24.02.2023  
**(54)** APPARATUS AND METHOD FOR PERFORMING DEBLOCKING  
**(51)** Int. Cl.  
**H04N 19/86** ( 2014.01 )  
**(43)** 30.03.2023  
**(62)** 2019320321  
**(72)** Kotra, Anand Meher; Chen, Jianle; Esenlik, Semih; Wang, Biao; Gao, Han; Zhao, Zhijie  
**(74)** PHILLIPS ORMONDE FITZPATRICK

**(71)** Husqvarna AB  
**(11)** AU-A-2022215312  
**(21)** 2022215312 **(22)** 12.08.2022  
**(54)** Drought adjustment techniques and apparatuses for irrigation controllers  
**(51)** Int. Cl.  
**A01G 25/16** ( 2006.01 )  
**G05B 19/042** ( 2006.01 )  
**G05D 7/06** ( 2006.01 )  
**G06Q 50/02** ( 2012.01 )  
**(31)** 63/243,066 **(32)** 10.09.21 **(33)** US  
**(43)** 30.03.2023  
**(72)** EYRING, Stuart J.; SIMS, Jason R.; WARDLE, Brad J.; PRICE, Eric T.  
**(74)** Spruson & Ferguson

**(71)** Idemia Identity & Security France  
**(11)** AU-A-2022231704  
**(21)** 2022231704 **(22)** 14.09.2022  
**(54)** Locking assembly  
**(51)** Int. Cl.  
**B60R 11/02** ( 2006.01 )  
**F16M 11/02** ( 2006.01 )  
**F16M 11/16** ( 2006.01 )  
**(31)** 2109644 **(32)** 14.09.21 **(33)** FR

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 (72) Roger, Luc; Touz, Frédéric; Abdalcanny, Amil; Savary, Jean-Claude  
 (74) FPA Patent Attorneys Pty Ltd

(71) ImCyse SA  
 (11) AU-A-2023201135  
 (21) 2023201135 (22) 24.02.2023  
 (54) Improved methods and compounds for eliminating immune responses to therapeutic agents  
 (51) Int. Cl.  
*A61K 39/00* ( 2006.01 )  
*A61K 35/12* ( 2015.01 )  
*C12N 9/02* ( 2006.01 )  
 (43) 30.03.2023  
 (62) 2016328582  
 (72) SAINT-REMY, Jean-Marie; VANDER ELST, Luc; CARLIER, Vincent  
 (74) Spruson & Ferguson

(71) Inpeco SA  
 (11) AU-A-2022228185  
 (21) 2022228185 (22) 09.09.2022  
 (54) AUTOMATED STATION FOR A PNEUMATIC TRANSPORT SYSTEM FOR HISTOLOGICAL SAMPLES, CONFIGURED FOR THE AUTOMATED LOADING AND/OR UNLOADING OF HISTOLOGICAL SAMPLES, AND PROCESS FOR TRANSPORTING AND HANDLING HISTOLOGICAL SAMPLES  
 (51) Int. Cl.  
*B65G 51/40* ( 2006.01 )  
*B65G 53/50* ( 2006.01 )  
 (31) 102021000023804 (32) 15.09.21 (33) IT  
 (43) 30.03.2023  
 (72) Pedrazzini, Gianandrea  
 (74) PHILLIPS ORMONDE FITZPATRICK

(71) Janssen Biotech, Inc.  
 (11) AU-A-2023201217  
 (21) 2023201217 (22) 28.02.2023  
 (54) Safe and effective method of treating ulcerative colitis with anti-IL12/IL23 antibody  
 (51) Int. Cl.  
*A61K 39/395* ( 2006.01 )  
*C07K 14/54* ( 2006.01 )  
 (43) 30.03.2023  
 (62) 2019346134  
 (72) JOHANNIS, Jewel; LI, Katherine; MARANO, Colleen; STRAUSS, Richard; ZHANG, Hongyan; ADEDOKUN, Omoniyi; O'BRIEN, Christopher; SHIELDS-TUTTLE, Kimberly  
 (74) Spruson & Ferguson

(71) JiangSu XCMG Construction Machinery Research Institute Ltd.  
 (11) AU-A-2021426704  
 (21) 2021426704 (22) 28.10.2021  
 (54) Map editing device and method and map updating system for unmanned transport system for surface mines  
 (51) Int. Cl.

*G01C 21/32* ( 2006.01 )  
 (31) 202111085405.6 (32) 16.09.21 (33) CN  
 (43) 30.03.2023  
 (72) YANG, Chao; AI, Yunfeng; ZHOU, Changcheng; WANG, Feiyue  
 (74) Madderns Pty Ltd

(71) Jieh Jia Enterprise Co., Ltd.  
 (11) AU-A-2022228124  
 (21) 2022228124 (22) 07.09.2022  
 (54) Brake Caliper  
 (51) Int. Cl.  
*F16D 65/00* ( 2006.01 )  
*B60T 13/58* ( 2006.01 )  
*B60T 13/74* ( 2006.01 )  
*F16D 55/225* ( 2006.01 )  
*F16D 65/092* ( 2006.01 )  
*F16D 65/18* ( 2006.01 )  
 (31) 110134334 (32) 15.09.21 (33) TW  
 (43) 30.03.2023  
 (72) Huang, Jui-Fa  
 (74) P.L. Berry & Associates Ltd

(71) JINKO SOLAR (HAINING) CO., LTD.  
 (11) AU-A-2022202922  
 (21) 2022202922 (22) 02.05.2022  
 (54) SOLAR CELL, MANUFACTURING METHOD THEREOF, AND PHOTO-VOLTAIC MODULE  
 (51) Int. Cl.  
*H01L 31/18* ( 2006.01 )  
*H01L 21/28* ( 2006.01 )  
*H01L 31/0224* ( 2006.01 )  
 (31) 202111084159.2 (32) 16.09.21 (33) CN  
 (43) 30.03.2023  
 (72) QU, Jiahua; JIN, Jingsheng; ZHANG, Linan  
 (74) Franke Hyland Pty Ltd

(71) Johnson & Johnson Vision Care, Inc.  
 (11) AU-A-2022231664  
 (21) 2022231664 (22) 12.09.2022  
 (54) Contact lens packages and methods of handling and manufacture  
 (51) Int. Cl.  
*A45C 11/00* ( 2006.01 )  
*A61F 9/00* ( 2006.01 )  
 (31) 63/243,525 (32) 13.09.21 (33) US  
 (43) 30.03.2023  
 (72) POPWELL, Sam Jonathan; ANSELL, Scott F.; WARD, Daniel Graham; SAMS, Stephen; SHORE, Brett; AKRAM, Ismail  
 (74) Spruson & Ferguson

(71) Juris Legal Support Pty Ltd  
 (11) AU-A-2021254657  
 (21) 2021254657 (22) 22.10.2021  
 (54) Focusing light shielding air steriliser  
 (51) Int. Cl.  
*F24F 8/22* ( 2021.01 )  
*F24F 11/30* ( 2018.01 )  
 (31) 202122227609.0 (32) 15.09.21 (33) CN  
 (43) 30.03.2023  
 (72) Xu, Feiyang  
 (74) Patentec Patent Attorneys

(71) Kabushiki Kaisha Toshiba; Toshiba Energy Systems & Solutions Corporation  
 (11) AU-A-2022224836  
 (21) 2022224836 (22) 02.09.2022  
 (54) Novel amine compound, acid gas absorbent, method for removing acid gas, and acid gas removal apparatus  
 (51) Int. Cl.  
*B01D 53/14* ( 2006.01 )  
 (31) 2021-150538 (32) 15.09.21 (33) JP  
 (43) 30.03.2023  
 (72) NAKANO, Yoshihiko; SUZUKI, Akiko; YOSHIMURA, Reiko; KONDO, Asato; MURAI, Shinji; HANDA, Yusuke  
 (74) Griffith Hack

(71) Karma Medical Products Co., Ltd.  
 (11) AU-A-2022231695  
 (21) 2022231695 (22) 13.09.2022  
 (54) CHASSIS STRUCTURE FOR AN ELECTRIC POWER WHEELCHAIR  
 (51) Int. Cl.  
*A61G 5/10* ( 2006.01 )  
*A61G 5/04* ( 2013.01 )  
*H02P 29/00* ( 2016.01 )  
 (31) 110134436 (32) 15.09.21 (33) TW  
 (43) 30.03.2023  
 (72) Van Olst, Eric  
 (74) PHILLIPS ORMONDE FITZPATRICK

(71) Khalil, G.; Al-Dabbagh, A.  
 (11) AU-A-2021236549  
 (21) 2021236549 (22) 23.09.2021  
 (54) A Combined RFID, Mechanical Generator and Motion Detector system for a Secure Anti-Theft Device  
 (51) Int. Cl.  
*G08B 13/14* ( 2006.01 )  
*G08B 5/22* ( 2006.01 )  
*G08B 13/24* ( 2006.01 )  
 (31) 2021902879 (32) 06.09.21 (33) AU  
 (43) 30.03.2023  
 (72) Khalil, Ghaith; Al-Dabbagh, Abraham  
 (74) Ghaith Khalil

(71) King Technology Inc  
 (11) AU-A-2022203577  
 (21) 2022203577 (22) 26.05.2022  
 (54) FLOATING DISPENSER HOLDER  
 (51) Int. Cl.  
*E04H 4/16* ( 2006.01 )  
*A47K 5/04* ( 2006.01 )  
*C02F 1/68* ( 2006.01 )  
 (31) 17/300,650 (32) 09.09.21 (33) US  
 (43) 30.03.2023  
 (72) Guy, David; Johnson, Jeffrey D.; Barton, Eric; Swagel, Darrin M.  
 (74) Anderson-Taylor & Associates

(71) Kite Pharma, Inc.  
 (11) AU-A-2023201197  
 (21) 2023201197 (22) 28.02.2023  
 (54) Chimeric transmembrane proteins and uses thereof  
 (51) Int. Cl.  
*C07K 14/715* ( 2006.01 )  
*C07K 14/54* ( 2006.01 )

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- C12N 15/62** ( 2006.01 )  
**(43)** 30.03.2023  
**(62)** 2019288733  
**(72)** Emtage, Peter; Romain, Gabrielle; Vincent, Rosa; Wyman, Sarah  
**(74)** FPA Patent Attorneys Pty Ltd
- 
- (71)** KLIEBER, J.  
**(11)** AU-A-2022231715  
**(21)** 2022231715 **(22)** 14.09.2022  
**(54)** Apparatus for providing a steering moment for a two-wheeler steering mechanism  
**(51)** Int. Cl.  
**B62K 21/08** ( 2006.01 )  
**(31)** 10 2021 123 921.4 **(32)** 15.09.21 **(33)** DE  
**(43)** 30.03.2023  
**(72)** KLIEBER, Jochen  
**(74)** Griffith Hack
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- (71)** Komatsu Forest AB  
**(11)** AU-A-2021232719  
**(21)** 2021232719 **(22)** 15.09.2021  
**(54)** Internal line routing for working machines having boom arms  
**(51)** Int. Cl.  
**A01G 23/08** ( 2006.01 )  
**E02F 3/36** ( 2006.01 )  
**E02F 9/14** ( 2006.01 )  
**(43)** 30.03.2023  
**(72)** Jones, Brett; Reen, Timothy  
**(74)** FB Rice Pty Ltd
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- (71)** Kriz, M.  
**(11)** AU-A-2021229261  
**(21)** 2021229261 **(22)** 11.09.2021  
**(54)** Antidote for Sexual Health  
**(51)** Int. Cl.  
**A61K 36/18** ( 2006.01 )  
**A61P 31/04** ( 2006.01 )  
**A61P 31/10** ( 2006.01 )  
**A61P 31/22** ( 2006.01 )  
**A61P 33/10** ( 2006.01 )  
**(43)** 30.03.2023  
**(72)** Kriz, Michelle  
**(74)** Michelle Serija Kriz
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- (71)** Law, R.  
**(11)** AU-A-2022218542  
**(21)** 2022218542 **(22)** 18.08.2022  
**(54)** Fencing and a method of installing fencing  
**(51)** Int. Cl.  
**E04H 17/26** ( 2006.01 )  
**E04H 17/08** ( 2006.01 )  
**E04B 1/41** ( 2006.01 )  
**F16B 7/04** ( 2006.01 )  
**F16B 12/10** ( 2006.01 )  
**(31)** 780112 **(32)** 14.09.21 **(33)** NZ  
**(43)** 30.03.2023  
**(72)** Law, Robert  
**(74)** AJ Pietras IP Limited
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- (71)** Magic Leap, Inc.  
**(11)** AU-A-2023201163  
**(21)** 2023201163 **(22)** 27.02.2023
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- (54)** Projector architecture incorporating artifact mitigation  
**(51)** Int. Cl.  
**G02B 27/01** ( 2006.01 )  
**G02B 6/00** ( 2006.01 )  
**G02B 27/42** ( 2006.01 )  
**(43)** 30.03.2023  
**(62)** 2018221742  
**(72)** Schuck III, Miller Harry; Curtis, Kevin Richard; Cheng, Hui-Chuan; Sissom, Bradley Jay; Greco, Paul M.; Welch, William Hudson; Browy, Eric C.  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** MAKO SURGICAL CORP.  
**(11)** AU-A-2022231651  
**(21)** 2022231651 **(22)** 12.09.2022  
**(54)** LIGAMENT MODELING AND BALANCING  
**(51)** Int. Cl.  
**A61B 34/10** ( 2016.01 )  
**A61B 17/56** ( 2006.01 )  
**A61B 34/20** ( 2016.01 )  
**A61F 2/38** ( 2006.01 )  
**(31)** 63/242,780 **(32)** 10.09.21 **(33)** US  
**(43)** 30.03.2023  
**(72)** ALI, Azhar; HAMPP, Emily; LIU, Xiangyi; MAHONEY, Ormonde  
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD
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- (71)** Manuka Health New Zealand Limited  
**(11)** AU-A-2023201100  
**(21)** 2023201100 **(22)** 24.02.2023  
**(54)** THERAPEUTIC COMPOSITIONS AND USES THEREOF  
**(51)** Int. Cl.  
**A61K 31/20** ( 2006.01 )  
**A61K 31/23** ( 2006.01 )  
**A61K 36/76** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**(43)** 30.03.2023  
**(62)** 2017237651  
**(72)** Catchpole, Owen John; Bloor, Stephen John  
**(74)** AJ PARK
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- (71)** MEDMONT INTERNATIONAL PTY LTD  
**(11)** AU-A-2023201109  
**(21)** 2023201109 **(22)** 24.02.2023  
**(54)** OPHTHALMOLOGICAL IMAGING METHOD, DEVICE AND SYSTEM  
**(51)** Int. Cl.  
**A61B 3/107** ( 2006.01 )  
**A61B 3/14** ( 2006.01 )  
**(43)** 30.03.2023  
**(62)** 2021204988  
**(72)** LICHTENAUER, Paul; HEAVYSIDE, Robert  
**(74)** Oxygene IP
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- (71)** MeiraGTx, UK II Limited  
**(11)** AU-A-2023200240  
**(21)** 2023200240 **(22)** 18.01.2023  
**(54)** Regulation of gene expression by aptamer-modulated RNase P cleavage  
**(51)** Int. Cl.
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- C12N 15/113** ( 2010.01 )  
**C12N 15/11** ( 2006.01 )  
**C12N 15/115** ( 2010.01 )  
**C12N 15/63** ( 2006.01 )  
**C12N 15/67** ( 2006.01 )  
**C12N 15/86** ( 2006.01 )  
**C12N 15/861** ( 2006.01 )  
**C12P 19/34** ( 2006.01 )  
**(43)** 30.03.2023  
**(62)** 2018227057  
**(72)** Guo, Xuecui  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** Milestone Systems A/S  
**(11)** AU-A-2022215283  
**(21)** 2022215283 **(22)** 12.08.2022  
**(54)** A method of training a machine learning algorithm to identify objects or activities in video surveillance data  
**(51)** Int. Cl.  
**G06V 20/52** ( 2022.01 )  
**G06N 20/00** ( 2019.01 )  
**G06T 19/00** ( 2011.01 )  
**G06V 20/64** ( 2022.01 )  
**(31)** EP21196002.6 **(32)** 10.09.21 **(33)** EP  
**(43)** 30.03.2023  
**(72)** NASROLLAHI, Kamal  
**(74)** Spruson & Ferguson
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- (71)** Motion Asia Pacific Pty Limited  
**(11)** AU-A-2021229249  
**(21)** 2021229249 **(22)** 10.09.2021  
**(54)** A sealing ring  
**(51)** Int. Cl.  
**F16J 15/3232** ( 2016.01 )  
**F16J 15/16** ( 2006.01 )  
**F16J 15/322** ( 2016.01 )  
**F16J 15/324** ( 2016.01 )  
**F16J 15/3268** ( 2016.01 )  
**F16C 35/04** ( 2006.01 )  
**(43)** 30.03.2023  
**(72)** PAYNE, Gary; WILSON, David  
**(74)** FB Rice Pty Ltd
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- (71)** Nat Diagnostics, Inc.  
**(11)** AU-A-2023201140  
**(21)** 2023201140 **(22)** 24.02.2023  
**(54)** Isothermal amplification components and processes  
**(51)** Int. Cl.  
**C12Q 1/68** ( 2018.01 )  
**(43)** 30.03.2023  
**(62)** 2017247133  
**(72)** MILLER, Andrew P.; ZHANG, Honghua  
**(74)** Spruson & Ferguson
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- (71)** NEC Corporation  
**(11)** AU-A-2021398579  
**(21)** 2021398579 **(22)** 13.09.2021  
**(54)** Cooling device and control method for cooling device  
**(51)** Int. Cl.  
**F25B 29/00** ( 2006.01 )  
**(43)** 30.03.2023  
**(72)** OHTSUKA, Takashi; TODOROKI, Koichi; MIYAMOTO, Yoshinori; CHIBA, Ma-

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- saki; HACHIYA, Mahiro; YOSHIKAWA, Minoru  
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd
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- (71)** Nikko Toys Limited  
**(11)** AU-A-2023201152  
**(21)** 2023201152 **(22)** 27.02.2023  
**(54)** Expandable wheel  
**(51)** Int. Cl.  
*B60B 19/04* ( 2006.01 )  
*B60B 15/00* ( 2006.01 )  
**(43)** 30.03.2023  
**(62)** 2020464392  
**(72)** BOYER, Jesse  
**(74)** Spruson & Ferguson
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- (71)** NuVasive, Inc.  
**(11)** AU-A-2023201101  
**(21)** 2023201101 **(22)** 24.02.2023  
**(54)** LORDOTIC EXPANDABLE FUSION IMPLANT  
**(51)** Int. Cl.  
*A61F 2/44* ( 2006.01 )  
*A61F 2/30* ( 2006.01 )  
**(43)** 30.03.2023  
**(62)** 2021218059  
**(72)** Stein, Chris  
**(74)** PHILLIPS ORMONDE FITZPATRICK
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- (71)** Palo Alto Research Center Incorporated  
**(11)** AU-A-2022221436  
**(21)** 2022221436 **(22)** 24.08.2022  
**(54)** System and Method for Modifying pH In An Aqueous Environment  
**(51)** Int. Cl.  
*C02F 1/461* ( 2006.01 )  
*A01K 61/00* ( 2017.01 )  
*C02F 1/66* ( 2006.01 )  
*C25B 1/26* ( 2006.01 )  
*C25B 15/08* ( 2006.01 )  
*C02F 103/08* ( 2006.01 )  
**(31)** 63/242,572 **(32)** 10.09.21 **(33)** US  
 17/889,507 17.08.22 US  
**(43)** 30.03.2023  
**(72)** THYAGARAJAN, Krishnan; MECKLER, Stephen Matthew  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** PayPal, Inc.  
**(11)** AU-A-2023201102  
**(21)** 2023201102 **(22)** 24.02.2023  
**(54)** Locations platform for managing and providing of user experiences  
**(51)** Int. Cl.  
*H04W 4/021* ( 2018.01 )  
*G06F 3/0484* ( 2022.01 )  
*G06Q 20/18* ( 2012.01 )  
*G06Q 30/06* ( 2023.01 )  
*H04L 67/10* ( 2022.01 )  
*H04L 67/306* ( 2022.01 )
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- (43)** 30.03.2023  
**(62)** 2022200219  
**(72)** Jamkhedkar, Prashant; Ganapathy, Anant; Leng, Jie; Nair, Biju Balakrishnan; Xue, Haoyu; Warmkessel, Justin  
**(74)** FPA Patent Attorneys Pty Ltd
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- (71)** Price Industries Limited  
**(11)** AU-A-2022228225  
**(21)** 2022228225 **(22)** 10.09.2022  
**(54)** CRITICAL AREA RECIRCULATION AND EXHAUST SYSTEM  
**(51)** Int. Cl.  
*F24F 3/167* ( 2021.01 )  
*F24F 8/10* ( 2021.01 )  
*F24F 13/06* ( 2006.01 )  
**(31)** 63/242,804 **(32)** 10.09.21 **(33)** US  
**(43)** 30.03.2023  
**(72)** DAVIS, Ethan Conrad; ENNS, Jordan Ashley Rose; SURMINSKI, David  
**(74)** Adams Pluck
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- (71)** QIAGEN Sciences LLC; Biopeptides Corp.; Gundersen Lutheran Medical Foundation, Inc.  
**(11)** AU-A-2023201072  
**(21)** 2023201072 **(22)** 23.02.2023  
**(54)** Compositions and methods for diagnosing lyme disease and for predicting lyme disease spirochete elimination after treatment  
**(51)** Int. Cl.  
*G01N 33/569* ( 2006.01 )  
*C07K 14/20* ( 2006.01 )  
**(43)** 30.03.2023  
**(62)** 2016328277  
**(72)** Callister, Steven M.; Boyle, Jeff; Miyamasu, Misato; Dattwyler, Raymond J.; Arnaboldi, Paul M.  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** Quantafuel AS  
**(11)** AU-A-2023201128  
**(21)** 2023201128 **(22)** 24.02.2023  
**(54)** Production of hydrocarbon fuels from waste plastic  
**(51)** Int. Cl.  
*C10G 1/10* ( 2006.01 )  
*C10G 1/00* ( 2006.01 )  
*C10G 1/02* ( 2006.01 )  
*C10G 11/00* ( 2006.01 )  
*C10G 45/00* ( 2006.01 )  
*C10G 69/04* ( 2006.01 )  
**(43)** 30.03.2023  
**(62)** 2019297562  
**(72)** FAREID, Erik; FAREID, Lars; LARSEN, Tarjei; KAALSTAD, Petter; NORHEIM, Arnstein  
**(74)** Spruson & Ferguson
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- (71)** Regeneron Pharmaceuticals, Inc.  
**(11)** AU-A-2022291579  
**(21)** 2022291579 **(22)** 22.12.2022  
**(54)** Humanized non-human animals with restricted immunoglobulin heavy chain loci  
**(51)** Int. Cl.
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- A01K 67/027* ( 2006.01 )  
**(43)** 30.03.2023  
**(62)** 2020202185  
**(72)** MACDONALD, Lynn; MCWHIRITHER, John; TU, Naxin; STEVENS, Sean; MURPHY, Andrew J.  
**(74)** FB Rice Pty Ltd
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- (71)** RIGORTECH SDN. BHD.  
**(11)** AU-A-2022231705  
**(21)** 2022231705 **(22)** 14.09.2022  
**(54)** WASTE RECOVERING SYSTEM AND METHOD THEREOF  
**(51)** Int. Cl.  
*C10G 1/00* ( 2006.01 )  
*C10B 53/07* ( 2006.01 )  
*C10G 7/00* ( 2006.01 )  
*C10L 1/04* ( 2006.01 )  
*C10L 3/10* ( 2006.01 )  
**(31)** PI2021005373 **(32)** 14.09.21 **(33)** MY  
**(43)** 30.03.2023  
**(72)** TAN, CHZE LOONG; BOONSAWAT, SONGPOL  
**(74)** FOUNDRY INTELLECTUAL PROPERTY PTY LTD
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- (71)** RIHA Industries Pty Ltd  
**(11)** AU-A-2021232685  
**(21)** 2021232685 **(22)** 14.09.2021  
**(54)** Adjustable Hitch  
**(51)** Int. Cl.  
*B60D 1/46* ( 2006.01 )  
*B60D 1/52* ( 2006.01 )  
*B66F 9/075* ( 2006.01 )  
*B60D 1/00* ( 2006.01 )  
**(43)** 30.03.2023  
**(72)** Ritter, Nicolas  
**(74)** LESICAR MAYNARD ANDREWS PTY LTD
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- (71)** SafeOperate  
**(11)** AU-A-2022228222  
**(21)** 2022228222 **(22)** 09.09.2022  
**(54)** Seat Cover with Embedded Accelerometers  
**(51)** Int. Cl.  
*B60N 2/60* ( 2006.01 )  
*B60R 21/01* ( 2006.01 )  
*B60R 21/013* ( 2006.01 )  
*B60R 21/0132* ( 2006.01 )  
**(31)** 2021902943 **(32)** 10.09.21 **(33)** AU  
**(43)** 30.03.2023  
**(72)** Westaway, Andrew; Brown, Anthony; Beikoff, Keegan; Bialkowski, Konstanty; van Lint, Bartholomeus  
**(74)** Andrew Mark Westaway
- 
- (71)** Samsung Electronics Co., Ltd.  
**(11)** AU-A-2023201172  
**(21)** 2023201172 **(22)** 27.02.2023  
**(54)** Antenna module including dielectric material and electronic device including antenna module  
**(51)** Int. Cl.  
*H01Q 1/38* ( 2006.01 )  
*H01Q 1/46* ( 2006.01 )  
*H01Q 9/04* ( 2006.01 )



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(62) 2019255870  
(72) KIM, Yoongeon; KO, Seungtae; KIM, Hyunjin; PARK, Jungmin; KUM, Junsig; LEE, Youngju  
(74) Griffith Hack
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- (71) SenseTime International Pte. Ltd.  
(11) AU-A-2021240185  
(21) 2021240185 (22) 26.09.2021  
(54) Message processing method, apparatus, device and storage medium  
(51) Int. Cl.  
*G06F 16/26* ( 2019.01 )  
(31) 10202110086U (32) 14.09.21 (33) SG  
(43) 30.03.2023  
(72) SUN, Bing; WANG, Xinxin  
(74) FB Rice Pty Ltd
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- (71) SenseTime International Pte. Ltd.  
(11) AU-A-2021240186  
(21) 2021240186 (22) 26.09.2021  
(54) Status switching method and apparatus, edge computing device and computer storage medium  
(51) Int. Cl.  
*A63F 13/45* ( 2014.01 )  
(31) 10202110082R (32) 14.09.21 (33) SG  
(43) 30.03.2023  
(72) SUN, Bing; WANG, Xinxin  
(74) FB Rice Pty Ltd
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- (71) SenseTime International Pte. Ltd.  
(11) AU-A-2021240199  
(21) 2021240199 (22) 26.09.2021  
(54) Message processing method, apparatus and device, and storage medium  
(51) Int. Cl.  
*G06K 9/62* ( 2006.01 )  
(31) 10202110223Q (32) 16.09.21 (33) SG  
(43) 30.03.2023  
(72) SUN, Bing; WANG, Xinxin  
(74) FB Rice Pty Ltd
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- (71) SenseTime International Pte. Ltd.  
(11) AU-A-2021240218  
(21) 2021240218 (22) 26.09.2021  
(54) Configuration updating method and apparatus, device and storage medium  
(51) Int. Cl.  
*G06F 3/00* ( 2006.01 )  
*A63F 1/00* ( 2006.01 )  
(31) 10202110093V (32) 14.09.21 (33) SG  
(43) 30.03.2023  
(72) WU, Jiacheng; WU, Wenxuan; ZHANG, Shuai  
(74) FB Rice Pty Ltd
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- (71) SenseTime International Pte. Ltd.  
(11) AU-A-2021240231  
(21) 2021240231 (22) 26.09.2021  
(54) Image synchronization method and apparatus, and device and computer storage medium  
(51) Int. Cl.  
*G06K 9/00* ( 2006.01 )

- (31) 10202110230T (32) 16.09.21 (33) SG  
(43) 30.03.2023  
(72) WU, Jiacheng; SUN, Dongliang; ZHANG, Shuai  
(74) FB Rice Pty Ltd
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- (71) SenseTime International Pte. Ltd.  
(11) AU-A-2021240232  
(21) 2021240232 (22) 26.09.2021  
(54) Data collection method and apparatus, device and storage medium  
(51) Int. Cl.  
*G06K 9/00* ( 2006.01 )  
(31) 10202110226V (32) 16.09.21 (33) SG  
(43) 30.03.2023  
(72) WU, Jiacheng; LIU, Zhiheng; ZHANG, Shuai  
(74) FB Rice Pty Ltd
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- (71) SenseTime International Pte. Ltd.  
(11) AU-A-2021240235  
(21) 2021240235 (22) 26.09.2021  
(54) Data security processing method and apparatus, device and storage medium  
(51) Int. Cl.  
*G06F 16/2458* ( 2019.01 )  
(31) 10202110095W (32) 14.09.21 (33) SG  
(43) 30.03.2023  
(72) WU, Jiacheng; GAN, Xin; ZHANG, Shuai  
(74) FB Rice Pty Ltd
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- (71) SenseTime International Pte. Ltd.  
(11) AU-A-2021240270  
(21) 2021240270 (22) 24.09.2021  
(54) Data processing methods, apparatuses and systems, media and computer devices  
(51) Int. Cl.  
*G06K 9/00* ( 2006.01 )  
(31) 10202110060Y (32) 13.09.21 (33) SG  
(43) 30.03.2023  
(72) YANG, Liyao  
(74) Madderns Pty Ltd
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- (71) SenseTime International Pte. Ltd.  
(11) AU-A-2021240274  
(21) 2021240274 (22) 24.09.2021  
(54) Methods, apparatuses, devices, systems and storage media for detecting game items  
(51) Int. Cl.  
*G06K 9/00* ( 2006.01 )  
*A63F 1/00* ( 2006.01 )  
(31) 10202110070U (32) 13.09.21 (33) SG  
(43) 30.03.2023  
(72) WANG, Xinxin; XIE, Fei; XIE, Naiwei  
(74) Madderns Pty Ltd
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- (71) Sequenom, Inc.  
(11) AU-A-2023201148  
(21) 2023201148 (22) 27.02.2023  
(54) Methods and processes for non-invasive assessment of genetic variations  
(51) Int. Cl.  
*C12Q 1/68* ( 2018.01 )

- (43) 30.03.2023  
(62) 2020244389  
(72) Hannum, Gregory  
(74) Davies Collison Cave Pty Ltd
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- (71) SHANGHAI CONCORD ELECTRONIC & MACHINERY CO.,LTD.  
(11) AU-A-2021269339  
(21) 2021269339 (22) 16.11.2021  
(54) CAR ROOF ELECTRIC LIFTING LUGGAGE RACK  
(51) Int. Cl.  
*B60R 9/042* ( 2006.01 )  
*B66B 9/04* ( 2006.01 )  
(31) 202111066728.0 (32) 13.09.21 (33) CN  
(43) 30.03.2023  
(72) Guo, Wenxi  
(74) MOHAN MURALI KODIVEL
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- (71) Shopify Inc.  
(11) AU-A-2022204627  
(21) 2022204627 (22) 29.06.2022  
(54) SYSTEMS AND METHODS FOR BLOCKCHAIN NETWORK CONGESTION-ADAPTIVE DIGITAL ASSET EVENT HANDLING  
(51) Int. Cl.  
*H04L 47/11* ( 2022.01 )  
*G06Q 20/22* ( 2012.01 )  
*G06Q 20/38* ( 2012.01 )  
*H04L 9/06* ( 2006.01 )  
*H04L 47/129* ( 2022.01 )  
*H04L 47/50* ( 2022.01 )  
(31) 17/473,284 (32) 13.09.21 (33) US  
22169579.4 22.04.22 EP  
(43) 30.03.2023  
(72) Jong-Suk Lee, John  
(74) Murray Trento & Associates Pty Ltd
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- (71) Shopify Inc.  
(11) AU-A-2022204637  
(21) 2022204637 (22) 29.06.2022  
(54) NON-FUNGIBLE-TOKEN-BASED COMMERCE ATTRIBUTE  
(51) Int. Cl.  
*G06Q 30/02* ( 2012.01 )  
*G06Q 20/22* ( 2012.01 )  
*G06Q 20/38* ( 2012.01 )  
*H04L 9/00* ( 2022.01 )  
(31) 17/475,240 (32) 14.09.21 (33) US  
22169580.2 22.04.22 EP  
(43) 30.03.2023  
(72) Matheson, Lucas; Jong-Suk Lee, John  
(74) Murray Trento & Associates Pty Ltd
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- (71) Snap-on Incorporated  
(11) AU-A-2022218471  
(21) 2022218471 (22) 15.08.2022  
(54) SLIDE HAMMER WEIGHTS  
(51) Int. Cl.  
*B25D 1/16* ( 2006.01 )  
*B25B 27/02* ( 2006.01 )  
*B25D 17/00* ( 2006.01 )  
(31) 17/475,739 (32) 15.09.21 (33) US  
(43) 30.03.2023  
(72) SCHULZ, Benjamin T.  
(74) Griffith Hack

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<p>(71) Snap-on Incorporated (11) AU-A-2023201155 (21) 2023201155 (22) 27.02.2023 (54) METHOD AND SYSTEM OF USING USB USER INTERFACE IN ELECTRONIC TORQUE WRENCH (51) Int. Cl. B25B 23/142 ( 2006.01 ) (43) 30.03.2023 (62) 2021200856 (72) LI, Jie; KING, Jerry A.; WU, Tingwen; LEE, Nathan J. (74) Griffith Hack</p>	<p>SHI, Shanshan; ZHANG, Qiqi; ZHENG, Zhen; HUANG, Xin; ZHANG, Kaiyu (74) Madderns Pty Ltd</p> <hr/> <p>(71) Strata Safety Products, LLC (11) AU-A-2023201157 (21) 2023201157 (22) 27.02.2023 (54) Integrated alarm device (51) Int. Cl. G08B 21/00 ( 2006.01 ) (43) 30.03.2023 (62) 2020256319 (72) FREDERICK, Larry D. (74) Griffith Hack</p>	<p>(71) The Boeing Company (11) AU-A-2023201134 (21) 2023201134 (22) 24.02.2023 (54) Commercial satellite operations with secure enclave for payload operations (51) Int. Cl. H04B 7/00 ( 2006.01 ) H04B 7/185 ( 2006.01 ) (43) 30.03.2023 (62) 2018214040 (72) WINIG, Robert J.; CHEN, Yi-Feng James (74) Spruson &amp; Ferguson</p>
<p>(71) Snap-on Incorporated (11) AU-A-2023201161 (21) 2023201161 (22) 27.02.2023 (54) STORAGE BIN WITH RETAINING FEATURE (51) Int. Cl. B25H 3/06 ( 2006.01 ) (43) 30.03.2023 (62) 2021201943 (72) KUTER-ARNEBECK, Ottoleo; WEIR, Nicholas H. (74) Griffith Hack</p>	<p>(71) Terra Quantum AG (11) AU-A-2022211813 (21) 2022211813 (22) 02.08.2022 (54) METHOD FOR DETERMINING A QUANTUM COMMUNICATION SETUP, QUANTUM COMMUNICATION SETUP, COMPUTER PROGRAM, AND DATA PROCESSING SYSTEM (51) Int. Cl. H04L 9/08 ( 2006.01 ) G06F 21/60 ( 2013.01 ) G06N 3/08 ( 2006.01 ) G06N 10/20 ( 2022.01 ) G06N 20/00 ( 2019.01 ) (31) 21196667.6 (32) 14.09.21 (33) EP (43) 30.03.2023 (72) KENBAEV, Nurbolat; SAGINGALIEVA, Asel; SEKATSKI, Pavel; MELNIKOV, Alexey (74) Griffith Hack</p>	<p>(71) The University of Sydney (11) AU-A-2023201107 (21) 2023201107 (22) 24.02.2023 (54) New synthetic methods (51) Int. Cl. C07K 14/00 ( 2006.01 ) C07C 323/25 ( 2006.01 ) C07C 323/36 ( 2006.01 ) C07C 327/22 ( 2006.01 ) C07C 391/02 ( 2006.01 ) (43) 30.03.2023 (62) 2019273119 (72) Payne, Richard J.; Chisholm, Tim (74) FPA Patent Attorneys Pty Ltd</p>
<p>(71) Spark, I. (11) AU-A-2022231650 (21) 2022231650 (22) 12.09.2022 (54) Improved Controlled Differential (51) Int. Cl. B60K 17/346 ( 2006.01 ) B60K 17/16 ( 2006.01 ) B60K 17/34 ( 2006.01 ) B60K 17/348 ( 2006.01 ) B60K 23/04 ( 2006.01 ) B62D 5/097 ( 2006.01 ) F16H 48/10 ( 2012.01 ) B62D 15/02 ( 2006.01 ) F16H 37/08 ( 2006.01 ) F16H 48/20 ( 2012.01 ) F16H 61/00 ( 2006.01 ) (31) 2021902980 (32) 16.09.21 (33) AU 2021903502 02.11.21 AU 2022900709 21.03.22 AU (43) 30.03.2023 (72) Spark, Ian (74) Ian James Spark</p>	<p>(71) Thales Holdings UK Plc (11) AU-A-2022228193 (21) 2022228193 (22) 09.09.2022 (54) A STAVE, A FLEXTENSIONAL TRANSDUCER, AND A WATER BASED SONAR DEVICE (51) Int. Cl. H04R 1/28 ( 2006.01 ) G01S 15/88 ( 2006.01 ) G10K 11/00 ( 2006.01 ) H10N 30/50 ( 2023.01 ) H10N 30/853 ( 2023.01 ) H10N 30/87 ( 2023.01 ) (31) 2113120.6 (32) 14.09.21 (33) GB (43) 30.03.2023 (72) BOND, Andrew James; CATT, Steven Robert (74) Griffith Hack</p>	<p><b>Toshiba Energy Systems &amp; Solutions Corporation see Kabushiki Kaisha Toshiba</b> (21) 2022224836</p> <hr/> <p>(71) Tramec Sloan, L.L.C. (11) AU-A-2022228158 (21) 2022228158 (22) 08.09.2022 (54) CRANK HANDLE ASSEMBLY (51) Int. Cl. G05G 1/08 ( 2006.01 ) B60D 1/66 ( 2006.01 ) (31) 17/472,775 (32) 13.09.21 (33) US (43) 30.03.2023 (72) CORNELIUS, Kevin; HERWEYER, Craig; ANDERSON, Stuart; KOVACH, Miklos A. (74) Griffith Hack</p>
<p>(71) State Grid Shanghai Municipal Electric Power Company (11) AU-A-2021335236 (21) 2021335236 (22) 29.12.2021 (54) Comprehensive resilience evaluation method and system for distribution network (51) Int. Cl. G06Q 50/06 ( 2012.01 ) H02B 15/00 ( 2006.01 ) (31) 202111059384.0 (32) 10.09.21 (33) CN (43) 30.03.2023 (72) WEI, Xinchu; HE, Weiguo; HUANG, Chenhong; ZHOU, Jian; SONG, Ping;</p>	<p>(71) The Boeing Company (11) AU-A-2022203730 (21) 2022203730 (22) 31.05.2022 (54) Blind fasteners and associated methods for installing blind fasteners (51) Int. Cl. F16B 19/10 ( 2006.01 ) B21J 15/04 ( 2006.01 ) (31) 17/471,372 (32) 10.09.21 (33) US (43) 30.03.2023 (72) MUNTZ, Nathan A.; SISCO, Tanni (74) Spruson &amp; Ferguson</p>	<p>(71) Treemagineers Ltd (11) AU-A-2023201149 (21) 2023201149 (22) 27.02.2023 (54) Harnesses (51) Int. Cl. A62B 35/00 ( 2006.01 ) (43) 30.03.2023 (62) 2021396591 (72) COWELL, Christopher; TANNER, Elliot (74) Adams Pluck</p>
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**(72)** FLEMING, Joseph  
**(74)** Adams Pluck

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**(21)** 2023201116

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**(71)** Unigen, Inc.; Unigen, Inc.  
**(11)** AU-A-2023201116  
**(21)** 2023201116 **(22)** 24.02.2023  
**(54)** Compositions and methods for managing or improving bone disorders, cartilage disorders, or both  
**(51)** Int. Cl.  
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**A61K 31/352** ( 2006.01 )  
**A61K 31/7034** ( 2006.01 )  
**A61K 36/48** ( 2006.01 )  
**A61P 19/00** ( 2006.01 )  
**(43)** 30.03.2023  
**(62)** 2020201457  
**(72)** BROWNELL, Lidia Alfaro; CHU, Min; HONG, Mei-Feng; HYUN, Eu-Jin; JIA, Qi; JIAO, Ping; KIM, Hyun-Jin; KIM, Tae-Woo; LEE, Young-Chul; NAM, Jeong-Bum; YIMAN, Mesfin; KIM, Mi-Ran  
**(74)** Spruson & Ferguson

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**(71)** Universität Heidelberg  
**(11)** AU-A-2023201120  
**(21)** 2023201120 **(22)** 24.02.2023  
**(54)** FAP inhibitor  
**(51)** Int. Cl.  
**C07D 401/12** ( 2006.01 )  
**A61K 31/4709** ( 2006.01 )  
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**(43)** 30.03.2023  
**(62)** 2019219057  
**(72)** HABERKORN, Uwe; LOKTEV, Anastasia; LINDNER, Thomas; MIER, Walter; GIESEL, Frederik; KRATOCHWIL, Clemens  
**(74)** Spruson & Ferguson

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**(71)** Vorwerk & Co. Interholding GmbH  
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**(54)** Method for preparing food and food processor  
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**A47J 43/046** ( 2006.01 )  
**A47J 44/00** ( 2006.01 )  
**G05B 11/36** ( 2006.01 )  
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**G05D 23/20** ( 2006.01 )  
**G05D 23/30** ( 2006.01 )  
**(31)** 21195957.2 **(32)** 10.09.21 **(33)** EP

**(43)** 30.03.2023  
**(72)** Kraut-Reinkober, Stefan; Feckler, Gereon; Merta, Andreas; Yan, Wenjie  
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** VRM International Pty Ltd  
**(11)** AU-A-2021229268  
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**(54)** A METHOD FOR CONVERTING AN ORGANIC MATERIAL INTO A CATALYST FOR BIOLOGICAL HYDROSYNTHESIS  
**(51)** Int. Cl.  
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**B01J 37/36** ( 2006.01 )  
**B09B 3/00** ( 2006.01 )  
**B09C 1/10** ( 2006.01 )  
**C05F 1/00** ( 2006.01 )  
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**C09K 101/00** ( 2006.01 )  
**(43)** 30.03.2023  
**(72)** Bellamy, Kenneth Michael  
**(74)** KINGS PATENT & TRADE MARKS ATTORNEYS PTY LTD

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**(71)** Wessel-Werk GmbH  
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**(54)** Floor cleaning arrangement  
**(51)** Int. Cl.  
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**A47L 13/255** ( 2006.01 )  
**(43)** 30.03.2023  
**(62)** 2016204588  
**(72)** GEURDEN, Wolfgang  
**(74)** Spruson & Ferguson

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**(71)** Whichello, D.  
**(11)** AU-A-2021229265  
**(21)** 2021229265 **(22)** 12.09.2021  
**(54)** Process for improving boat propeller propulsion and power  
**(51)** Int. Cl.  
**B63H 11/02** ( 2006.01 )  
**(43)** 30.03.2023  
**(72)** Whichello, David  
**(74)** David Glen Whichello

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**(71)** Zhejiang Orient Gene Biotech Co., Ltd  
**(11)** AU-A-2022204801  
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**(54)** TEST STRIP FOR DETECTING ANALYTE IN SAMPLE  
**(51)** Int. Cl.  
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**G01N 33/531** ( 2006.01 )  
**G01N 33/543** ( 2006.01 )  
**(31)** 202122236352.5 **(32)** 15.09.21 **(33)** CN  
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**(43)** 30.03.2023  
**(72)** SHEN, Lili; ZHOU, Fangli; ZHU, Shengping; YAO, Zhaoxia; PENG, Yu  
**(74)** Baxter Patent Attorneys Pty Ltd

**(71)** Zhongwei New Energy (Chengdu) Co., Ltd.  
**(11)** AU-A-2021385099  
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**(54)** Transparent conductive oxide film and heterojunction solar cell  
**(51)** Int. Cl.  
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**(31)** 2021110805933 **(32)** 15.09.21 **(33)** CN  
**(43)** 30.03.2023  
**(72)** SHI, Jianhua; ZHANG, Haichuan; YUAN, Qiang; MENG, Chuncai; MENG, Fanying; LIU, Zhengxin; CHENG, Qiong; ZHOU, Hua; ZHOU, Dan  
**(74)** James & Wells Intellectual Property

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**Innovation Patents Open to Public Inspection**

**Name Index**

- . (\*) Title not in Roman characters
  - . (\*\*) Title not given
- (This list may contain multiple listings of a patent where there are multiple patentees for that patent.)

<hr/> <p>(71) China University of Mining and Technology                  (11) AU-A-2020104492                  (21) 2020104492 (22) 09.05.2020                  (54) Method for identifying characteristics of coal mine field by fusing satellite/airborne image data                  (51) Int. Cl.  <i>G06V 10/80</i> ( 2022.01 )  <i>G01S 13/88</i> ( 2006.01 )  <i>G06T 7/00</i> ( 2017.01 )  <i>G06V 20/13</i> ( 2022.01 )                  (31) 201911344549.1 (32) 24.12.19 (33) CN                  (45) 30.03.2023                  (72) DONG, Jihong; GUO, Yachao; ZHANG, Hua; HUANG, Yanli; ZOU, Jianbo; SHANG, Jianxuan; WANG, Sujian; WANG, Peng                  (74) Madderns Pty Ltd</p> <hr/> <p>(71) Fliteboard Pty Ltd                  (11) AU-A-2023100025                  (21) 2023100025 (22) 03.03.2023                  (54) MODULE FOR CONNECTING A MAST TO A BOARD                  (51) Int. Cl.  <i>B63B 32/66</i> ( 2020.01 )  <i>B63B 1/24</i> ( 2020.01 )  <i>B63B 32/10</i> ( 2020.01 )  <i>B63B 34/40</i> ( 2020.01 )                  (45) 30.03.2023                  (62) 2018377850                  (72) TREWERN, David                  (74) Davies Collison Cave Pty Ltd</p> <hr/> <p>(71) Lastavec, S.                  (11) AU-A-2023100023                  (21) 2023100023 (22) 22.02.2023                  (54) A self-supporting split skillion portal frame                  (51) Int. Cl.  <i>E04B 7/06</i> ( 2006.01 )  <i>E04B 7/02</i> ( 2006.01 )  <i>E04C 3/11</i> ( 2006.01 )  <i>E04C 3/40</i> ( 2006.01 )  <i>E04C 3/04</i> ( 2006.01 )                  (45) 30.03.2023                  (62) 2022100148                  (72) Lastavec, Steven                  (74) Patentec Patent Attorneys</p> <hr/> <p>(71) Milwaukee Electric Tool Corporation                  (11) AU-A-2023100026                  (21) 2023100026 (22) 06.03.2023                  (54) MODULAR TOOL CONTAINER                  (51) Int. Cl.  <i>B25H 3/02</i> ( 2006.01 )  <i>B23Q 13/00</i> ( 2006.01 )</p>	<p>(45) 30.03.2023                  (62) 2022100154                  (72) BURNS, Courtney J.; ZIMMERMANN, Michael J.; HYMA, Steven W.; HUH, Michael D.                  (74) Griffith Hack</p> <hr/> <p>(71) Piber Plastics Australia Pty Ltd                  (11) AU-A-2019101840                  (21) 2019101840 (22) 04.04.2019                  (54) A collapsible container                  (51) Int. Cl.  <i>B65D 6/18</i> ( 2006.01 )  <i>B65D 6/22</i> ( 2006.01 )  <i>B65D 6/24</i> ( 2006.01 )  <i>B65D 81/38</i> ( 2006.01 )  <i>B65D 6/38</i> ( 2006.01 )  <i>B65D 21/02</i> ( 2006.01 )  <i>B65D 85/34</i> ( 2006.01 )                  (31) 2018901342 (32) 23.04.18 (33) AU                  (45) 30.03.2023                  (72) Patel, Bipin                  (74) BRM Patent Attorneys Pty Ltd</p> <hr/> <p>(71) TNBT Holdings Pty Ltd                  (11) AU-A-2017101941                  (21) 2017101941 (22) 22.08.2017                  (54) A Lock                  (51) Int. Cl.  <i>E05B 67/24</i> ( 2006.01 )  <i>E05B 67/22</i> ( 2006.01 )  <i>E05B 35/08</i> ( 2006.01 )  <i>E05B 63/14</i> ( 2006.01 )                  (31) 2016903320 (32) 22.08.16 (33) AU                  (45) 30.03.2023                  (72) COHEN, Marc                  (74) Chrysilou IP</p>
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**2023100025** Fliteboard Pty Ltd  
**2023100026** Milwaukee Electric Tool Corporation



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**G16H 15/00** ( 2018.01 )  
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 (72) VASAN, Nilesh R.; HAGEN, Henry Paul  
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 (72) CHIEM, Brian T.  
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**A61F 2/16** ( 2006.01 )  
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**A61P 35/00** ( 2006.01 )  
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- (71) Amgen Inc.; Amgen Research (Munich) GmbH  
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 (51) Int. Cl.  
**C07K 16/28** ( 2006.01 )  
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 (51) Int. Cl.  
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 (11) AU-A-2021331789  
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- (71) Australian National University  
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 (51) Int. Cl.  
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**(72)** PIZZOCHERO, Alessandro E.  
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**(54)** Heterocyclic compound as BCL-2 inhibitor  
**(51)** Int. Cl.  
**C07D 471/04** ( 2006.01 )  
**A61K 31/437** ( 2006.01 )  
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**(72)** KONG, Norman Xianglong; ZHOU, Chao; ZHENG, Zhixiang  
**(74)** Churchill Attorneys
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**(54)** METHODS OF ASSAYING A BIOLOGICAL CELL  
**(51)** Int. Cl.  
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**A61K 39/00** ( 2006.01 )  
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**(54)** Miglustat alone or in combination with trehalose for the treatment of allysosomal storage disorder  
**(51)** Int. Cl.  
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**(74)** Davies Collison Cave Pty Ltd
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**(51)** Int. Cl.  
**C07K 5/062** ( 2006.01 )  
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**(51)** Int. Cl.  
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**(54)** PROCESS OF REWORKING  
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**C07D 413/04** ( 2006.01 )
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**(54)** Grasping devices, systems, and methods for tissue approximation and apposition  
**(51)** Int. Cl.  
**A61B 17/02** ( 2006.01 )  
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**(72)** SAENZ VILLALOBOS, Gonzalo Jose; AMAYA PINEDA, Deborah; ARTAVIA SALAS, Viviana  
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**(51)** Int. Cl.  
**A61B 17/02** ( 2006.01 )  
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(51) Int. Cl.  
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(51) Int. Cl.  
*A47J 37/08* ( 2006.01 )  
*G01N 21/00* ( 2006.01 )
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*F24C 15/32* ( 2006.01 )  
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(74) GLMR
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*A61P 3/14* ( 2006.01 )  
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DEVICE  
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and imaging method  
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*G03B 17/56* ( 2021.01 )  
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*G11C 13/00* ( 2006.01 )  
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*G06N 3/12* ( 2006.01 )
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toring  
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 A61K 31/232 ( 2006.01 )  
 A61K 31/27 ( 2006.01 )  
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 D21H 17/14 ( 2006.01 )  
 C08B 11/12 ( 2006.01 )  
 D21H 21/16 ( 2006.01 )  
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 C10M 141/10 ( 2006.01 )  
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 H04W 4/06 ( 2009.01 )  
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 B08B 3/02 ( 2006.01 )  
 B05B 1/14 ( 2006.01 )  
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 B05B 9/04 ( 2006.01 )  
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 (51) Int. Cl.  
 A61K 38/01 ( 2006.01 )  
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 (54) Method for monitoring vibrations  
 (51) Int. Cl.
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 (21) 2021327239 (22) 19.08.2021  
 (54) Setting a cement plug  
 (51) Int. Cl.  
 E21B 33/16 ( 2006.01 )  
 E21B 33/12 ( 2006.01 )  
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 E21B 33/134 ( 2006.01 )  
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- (71) ConocoPhillips Company  
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 (21) 2021329372 (22) 19.08.2021  
 (54) Behind casing cementing tool  
 (51) Int. Cl.  
 E21B 33/14 ( 2006.01 )  
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 E21B 33/127 ( 2006.01 )  
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 E21B 33/138 ( 2006.01 )  
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 (54) Behind casing wash and cement  
 (51) Int. Cl.  
 E21B 33/14 ( 2006.01 )  
 E21B 33/10 ( 2006.01 )  
 E21B 37/00 ( 2006.01 )  
 E21B 37/08 ( 2006.01 )  
 E21B 41/00 ( 2006.01 )  
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 (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) Cook Biotech Incorporated  
 (11) AU-A-2021315935  
 (21) 2021315935 (22) 27.07.2021  
 (54) Adhesive for surgical staple line reinforcement  
 (51) Int. Cl.  
 A61L 15/58 ( 2006.01 )  
 A61L 24/08 ( 2006.01 )  
 A61L 27/20 ( 2006.01 )  
 A61L 27/34 ( 2006.01 )  
 A61L 27/36 ( 2006.01 )  
 (87) WO2022/027005  
 (31) 63/057,027 (32) 27.07.20 (33) US  
 (43) 03.02.2022  
 (72) SOLORIO, Loran; COHEN, Steven; KLINE, Benjamin Patrick  
 (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) Cook Biotech Incorporated  
 (11) AU-A-2021318195  
 (21) 2021318195 (22) 27.07.2021  
 (54) System and methods for supplying surgical staple line reinforcement  
 (51) Int. Cl.  
 A61B 17/072 ( 2006.01 )  
 (87) WO2022/027011  
 (31) 63/057,044 (32) 27.07.20 (33) US  
 (43) 03.02.2022  
 (72) SOLORIO, Loran; COHEN, Steven; TAPIA, David; SHAH, Bhavin B.  
 (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) Cornell Pump Company LLC  
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 (21) 2021338607 (22) 01.09.2021  
 (54) Interactive parts drawings with a real-time bill of materials  
 (51) Int. Cl.  
 G06Q 30/06 ( 2012.01 )  
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 (74) Spruson & Ferguson
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- (71) Corning Research & Development Corporation  
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 (21) 2021335225 (22) 24.08.2021  
 (54) Intermittently bonded ribbon with intermittent bonds created with a wet-on-wet process  
 (51) Int. Cl.  
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 (21) 2021330472 (22) 05.08.2021  
 (54) System for a generator set  
 (51) Int. Cl.  
 F02B 63/04 ( 2006.01 )  
 E04B 1/343 ( 2006.01 )  
 E04H 5/02 ( 2006.01 )  
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 (43) 03.03.2022  
 (72) ZHAO, Dexiu; LU, Yongxing; YAN, Dongsheng  
 (74) Spruson & Ferguson
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 (21) 2021332038 (22) 05.08.2021  
 (54) Container for a generator set  
 (51) Int. Cl.  
 B65D 88/74 ( 2006.01 )  
 F02B 63/04 ( 2006.01 )  
 F02D 29/06 ( 2006.01 )  
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 (74) Spruson & Ferguson
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- (71) CyPlus GmbH  
 (11) AU-A-2021327110  
 (21) 2021327110 (22) 17.08.2021  
 (54) Water soluble container containing dye and method for producing a dyed, aqueous alkali metal cyanide solution  
 (51) Int. Cl.  
 C08F 216/06 ( 2006.01 )  
 C08J 5/18 ( 2006.01 )  
 C09B 67/02 ( 2006.01 )  
 E21C 41/26 ( 2006.01 )  
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 (74) Spruson & Ferguson
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 (54) Methods and compositions of infecting, activating, and expanding immune cells  
 (51) Int. Cl.  
 C12N 15/867 ( 2006.01 )  
 C12N 5/0783 ( 2010.01 )  
 C12N 5/10 ( 2006.01 )  
 C12N 15/63 ( 2006.01 )  
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 (21) 2021361060 (22) 15.10.2021  
 (54) Piperidinyl small molecule degraders of helios and methods of use  
 (51) Int. Cl.  
 A61K 31/553 ( 2006.01 )  
 A61K 47/54 ( 2017.01 )  
 A61P 35/00 ( 2006.01 )  
 C07D 401/14 ( 2006.01 )  
 (87) WO2022/081976  
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 (74) Spruson & Ferguson
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- (71) Dein, R.; Schoville, F.  
 (11) AU-A-2021337567  
 (21) 2021337567 (22) 01.09.2021  
 (54) Automated continuous instrument tracking system  
 (51) Int. Cl.  
 G16H 40/20 ( 2018.01 )  
 A61B 90/90 ( 2016.01 )  
 A61B 90/98 ( 2016.01 )  
 G16H 40/40 ( 2018.01 )  
 H04W 4/02 ( 2018.01 )  
 (87) WO2022/051432  
 (31) 63/073,059 (32) 01.09.20 (33) US  
 (43) 10.03.2022  
 (72) DEIN, John Richard; SCHOVILLE, Frederick P.  
 (74) FB Rice Pty Ltd
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- (71) DermR Health Solutions Pty Ltd  
 (11) AU-A-2021390587  
 (21) 2021390587 (22) 01.12.2021  
 (54) Minimally invasive skin sample collection apparatus  
 (51) Int. Cl.  
 A61B 10/02 ( 2006.01 )  
 (87) WO2022/115906  
 (31) 2020904483 (32) 04.12.20 (33) AU  
 (43) 09.06.2022  
 (72) MAZY, Stefan  
 (74) Halfords IP
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- (71) Diraq Pty Ltd  
 (11) AU-A-2021323935  
 (21) 2021323935 (22) 09.08.2021  
 (54) Advanced quantum processing systems and methods  
 (51) Int. Cl.  
 G06N 10/00 ( 2022.01 )  
 G06F 15/76 ( 2006.01 )  
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- (71) DIRTSAT, INC.  
 (11) AU-A-2021344973  
 (21) 2021344973 (22) 16.09.2021  
 (54) Systems and methods of urban rooftop agriculture with smart city data integration  
 (51) Int. Cl.  
*G06V 10/82* ( 2022.01 )  
*G06V 20/13* ( 2022.01 )  
 (87) WO2022/060940  
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 (43) 24.03.2022  
 (72) TIBALLI, Christine  
 (74) RnB IP Pty Ltd
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- (71) DOMETIC SWEDEN AB  
 (11) AU-A-2021343247  
 (21) 2021343247 (22) 15.09.2021  
 (54) A RECREATIONAL VEHICLE USER INTERFACE  
 (51) Int. Cl.  
*G06F 3/0354* ( 2013.01 )  
*B60K 35/00* ( 2006.01 )  
*B60K 37/06* ( 2006.01 )  
*F24F 11/52* ( 2018.01 )  
*G06F 3/0484* ( 2022.01 )  
*G06F 3/0488* ( 2022.01 )  
*G06F 3/0489* ( 2022.01 )  
*H05B 47/175* ( 2020.01 )  
*H05B 47/19* ( 2020.01 )  
 (87) WO2022/058389  
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 (43) 24.03.2022  
 (72) LANDBERGER, Ulf; HEDERSTIERNA, Rickard  
 (74) Spruson & Ferguson
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- (71) DUALITY BIOLOGICS (SUZHOU) CO., LTD.  
 (11) AU-A-2021354823  
 (21) 2021354823 (22) 29.09.2021  
 (54) Antitumor compound, and preparation method therefor and use thereof  
 (51) Int. Cl.  
*A61K 47/68* ( 2017.01 )  
*A61K 31/4745* ( 2006.01 )  
*A61K 47/65* ( 2017.01 )  
*A61P 35/00* ( 2006.01 )  
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- (71) DUNAMU INC.; LAMBDA256, CO., LTD  
 (11) AU-A-2021333448  
 (21) 2021333448 (22) 23.08.2021  
 (54) METHOD FOR MEDIATING VIRTUAL ASSET TRANSMISSION
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- (51) Int. Cl.  
*G06Q 20/38* ( 2012.01 )  
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*G06Q 20/36* ( 2012.01 )  
*H04L 9/08* ( 2006.01 )  
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 (72) OH, Jae Hoon; CHOI, Hyeok  
 (74) FB Rice Pty Ltd
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 (11) AU-A-2021313058  
 (21) 2021313058 (22) 09.07.2021  
 (54) Muscle-targeting complexes and uses thereof  
 (51) Int. Cl.  
*A61K 47/68* ( 2017.01 )  
*A61P 21/00* ( 2006.01 )  
*C07K 14/705* ( 2006.01 )  
*C12N 15/113* ( 2010.01 )  
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 (74) Davies Collison Cave Pty Ltd
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- (71) Ecolab USA Inc.  
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 (21) 2021330965 (22) 24.08.2021  
 (54) Methods and compositions for processing sulfide ores  
 (51) Int. Cl.  
*B03D 1/004* ( 2006.01 )  
*B03D 1/008* ( 2006.01 )  
*B03D 1/08* ( 2006.01 )  
*C02F 11/12* ( 2019.01 )  
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 (72) GREULICH, Christopher Ryan; O'BRIEN, Kevin; LAROSA, Michael Ignazio  
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- (71) Edwards Lifesciences Corporation  
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 (21) 2021344320 (22) 09.09.2021  
 (54) Compressible shunt implant  
 (51) Int. Cl.  
*A61B 17/11* ( 2006.01 )  
*A61B 17/00* ( 2006.01 )  
 (87) WO2022/060630  
 (31) 62/706,874 (32) 15.09.20 (33) US  
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 (72) MURRAY, Daniel James; RABBAH, Jean-Pierre Michel  
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- (71) EMGENISYS, INC.  
 (11) AU-A-2021320661  
 (21) 2021320661 (22) 03.08.2021  
 (54) Embryo evaluation based on real-time video  
 (51) Int. Cl.  
*C12N 5/073* ( 2010.01 )  
*G01N 33/483* ( 2006.01 )  
*G01N 33/68* ( 2006.01 )  
*G06T 7/00* ( 2017.01 )  
*G06T 7/62* ( 2017.01 )  
 (87) WO2022/031765  
 (31) 63/060,554 (32) 03.08.20 (33) US  
 (43) 10.02.2022  
 (72) WESSELS WELLS, Cara Elizabeth  
 (74) DAVIS IP PTY LTD
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- (71) Emory University  
 (11) AU-A-2021331658  
 (21) 2021331658 (22) 31.08.2021  
 (54) 5'-substituted nucleoside monophosphates, prodrugs thereof, and uses related thereto  
 (51) Int. Cl.  
*C07F 9/6512* ( 2006.01 )  
 (87) WO2022/047400  
 (31) 63/072,369 (32) 31.08.20 (33) US  
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 (72) MILLER, Eric J.; DASARI, Madhuri; PELLY, Stephen C.; LIOTTA, Dennis C.  
 (74) Griffith Hack
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- (71) Enapter S.r.l.  
 (11) AU-A-2021338482  
 (21) 2021338482 (22) 31.08.2021  
 (54) System for the removal of hydrogen/oxygen in a gaseous stream  
 (51) Int. Cl.  
*C25B 9/23* ( 2021.01 )  
*B01D 53/86* ( 2006.01 )  
*C25B 15/023* ( 2021.01 )  
*C25B 15/08* ( 2006.01 )  
*G21C 9/06* ( 2006.01 )  
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 (74) FPA Patent Attorneys Pty Ltd
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- (71) ENERGIA DE SEPTIEMBRE LLC  
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 (21) 2021318104 (22) 31.03.2021  
 (54) Underground hydrogen storage vessel  
 (51) Int. Cl.  
*F17C 1/00* ( 2006.01 )  
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 (31) 16/943,963 (32) 30.07.20 (33) US  
 (43) 03.02.2022  
 (72) MEHEEN, Steven Meheen; SHAW, Thomas Howard  
 (74) WRAYS PTY LTD
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 (54) CURVED SUTURE NEEDLES HAVING A NON-SMOOTH PROFILE  
 (51) Int. Cl.  
**A61B 17/06** ( 2006.01 )  
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 (31) 63/076,920 (32) 10.09.20 (33) US  
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 (43) 17.03.2022  
 (72) ALMODOVAR, Luis Jose  
 (74) Dentons Patent Attorneys Australasia Limited
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- (71) Excir Works Corp.  
 (11) AU-A-2021319956  
 (21) 2021319956 (22) 09.08.2021  
 (54) Methods for leaching and recovery of platinum group metals in organic solvents  
 (51) Int. Cl.  
**C22B 3/04** ( 2006.01 )  
**B01D 11/02** ( 2006.01 )  
**B01J 38/48** ( 2006.01 )  
**C01G 55/00** ( 2006.01 )  
**C22B 3/26** ( 2006.01 )  
**C22B 3/44** ( 2006.01 )  
**C22B 5/00** ( 2006.01 )  
**C22B 7/00** ( 2006.01 )  
**C22B 11/00** ( 2006.01 )  
 (87) WO2022/027146  
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 (43) 10.02.2022  
 (72) SALIMI, Hiwa; MORADI, Loghman  
 (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) Flat Planet Limited  
 (11) AU-A-2021315816  
 (21) 2021315816 (22) 31.07.2021  
 (54) Dual convection and conduction oven for flower stick  
 (51) Int. Cl.  
**A24F 40/00** ( 2020.01 )  
**A24F 40/20** ( 2020.01 )  
**A24F 40/42** ( 2020.01 )  
**A24F 40/46** ( 2020.01 )  
**A24F 40/485** ( 2020.01 )  
**A24F 40/51** ( 2020.01 )  
**A24F 40/57** ( 2020.01 )  
**A61M 15/00** ( 2006.01 )
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 (31) 63/059,894 (32) 31.07.20 (33) US  
 (43) 03.02.2022  
 (72) SIMPSON, Michael Lee; BICKERTON, Matthew James  
 (74) FPA Patent Attorneys Pty Ltd
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- (71) FLOWSERVE MANAGEMENT COMPANY  
 (11) AU-A-2021349185  
 (21) 2021349185 (22) 01.09.2021  
 (54) HYDRAULIC BEARINGS AND RELATED DEVICES, ASSEMBLIES, AND METHODS  
 (51) Int. Cl.  
**F04F 13/00** ( 2009.01 )  
**F16C 17/00** ( 2006.01 )  
**F16C 33/02** ( 2006.01 )  
 (87) WO2022/066381  
 (31) 17/031,736 (32) 24.09.20 (33) US  
 (43) 31.03.2022  
 (72) RICHÉ, Chris J., Jr.; JUDGE, Scott  
 (74) James & Wells Intellectual Property
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 (11) AU-A-2021320333  
 (21) 2021320333 (22) 05.08.2021  
 (54) Immunoconjugates targeting CD46 and methods of use thereof  
 (51) Int. Cl.  
**A61K 47/68** ( 2017.01 )  
**A61K 9/00** ( 2006.01 )  
**A61K 47/18** ( 2017.01 )  
**A61K 47/26** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
 (87) WO2022/032020  
 (31) 63/062,740 (32) 07.08.20 (33) US  
 (43) 10.02.2022  
 (72) NASOFF, Marc; DORR, Andrew  
 (74) FB Rice Pty Ltd
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 (11) AU-A-2021327133  
 (21) 2021327133 (22) 18.08.2021  
 (54) A method and facility for assembling a plurality of floating wind turbines  
 (51) Int. Cl.  
**F03D 13/10** ( 2016.01 )  
**F03D 13/25** ( 2016.01 )  
 (87) WO2022/038165  
 (31) 20200920 (32) 20.08.20 (33) NO  
 (43) 24.02.2022  
 (72) GRIMSRUD, Geir  
 (74) Griffith Hack
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 (11) AU-A-2021358025  
 (21) 2021358025 (22) 05.10.2021  
 (54) Commercial scale 3D food printing  
 (51) Int. Cl.  
**A23P 30/20** ( 2016.01 )  
**A23P 20/20** ( 2016.01 )  
**B33Y 30/00** ( 2015.01 )  
 (87) WO2022/076368  
 (31) 63/087,374 (32) 05.10.20 (33) US
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 (72) GRAHAM, Stephen  
 (74) James & Wells Intellectual Property
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- (71) Genfit  
 (11) AU-A-2021322057  
 (21) 2021322057 (22) 02.08.2021  
 (54) Method for nash risk assessment  
 (51) Int. Cl.  
**G01N 33/68** ( 2006.01 )  
 (87) WO2022/029066  
 (31) 20305895.3 (32) 03.08.20 (33) EP  
 (43) 10.02.2022  
 (72) MAJD, Zouher; CHAUMAT, Pierre  
 (74) Davies Collison Cave Pty Ltd
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- (71) Gilead Sciences, Inc.  
 (11) AU-A-2021330835  
 (21) 2021330835 (22) 23.08.2021  
 (54) Phospholipid compounds and uses thereof  
 (51) Int. Cl.  
**C07D 487/04** ( 2006.01 )  
**A61K 31/53** ( 2006.01 )  
**A61P 31/12** ( 2006.01 )  
 (87) WO2022/046631  
 (31) 63/069,449 (32) 24.08.20 (33) US  
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 (43) 03.03.2022  
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 (74) Davies Collison Cave Pty Ltd
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- (71) Gilead Sciences, Inc.  
 (11) AU-A-2021333577  
 (21) 2021333577 (22) 23.08.2021  
 (54) Multi-specific antigen binding molecules targeting HIV and methods of use  
 (51) Int. Cl.  
**A61P 31/18** ( 2006.01 )  
**C07K 14/73** ( 2006.01 )  
**C07K 16/10** ( 2006.01 )  
**C07K 16/28** ( 2006.01 )  
 (87) WO2022/046644  
 (31) 63/070,141 (32) 25.08.20 (33) US  
 63/163,713 19.03.21 US  
 (43) 03.03.2022  
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 (74) Davies Collison Cave Pty Ltd
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- (71) Gilgamesh Pharmaceuticals, Inc.  
 (11) AU-A-2021338384  
 (21) 2021338384 (22) 03.09.2021  
 (54) Azetidinyl tryptamines and methods of treating psychiatric disorders  
 (51) Int. Cl.  
**C07D 403/06** ( 2006.01 )  
**A61K 31/4045** ( 2006.01 )

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**A61P 25/24** ( 2006.01 )  
**A61P 25/30** ( 2006.01 )  
**C07F 9/00** ( 2006.01 )  
**(87)** WO2022/051670  
**(31)** 63/074,557 **(32)** 04.09.20 **(33)** US  
**(43)** 10.03.2022  
**(72)** KRUEGEL, Andrew Carry  
**(74)** PHILLIPS ORMONDE FITZPATRICK
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- (71)** Google LLC  
**(11)** AU-A-2021336875  
**(21)** 2021336875 **(22)** 01.09.2021  
**(54)** Verified quantum phase estimation  
**(51)** Int. Cl.  
**G06N 10/00** ( 2022.01 )  
**(87)** WO2022/051395  
**(31)** 63/073,134 **(32)** 01.09.20 **(33)** US  
**(43)** 10.03.2022  
**(72)** O'BRIEN, Thomas Eugene; BABBUSH, Ryan; RUBIN, Nicholas Charles; MC-CLEAN, Jarrod Ryan  
**(74)** Pizzseys Patent and Trade Mark Attorneys Pty Ltd
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- (71)** Halliburton Energy Services, Inc.  
**(11)** AU-A-2020471657  
**(21)** 2020471657 **(22)** 22.10.2020  
**(54)** Gravel pack flow control using swellable metallic material  
**(51)** Int. Cl.  
**E21B 33/12** ( 2006.01 )  
**E21B 33/127** ( 2006.01 )  
**E21B 34/10** ( 2006.01 )  
**E21B 43/08** ( 2006.01 )  
**E21B 43/12** ( 2006.01 )  
**(87)** WO2022/076002  
**(31)** 17/066,262 **(32)** 08.10.20 **(33)** US  
**(43)** 14.04.2022  
**(72)** CHO, Brian Williams; GRECI, Stephen Michael Greci  
**(74)** Spruson & Ferguson
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- (71)** Halliburton Energy Services, Inc.  
**(11)** AU-A-2020481719  
**(21)** 2020481719 **(22)** 18.12.2020  
**(54)** Multiphase power transfer in inductive couplers  
**(51)** Int. Cl.  
**E21B 47/13** ( 2012.01 )  
**E21B 17/02** ( 2006.01 )  
**(87)** WO2022/132163  
**(31)** 17/124,652 **(32)** 17.12.20 **(33)** US  
**(43)** 23.06.2022  
**(72)** PIHL, Joachim Alexander  
**(74)** PHILLIPS ORMONDE FITZPATRICK
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- (71)** Halliburton Energy Services, Inc.  
**(11)** AU-A-2020481932  
**(21)** 2020481932 **(22)** 18.12.2020  
**(54)** Expandable metal slurry for wellbore isolation and sealing  
**(51)** Int. Cl.  
**E21B 33/127** ( 2006.01 )  
**E21B 33/12** ( 2006.01 )  
**E21B 33/128** ( 2006.01 )  
**E21B 43/04** ( 2006.01 )
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- (71)** Harbour Biomed US, Inc.  
**(11)** AU-A-2021330067  
**(21)** 2021330067 **(22)** 27.08.2021  
**(54)** CCR8 antibody and application thereof  
**(51)** Int. Cl.  
**C07K 16/28** ( 2006.01 )  
**A61K 39/395** ( 2006.01 )  
**A61K 45/00** ( 2006.01 )  
**A61K 47/68** ( 2017.01 )  
**A61P 35/00** ( 2006.01 )  
**(87)** WO2022/042690  
**(31)** 202010888581.2 **(32)** 28.08.20 **(33)** CN  
**(43)** 03.03.2022  
**(72)** LU, Shuang; WANG, Yongqiang; GAN, Xin; CHEN, Fei; HE, Jinqiu; SHAO, Xiaohui; HU, Shaoping; ZHAO, Chuchu; ZHAO, Jiuqiao; RONG, Yiping  
**(74)** WRAYS PTY LTD
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- (71)** Heptares Therapeutics Limited  
**(11)** AU-A-2021330379  
**(21)** 2021330379 **(22)** 31.08.2021  
**(54)** GPR52 modulator compounds  
**(51)** Int. Cl.  
**C07D 401/04** ( 2006.01 )  
**A61K 31/55** ( 2006.01 )  
**A61P 25/18** ( 2006.01 )  
**C07D 405/14** ( 2006.01 )  
**C07D 491/04** ( 2006.01 )  
**(87)** WO2022/043714  
**(31)** 2013558.8 **(32)** 28.08.20 **(33)** GB  
**(43)** 03.03.2022  
**(72)** BUCKNELL, Sarah Joanne; WATSON, Stephen Paul; O'BRIEN, Michael Alistair  
**(74)** FB Rice Pty Ltd
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- (71)** Heracles Holdings, Inc.  
**(11)** AU-A-2021340625  
**(21)** 2021340625 **(22)** 08.09.2021  
**(54)** System and method for ephemeral compute with payment card processing  
**(51)** Int. Cl.  
**G06Q 20/00** ( 2012.01 )  
**(87)** WO2022/055939  
**(31)** 63/076,220 **(32)** 09.09.20 **(33)** US  
**(43)** 17.03.2022  
**(72)** GHANI, Usman; NANJAPPA, Almaz; KHAN, Sadi  
**(74)** Pizzseys Patent and Trade Mark Attorneys Pty Ltd
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- (71)** HGWIT Pty Ltd  
**(11)** AU-A-2021342844  
**(21)** 2021342844 **(22)** 16.09.2021  
**(54)** Topical aqueous sanitizer formulation  
**(51)** Int. Cl.  
**A61K 31/14** ( 2006.01 )  
**A01N 33/12** ( 2006.01 )
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- A01N 65/12** ( 2009.01 )  
**A01N 65/28** ( 2009.01 )  
**A61K 8/41** ( 2006.01 )  
**A61K 8/9789** ( 2017.01 )  
**A61K 36/28** ( 2006.01 )  
**A61K 36/61** ( 2006.01 )  
**A61L 2/18** ( 2006.01 )  
**A61P 31/02** ( 2006.01 )  
**A61P 31/04** ( 2006.01 )  
**A61P 31/14** ( 2006.01 )  
**A61Q 17/00** ( 2006.01 )  
**(87)** WO2022/056588  
**(31)** 2020903343 **(32)** 18.09.20 **(33)** AU  
**(43)** 24.03.2022  
**(72)** MACDOUGALD, Ross  
**(74)** FB Rice Pty Ltd
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- (71)** Hill's Pet Nutrition, Inc.  
**(11)** AU-A-2021349773  
**(21)** 2021349773 **(22)** 30.07.2021  
**(54)** System and method for monitoring motion of an animal  
**(51)** Int. Cl.  
**A01K 29/00** ( 2006.01 )  
**(87)** WO2022/066282  
**(31)** 63/082,241 **(32)** 23.09.20 **(33)** US  
**(43)** 31.03.2022  
**(72)** WERNIMONT, Susan; THOMPSON, Robin  
**(74)** FOUNDRY INTELLECTUAL PROPERTY PTY LTD
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- (71)** Hitachi, Ltd.  
**(11)** AU-A-2021340367  
**(21)** 2021340367 **(22)** 25.08.2021  
**(54)** Operation plan change support device, determination model creation device, determination model creation program, and train operation management system  
**(51)** Int. Cl.  
**B61L 27/00** ( 2022.01 )  
**(87)** WO2022/054585  
**(31)** 2020-152621 **(32)** 11.09.20 **(33)** JP  
**(43)** 17.03.2022  
**(72)** MINAKAWA, Tsuyoshi; MAEKAWA, Yuki; UEMATSU, Ryota; YAMASHITA, Yuko; ISHIDO, Yumiko; KOBAYASHI, Yuichi  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** Hitachi Energy Switzerland AG  
**(11)** AU-A-2021350474  
**(21)** 2021350474 **(22)** 28.09.2021  
**(54)** Distribution power system fault control apparatus and method  
**(51)** Int. Cl.  
**H02J 3/26** ( 2006.01 )  
**H02J 3/00** ( 2006.01 )  
**H02J 3/16** ( 2006.01 )  
**H02J 3/38** ( 2006.01 )  
**H02J 3/32** ( 2006.01 )  
**(87)** WO2022/064073  
**(31)** 17/034,912 **(32)** 28.09.20 **(33)** US  
**(43)** 31.03.2022  
**(72)** CINTUGLU, Mehmet H.; ISHCHENKO, Dmitry  
**(74)** FB Rice Pty Ltd

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<p>(71) Hua Medicine (Shanghai) Ltd.                      (11) AU-A-2021332819                      (21) 2021332819 (22) 23.08.2021                      (54) Preparation of substituted acrylate compound                      (51) Int. Cl.  <i>C07C 43/215</i> ( 2006.01 )  <i>C07C 69/618</i> ( 2006.01 )  <i>C07C 69/736</i> ( 2006.01 )                      (87) WO2022/042482                      (31) 202010856857.9 (32) 24.08.20 (33) CN                      (43) 03.03.2022                      (72) SHE, Jin; CHEN, Li; LV, Guanghua; JIN, Xiang; XIA, Lizhen; LI, Jun                      (74) FB Rice Pty Ltd</p>	<p>(71) Huawei Technologies Co., Ltd.                      (11) AU-A-2021429146                      (21) 2021429146 (22) 23.02.2021                      (54) Method and apparatus for link operation of multi-link device                      (51) Int. Cl.  <i>H04W 88/08</i> ( 2009.01 )  <i>H04W 76/15</i> ( 2018.01 )  <i>H04W 8/00</i> ( 2009.01 )  <i>H04W 48/12</i> ( 2009.01 )  <i>H04W 48/14</i> ( 2009.01 )  <i>H04W 48/16</i> ( 2009.01 )  <i>H04W 52/02</i> ( 2009.01 )  <i>H04W 74/08</i> ( 2009.01 )  <i>H04W 84/12</i> ( 2009.01 )  <i>H04W 88/06</i> ( 2009.01 )                      (87) WO2022/179675                      (43) 01.09.2022                      (72) SHILO, Shimon                      (74) PHILLIPS ORMONDE FITZPATRICK</p>	<p>(43) 17.03.2022                      (72) ZIEGELAAR, Brian; REDLICH, Garry                      (74) Davies Collison Cave Pty Ltd</p>
<p>(71) Huawei Technologies Co., Ltd.                      (11) AU-A-2021323868                      (21) 2021323868 (22) 13.08.2021                      (54) Key BSS parameter management method suitable for multiple links, and related device                      (51) Int. Cl.  <i>H04W 24/02</i> ( 2009.01 )                      (87) WO2022/033592                      (31) 202010821468.2 (32) 14.08.20 (33) CN                      (43) 17.02.2022                      (72) GAN, Ming; YU, Jian; LI, Yunbo; GUO, Yuchen; YANG, Xun                      (74) PHILLIPS ORMONDE FITZPATRICK</p>	<p>(71) Hunter Douglas Inc.                      (11) AU-A-2021336233                      (21) 2021336233 (22) 20.08.2021                      (54) Roller shade for an architectural structure with top-down bottom-up functionality                      (51) Int. Cl.  <i>E06B 9/42</i> ( 2006.01 )  <i>E06B 9/64</i> ( 2006.01 )  <i>E06B 9/66</i> ( 2006.01 )                      (87) WO2022/051110                      (31) 63/073,656 (32) 02.09.20 (33) US                      (43) 10.03.2022                      (72) WINSOR, Thaddeus Luke; SWISZCZ, Paul G.                      (74) Spruson &amp; Ferguson</p>	<p>(71) Inbiose N.V.                      (11) AU-A-2021324068                      (21) 2021324068 (22) 10.08.2021                      (54) Production of an oligosaccharide mixture by a cell                      (51) Int. Cl.  <i>C12P 19/04</i> ( 2006.01 )  <i>C12P 19/18</i> ( 2006.01 )                      (87) WO2022/034067                      (31) 20190198.0 (32) 10.08.20 (33) EP                      20190200.4 10.08.20 EP                      20190201.2 10.08.20 EP                      20190202.0 10.08.20 EP                      20190203.8 10.08.20 EP                      20190204.6 10.08.20 EP                      20190205.3 10.08.20 EP                      20190206.1 10.08.20 EP                      20190208.7 10.08.20 EP                      21186202.4 16.07.21 EP                      21168997.1 16.04.21 EP                      EP21186203 16.07.21 EP                      20190207.9 10.08.20 EP                      (43) 17.02.2022                      (72) AESAERT, Sofie; BEAUPREZ, Jorri; COUSSEMENT, Pieter; DE-COENE, Thomas; LANNOO, Nausicaä; PETERS, Gert; VANDEWALLE, Kristof; VERCAUTEREN, Annelies                      (74) Pearce IP Pty Ltd</p>
<p>(71) Huawei Technologies Co., Ltd.                      (11) AU-A-2021329841                      (21) 2021329841 (22) 19.08.2021                      (54) Uplink parameter indication method for PPDU and related device                      (51) Int. Cl.  <i>H04W 48/16</i> ( 2009.01 )  <i>H04W 72/12</i> ( 2009.01 )                      (87) WO2022/037657                      (31) 202010852462.1 (32) 21.08.20 (33) CN                      (43) 24.02.2022                      (72) YU, Jian                      (74) PHILLIPS ORMONDE FITZPATRICK</p>	<p>(71) HUSQVARNA AB                      (11) AU-A-2020469635                      (21) 2020469635 (22) 21.10.2020                      (54) LOCKING DEVICE WITH FORCED UNPLUGGING OF CUTTING DECK                      (51) Int. Cl.  <i>A01D 34/82</i> ( 2006.01 )  <i>A01D 75/20</i> ( 2006.01 )  <i>A01D 34/64</i> ( 2006.01 )  <i>A01D 34/66</i> ( 2006.01 )  <i>A01D 34/78</i> ( 2006.01 )                      (87) WO2022/064267                      (31) 2051104-4 (32) 23.09.20 (33) SE                      (43) 31.03.2022                      (72) NORDQUIST, Dennis                      (74) Pizzey's Patent and Trade Mark Attorneys Pty Ltd</p>	<p>(71) Indian Institute of Technology Madras (IIT Madras)                      (11) AU-A-2021331844                      (21) 2021331844 (22) 30.08.2021                      (54) Fiber optic measurement device                      (51) Int. Cl.  <i>G01N 21/17</i> ( 2006.01 )  <i>G01N 21/75</i> ( 2006.01 )  <i>G02B 6/10</i> ( 2006.01 )                      (87) WO2022/044051                      (31) 202041037222 (32) 28.08.20 (33) IN                      (43) 03.03.2022                      (72) SWAMY, Lakshmana Vv; SAI, Raghavendra                      (74) Spruson &amp; Ferguson</p>
<p>(71) Huawei Technologies Co., Ltd.                      (11) AU-A-2021413193                      (21) 2021413193 (22) 23.12.2021                      (54) Method and apparatus for reducing a peak to average power ratio in the transmission of physical layer protocol data units                      (51) Int. Cl.  <i>H04L 27/26</i> ( 2006.01 )                      (87) WO2022/143433                      (31) PCT/ CN2020/141894 (32) 31.12.20 (33) CN                      PCT/ 29.06.21 CN                      CN2021/102908                      (43) 07.07.2022                      (72) SHILO, Shimon; REDLICH, Oded; TS-ODIK, Genadiy; YU, Jian; GAN, Ming; MELZER, Ezer; EZRI, Doron; LEVIN-BOOK, Yoav; HU, Mengshi                      (74) PHILLIPS ORMONDE FITZPATRICK</p>	<p>(71) Implicit Bioscience Limited                      (11) AU-A-2021339468                      (21) 2021339468 (22) 10.09.2021                      (54) Therapeutic methods and agents for the treatment of myocardial infarction                      (51) Int. Cl.  <i>A61K 39/395</i> ( 2006.01 )  <i>A61P 9/10</i> ( 2006.01 )  <i>C07K 16/28</i> ( 2006.01 )                      (87) WO2022/051814                      (31) 2020903245 (32) 10.09.20 (33) AU</p>	<p>(71) Invacare Corporation                      (11) AU-A-2021310289                      (21) 2021310289 (22) 15.07.2021                      (54) System and method for concentrating gas                      (51) Int. Cl.  <i>A61M 16/00</i> ( 2006.01 )  <i>A61M 16/10</i> ( 2006.01 )  <i>B01D 53/047</i> ( 2006.01 )  <i>B01D 53/30</i> ( 2006.01 )                      (87) WO2022/015909                      (31) 63/052,533 (32) 16.07.20 (33) US                      (43) 20.01.2022                      (72) BUDINGER, Michael J.; STARKEY, Kevin R.                      (74) Madderns Pty Ltd</p>

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- (71) Jade Bird Display (Shanghai) Limited  
(11) AU-A-2021320057  
(21) 2021320057 (22) 03.08.2021  
(54) Scan needle and scan display system including same  
(51) Int. Cl.  
G02B 26/10 ( 2006.01 )  
G09G 3/20 ( 2006.01 )  
G09G 3/32 ( 2016.01 )  
(87) WO2022/029630  
(31) 16/985,341 (32) 05.08.20 (33) US  
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(43) 10.02.2022  
(72) XU, Qunchao; LI, Qiming  
(74) FB Rice Pty Ltd
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- (71) Janssen Biotech, Inc.  
(11) AU-A-2021315081  
(21) 2021315081 (22) 30.07.2021  
(54) Method of treating psoriasis in pediatric subjects with anti-IL12/IL23 antibody  
(51) Int. Cl.  
A61K 39/395 ( 2006.01 )  
A61P 17/06 ( 2006.01 )  
C07K 16/24 ( 2006.01 )  
(87) WO2022/024065  
(31) 63/058,966 (32) 30.07.20 (33) US  
(43) 03.02.2022  
(72) HSU, Ming-Chun; LI, Shu; RANDAZZO, Bruce; SONG, Kun; ZHU, Yaowei  
(74) Spruson & Ferguson
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- (71) Janssen Biotech, Inc.  
(11) AU-A-2021317111  
(21) 2021317111 (22) 29.07.2021  
(54) Proteins comprising HLA-G antigen binding domains and their uses  
(51) Int. Cl.  
A61K 39/395 ( 2006.01 )  
A61K 39/00 ( 2006.01 )  
A61P 35/00 ( 2006.01 )  
C07K 16/28 ( 2006.01 )  
C07K 16/46 ( 2006.01 )  
(87) WO2022/024024  
(31) 63/057,960 (32) 29.07.20 (33) US  
(43) 03.02.2022  
(72) OBERMAJER, Natasa; ZWOLAK, Adam; LAQUERRE, Sylvie; BREHMER, Dirk; DE LANGE, Desiree; HÄSLER, Julien; VERSMISSEN, Shana; PETLEY, Theodore D.; VAN DE VEN, Kelly; YI, Fang; SINGH, Sanjaya  
(74) Spruson & Ferguson
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- (71) Jazz Pharmaceuticals Ireland Limited  
(11) AU-A-2021314955  
(21) 2021314955 (22) 28.07.2021  
(54) Fused bicyclic Raf inhibitors and methods for use thereof  
(51) Int. Cl.  
A61P 35/00 ( 2006.01 )  
A61K 31/4178 ( 2006.01 )  
A61K 31/4375 ( 2006.01 )  
A61K 31/4439 ( 2006.01 )  
C07D 405/14 ( 2006.01 )
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- (71) Kimberly-Clark Worldwide, Inc.  
(11) AU-A-2021325832  
(21) 2021325832 (22) 29.07.2021  
(54) Modified thermoplastic polyurethanes and methods of extruding same  
(51) Int. Cl.  
C08G 18/83 ( 2006.01 )  
C08F 220/32 ( 2006.01 )  
C08F 299/06 ( 2006.01 )
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- (71) JangSu XCMG Construction Machinery Research Institute Ltd.  
(11) AU-A-2021426704  
(21) 2021426704 (22) 28.10.2021  
(54) Map editing device and method and map updating system for unmanned transport system for surface mines  
(51) Int. Cl.  
G01C 21/32 ( 2006.01 )  
(31) 202111085405.6 (32) 16.09.21 (33) CN  
(43) 30.03.2023  
(72) YANG, Chao; AI, Yunfeng; ZHOU, Changcheng; WANG, Feiyue  
(74) Madderns Pty Ltd
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- (71) Karl Storz SE & Co. KG  
(11) AU-A-2021337847  
(21) 2021337847 (22) 31.08.2021  
(54) Devices, systems, and methods for identifying unexamined regions during a medical procedure  
(51) Int. Cl.  
G16H 20/40 ( 2018.01 )  
G16H 30/40 ( 2018.01 )  
G16H 50/50 ( 2018.01 )  
(87) WO2022/049489  
(31) 17/012,974 (32) 04.09.20 (33) US  
(43) 10.03.2022  
(72) KYPEROUNTAS, Marios  
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- (71) Kimberly-Clark Worldwide, Inc.  
(11) AU-A-2021323422  
(21) 2021323422 (22) 10.08.2021  
(54) Dispenser systems  
(51) Int. Cl.  
B65H 75/18 ( 2006.01 )  
A47K 10/16 ( 2006.01 )  
A47K 10/18 ( 2006.01 )  
(87) WO2022/034312  
(31) 2008403 (32) 10.08.20 (33) FR  
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(72) WOZNY, Loïc; VAN DEN BRINK, Willem Johan; GREEN, Jonathan  
(74) Spruson & Ferguson
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(11) AU-A-2021326028  
(21) 2021326028 (22) 10.08.2021  
(54) Dispenser systems  
(51) Int. Cl.  
A47K 10/16 ( 2006.01 )  
B65H 75/18 ( 2006.01 )  
(87) WO2022/034315  
(31) 2008404 (32) 10.08.20 (33) FR  
2017786.1 11.11.20 GB  
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(72) WOZNY, Loïc  
(74) Spruson & Ferguson
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- (71) KIMBERLY-CLARK WORLDWIDE, INC.  
(11) AU-A-2020464640  
(21) 2020464640 (22) 25.08.2020  
(54) ABSORBENT STRUCTURES AND METHODS FOR MANUFACTURING ABSORBENT STRUCTURES  
(51) Int. Cl.  
A61F 13/531 ( 2006.01 )  
A61F 13/539 ( 2006.01 )  
(87) WO2022/046033  
(43) 03.03.2022  
(72) SCHOON, Bradley, W.; LABASH, Daniel, T.; BEITZ, Mark, J.; BIGGS, David, G.; BOWEN, Kate, T.; GRAVERSON, Michelle, L.; BAKER, Andrew, T.  
(74) Spruson & Ferguson
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- (71) Lee, K.  
(11) AU-A-2022321155  
(21) 2022321155 (22) 19.07.2022  
(54) Excavator bucket  
(51) Int. Cl.  
E02F 3/40 ( 2006.01 )  
(87) WO2023/013925  
(31) 10-2021-0103171 (32) 05.08.21 (33) KR  
(43) 09.02.2023  
(72) LEE, Kang Jun  
(74) Spruson & Ferguson
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- (71) LG ELECTRONICS INC.  
(11) AU-A-2021335817  
(21) 2021335817 (22) 03.09.2021  
(54) LAUNDRY TREATING APPARATUS  
(51) Int. Cl.  
D06F 58/06 ( 2006.01 )  
D06F 58/08 ( 2006.01 )  
D06F 58/26 ( 2006.01 )  
(87) WO2022/050766  
(31) 10-2020-0113175 (32) 04.09.20 (33) KR  
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 (74) Dentons Patent Attorneys Australasia Limited

(71) LG ELECTRONICS INC.  
 (11) AU-A-2021336000  
 (21) 2021336000 (22) 03.09.2021  
 (54) AN APPARATUS FOR TREATING LAUNDRY AND CONTROL METHOD THEREOF  
 (51) Int. Cl.  
*D06F 58/46* ( 2020.01 )  
*D06F 33/70* ( 2020.01 )  
*D06F 34/26* ( 2020.01 )  
*D06F 58/08* ( 2006.01 )  
*D06F 58/20* ( 2006.01 )  
*D06F 58/40* ( 2020.01 )  
 (87) WO2022/050755  
 (31) 10-2020-0113074 (32) 04.09.20 (33) KR  
 (43) 10.03.2022  
 (72) KIM, Minji; LEE, Hyuksoo; LEE, Yeonju; KIM, Hyeonjoong  
 (74) Dentons Patent Attorneys Australasia Limited

(71) LG ELECTRONICS INC.  
 (11) AU-A-2021337477  
 (21) 2021337477 (22) 03.09.2021  
 (54) APPARATUS FOR TREATING LAUNDRY  
 (51) Int. Cl.  
*D06F 37/26* ( 2006.01 )  
*D06F 37/22* ( 2006.01 )  
*D06F 37/30* ( 2020.01 )  
*D06F 37/40* ( 2006.01 )  
*D06F 39/04* ( 2006.01 )  
*D06F 58/08* ( 2006.01 )  
*D06F 58/26* ( 2006.01 )  
*H02K 1/16* ( 2006.01 )  
*H02K 1/27* ( 2022.01 )  
*H02K 7/116* ( 2006.01 )  
 (87) WO2022/050754  
 (31) 10-2020-0113075 (32) 04.09.20 (33) KR  
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 (43) 10.03.2022

(72) CHO, Hongjun; KIM, Hyojun; KIM, Hyeonjoong; KWON, Oshin; HWANG, Yangguk; LEE, Hyuksoo; LEE, Yeonju  
 (74) Dentons Patent Attorneys Australasia Limited

(71) Lithic Industries Holding Co.  
 (11) AU-A-2021336999  
 (21) 2021336999 (22) 26.08.2021  
 (54) Polymer masonry unit and method therefor  
 (51) Int. Cl.  
*E04F 13/073* ( 2006.01 )  
*E04F 13/08* ( 2006.01 )  
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*G06Q 40/02* ( 2012.01 )  
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*A61K 35/28* ( 2015.01 )  
*A61P 25/28* ( 2006.01 )  
*G01N 33/68* ( 2006.01 )  
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*H01L 31/0687* ( 2012.01 )  
*H01L 31/0216* ( 2014.01 )  
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 (72) LI, Zifeng; WU, Zhao; XU, Chen  
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 (21) 2021336102 (22) 23.08.2021  
 (54) STEAM GENERATOR  
 (51) Int. Cl.  
*F22B 29/06* ( 2006.01 )  
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 (54) Nitrated psilocybin derivatives and use thereof for modulating 5-HT  
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*A61K 31/4045* ( 2006.01 )  
*A61P 25/00* ( 2006.01 )  
*C12N 15/52* ( 2006.01 )  
*C12N 15/54* ( 2006.01 )  
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*C07F 9/572* ( 2006.01 )  
*C12N 9/00* ( 2006.01 )  
*C12N 9/02* ( 2006.01 )  
*C12N 9/10* ( 2006.01 )  
*C12N 9/12* ( 2006.01 )  
*C12N 9/88* ( 2006.01 )  
*C12N 15/52* ( 2006.01 )  
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*C12N 15/60* ( 2006.01 )  
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*C12N 9/22* ( 2006.01 )  
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 (72) BAKHOUM, Samuel; LI, Jun  
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 (51) Int. Cl.  
**G01N 21/66** ( 2006.01 )  
**B01L 3/00** ( 2006.01 )  
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**B22F 1/00** ( 2022.01 )  
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**A01F 15/00** ( 2006.01 )  
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**C07D 471/04** ( 2006.01 )  
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**G01N 27/62** ( 2021.01 )  
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**H01J 49/40** ( 2006.01 )  
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- (71) Montefiore Medical Center  
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 (54) Dendritic cell activating therapy as an adjunct to radiation therapy  
 (51) Int. Cl.  
**A61K 35/15** ( 2015.01 )  
**A61K 45/06** ( 2006.01 )  
**A61N 7/02** ( 2006.01 )  
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 (54) Method for the control of insects in stored products and structures  
 (51) Int. Cl.  
**A01N 59/00** ( 2006.01 )  
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**A01P 7/04** ( 2006.01 )  
**A23B 9/30** ( 2006.01 )  
**A23L 3/358** ( 2006.01 )  
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 (21) 2021338017 (22) 19.08.2021  
 (54) A method for controlling field insects  
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**A01N 59/00** ( 2006.01 )  
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 (54) Apparatus for delivering customized stimulation waveforms  
 (51) Int. Cl.  
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 (72) CAMERON, Nicholas; AZOULAY, Danielle  
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 (21) 2020460952 (22) 28.07.2020  
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 (54) Check valve with integrated pressure relief valve

(51) Int. Cl.  
**F16K 15/06** ( 2006.01 )  
**E03C 1/04** ( 2006.01 )  
**F16K 11/00** ( 2006.01 )  
**F16K 17/04** ( 2006.01 )  
**F16K 17/196** ( 2006.01 )  
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 (72) FANGMEIER, Martin  
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 (54) NBP-14 for treating Alzheimer's associated with Down's syndrome  
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**A61K 38/46** ( 2006.01 )  
**A61P 25/28** ( 2006.01 )  
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 (72) GREENFIELD, Susan  
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(71) NewSouth Innovations Pty Limited; The University of Sydney  
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 (51) Int. Cl.  
**H04L 9/06** ( 2006.01 )  
**G06F 16/27** ( 2019.01 )  
**G06F 21/30** ( 2013.01 )  
**G06F 21/62** ( 2013.01 )  
**G06F 21/64** ( 2013.01 )  
**G06Q 10/08** ( 2012.01 )  
**G06Q 20/40** ( 2012.01 )  
**H04L 9/32** ( 2006.01 )  
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 (54) Distributed locking tracker  
 (51) Int. Cl.  
**H02S 20/32** ( 2014.01 )  
**F16D 11/00** ( 2006.01 )  
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**F24S 30/42** ( 2018.01 )  
**F24S 50/20** ( 2018.01 )  
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 (72) MORIN, Jacob Mark; SABLE, Abhimanyu; DUBE, Pradeep Kumar  
 (74) Clark Intellectual Property Pty Ltd

(71) Nippon Steel Corporation; Vallourec Oil and Gas France  
 (11) AU-A-2021327342  
 (21) 2021327342 (22) 16.08.2021  
 (54) Metal pipe for oil well and method of manufacturing metal pipe for oil well  
 (51) Int. Cl.  
**F16L 15/04** ( 2006.01 )  
**C08K 5/3417** ( 2006.01 )  
**C08L 101/00** ( 2006.01 )  
**C10M 103/00** ( 2006.01 )  
**C10M 107/38** ( 2006.01 )  
**C10M 139/00** ( 2006.01 )  
**C10N 10/04** ( 2006.01 )  
**C10N 10/08** ( 2006.01 )  
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**C10N 10/12** ( 2006.01 )  
**C10N 30/00** ( 2006.01 )  
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**C23C 2/06** ( 2006.01 )  
**B32B 15/01** ( 2006.01 )  
**C22C 18/00** ( 2006.01 )  
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**C22C 21/10** ( 2006.01 )  
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 (51) Int. Cl.  
 G09C 1/00 ( 2006.01 )  
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- (71) Nutrien Ag Solutions, Inc.  
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 G06F 17/18 ( 2006.01 )  
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 (54) Systems and methods for data analytics for an agronomy community  
 (51) Int. Cl.  
 A01B 79/00 ( 2006.01 )  
 G06Q 10/00 ( 2012.01 )  
 (87) WO2022/047009  
 (31) 63/071,706 (32) 28.08.20 (33) US  
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 (72) MILLER, Paul S.; MORSE, Patrick A.; AYERS, Andrew; O'NEAL, Jashua  
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 (54) Method for retrieving a pipeline  
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 F16L 1/16 ( 2006.01 )  
 F16L 1/23 ( 2006.01 )  
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 (72) O'LEARY, Darren  
 (74) O'Sullivan's Patent and Trade Mark Attorneys Pty Ltd
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- (71) Ocado Innovation Limited  
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 (51) Int. Cl.  
 B65G 1/04 ( 2006.01 )  
 B66C 7/08 ( 2006.01 )  
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 (51) Int. Cl.  
 F24S 10/25 ( 2018.01 )  
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 (54) MODIFIED ANTIBODY AND METHOD FOR MANUFACTURING SAME  
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 F25D 17/02 ( 2006.01 )  
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 H01M 8/1067 ( 2016.01 )  
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 A61K 47/44 ( 2017.01 )  
 A61P 5/28 ( 2006.01 )  
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 (51) Int. Cl.  
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 (51) Int. Cl.  
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 (54) Process for recovering values from batteries  
 (51) Int. Cl.  
**H01M 10/54** ( 2006.01 )  
**B02C 23/38** ( 2006.01 )  
**B03B 9/06** ( 2006.01 )  
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 (51) Int. Cl.  
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**A01G 24/15** ( 2018.01 )  
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**A01N 25/02** ( 2006.01 )  
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 (51) Int. Cl.  
**A61K 38/00** ( 2006.01 )  
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**(54)** Message processing method, apparatus, device and storage medium  
**(51)** Int. Cl.  
**G06F 16/26** ( 2019.01 )  
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**(21)** 2021240186 **(22)** 26.09.2021  
**(54)** Status switching method and apparatus, edge computing device and computer storage medium  
**(51)** Int. Cl.  
**A63F 13/45** ( 2014.01 )  
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**(54)** Configuration updating method and apparatus, device and storage medium  
**(51)** Int. Cl.  
**G06F 3/00** ( 2006.01 )  
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**(11)** AU-A-2021240235  
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**(54)** Data security processing method and apparatus, device and storage medium  
**(51)** Int. Cl.  
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**C07D 285/00** ( 2006.01 )  
**A61P 25/02** ( 2006.01 )  
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**(54)** Automated retail store and system  
**(51)** Int. Cl.  
**G06Q 10/08** ( 2023.01 )  
**G06F 21/31** ( 2013.01 )  
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**(54)** Training apparatus  
**(51)** Int. Cl.  
**A61H 15/00** ( 2006.01 )  
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**(11)** AU-A-2021320763  
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**(54)** Compositions for modulating splicing  
**(51)** Int. Cl.  
**A61K 31/435** ( 2006.01 )  
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**C07D 253/065** ( 2006.01 )  
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**(54)** Bed having features for automatic sensing of illness states  
**(51)** Int. Cl.  
**A61B 5/00** ( 2006.01 )  
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**(54)** Insert for use in a knee prosthesis  
**(51)** Int. Cl.  
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**(11)** AU-A-2021366320  
**(21)** 2021366320 **(22)** 22.10.2021  
**(54)** Enzymatic recycling of polyurethanes by cutinases  
**(51)** Int. Cl.  
**C08J 11/10** ( 2006.01 )  
**C12N 9/18** ( 2006.01 )  
**C08L 75/04** ( 2006.01 )  
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**(54)** Plant based soft serve or frozen dessert made from cereal and legumes  
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**A23G 9/42** ( 2006.01 )  
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**A23G 9/38** ( 2006.01 )  
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**(11)** AU-A-2021348262  
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(72) GILLESPIE, Rohan  
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(54) Antimicrobial peptidomimetics  
(51) Int. Cl.  
**C07K 7/08** ( 2006.01 )  
**A61P 31/02** ( 2006.01 )  
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(54) Electrostatic spray dryer apparatus and method  
(51) Int. Cl.  
**F26B 3/14** ( 2006.01 )  
**B01D 1/16** ( 2006.01 )  
**F26B 21/04** ( 2006.01 )  
**F26B 21/08** ( 2006.01 )  
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(72) SZCZAP, Joseph; BARNES, Christopher  
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- (51) Int. Cl.  
**A61K 31/551** ( 2006.01 )  
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**A61K 9/70** ( 2006.01 )  
**A61K 31/5513** ( 2006.01 )  
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 C07D 263/60 ( 2006.01 )  
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 (31) 2016925.6 (32) 26.10.20 (33) GB  
 (43) 05.05.2022  
 (72) UTTING, David John  
 (74) FOUNDRY INTELLECTUAL PROPERTY PTY LTD
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- (71) Valo Therapeutics Oy  
 (11) AU-A-2021336066  
 (21) 2021336066 (22) 27.08.2021  
 (54) Modified mycobacterium bovis vaccines  
 (51) Int. Cl.  
 A61K 39/00 ( 2006.01 )  
 A61K 39/385 ( 2006.01 )  
 A61K 39/395 ( 2006.01 )  
 A61K 47/64 ( 2017.01 )  
 A61P 35/00 ( 2006.01 )  
 C07K 14/77 ( 2006.01 )  
 (87) WO2022/049001  
 (31) 2013824.4 (32) 03.09.20 (33) GB  
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 (43) 10.03.2022  
 (72) YLÖSMÄKI, Erko; FUSCIELLO, Manlio; MARTINS, Beatriz; FEOLA, Sara; CHIARO, Jacopo; CERULLO, Vincenzo  
 (74) Blue Penguin IP Ltd
- 
- (71) VICTAMAX LIMITED  
 (11) AU-A-2021343565  
 (21) 2021343565 (22) 15.09.2021  
 (54) Plastic resin modifier compositions and methods for preparing thermoplastic materials and articles using the same  
 (51) Int. Cl.  
 C08L 23/10 ( 2006.01 )  
 C08F 222/06 ( 2006.01 )  
 C08J 3/22 ( 2006.01 )  
 C08K 5/06 ( 2006.01 )  
 C08K 5/1515 ( 2006.01 )  
 C08L 25/08 ( 2006.01 )  
 (87) WO2022/056586  
 (31) 2020903294 (32) 15.09.20 (33) AU  
 (43) 24.03.2022  
 (72) LAU, Yiu Ting Richard; YIP, Cheuk Hung; YAN, Zhao Jia Robert  
 (74) MINTER ELLISON
- 
- (71) WaveTamer LLC  
 (11) AU-A-2021330667  
 (21) 2021330667 (22) 19.08.2021  
 (54) Gyroscopic boat roll stabilizer with motor cooling  
 (51) Int. Cl.  
 B63B 39/04 ( 2006.01 )  
 F16C 37/00 ( 2006.01 )  
 F16F 15/315 ( 2006.01 )  
 G01C 19/02 ( 2006.01 )  
 H02K 7/02 ( 2006.01 )  
 (87) WO2022/046508  
 (31) 63/070,494 (32) 26.08.20 (33) US  
 (43) 03.03.2022  
 (72) SOHACKI, Brian John; POWERS, Aaron; SMITH, Grady  
 (74) Spruson & Ferguson
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- (71) WestRock Packaging Systems, LLC  
 (11) AU-A-2021333652  
 (21) 2021333652 (22) 24.08.2021  
 (54) Article carrier and blank therefor  
 (51) Int. Cl.  
 B65D 71/46 ( 2006.01 )  
 (87) WO2022/046786  
 (31) 63/070,662 (32) 26.08.20 (33) US  
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 63/190,891 20.05.21 US  
 (43) 03.03.2022  
 (72) MERZEAU, Julien; THEROND, Alexandre; TEILLOL, Nicolas; DEMANGE, Arnaud; BALL, Nathaniel B.; ZACHERLE, Matthew E.  
 (74) Spruson & Ferguson
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- (71) Yale University; GENNAO BIO, INC.  
 (11) AU-A-2021331785  
 (21) 2021331785 (22) 31.08.2021

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- (54) Compositions and methods for delivery of nucleic acids to cells
- (51) Int. Cl.  
**A61K 39/395** ( 2006.01 )  
**A61K 48/00** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**C07K 16/14** ( 2006.01 )  
**C07K 16/44** ( 2006.01 )  
**C12N 15/117** ( 2010.01 )  
**C12N 15/87** ( 2006.01 )
- (87) WO2022/047424  
(31) 63/072,810 (32) 31.08.20 (33) US  
(43) 03.03.2022
- (72) QUIJANO, Elias; GLAZER, Peter; TURNER, Bruce C.; TURCHICK, Audrey; SALTZMAN, W. Mark
- (74) Pizzeyes Patent and Trade Mark Attorneys Pty Ltd
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- (71) ZIDAN MEDICAL., INC.  
(11) AU-A-2021330504  
(21) 2021330504 (22) 16.08.2021  
(54) Systems and devices for treating lung tumors
- (51) Int. Cl.  
**A61B 18/14** ( 2006.01 )
- (87) WO2022/046443  
(31) 63/071,805 (32) 28.08.20 (33) US  
(43) 03.03.2022
- (72) RAINA, Shashank; SABESAN, Shivkumar; GELFAND, Mark; TAIMISTO, Miriam
- (74) Spruson & Ferguson

- (71) Zeltiq Aesthetics, Inc.  
(11) AU-A-2021324991  
(21) 2021324991 (22) 13.08.2021  
(54) Multi-applicator system and method for body contouring
- (51) Int. Cl.  
**A61F 7/00** ( 2006.01 )  
**A61B 18/12** ( 2006.01 )
- (87) WO2022/036271  
(31) 63/065,946 (32) 14.08.20 (33) US  
(43) 17.02.2022
- (72) BAKER, Mark William; COAKLEY, Joseph; FRANGINEAS Jr., George; GAUTHIER, Russell Lee; GOMES, Roy Christopher; HEKE, Clive; KORDES, Kurt Arthur; MCCALL, Mark Allen; PENNYBACKER, William P.; ROOT, Austin; SAUNDERS, Ralph Edward; STIVERS, Teri L.; YEE, Peter
- (74) Davies Collison Cave Pty Ltd
- 
- (71) Zhongwei New Energy (Chengdu) Co., Ltd.  
(11) AU-A-2021385099  
(21) 2021385099 (22) 29.12.2021  
(54) Transparent conductive oxide film and heterojunction solar cell
- (51) Int. Cl.  
**H01L 31/18** ( 2006.01 )
- (31) 2021110805933 (32) 15.09.21 (33) CN  
(43) 30.03.2023
- (72) SHI, Jianhua; ZHANG, Haichuan; YUAN, Qiang; MENG, Chuncai; MENG, Fanying; LIU, Zhengxin; CHENG, Qiong; ZHOU, Hua; ZHOU, Dan
- (74) James & Wells Intellectual Property

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- (71) Zico, S.  
(11) AU-A-2020471946  
(21) 2020471946 (22) 15.10.2020  
(54) Hydrogen filled light garment to help resist the gravity
- (51) Int. Cl.  
**B64D 10/00** ( 2006.01 )  
**A41D 13/00** ( 2006.01 )
- (87) WO2022/079474  
(43) 21.04.2022
- (72) ZUO, Sue; GREEN, Jim
- (74) Sue Zuo

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<b>2020460256</b>	MGI Tech Co., Ltd.	<b>2021321883</b>	China Mobile Communication Co., Ltd Research Institute; China Mobile Communications Group Co., Ltd.
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<b>2020460960</b>	Techtronic Cordless GP	<b>2021322175</b>	Universitat de València
<b>2020462941</b>	CELLULOTECH INC	<b>2021322761</b>	Universitat de València
<b>2020464640</b>	KIMBERLY-CLARK WORLDWIDE, INC.	<b>2021322934</b>	BicycleTx Limited
<b>2020465743</b>	The Chugoku Electric Power Co., Inc.; OSAKI COOL-GEN CORPORATION; Electric Power Development Co., Ltd.	<b>2021323364</b>	SPEXIS AG; Universität Zürich
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<b>2020471657</b>	Halliburton Energy Services, Inc.	<b>2021323422</b>	Kimberly-Clark Worldwide, Inc.
<b>2020471946</b>	Zico, S.	<b>2021323430</b>	ODQA RENEWABLE ENERGY TECHNOLOGIES LIMITED
<b>2020472681</b>	NIPPON TELEGRAPH AND TELEPHONE CORPORATION	<b>2021323483</b>	UPL Limited
<b>2020481719</b>	Halliburton Energy Services, Inc.	<b>2021323868</b>	Huawei Technologies Co., Ltd.
<b>2020481932</b>	Halliburton Energy Services, Inc.	<b>2021323935</b>	Diraq Pty Ltd
<b>2021240185</b>	SenseTime International Pte. Ltd.	<b>2021323978</b>	Resource Conservation and Recycling Corporation Pty Ltd
<b>2021240186</b>	SenseTime International Pte. Ltd.	<b>2021324066</b>	TXP PHARMA AG
<b>2021240218</b>	SenseTime International Pte. Ltd.	<b>2021324068</b>	Inbiose N.V.
<b>2021240235</b>	SenseTime International Pte. Ltd.	<b>2021324116</b>	Ocado Innovation Limited
<b>2021310289</b>	Invacare Corporation	<b>2021324137</b>	Resource Conservation and Recycling Corporation Pty Ltd
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<b>2021315437</b>	Photon Vault, LLC	<b>2021325676</b>	The Board of Trustees of the University of Illinois
<b>2021315816</b>	Flat Planet Limited	<b>2021325832</b>	Kimberly-Clark Worldwide, Inc.
<b>2021315890</b>	OXFO CORPORATION	<b>2021326028</b>	Kimberly-Clark Worldwide, Inc.
<b>2021315935</b>	Cook Biotech Incorporated	<b>2021326709</b>	PHARMABCINE INC.
<b>2021315988</b>	Abiomed, Inc.	<b>2021327110</b>	CyPlus GmbH
<b>2021316042</b>	Minerva Biotechnologies Corporation	<b>2021327129</b>	UNIVERSITÄT BASEL
<b>2021316095</b>	Promerus, LLC; Georgia Tech Research Corporation	<b>2021327133</b>	Fred. Olsen Ocean Ltd.
<b>2021316427</b>	The European Union, represented by the European Commission	<b>2021327239</b>	ConocoPhillips Company
<b>2021317111</b>	Janssen Biotech, Inc.	<b>2021327307</b>	Purvis, M.
<b>2021317182</b>	Catalent U.K. Swindon Zydis Limited	<b>2021327342</b>	Nippon Steel Corporation; Vallourec Oil and Gas France
<b>2021317197</b>	Rothwell, V.	<b>2021327754</b>	Meso Scale Technologies, LLC.
<b>2021317327</b>	NewSouth Innovations Pty Limited; The University of Sydney	<b>2021328058</b>	MOBILion Systems, Inc.
<b>2021317747</b>	NBRYO PTY LTD	<b>2021328673</b>	SANOFI
<b>2021318104</b>	ENERGIA DE SEPTIEMBRE LLC	<b>2021328724</b>	UNIVERSITY COLLEGE CARDIFF CONSULTANTS LTD
<b>2021318155</b>	Alley, J.; Whitaker, J.; Gomes, G.	<b>2021329372</b>	ConocoPhillips Company
<b>2021318195</b>	Cook Biotech Incorporated	<b>2021329457</b>	SHANGHAI RUIHUKANG PHARMACEUTICAL PARTNERSHIP (LIMITED PARTNERSHIP)
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<b>2021318695</b>	Angel Group Co., Ltd.	<b>2021329589</b>	Tesnology Inc.
<b>2021318956</b>	Tidel Engineering, L.P.	<b>2021329841</b>	Huawei Technologies Co., Ltd.
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<b>2021319041</b>	Com'in	<b>2021330331</b>	Caterpillar Inc.
<b>2021319313</b>	Synthes GmbH	<b>2021330379</b>	Heptares Therapeutics Limited
<b>2021319597</b>	Beijing Innocare Pharma Tech Co., Ltd.	<b>2021330472</b>	Cummins Power Generation Inc.
<b>2021319613</b>	SPEXIS AG; Universität Zürich	<b>2021330504</b>	ZIDAN MEDICAL., INC.
<b>2021319956</b>	Excir Works Corp.	<b>2021330667</b>	WaveTamer LLC
<b>2021320057</b>	Jade Bird Display (Shanghai) Limited	<b>2021330835</b>	Gilead Sciences, Inc.
<b>2021320147</b>	CALCILYTIX THERAPEUTICS, INC.	<b>2021330948</b>	Amgen Inc.
<b>2021320333</b>	Fortis Therapeutics, Inc.	<b>2021330951</b>	The Regents of The University of Michigan
<b>2021320417</b>	Regeneron Pharmaceuticals, Inc.	<b>2021330965</b>	Ecolab USA Inc.
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<b>2021320639</b>	Cedars-Sinai Medical Center; FORTEM NEUROSCIENCES, INC.	<b>2021331681</b>	Metalchemy Limited
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<b>2021320883</b>	Montefiore Medical Center	<b>2021331815</b>	Calgon Carbon Corporation; Kuraray Co., Ltd.
<b>2021321154</b>	Brane Cognitives Pte. Ltd.	<b>2021331844</b>	Indian Institute of Technology Madras (IIT Madras)
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<b>2021321588</b>	Board of Regents, The University of Texas System	<b>2021332038</b>	Cummins Power Generation Inc.
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		<b>2021332228</b>	CANARY MEDICAL SWITZERLAND AG
		<b>2021332370</b>	LivePerson, Inc.



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2021332819	Hua Medicine (Shanghai) Ltd.	2021341628	Neuro-Bio Ltd
2021332926	Research Institute of Industrial Science & Technology; POSCO	2021341790	The Regents of the University of California
2021333225	Tarett Inc.; BERGHAUS, U.; Randall, G.; Morton-Finger, J.; Hanuschik, D.	2021341940	Catalog Technologies, Inc.
2021333448	DUNAMU INC.; LAMBDA256, CO., LTD	2021341944	Cytolmmune Therapeutics, Inc.
2021333577	Gilead Sciences, Inc.	2021342332	Ambient Carbon Methane Holding ApS
2021333652	WestRock Packaging Systems, LLC	2021342491	Abbott Diabetes Care Inc.
2021333772	Nutrien Ag Solutions, Inc.	2021342522	Longi Green Energy Technology Co., Ltd.
2021333916	Pfizer Inc.; Patel, S.; Wacnik, P.; Chappie, K.; Mather, R.; Tracey, B.; Serra, M.	2021342844	HGWIT Pty Ltd
2021333919	Bard Access Systems, Inc.	2021343023	CANON KABUSHIKI KAISHA
2021333925	Spraying Systems Co.	2021343247	DOMETIC SWEDEN AB
2021334332	Nalu Medical, Inc.	2021343383	Collagen Matrix, Inc.
2021334356	Adroit Surgical, LLC	2021343565	VICTAMAX LIMITED
2021334396	ResMed Pty Ltd	2021344320	Edwards Lifesciences Corporation
2021334406	Breville Pty Limited	2021344441	THOMSON, S.J.
2021334408	Technological Resources Pty. Limited	2021344973	DIRTSAT, INC.
2021335225	Corning Research & Development Corporation	2021345124	Amgen Inc.; Amgen Research (Munich) GmbH
2021335236	State Grid Shanghai Municipal Electric Power Company	2021345133	10x Genomics, Inc.
2021335278	Syngenta Crop Protection AG	2021345375	O'Leary, D.
2021335349	Boston Scientific Scimed, Inc.	2021346526	Boston Scientific Scimed, Inc.
2021335367	Murdoch University	2021347818	Smith & Nephew, Inc.; Smith & Nephew Orthopaedics AG; Smith & Nephew Asia Pacific Pte. Limited
2021335405	AMG Lithium GmbH	2021348066	TMRW LIFE SCIENCES, INC.
2021335412	TECFORLIME SA; CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS (CSIC)	2021348262	Southern Green Gas Limited
2021335817	LG ELECTRONICS INC.	2021348927	SISSEL INTERNATIONAL GMBH
2021336000	LG ELECTRONICS INC.	2021349185	FLOWERVE MANAGEMENT COMPANY
2021336066	Valo Therapeutics Oy	2021349196	CAREFUSION 303, INC.
2021336102	MACKWELL PERO & CO LIMITED	2021349773	Hill's Pet Nutrition, Inc.
2021336228	Boston Scientific Scimed, Inc.	2021349936	Starton Therapeutics, Inc.
2021336233	Hunter Douglas Inc.	2021350474	Hitachi Energy Switzerland AG
2021336259	Takeda Pharmaceutical Company Limited	2021351505	TMRW LIFE SCIENCES, INC.
2021336294	The Alfred E. Mann Foundation for Scientific Research	2021354823	DUALITY BIOLOGICS (SUZHOU) CO., LTD.
2021336667	MAGICMED INDUSTRIES INC.	2021356283	Alcon Inc.
2021336681	Massachusetts Institute of Technology	2021358025	Frito-Lay North America, Inc.
2021336788	The Trustees of Indiana University	2021358039	Arthrex, Inc.
2021336875	Google LLC	2021358423	Société des Produits Nestlé S. A.
2021336887	Memorial Sloan Kettering Cancer Center	2021360172	BOEHRINGER INGELHEIM INTERNATIONAL GMBH
2021336999	Lithic Industries Holding Co.	2021361060	Dana-Farber Cancer Institute, Inc.; NEOMORPH, INC.
2021337035	Two Cells Co., Ltd.	2021363219	Nippon Steel Corporation
2021337295	Casio Computer Co., Ltd.	2021366320	Société des Produits Nestlé S.A.
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2021337589	Amgen Inc.	2021387979	UKKO INC.
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2021338017	Murdoch University	2021392733	Sleep Number Corporation
2021338021	The University of Queensland	2021398579	NEC Corporation
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2021338384	Gilgamesh Pharmaceuticals, Inc.	2021429146	Huawei Technologies Co., Ltd.
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2021338017	<b><u>A23P 20 /-</u></b>	<b><u>A61F 2 /-</u></b>	2021328673	<b><u>A61L 24 /-</u></b>	<b><u>A61P 25 /-</u></b>
<b><u>A01N 33 /-</u></b>	2021358025	2021332228	2021336259	2021315935	2021319022
2021342844	<b><u>A23P 30 /-</u></b>	2021347818	2021341628	<b><u>A61L 27 /-</u></b>	2021320639
<b><u>A01N 37 /-</u></b>	2021315816	2021356283	2021343383	2021315935	2021329457
2020471946	<b><u>A24F 40 /-</u></b>	2021358039	2021314972	<b><u>A61L 9 /-</u></b>	2021330379
2021317197	2021315816	<b><u>A61F 7 /-</u></b>	2021315081	2021342332	2021336667
<b><u>A01N 43 /-</u></b>	<b><u>A41D 13 /-</u></b>	2021324991	2021317111	<b><u>A61M 1 /-</u></b>	2021337035
2021317197	2020471946	2021324991	2021320417	2021339062	2021338384
2021323483	<b><u>A47J 37 /-</u></b>	2021348927	2021321588	<b><u>A61M 15 /-</u></b>	2021340971
2021325676	2021334406	<b><u>A61H 15 /-</u></b>	2021327129	2021315816	2021341628
2021335278	<b><u>A47K 10 /-</u></b>	2021348927	2021330067	<b><u>A61M 16 /-</u></b>	2021360172
	2021323422	<b><u>A61H 7 /-</u></b>	2021331785	2021310289	<b><u>A61P 29 /-</u></b>
	2021326028	2021348927	2021336066	2021315890	2021320147
		<b><u>A61J 3 /-</u></b>	2021338364	2021334396	<b><u>A61P 3 /-</u></b>
		2021337526	2021339468		2021319022
		<b><u>A61K 31 /-</u></b>	2021341521		2021320147
		2021337526	2021341790		<b><u>A61P 31 /-</u></b>
		2021337526	2021345124		2021319613
		<b><u>A61K 45 /-</u></b>			
		2021314955			
		2021314972			
		2021317182			

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2021323364	<b><u>B01D 53 /-</u></b>		<b><u>B65H 75 /-</u></b>	<b><u>C07D 263 /-</u></b>	2021337466
2021330835		<b><u>B22F 9 /-</u></b>			2021338384
2021333577	2021310289		2021323422	2021322761	
2021342844	2021331815	2021331681	2021326028		<b><u>C07H 17 /-</u></b>
	2021338482	2021371051		<b><u>C07D 267 /-</u></b>	
<b><u>A61P 35 /-</u></b>	2021342332		<b><u>B66C 7 /-</u></b>		2021325676
	2021348262	<b><u>B32B 15 /-</u></b>		2021337589	
2021314955			2021324116		<b><u>C07K 14 /-</u></b>
2021314972	<b><u>B01D 61 /-</u></b>	2021363219		<b><u>C07D 285 /-</u></b>	2021313058
2021316042			<b><u>B82Y 5 /-</u></b>		2021316042
2021317111	2021332926	<b><u>B32B 27 /-</u></b>		2021329457	2021319613
2021319597			2021331681		2021321525
2021320333	<b><u>B01F 21 /-</u></b>	2021333225		<b><u>C07D 401 /-</u></b>	2021323364
2021327129		2021340305	<b><u>C01B 32 /-</u></b>		2021324066
2021330067	2021337526			2021330379	2021328673
2021330948		<b><u>B32B 5 /-</u></b>	2021332007	2021361060	2021333577
2021331785	<b><u>B01F 23 /-</u></b>				2021336066
2021336066		2021333225	<b><u>C01D 15 /-</u></b>	<b><u>C07D 403 /-</u></b>	2021336259
2021338271	2021337526				2021341790
2021340716	<b><u>B01F 31 /-</u></b>	<b><u>B32B 7 /-</u></b>	2021332926	2021338384	2021387979
2021341521			2021335405		
2021341790	2021337526	2021333225		<b><u>C07D 405 /-</u></b>	
2021345124		<b><u>B33Y 30 /-</u></b>	<b><u>C01G 55 /-</u></b>		<b><u>C07K 16 /-</u></b>
2021354823	<b><u>B01J 20 /-</u></b>			2021314955	
2021361060		2021358025	2021319956	2021330379	2021315081
	2021348262			2021335278	2021316042
<b><u>A61P 37 /-</u></b>	<b><u>B01J 23 /-</u></b>	<b><u>B60K 35 /-</u></b>	<b><u>C02F 11 /-</u></b>		2021317111
				<b><u>C07D 413 /-</u></b>	2021321525
2021336259	2021331681	2021343247	2021330965		2021321588
2021341790		<b><u>B60K 37 /-</u></b>		2021335278	2021326709
	<b><u>B01J 38 /-</u></b>		<b><u>C04B 2 /-</u></b>	2021360172	2021327129
<b><u>A61P 5 /-</u></b>		2021343247			2021330067
	2021319956		2021335412	<b><u>C07D 417 /-</u></b>	2021331785
2021338271		<b><u>B60N 2 /-</u></b>			2021333577
	<b><u>B01L 3 /-</u></b>		<b><u>C07C 1 /-</u></b>	2021314955	2021338781
<b><u>A61P 7 /-</u></b>		2021325579		2021335278	2021339468
	2021327754	<b><u>B60R 22 /-</u></b>	2021348262		2021345124
2021336788	2021351505			<b><u>C07D 471 /-</u></b>	
		<b><u>B60R 22 /-</u></b>	<b><u>C07C 205 /-</u></b>		<b><u>C07K 5 /-</u></b>
<b><u>A61P 9 /-</u></b>	<b><u>B02C 23 /-</u></b>	2021325579		2021314955	
			2021337589	2021319597	2021322934
2021314972	<b><u>B03B 9 /-</u></b>	<b><u>B61L 27 /-</u></b>		2021320763	
2021328673			<b><u>C07C 335 /-</u></b>	2021340716	<b><u>C07K 7 /-</u></b>
2021339468	2021324137	2021340367			
			2021322175	<b><u>C07D 473 /-</u></b>	2021319613
<b><u>A61Q 17 /-</u></b>	<b><u>B03D 1 /-</u></b>	<b><u>B63B 39 /-</u></b>			2021323364
			<b><u>C07C 43 /-</u></b>	2021335278	
2021342844	2021324137	2021330667			<b><u>C08B 11 /-</u></b>
		<b><u>B64D 10 /-</u></b>	2021332819	<b><u>C07D 487 /-</u></b>	
<b><u>A62B 7 /-</u></b>	2021330965				2020462941
		<b><u>B64D 11 /-</u></b>	<b><u>C07C 59 /-</u></b>	2021330835	
2021315890	<b><u>B05B 1 /-</u></b>	2020471946		2021335278	<b><u>C08F 216 /-</u></b>
			2021322175		
<b><u>A63F 1 /-</u></b>	2021383108	<b><u>B64D 11 /-</u></b>	2021322761	<b><u>C07D 491 /-</u></b>	2021327110
2021240218	<b><u>B05B 16 /-</u></b>	2021325579	<b><u>C07C 69 /-</u></b>	2021330379	<b><u>C08F 220 /-</u></b>
<b><u>A63F 13 /-</u></b>	2021369763	<b><u>B65D 71 /-</u></b>	2021332819	<b><u>C07D 493 /-</u></b>	2021325832
2021240186	<b><u>B05B 3 /-</u></b>	2021333652	<b><u>C07C 9 /-</u></b>	2021322761	<b><u>C08F 222 /-</u></b>
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2021344441	<b><u>B05B 9 /-</u></b>	2021332038	<b><u>C07D 209 /-</u></b>	2021337589	<b><u>C08F 299 /-</u></b>
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			2021337466		
2021333925	<b><u>B08B 3 /-</u></b>	2021324116		2021314955	<b><u>C08G 18 /-</u></b>
			<b><u>C07D 247 /-</u></b>	2021330948	
<b><u>B01D 11 /-</u></b>	2021383108	<b><u>B65G 37 /-</u></b>		2021337589	2021325832
			2021329457	2021340716	
2021319956	<b><u>B22F 1 /-</u></b>	2021383108	<b><u>C07D 253 /-</u></b>	<b><u>C07F 9 /-</u></b>	<b><u>C08G 61 /-</u></b>
	2021331681		2021320763	2021331658	2021316095

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<b>C08J 11 /-</b>	2021336667 2021336681 2021336788 2021337466	<b>C22C 21 /-</b>	<b>E02F 9 /-</b>	<b>F03D 13 /-</b>	<b>F22B 21 /-</b>
2021366320	2021341944 2021387979	2021363219	2021330331	2021327133	2021336102
<b>C08J 3 /-</b>		<b>C22C 30 /-</b>	<b>E03C 1 /-</b>	<b>F04B 17 /-</b>	<b>F22B 29 /-</b>
2021343565		2021363219	2021338427	2021331789	2021336102
<b>C08J 5 /-</b>	<b>C12N 5 /-</b>	<b>C23C 2 /-</b>	<b>E04B 1 /-</b>	<b>F04B 7 /-</b>	<b>F24C 15 /-</b>
2021327110	2021317747 2021320661 2021327129 2021336788	2021363219	2021324116 2021330472	2021331789	2021339461
<b>C08K 5 /-</b>		<b>C25B 1 /-</b>	<b>E04F 13 /-</b>	<b>F04B 9 /-</b>	<b>F24F 11 /-</b>
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<b>C08L 101 /-</b>	<b>C12N 9 /-</b>	<b>C25B 15 /-</b>	<b>E04H 5 /-</b>	<b>F04F 13 /-</b>	<b>F24F 8 /-</b>
2021327342	2021336681 2021337466 2021366320	2021338482	2021330472	2021349185	2021342332
<b>C08L 23 /-</b>		<b>C25B 9 /-</b>	<b>E05G 7 /-</b>	<b>F16C 17 /-</b>	<b>F24S 10 /-</b>
2021343565	<b>C12P 17 /-</b>	2021338482	2021318956	2021349185	2021323430
<b>C08L 25 /-</b>	2021337466	<b>C40B 50 /-</b>	<b>E06B 9 /-</b>	<b>F16C 33 /-</b>	<b>F24S 20 /-</b>
2021343565	<b>C12P 19 /-</b>	2020460256	2021336233	2021349185	2021323430
<b>C08L 75 /-</b>	2021324068	<b>D06F 33 /-</b>	<b>E21B 17 /-</b>	<b>F16C 37 /-</b>	<b>F24S 30 /-</b>
2021366320	<b>C12Q 1 /-</b>	2021336000	2020481719	2021330667	2021338677
<b>C09B 67 /-</b>	2020460256 2021327754 2021328724 2021336788	<b>D06F 34 /-</b>	<b>E21B 33 /-</b>	<b>F16D 11 /-</b>	<b>F24S 50 /-</b>
2021327110	2021336887 2021341940 2021345133	2021336000	2020471657 2020481932 2021327239 2021329372 2021329505	2021338677	2021338677
<b>C09C 1 /-</b>		<b>D06F 37 /-</b>		<b>F16F 15 /-</b>	<b>F24S 70 /-</b>
2021332007		2021337477		2021330667	2021323430
<b>C10M 103 /-</b>	<b>C22B 1 /-</b>	<b>D06F 39 /-</b>	<b>E21B 34 /-</b>	<b>F16K 11 /-</b>	<b>F25B 29 /-</b>
2021327342	2021324137	2021337477	2020471657	2021338427	2021398579
<b>C10M 107 /-</b>	<b>C22B 11 /-</b>	<b>D06F 58 /-</b>	<b>E21B 37 /-</b>	<b>F16K 15 /-</b>	<b>F25D 17 /-</b>
2021327342	2021319956	2021335817 2021336000 2021337477	2021329505	2021338427	2021315437
<b>C10M 139 /-</b>	<b>C22B 23 /-</b>	<b>D06N 7 /-</b>	<b>E21B 41 /-</b>	<b>F16K 17 /-</b>	<b>F26B 21 /-</b>
2021327342	2021323978	2021333225	2021338427	2021338427	2021333925
<b>C10M 141 /-</b>	<b>C22B 26 /-</b>	<b>D21C 9 /-</b>	<b>E21B 43 /-</b>	<b>F16K 25 /-</b>	<b>F26B 25 /-</b>
2021340009	2021324137	2021323403	2020471657 2020481932	2021338427	2021333925
<b>C10N 10 /-</b>	<b>C22B 3 /-</b>	<b>D21H 17 /-</b>	<b>E21B 47 /-</b>	<b>F16L 1 /-</b>	<b>F26B 3 /-</b>
2021327342	2021319956	2020462941	2020481719	2021345375	2021333925
<b>C10N 30 /-</b>	<b>C22B 5 /-</b>	<b>D21H 21 /-</b>	<b>E21C 41 /-</b>	<b>F16L 15 /-</b>	<b>F28D 20 /-</b>
2021327342	2021319956	2020462941	2021327110	2021327342	2021315437
<b>C10N 40 /-</b>	<b>C22B 7 /-</b>	<b>D21H 25 /-</b>	<b>F02B 63 /-</b>	<b>F17C 1 /-</b>	<b>F28D 9 /-</b>
2021327342	2021319956 2021323978 2021324137	2020462941	2021330472 2021332038	2021318104	2021315437
<b>C12N 15 /-</b>		<b>E02F 3 /-</b>	<b>F02D 29 /-</b>	<b>F17D 5 /-</b>	<b>G01B 9 /-</b>
2021313058 2021317747 2021318560 2021326709 2021331785	<b>C22C 18 /-</b>	2022321155	2021336102	2021327307	2021332083
	2021363219			<b>F22B 15 /-</b>	<b>G01C 19 /-</b>
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<b><u>G01H 1 /-</u></b>	<b><u>G03B 17 /-</u></b>	<b><u>G06Q 10 /-</u></b>	<b><u>G16H 30 /-</u></b>	<b><u>H04L 27 /-</u></b>
2021319041	2021337295	2021317327	2021337847	2021413193
<b><u>G01H 3 /-</u></b>	<b><u>G03G 15 /-</u></b>	2021333772	<b><u>G16H 40 /-</u></b>	<b><u>H04L 9 /-</u></b>
2021319041	2021343023	2021334408	2021337567	2021317327
<b><u>G01K 1 /-</u></b>	<b><u>G03G 21 /-</u></b>	2021338021	<b><u>G16H 50 /-</u></b>	2021333448
2020465743	2021343023	2021459230	2021334396	2021323868
<b><u>G01N 15 /-</u></b>	<b><u>G05B 11 /-</u></b>	<b><u>G06Q 20 /-</u></b>	2021337847	<b><u>H04W 24 /-</u></b>
2021375031	2021339062	2021317327	<b><u>G21C 9 /-</u></b>	<b><u>H04W 4 /-</u></b>
<b><u>G01N 21 /-</u></b>	<b><u>G05B 23 /-</u></b>	2021333448	2021338482	2021321883
2021322175	2021330331	2021340625	<b><u>H01B 1 /-</u></b>	2021334408
2021322761	<b><u>G05D 1 /-</u></b>	<b><u>G06Q 30 /-</u></b>	2021331681	2021337567
2021327754	2021334408	2021338607	<b><u>H01J 49 /-</u></b>	<b><u>H04W 48 /-</u></b>
2021331844	<b><u>G06F 13 /-</u></b>	<b><u>G06Q 40 /-</u></b>	2021328058	2021329841
2021334406	2021329589	2021332370	<b><u>H01L 31 /-</u></b>	2021429146
<b><u>G01N 27 /-</u></b>	<b><u>G06F 15 /-</u></b>	<b><u>G06Q 50 /-</u></b>	2021330951	<b><u>H04W 52 /-</u></b>
2021327754	2021323935	2021318695	2021342522	2021429146
2021328058	<b><u>G06F 16 /-</u></b>	2021329589	2021385099	<b><u>H04W 72 /-</u></b>
<b><u>G01N 31 /-</u></b>	2021240185	2021335236	<b><u>H01M 10 /-</u></b>	<b><u>H04W 74 /-</u></b>
2021322175	2021240235	2021338021	2021323978	2021429146
2021322761	2021317327	<b><u>G06T 7 /-</u></b>	2021324137	<b><u>H04W 76 /-</u></b>
<b><u>G01N 33 /-</u></b>	2021329589	2021320661	<b><u>H01M 50 /-</u></b>	<b><u>H04W 8 /-</u></b>
2021320661	2021332370	<b><u>G06V 10 /-</u></b>	2020460960	2020460952
2021322057	<b><u>G06F 17 /-</u></b>	2021344973	<b><u>H01M 8 /-</u></b>	2021429146
2021322175	2021325030	<b><u>G07D 11 /-</u></b>	<b><u>H02B 15 /-</u></b>	<b><u>H04W 84 /-</u></b>
2021322761	2021338021	2021318956	2021335236	2021429146
2021327754	<b><u>G06F 21 /-</u></b>	<b><u>G07F 17 /-</u></b>	<b><u>H02J 3 /-</u></b>	<b><u>H04W 88 /-</u></b>
2021338364	2021317327	2021318956	2021350474	2021429146
2021340971	2021329589	<b><u>G08G 1 /-</u></b>	<b><u>H02J 7 /-</u></b>	<b><u>H05B 47 /-</u></b>
<b><u>G01N 35 /-</u></b>	2021332370	2021334408	2021330951	2021343247
2021348066	<b><u>G06F 3 /-</u></b>	<b><u>G09B 7 /-</u></b>	<b><u>H02K 1 /-</u></b>	<b><u>H05K 1 /-</u></b>
2021351505	2021240218	2021338021	2021337477	2021331681
<b><u>G01S 15 /-</u></b>	2021343247	<b><u>G09C 1 /-</u></b>	<b><u>H02K 7 /-</u></b>	
2021327307	<b><u>G06F 8 /-</u></b>	2020472681	2021330667	
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2021316427	<b><u>G06N 10 /-</u></b>	2021320057	<b><u>H02S 20 /-</u></b>	
<b><u>G02B 26 /-</u></b>	2021323935	<b><u>G11C 13 /-</u></b>	2021330667	
2021320057	2021336875	2021341940	2021338677	
<b><u>G02B 6 /-</u></b>	<b><u>G06N 20 /-</u></b>	<b><u>G16H 15 /-</u></b>		
2021331844	2020472681	2021342491		
2021335225				
<b><u>G02C 7 /-</u></b>				
2021356283				

Applications Accepted

Name Index

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- (71) 4D Molecular Therapeutics Inc.  
 (11) AU-B-2021265768  
 (21) 2021265768 (22) 26.04.2021  
 (54) Adeno-associated variants, formulations and methods for pulmonary delivery  
 (51) Int. Cl.  
**C12N 15/864** ( 2006.01 )  
**A61K 38/16** ( 2006.01 )  
**A61K 38/17** ( 2006.01 )  
**A61K 48/00** ( 2006.01 )  
**C07K 14/015** ( 2006.01 )  
**C07K 14/47** ( 2006.01 )  
 (87) WO2021/222148  
 (31) 63/016,246 (32) 27.04.20 (33) US  
 63/088,432 06.10.20 US  
 (43) 04.11.2021  
 (44) 30.03.2023  
 (72) KOTTERMAN, Melissa; FRANCIS, Peter; CALTON, Melissa; GONZALES, Johnny; CROZE, Roxanne; SCHMITT, Christopher  
 (74) WRAYS PTY LTD
- 
- (71) Abbott Diabetes Care Inc.  
 (11) AU-B-2021202813  
 (21) 2021202813 (22) 04.05.2021  
 (54) Medical device data processing and communication methods and systems  
 (51) Int. Cl.  
**A61B 5/145** ( 2006.01 )  
 (43) 27.05.2021  
 (44) 30.03.2023  
 (62) 2018274889  
 (72) Taub, Marc Barry; Budiman, Erwin Satrya; Hua, Xuandong; Love, Michael  
 (74) FPA Patent Attorneys Pty Ltd
- 
- (71) Abbott Laboratories  
 (11) AU-B-2021209235  
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**G01N 33/48** ( 2006.01 )  
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**H01R 39/58** ( 2006.01 )  
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**G01V 3/12** ( 2006.01 )  
**G01S 7/41** ( 2006.01 )  
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 (51) Int. Cl.  
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 (74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd
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 (21) 2020250749 (22) 12.03.2020  
 (54) Method and system for extracting an oil from an oil-containing raw material  
 (51) Int. Cl.  
**C11B 1/06** ( 2006.01 )  
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 (74) FB Rice Pty Ltd
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- (71) Align Technology, Inc.  
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 (54) AUTOMATIC SELECTION AND LOCKING OF INTRAORAL IMAGES  
 (51) Int. Cl.  
**G06T 1/00** ( 2006.01 )  
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 (74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd
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**(11)** AU-B-2021200265  
**(21)** 2021200265 **(22)** 18.01.2021  
**(54)** LOW ERUCTATION COMPOSITION AND METHODS FOR TREATING AND/OR PREVENTING CARDIOVASCULAR DISEASE IN A SUBJECT WITH FISH ALLERGY/HYPERSENSITIVITY  
**(51)** Int. Cl.  
**A61K 31/20** ( 2006.01 )  
**A61K 31/202** ( 2006.01 )  
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**(62)** 2019202295  
**(72)** Osterloh, Ian; Wicker, Pierre; Braeckman, Rene; Soni, Paresh; Rowe, Jonathan  
**(74)** AJ PARK

**(71)** Amgen Inc.  
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**(54)** Method of conjugation of cys-mAbs  
**(51)** Int. Cl.  
**C07K 14/605** ( 2006.01 )  
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**C07K 16/00** ( 2006.01 )  
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**(43)** 07.02.2019  
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**(11)** AU-B-2021261964  
**(21)** 2021261964 **(22)** 05.11.2021  
**(54)** Controllable drug delivery system and method of use  
**(51)** Int. Cl.  
**A61M 5/20** ( 2006.01 )  
**A61M 5/142** ( 2006.01 )  
**A61M 5/315** ( 2006.01 )  
**A61M 5/32** ( 2006.01 )  
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**(71)** AMORPHICAL LTD.  
**(11)** AU-B-2021204073  
**(21)** 2021204073 **(22)** 18.06.2021

**(54)** AMORPHOUS CALCIUM CARBONATE STABILIZED WITH POLYPHOSPHATES OR BISPHOSPHONATES  
**(51)** Int. Cl.  
**A61K 33/10** ( 2006.01 )  
**A61K 31/66** ( 2006.01 )  
**A61K 33/42** ( 2006.01 )  
**A61P 3/14** ( 2006.01 )  
**(43)** 29.07.2021  
**(44)** 30.03.2023  
**(62)** 2016273058  
**(72)** Ben, Yosef; Blum, Yigal Dov; Moshe, Hagay; Ashkenazi, Ben  
**(74)** Pipers Intellectual Property

**(71)** Anduril Industries, Inc.  
**(11)** AU-B-2021212022  
**(21)** 2021212022 **(22)** 04.08.2021  
**(54)** Aerial vehicle with deployable components  
**(51)** Int. Cl.  
**B64C 3/56** ( 2006.01 )  
**(43)** 26.08.2021  
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**(72)** Alley, Nicholas Robert; Steele, Joshua Lemming; Williams, Jesse Owen; Kuehme, Daniel; Phillips, Jonathan Caleb  
**(74)** Intellepro

**(71)** Anduril Industries, Inc.  
**(11)** AU-B-2022211801  
**(21)** 2022211801 **(22)** 02.08.2022  
**(54)** AERIAL VEHICLE WITH DEPLOYABLE COMPONENTS  
**(51)** Int. Cl.  
**B64C 3/56** ( 2006.01 )  
**(43)** 25.08.2022  
**(44)** 30.03.2023  
**(62)** 2021212022  
**(72)** Alley, Nicholas Robert; Steele, Joshua Lemming; Williams, Jesse Owen; Kuehme, Daniel; Phillips, Jonathan Caleb  
**(74)** Intellepro Patent & Trade Mark Attorneys

**(71)** Apacor Limited  
**(11)** AU-B-2019322103  
**(21)** 2019322103 **(22)** 14.08.2019  
**(54)** Fixative solution and method of preparation of biological sample  
**(51)** Int. Cl.  
**G01N 1/30** ( 2006.01 )  
**C12Q 1/04** ( 2006.01 )  
**G01N 21/49** ( 2006.01 )  
**G01N 33/574** ( 2006.01 )  
**(87)** WO2020/035688  
**(31)** 1813255.5 **(32)** 14.08.18 **(33)** GB  
**(43)** 20.02.2020  
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**(74)** Anderson IP

**(71)** Apple Inc.  
**(11)** AU-B-2021261941  
**(21)** 2021261941 **(22)** 05.11.2021  
**(54)** User interfaces for managing controllable external devices  
**(51)** Int. Cl.  
**G06F 3/0488** ( 2013.01 )  
**G06F 3/16** ( 2006.01 )  
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**(72)** Carrigan, Taylor G.; Coffman, Patrick L.; Cranfill, Elizabeth Caroline; Foss, Christopher Patrick; Graham, David Chance; Jon, Tiffany S.; Kim, Andrew Seunghyun; Trottier, Lauren K.  
**(74)** FPA Patent Attorneys Pty Ltd

**(71)** Asahi Inovex Corp.  
**(11)** AU-B-2020246272  
**(21)** 2020246272 **(22)** 19.03.2020  
**(54)** Watertight structure for flap gate and flap gate comprising same  
**(51)** Int. Cl.  
**E02B 7/20** ( 2006.01 )  
**E02B 7/44** ( 2006.01 )  
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**(72)** ONODERA, Tetsuo; SASAYAMA, Koji; TSUCHIYA, Toshio  
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**(11)** AU-B-2017272721  
**(21)** 2017272721 **(22)** 29.05.2017  
**(54)** Novel genetically engineered vaccinia viruses  
**(51)** Int. Cl.  
**C12N 15/09** ( 2006.01 )  
**A61K 35/768** ( 2015.01 )  
**A61P 35/00** ( 2006.01 )  
**A61P 35/02** ( 2006.01 )  
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**C12N 7/01** ( 2006.01 )  
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**(43)** 07.12.2017  
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**(72)** Nakao, Shinsuke; Kawase, Tatsuya; Nakamura, Takafumi  
**(74)** Davies Collison Cave Pty Ltd

**(71)** Astronics Connectivity Systems & Certification Corp.  
**(11)** AU-B-2021201395  
**(21)** 2021201395 **(22)** 03.03.2021  
**(54)** USB cable and method for producing the same  
**(51)** Int. Cl.  
**H02G 11/02** ( 2006.01 )  
**(43)** 18.03.2021  
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**(62)** 2019201378  
**(72)** BURKE, Paul C.; DUBOIS, James L.  
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 (54) Electromagnetic distortion detection  
 (51) Int. Cl.  
     **A61B 34/20** ( 2016.01 )  
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     **G01B 7/24** ( 2006.01 )  
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 (54) Formulations pharmacokinetics of deuterated benzoquinoline inhibitors of vesicular monoamine transporter 2  
 (51) Int. Cl.  
     **A61K 31/4375** ( 2006.01 )  
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     **A61K 31/435** ( 2006.01 )  
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 (72) Sommer, Andreas; Carter, John; Arthur, John; Bradbury, Margaret; Gant, Thomas; Shahbaz, Manouchehr; Zhang, Chengzhi  
 (74) Allens Patent & Trade Mark Attorneys

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 (54) Osmotic dosage forms comprising deutetabenazine and methods of use thereof  
 (51) Int. Cl.  
     **A61K 9/00** ( 2006.01 )  
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     **A61K 9/28** ( 2006.01 )  
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     **A61P 25/14** ( 2006.01 )  
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(54) Surgical tool for tissue sizing and transection  
 (51) Int. Cl.  
     **A61B 90/00** ( 2016.01 )  
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     **E21B 33/12** ( 2006.01 )  
     **F16J 15/16** ( 2006.01 )  
     **F16J 15/3272** ( 2016.01 )  
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 (43) 01.10.2020  
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 (72) DENG, Guijun; WAKEFIELD, John K.; COOK, Christopher; MAENZA, Frank J.  
 (74) FPA Patent Attorneys Pty Ltd

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(71) Baker Hughes Oilfield Operations LLC  
 (11) AU-B-2020278015  
 (21) 2020278015 (22) 17.04.2020  
 (54) System and method for pressure isolation and relief across a threaded connection  
 (51) Int. Cl.  
     **E21B 17/18** ( 2006.01 )  
     **E21B 19/22** ( 2006.01 )  
     **E21B 23/00** ( 2006.01 )  
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 (31) 16/420,389 (32) 23.05.19 (33) US  
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 (72) GARR, Ronald J.; JONES, Darrell D.; SCHUBERT, Dale W.; MCWHERTER, Daniel S.  
 (74) FPA Patent Attorneys Pty Ltd

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(71) BASF SE  
 (11) AU-B-2017235484  
 (21) 2017235484 (22) 16.03.2017  
 (54) Plants comprising wheat G-type cytoplasmic male sterility restorer genes, molecular markers and uses thereof  
 (51) Int. Cl.  
     **A01H 1/04** ( 2006.01 )  
     **A01H 1/02** ( 2006.01 )  
     **C07K 14/415** ( 2006.01 )  
     **C12N 15/82** ( 2006.01 )  
     **C12Q 1/68** ( 2006.01 )  
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 (31) 16180022.2 (32) 18.07.16 (33) EP  
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 (74) Davies Collison Cave Pty Ltd

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 (21) 2018280239 (22) 07.06.2018  
 (54) Biological fluid separation device  
 (51) Int. Cl.  
     **B01L 3/00** ( 2006.01 )  
     **A61B 5/15** ( 2006.01 )  
     **A61B 5/154** ( 2006.01 )  
     **B01L 3/02** ( 2006.01 )  
     **G01N 33/49** ( 2006.01 )  
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 (31) 62/516,833 (32) 08.06.17 (33) US  
 (43) 13.12.2018  
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 (72) Ivošević, Milan; Li, Peng; Wentzell, Scott  
 (74) FB Rice Pty Ltd

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(71) Becton, Dickinson and Company  
 (11) AU-B-2021204460  
 (21) 2021204460 (22) 29.06.2021  
 (54) Port interface for drug delivery device  
 (51) Int. Cl.  
     **A61M 5/142** ( 2006.01 )  
     **A61M 5/145** ( 2006.01 )  
     **A61M 5/158** ( 2006.01 )  
     **A61M 5/42** ( 2006.01 )  
     **A61M 39/02** ( 2006.01 )  
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 (44) 30.03.2023  
 (62) 2019205203  
 (72) Rabolli, Christina  
 (74) FB Rice Pty Ltd

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(71) Beijing Goldwind Science & Creation Windpower Equipment Co., Ltd.  
 (11) AU-B-2020285795  
 (21) 2020285795 (22) 19.01.2020  
 (54) Stator support frame and stator  
 (51) Int. Cl.  
     **H02K 1/18** ( 2006.01 )  
     **H02K 15/02** ( 2006.01 )  
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 (31) 201910447712.0 (32) 27.05.19 (33) CN  
 (43) 03.12.2020  
 (44) 30.03.2023  
 (72) LI, Yanhui; PENG, Liang  
 (74) Madderns Pty Ltd

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(71) BEIJING UNISOC COMMUNICATIONS TECHNOLOGY CO., LTD.  
 (11) AU-B-2020250454  
 (21) 2020250454 (22) 11.03.2020  
 (54) Resource allocation method and apparatus for V2X service, and storage medium, terminal and base station  
 (51) Int. Cl.  
     **H04W 4/40** ( 2018.01 )  
 (87) WO2020/199876  
 (31) 201910250647.2 (32) 29.03.19 (33) CN  
 (43) 08.10.2020  
 (44) 30.03.2023  
 (72) QU, Xin  
 (74) MINTER ELLISON

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(71) Beka Schreder (Proprietary) Ltd  
 (11) AU-B-2019214558

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 (54) Connector arrangement for a luminaire housing  
 (51) Int. Cl.  
*F21V 21/088* ( 2006.01 )  
*F21V 23/00* ( 2015.01 )  
*H02G 3/10* ( 2006.01 )  
 (87) WO2019/150342  
 (31) ZA2018/00730 (32) 05.02.18 (33) ZA  
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 (72) KASPER, Daniel; RUSSEL, Irwin  
 (74) Golja Haines & Friend

(71) Binder + Co AG  
 (11) AU-B-2020464317  
 (21) 2020464317 (22) 21.08.2020  
 (54) Device for producing expanded granulated material  
 (51) Int. Cl.  
*F27B 1/20* ( 2006.01 )  
*C04B 20/06* ( 2006.01 )  
*F27B 15/08* ( 2006.01 )  
*F27D 3/00* ( 2006.01 )  
 (87) WO2022/037796  
 (43) 24.02.2022  
 (44) 30.03.2023  
 (72) KREMER, Hartmut; NEUBACHER, Julian; TSCHERNKO, Harald  
 (74) FB Rice Pty Ltd

(71) BioAtla, Inc.  
 (11) AU-B-2020292304  
 (21) 2020292304 (22) 10.06.2020  
 (54) Conditionally active anti-EpCam antibodies, antibody fragments, their immunoconjugates and uses thereof  
 (51) Int. Cl.  
*C07K 16/30* ( 2006.01 )  
*A61K 39/00* ( 2006.01 )  
*A61K 47/64* ( 2017.01 )  
*A61P 35/00* ( 2006.01 )  
*C07K 16/28* ( 2006.01 )  
*G01N 33/563* ( 2006.01 )  
*G01N 33/574* ( 2006.01 )  
 (87) WO2020/252095  
 (31) 62/860,092 (32) 11.06.19 (33) US  
 (43) 17.12.2020  
 (44) 30.03.2023  
 (72) SHORT, Jay M.; FREY, Gerhard; CHANG, Hwai Wen  
 (74) Allens Patent & Trade Mark Attorneys

(71) Biocompatibles UK Limited; Goulet, M.  
 (11) AU-B-2020325153  
 (21) 2020325153 (22) 07.08.2020  
 (54) Cooling system for surgical device  
 (51) Int. Cl.  
*A61B 18/18* ( 2006.01 )  
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 (31) 62/884,044 (32) 07.08.19 (33) US  
 (43) 11.02.2021  
 (44) 30.03.2023  
 (72) GOULET, Matthew; SENNESS, Charles; BACHMAN, Tim; SPRAIN, Jason William; BABCOCK, Dennis; CHAN, Luan; MISIAK, Maciej Wojciech;

TAN, Winston; ZACHMAN, Andrew Kevin; ERNSTER, Logan  
 (74) Spruson & Ferguson

(71) Bionou Research, S.L.; Biopolis, S.L.  
 (11) AU-B-2017299137  
 (21) 2017299137 (22) 18.07.2017  
 (54) Use of probiotics in the treatment and/or prevention of atopic dermatitis  
 (51) Int. Cl.  
*A61P 17/00* ( 2006.01 )  
*A61K 35/74* ( 2006.01 )  
*A61K 35/745* ( 2015.01 )  
*A61K 35/747* ( 2015.01 )  
 (87) WO2018/015388  
 (31) 16382342.0 (32) 18.07.16 (33) EP  
 (43) 25.01.2018  
 (44) 30.03.2023  
 (72) Navarro López, Vicente Manuel; Ramírez Boscá, Ana Adela; Pérez Orquín, José Manuel; Ramón Vidal, Daniel; Genovés Martínez, Salvador; Chenoll Cuadros, María Empar; Codoñer Cortés, Francisco Manuel  
 (74) IP SOLVED (ANZ) PTY. LTD.

Biopolis, S.L. see Bionou Research, S.L.  
 (21) 2017299137

(71) Boston Scientific Neuromodulation Corporation  
 (11) AU-B-2019428019  
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*G06N 10/00* ( 2019.01 )  
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 (21) 2020325153

(71) GREE ELECTRIC APPLIANCES, INC.  
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 (54) PHOTOVOLTAIC MODULE, INTEGRATED PHOTOVOLTAIC/PHOTO-THERMAL MODULE AND MANUFACTURING METHOD THEREOF

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**B63B 22/00** ( 2006.01 )

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(71) Halliburton Energy Services, Inc.  
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(51) Int. Cl.  
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(51) Int. Cl.  
**H04N 19/137** ( 2014.01 )

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(54) Method of controlling a direction of a trajectory of a vehicle

(51) Int. Cl.  
**B61L 23/00** ( 2006.01 )  
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**B41J 2/045** ( 2006.01 )  
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**G11C 13/00** ( 2006.01 )

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(74) FB Rice Pty Ltd

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(54) Methods for identifying a companion animal susceptible to treatment that reduces the risk of stone formation and compositions for reducing such risk

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**G01N 33/53** ( 2006.01 )

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**G01F 1/56** ( 2006.01 )  
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**G01F 17/00** ( 2006.01 )  
**G01F 23/28** ( 2006.01 )  
**G01S 13/00** ( 2006.01 )  
**G01S 15/00** ( 2020.01 )  
**G01V 8/00** ( 2006.01 )

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(74) FPA Patent Attorneys Pty Ltd

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(51) Int. Cl.  
**H02M 7/487** ( 2007.01 )

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(74) Phillips Ormonde Fitzpatrick

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(21) 2018395081 (22) 27.12.2018  
(54) PICTURE PREDICTION METHOD AND APPARATUS, AND CODEC

(51) Int. Cl.  
**H04N 19/50** ( 2014.01 )

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(31) 201711494274.0 (32) 31.12.17 (33) CN  
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(72) MA, Xiang; YANG, Haitao; CHEN, Huanbang; GAO, Shan  
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(11) AU-B-2019401170  
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(51) Int. Cl.



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**H04N 19/82** ( 2014.01 )  
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**(31)** 62/784,345 **(32)** 21.12.18 **(33)** US  
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**(44)** 30.03.2023  
**(72)** FILIPPOV, Alexey Konstantinovich;  
RUFITSKIY, Vasily Alexeevich; CHEN,  
Jianle  
**(74)** Phillips Ormonde Fitzpatrick

**(71)** Hunan Agricultural University; Hunan  
Vegetable Research Institute  
**(11)** AU-B-2023200540  
**(21)** 2023200540 **(22)** 02.02.2023  
**(54)** A Compound Bacterial Agent for Redu-  
cing Cadmium and its Application  
**(51)** Int. Cl.  
**C12N 1/20** ( 2006.01 )  
**A01N 63/20** ( 2020.01 )  
**C12R 1/01** ( 2006.01 )  
**C12R 1/025** ( 2006.01 )  
**C12R 1/05** ( 2006.01 )  
**C12R 1/43** ( 2006.01 )  
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202210316760.8 29.03.22 CN  
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Jie; Ou, Lijun; Tan, Fangjun; Dai, Xiong-  
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Xuexiao  
**(74)** Arceo IP

**Hunan Vegetable Research Institute see  
Hunan Agricultural University**  
**(21)** 2023200540

**(71)** Hunter Douglas Limited  
**(11)** AU-B-2017305133  
**(21)** 2017305133 **(22)** 21.06.2017  
**(54)** Self-tensioning magnetic tracks and  
track assemblies  
**(51)** Int. Cl.  
**E06B 9/00** ( 2006.01 )  
**A47G 5/00** ( 2006.01 )  
**E06B 9/06** ( 2006.01 )  
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**(31)** 15/227,345 **(32)** 03.08.16 **(33)** US  
**(43)** 08.02.2018  
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**(74)** Spruson & Ferguson

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**(11)** AU-B-2018272912  
**(21)** 2018272912 **(22)** 23.05.2018  
**(54)** Flexible leg supporting membrane, leg  
support frame and mobile patient stand-  
ing and raising aid  
**(51)** Int. Cl.  
**A61G 7/10** ( 2006.01 )  
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**(43)** 29.11.2018

**(44)** 30.03.2023  
**(72)** Rubin, Marie; Hellström, Therese  
**(74)** Pizzveys Patent and Trade Mark Attor-  
neys Pty Ltd

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**(11)** AU-B-2019472457  
**(21)** 2019472457 **(22)** 30.10.2019  
**(54)** Lawn care vehicle with front drive  
caster wheels  
**(51)** Int. Cl.  
**A01D 34/82** ( 2006.01 )  
**A01D 34/64** ( 2006.01 )  
**B62D 11/00** ( 2006.01 )  
**B62D 11/24** ( 2006.01 )  
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**(44)** 30.03.2023  
**(72)** BAKER, David  
**(74)** Pizzveys Patent and Trade Mark Attor-  
neys Pty Ltd

**(71)** Hydrogreen, Inc.  
**(11)** AU-B-2020226389  
**(21)** 2020226389 **(22)** 18.02.2020  
**(54)** Controller for a hydroponic grower  
**(51)** Int. Cl.  
**A01G 31/06** ( 2006.01 )  
**A01G 9/02** ( 2018.01 )  
**A01G 9/24** ( 2006.01 )  
**A01G 31/04** ( 2006.01 )  
**(87)** WO2020/172149  
**(31)** 62/807,633 **(32)** 19.02.19 **(33)** US  
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**(44)** 30.03.2023  
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STON, Craig; KELLY, Ben  
**(74)** Spruson & Ferguson

**(71)** I.C. Medical, Inc.  
**(11)** AU-B-2018228880  
**(21)** 2018228880 **(22)** 01.03.2018  
**(54)** Ultrapolar telescopic and non-telescop-  
ic electrosurgery pencils with argon  
beam capability and ultrapolar elec-  
trosurgery blade assembly  
**(51)** Int. Cl.  
**A61B 18/04** ( 2006.01 )  
**A61B 18/12** ( 2006.01 )  
**A61B 18/14** ( 2006.01 )  
**A61B 18/16** ( 2006.01 )  
**(87)** WO2018/160848  
**(31)** 62/465,729 **(32)** 01.03.17 **(33)** US  
62/465,708 01.03.17 US  
**(43)** 07.09.2018  
**(44)** 30.03.2023  
**(72)** Cosmescu, Ioan  
**(74)** FB Rice Pty Ltd

**(71)** I.C. Medical, Inc.  
**(11)** AU-B-2018230707  
**(21)** 2018230707 **(22)** 06.03.2018  
**(54)** Ultrapolar electrosurgery blade and ul-  
trapolar electrosurgery blade assembly  
with conductive cutting edges and top  
and bottom conductive surfaces  
**(51)** Int. Cl.

**A61B 18/00** ( 2006.01 )  
**(87)** WO2018/165184  
**(31)** 62/467,739 **(32)** 06.03.17 **(33)** US  
62/576,213 24.10.17 US  
**(43)** 13.09.2018  
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**(72)** Cosmescu, Ioan  
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**IFP Energies Nouvelles see Institut na-  
tional de recherche pour l'agriculture,  
l'alimentation et l'environnement**  
**(21)** 2017299082

**(71)** Illinois Tool Works Inc.  
**(11)** AU-B-2021215239  
**(21)** 2021215239 **(22)** 12.08.2021  
**(54)** Drive-in tool with improved safety  
device  
**(51)** Int. Cl.  
**B25C 1/00** ( 2006.01 )  
**B25C 1/04** ( 2006.01 )  
**B25C 1/08** ( 2006.01 )  
**(43)** 02.09.2021  
**(44)** 30.03.2023  
**(62)** 2019203653  
**(72)** Hahndel, Olaf  
**(74)** Davies Collison Cave Pty Ltd

**Information and Communication Branch of  
State Grid Fujian Electric Power Co., Ltd.  
see State Grid Digital Technology Holding  
CO., LTD.**  
**(21)** 2021342399

**(71)** InnovoSciences LLC  
**(11)** AU-B-2017344001  
**(21)** 2017344001 **(22)** 09.10.2017  
**(54)** Hand-held inhalable vapor producing  
device and method  
**(51)** Int. Cl.  
**A61M 11/04** ( 2006.01 )  
**A61M 15/06** ( 2006.01 )  
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**(31)** 15/289,901 **(32)** 10.10.16 **(33)** US  
**(43)** 19.04.2018  
**(44)** 30.03.2023  
**(72)** Minskoff, Noah Mark; Magyar, Robert  
Stanford  
**(74)** Spruson & Ferguson

**(71)** In Ovo Holding B.V.  
**(11)** AU-B-2017269050  
**(21)** 2017269050 **(22)** 24.05.2017  
**(54)** Method and system for the non-de-  
structive in ovo determination of fowl  
gender  
**(51)** Int. Cl.  
**G01N 33/68** ( 2006.01 )  
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**(31)** 2016819 **(32)** 24.05.16 **(33)** NL  
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2017382 29.08.16 NL  
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(71) Institut national de recherche pour l'agriculture, l'alimentation et l'environnement; IFP Energies Nouvelles

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 (21) 2017299082 (22) 11.07.2017

(54) Separation of enzymes from trichoderma reesei by filter press and tangential filtration on a ceramic membrane

(51) Int. Cl.  
 C12N 1/02 ( 2006.01 )  
 C07K 1/34 ( 2006.01 )  
 C12N 1/14 ( 2006.01 )  
 C12N 9/42 ( 2006.01 )  
 C12P 21/00 ( 2006.01 )

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 (31) 1657030 (32) 22.07.16 (33) FR

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(74) Griffith Hack

(71) Insulet Corporation  
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(21) 2019390474 (22) 27.11.2019

(54) Drug delivery shuttle pump system and valve assembly

(51) Int. Cl.  
 F04B 19/00 ( 2006.01 )  
 F04B 9/04 ( 2006.01 )  
 F04B 17/00 ( 2006.01 )

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 (31) 62/772,547 (32) 28.11.18 (33) US

(43) 04.06.2020  
 (44) 30.03.2023  
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 (74) Davies Collison Cave Pty Ltd

(71) International Business Machines Corporation

(11) AU-B-2020304788

(21) 2020304788 (22) 23.06.2020

(54) Superconducting interposer for optical transduction of quantum information

(51) Int. Cl.  
 G06N 10/00 ( 2019.01 )  
 G06F 1/20 ( 2006.01 )

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 (31) 16/455,043 (32) 27.06.19 (33) US

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(11) AU-B-2021210217

(21) 2021210217 (22) 18.01.2021

(54) Neural flow attestation

(51) Int. Cl.  
 G06F 9/00 ( 2006.01 )

(87) WO2021/148926

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(43) 29.07.2021

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(71) Intuit Inc.

(11) AU-B-2019458741

(21) 2019458741 (22) 31.07.2019

(54) System and method for dynamic routing of messages between networks

(51) Int. Cl.  
 H04L 45/60 ( 2022.01 )  
 H04L 45/74 ( 2022.01 )  
 H04L 47/20 ( 2022.01 )

(87) WO2021/021149

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(74) Davies Collison Cave Pty Ltd

(71) Inventio AG

(11) AU-B-2019373294

(21) 2019373294 (22) 22.10.2019

(54) Lift operation terminal having situation-specific floor display

(51) Int. Cl.  
 B66B 1/46 ( 2006.01 )

(87) WO2020/088994

(31) 18203493.4 (32) 30.10.18 (33) EP

(43) 07.05.2020

(44) 30.03.2023

(72) FELDER, Hugo

(74) Griffith Hack

(71) iRepertoire, Inc.

(11) AU-B-2018230777

(21) 2018230777 (22) 09.03.2018

(54) Dimer avoided multiplex polymerase chain reaction for amplification of multiple targets

(51) Int. Cl.  
 C12Q 1/686 ( 2018.01 )  
 C07H 21/04 ( 2006.01 )  
 C12P 19/34 ( 2006.01 )

C12Q 1/6806 ( 2018.01 )

C12Q 1/6811 ( 2018.01 )

G01N 30/02 ( 2006.01 )

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(74) Phillips Ormonde Fitzpatrick

Jang, S.H. see JSH ECO Energy Co.,Ltd.

(21) 2020220766

(71) Janssen Pharmaceuticals, Inc.

(11) AU-B-2021208493

(21) 2021208493 (22) 14.01.2021

(54) FimH mutant, compositions therewith and use thereof

(51) Int. Cl.  
 A61K 39/108 ( 2006.01 )  
 A61K 39/00 ( 2006.01 )  
 C07K 14/245 ( 2006.01 )  
 C07K 16/12 ( 2006.01 )

(87) WO2021/144369

(31) 20152217.4 (32) 16.01.20 (33) EP

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(74) Spruson & Ferguson

(71) JFE Steel Corporation

(11) AU-B-2020373691

(21) 2020373691 (22) 14.10.2020

(54) METHOD FOR ESTIMATING SURFACE TENSION OF COAL INERTS, METHOD FOR ESTIMATING SURFACE TENSION OF COAL, AND METHOD FOR PRODUCING COKE

(51) Int. Cl.  
 C10B 57/04 ( 2006.01 )  
 G01N 33/22 ( 2006.01 )

(87) WO2021/085146

(31) 2019-194865 (32) 28.10.19 (33) JP

(43) 06.05.2021

(44) 30.03.2023

(72) IGAWA Daisuke; DOHI Yusuke; YAMAMOTO Tetsuya

(74) Davies Collison Cave Pty Ltd

(71) Jiangyin Xingcheng Special Steel Works Co., Ltd

(11) AU-B-2020322810

(21) 2020322810 (22) 09.04.2020

(54) A WEAR-RESISTANT STEEL WITH EXCELLENT SURFACE QUALITY AND A PRODUCTION METHOD

(51) Int. Cl.  
 C22C 38/26 ( 2006.01 )  
 C21D 8/02 ( 2006.01 )

(87) WO2021/017520

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(74) Madderns Pty Ltd

(71) JSH ECO Energy Co.,Ltd.; Jang, S.H.

(11) AU-B-2020220766

(21) 2020220766 (22) 15.01.2020

(54) Disc brake apparatus using generator-combined motor means

(51) Int. Cl.

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**B60T 8/32** ( 2006.01 )  
**F16D 121/20** ( 2012.01 )  
**F16D 121/28** ( 2012.01 )  
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**(31)** 10-2019-0016742 **(32)** 13.02.19 **(33)** KR  
**(43)** 20.08.2020  
**(44)** 30.03.2023  
**(72)** JANG, Suk Ho  
**(74)** Jones Tulloch

**(71)** Juno Therapeutics GmbH  
**(11)** AU-B-2016341529  
**(21)** 2016341529 **(22)** 20.10.2016  
**(54)** Methods for culturing cells and kits and apparatus for same  
**(51)** Int. Cl.  
**C12N 5/0783** ( 2010.01 )  
**G01N 1/30** ( 2006.01 )  
**(87)** WO2017/068421  
**(31)** 62/245,252 **(32)** 22.10.15 **(33)** US  
 62/245,261 22.10.15 US  
**(43)** 27.04.2017  
**(44)** 30.03.2023  
**(72)** Germeroth, Lothar; Stemberger, Christian; Gräf, Patricia; Bashour, Keenan  
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

**(71)** Juul Labs, Inc.  
**(11)** AU-B-2021273622  
**(21)** 2021273622 **(22)** 25.11.2021  
**(54)** Nicotine liquid formulations for aerosol devices and methods thereof  
**(51)** Int. Cl.  
**A24F 1/10** ( 2006.01 )  
**(43)** 16.12.2021  
**(44)** 30.03.2023  
**(62)** 2020200425  
**(72)** BOWEN, Adam; XING, Chenyue  
**(74)** Spruson & Ferguson

**(71)** K2M, Inc.  
**(11)** AU-B-2020220147  
**(21)** 2020220147 **(22)** 20.08.2020  
**(54)** ORTHOPEDIC SURGICAL SYSTEM INCLUDING SURGICAL ACCESS SYSTEMS, DISTRACTION SYSTEMS, AND METHODS OF USING SAME  
**(51)** Int. Cl.  
**A61B 17/02** ( 2006.01 )  
**A61B 17/34** ( 2006.01 )  
**(43)** 10.09.2020  
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**(72)** ANGUS, Olivia; BROWN, Michael; COLE, Chad; ELSKENS, Daniel; KUNES, Brian  
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

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**(11)** AU-B-2020273806  
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**(54)** Isostatic pressing apparatus, storage unit for isostatic pressing apparatus,

and isostatic pressing treatment method  
**(51)** Int. Cl.  
**B30B 5/02** ( 2006.01 )  
**B01J 3/02** ( 2006.01 )  
**B01J 3/03** ( 2006.01 )  
**B01J 3/04** ( 2006.01 )  
**F27B 17/00** ( 2006.01 )  
**G01K 7/02** ( 2006.01 )  
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**(72)** MINAMINO, Tomoya; SUZUKI, Kazuya  
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**(71)** Kawasaki Jukogyo Kabushiki Kaisha  
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**(54)** UNDERWATER VEHICLE SYSTEM AND WORKING METHOD  
**(51)** Int. Cl.  
**B63C 11/00** ( 2006.01 )  
**B63B 45/08** ( 2006.01 )  
**B63B 49/00** ( 2006.01 )  
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**(74)** Spruson & Ferguson

**(71)** Kimberly-Clark Worldwide, Inc.  
**(11)** AU-B-2016404262  
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**(54)** Dispensing system  
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**A47K 10/34** ( 2006.01 )  
**G08B 21/18** ( 2006.01 )  
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**(71)** Knapp GmbH  
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**(54)** Device for securing a glass pane  
**(51)** Int. Cl.  
**E04F 13/08** ( 2006.01 )  
**E04F 13/14** ( 2006.01 )  
**E06B 3/54** ( 2006.01 )  
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**(72)** Knapp, Friedrich  
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**(71)** Kone Corporation  
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**(21)** 2017339121 **(22)** 04.10.2017

**(54)** Connection establishment in elevator system, escalator system or autowalk system  
**(51)** Int. Cl.  
**B66B 5/00** ( 2006.01 )  
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**H04B 7/24** ( 2006.01 )  
**H04W 12/06** ( 2009.01 )  
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**(71)** Korea Food Research Institute  
**(11)** AU-B-2020208054  
**(21)** 2020208054 **(22)** 15.01.2020  
**(54)** Composition for preventing, alleviating or treating neurodegenerative diseases, comprising pediococcus inopinatus  
**(51)** Int. Cl.  
**A23L 33/135** ( 2016.01 )  
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**(74)** Phillips Ormonde Fitzpatrick

**(71)** Korea Research Institute of Bioscience and Biotechnology  
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**(54)** Transgenic mouse for aglycosylated antibody production and use of aglycosylated antibody produced therefrom  
**(51)** Int. Cl.  
**A01K 67/027** ( 2006.01 )  
**C07K 16/00** ( 2006.01 )  
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**(44)** 30.03.2023  
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**(74)** James & Wells Intellectual Property

**(71)** Kraft Foods Schweiz Holding GmbH  
**(11)** AU-B-2019398297  
**(21)** 2019398297 **(22)** 09.12.2019  
**(54)** Fat-based confectionery composition  
**(51)** Int. Cl.  
**A23G 1/40** ( 2006.01 )  
**A23G 3/42** ( 2006.01 )  
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**A45D 19/12** ( 2006.01 )  
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**C12N 15/73** ( 2006.01 )  
**G01N 33/50** ( 2006.01 )  
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 (54) Anti-claudin 18.2 antibodies and uses thereof  
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**A61P 31/14** ( 2006.01 )  
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 (54) Packaging material evaluation and apparatus therefor for sensing packaging material flaws  
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**B65H 26/02** ( 2006.01 )  
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 (54) Production of bio-based liquefied petroleum gas  
 (51) Int. Cl.  
**C10L 3/12** ( 2006.01 )  
**C12P 7/04** ( 2006.01 )  
**C12P 7/16** ( 2006.01 )  
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**C07K 16/28** ( 2006.01 )  
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(71) LEGEND BIOTECH IRELAND LIMITED  
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 (54) Chimeric antigen receptors targeting BCMA and methods of use thereof  
 (51) Int. Cl.  
**C07K 19/00** ( 2006.01 )  
**A61K 39/395** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**A61P 35/02** ( 2006.01 )  
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 (74) Griffith Hack

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 (54) Emergency lighting system  
 (51) Int. Cl.  
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**F21S 9/02** ( 2006.01 )  
**H04W 84/00** ( 2009.01 )  
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(71) LEMONEX INC.  
 (11) AU-B-2021229131  
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 (54) Composition for delivering physiologically active ingredients into blood vessel  
 (51) Int. Cl.  
**A61K 9/16** ( 2006.01 )  
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**A61K 31/704** ( 2006.01 )  
**A61K 45/06** ( 2006.01 )  
**A61K 48/00** ( 2006.01 )  
**A61K 49/00** ( 2006.01 )  
**A61L 24/00** ( 2006.01 )  
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 (51) Int. Cl.  
**H02P 6/20** ( 2016.01 )  
**H02P 3/14** ( 2006.01 )  
**H02P 6/18** ( 2016.01 )  
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 (74) Dentons Patent Attorneys Australasia Limited

(71) LG Electronics Inc.  
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 (54) Clothes treatment apparatus and control method therefor  
 (51) Int. Cl.  
**D06F 58/30** ( 2020.01 )  
**B08B 3/02** ( 2006.01 )  
**D06F 58/04** ( 2006.01 )  
**D06F 58/20** ( 2006.01 )  
**D06F 58/24** ( 2006.01 )  
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 (74) Dentons Patent Attorneys Australasia Limited

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 (21) 2019334749 (22) 06.09.2019  
 (54) Drain pump driving apparatus and laundry processing machine comprising same  
 (51) Int. Cl.  
*D06F 39/08* ( 2006.01 )  
*F04D 15/00* ( 2006.01 )  
*H02P 27/06* ( 2006.01 )  
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 (54) Refrigerator and method for controlling same  
 (51) Int. Cl.  
*F25D 11/00* ( 2006.01 )  
*F25C 1/18* ( 2006.01 )  
*F25C 1/24* ( 2018.01 )  
*F25C 5/02* ( 2006.01 )  
*F25C 5/18* ( 2018.01 )  
*F25D 23/02* ( 2006.01 )  
*F25D 25/02* ( 2006.01 )  
*F25D 29/00* ( 2006.01 )  
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 (72) LEE, Donghoon; LEE, Wookyong; SON, Sunggyun; LEE, Donghoon; YEOM, Seungseob; BAE, Yongjun; PARK, Chongyoung  
 (74) Dentons Patent Attorneys Australasia Limited

(71) LG Electronics Inc.  
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 (54) Refrigerator and method for controlling same  
 (51) Int. Cl.  
*F25D 11/00* ( 2006.01 )  
*F25C 1/18* ( 2006.01 )  
*F25C 1/24* ( 2018.01 )  
*F25C 5/02* ( 2006.01 )  
*F25D 25/02* ( 2006.01 )  
*F25D 29/00* ( 2006.01 )  
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 (21) 2019353516 (22) 02.10.2019  
 (54) Refrigerator  
 (51) Int. Cl.  
*F25D 11/00* ( 2006.01 )  
*F25C 1/24* ( 2018.01 )  
*F25C 5/02* ( 2006.01 )  
*F25C 5/20* ( 2018.01 )  
*F25D 25/02* ( 2006.01 )  
*F25D 29/00* ( 2006.01 )  
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 (72) LEE, Donghoon; LEE, Donghoon; LEE, Wookyong; YEOM, Seungseob; BAE, Yongjun; SON, Sunggyun; PARK, Chongyoung  
 (74) Dentons Patent Attorneys Australasia Limited

(71) LG Electronics Inc.  
 (11) AU-B-2020245002  
 (21) 2020245002 (22) 23.03.2020  
 (54) Method for coding image on basis of intra prediction using MPM list and apparatus therefor  
 (51) Int. Cl.  
*H04N 19/11* ( 2014.01 )  
*H04N 19/105* ( 2014.01 )  
*H04N 19/176* ( 2014.01 )  
*H04N 19/593* ( 2014.01 )  
*H04N 19/70* ( 2014.01 )  
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 (74) Dentons Patent Attorneys Australasia Limited

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 (21) 2021201907 (22) 26.03.2021  
 (54) Nozzle for cleaner  
 (51) Int. Cl.  
*A47L 11/20* ( 2006.01 )  
*A47L 9/02* ( 2006.01 )  
*A47L 11/34* ( 2006.01 )  
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 (72) KO, Moohyun; WOO, Namil; CHANG, Daeho  
 (74) FB Rice Pty Ltd

(71) LG Electronics Inc.  
 (11) AU-B-2021232705  
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 (54) Laundry treatment apparatus  
 (51) Int. Cl.  
*D06F 58/24* ( 2006.01 )  
*D06F 34/00* ( 2020.01 )  
*D06F 58/10* ( 2006.01 )  
*D06F 58/26* ( 2006.01 )  
 (43) 14.10.2021  
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 (72) Hong, Sangwook; Kim, Changoh; Noh, Hyunwoo  
 (74) FB Rice Pty Ltd

(71) LG ELECTRONICS INC.  
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 (54) LAUNDRY TREATING APPARATUS  
 (51) Int. Cl.  
*D06F 29/00* ( 2006.01 )  
 (31) 10-2020-0027210 (32) 04.03.20 (33) KR  
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 (44) 30.03.2023  
 (72) JUNG, Youngho; JIN, Donghyun; KIM, Minsu  
 (74) Dentons Patent Attorneys Australasia Limited

(71) LIEN, C.  
 (11) AU-B-2021221898  
 (21) 2021221898 (22) 27.08.2021  
 (54) An adhesive for wood board and preparation method and uses thereof  
 (51) Int. Cl.  
*C09J 11/04* ( 2006.01 )  
*C08K 3/22* ( 2006.01 )  
*C08K 3/26* ( 2006.01 )  
*C08K 3/38* ( 2006.01 )  
*C09J 103/02* ( 2006.01 )  
*C09J 103/06* ( 2006.01 )  
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 (72) LIEN, CHIEN-FAN  
 (74) ALDRICH PROJECTS PTY LTD

(71) Lightforce USA, Inc., D/B/A/ Nightforce Optics  
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 (54) Reticle disc with fiber illuminated aiming dot  
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*F41G 1/12* ( 2006.01 )  
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*F41G 1/473* ( 2006.01 )

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**(72)** Bellah, Brian J.; Minor, Grant M. W.  
**(74)** Madderns Pty Ltd

**(71)** LNJ Group, LLC  
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**(21)** 2021201910 **(22)** 26.03.2021  
**(54)** Beverage Dispensing Machine and Pouch for Use With Beverage Dispensing Machine  
**(51)** Int. Cl.  
**B67D 3/00** ( 2006.01 )  
**F25B 21/02** ( 2006.01 )  
**(43)** 29.04.2021  
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**(72)** Chang, Marshal; Fallis Jr., Jeremy M; Orme, Brian; Murphy, Jon-William  
**(74)** KINGS PATENT & TRADE MARKS ATTORNEYS PTY LTD

**(71)** Locata Corporation Pty Ltd  
**(11)** AU-B-2020398338  
**(21)** 2020398338 **(22)** 02.12.2020  
**(54)** Methods and apparatus for improving the resilience of a positioning network  
**(51)** Int. Cl.  
**G01S 5/02** ( 2010.01 )  
**G01S 19/11** ( 2010.01 )  
**G01S 19/14** ( 2010.01 )  
**H04W 4/029** ( 2018.01 )  
**H04W 56/00** ( 2009.01 )  
**H04W 84/18** ( 2009.01 )  
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**(72)** SMALL, David; BRASCH, Arved; SAINSBERY, Ian; GORDON, John  
**(74)** LOCATA CORPORATION PTY LTD

**(71)** Locus IP Company, LLC  
**(11)** AU-B-2017322409  
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**(54)** Distributed systems for the efficient production and use of microbe-based compositions  
**(51)** Int. Cl.  
**C12M 3/00** ( 2006.01 )  
**A01N 63/00** ( 2006.01 )  
**C05F 11/08** ( 2006.01 )  
**C07K 17/00** ( 2006.01 )  
**C12M 1/34** ( 2006.01 )  
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**(43)** 15.03.2018  
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**(72)** Farmer, Sean; Zorner, Paul S.; Alibek, Ken; Adams, Kent; Dixon, Tyler  
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

**(71)** Lone Gull Holdings, Ltd.  
**(11)** AU-B-2017385006  
**(21)** 2017385006 **(22)** 11.09.2017  
**(54)** Inertial wave energy converter  
**(51)** Int. Cl.  
**F03B 13/20** ( 2006.01 )  
**F16H 19/06** ( 2006.01 )  
**(87)** WO2018/125318  
**(31)** 62/435,895 **(32)** 19.12.16 **(33)** US  
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**(74)** Zone Patents Limited

**Longeviti Neuro Solutions LLC see The Johns Hopkins University**  
**(21)** 2021204982

**(71)** LSI Solutions, Inc.  
**(11)** AU-B-2020236235  
**(21)** 2020236235 **(22)** 13.03.2020  
**(54)** Surgical access system  
**(51)** Int. Cl.  
**A61B 17/04** ( 2006.01 )  
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**C07D 235/30** ( 2006.01 )  
**C07D 235/32** ( 2006.01 )  
**C07D 401/12** ( 2006.01 )  
**C07D 401/14** ( 2006.01 )  
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*C07K 14/705* ( 2006.01 )  
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*G06Q 20/38* ( 2012.01 )  
*H04L 9/32* ( 2006.01 )  
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*H04N 7/01* ( 2006.01 )  
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*H04N 19/179* ( 2014.01 )  
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*H04L 41/0896* ( 2022.01 )  
*H04L 41/5067* ( 2022.01 )  
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 (54) FUSION DEVICE  
 (51) Int. Cl.  
*A61F 2/44* ( 2006.01 )  
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*B29C 64/124* ( 2017.01 )  
*B29C 64/255* ( 2017.01 )



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**(74)** FPA Patent Attorneys Pty Ltd

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**(51)** Int. Cl.  
**H02S 20/32** ( 2014.01 )  
**F24S 30/00** ( 2018.01 )  
**F24S 30/20** ( 2018.01 )  
**F24S 30/40** ( 2018.01 )  
**F24S 30/42** ( 2018.01 )  
**F24S 30/425** ( 2018.01 )  
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**A61K 35/28** ( 2015.01 )  
**A61P 1/16** ( 2006.01 )  
**A61P 9/00** ( 2006.01 )  
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**A61P 19/00** ( 2006.01 )  
**A61P 19/02** ( 2006.01 )  
**C12N 5/0775** ( 2010.01 )  
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**G06F 21/64** ( 2013.01 )  
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**(11)** AU-B-2019461061  
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**(51)** Int. Cl.  
**G09C 1/00** ( 2006.01 )  
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**(51)** Int. Cl.  
**A63F 5/00** ( 2006.01 )  
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**H04W 52/30** ( 2009.01 )  
**H04W 52/18** ( 2009.01 )  
**H04W 52/38** ( 2009.01 )  
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**A47J 31/44** ( 2006.01 )  
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**B65B 11/52** ( 2006.01 )  
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**B65B 11/50** ( 2006.01 )  
**B65B 25/14** ( 2006.01 )  
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**G01N 33/68** ( 2006.01 )  
**C07K 7/00** ( 2006.01 )  
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**A61B 5/16** ( 2006.01 )  
**A61B 3/113** ( 2006.01 )  
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**H04L 5/00** ( 2006.01 )  
**H04W 4/06** ( 2009.01 )  
**H04W 72/00** ( 2009.01 )  
**H04W 72/04** ( 2009.01 )  
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 (21) 2021202164 (22) 08.04.2021  
 (54) MEDIA CONTROL METHOD AND SYSTEM  
 (51) Int. Cl.  
 G06Q 30/02 ( 2012.01 )  
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 (51) Int. Cl.  
 H01S 5/026 ( 2006.01 )  
 G01S 17/02 ( 2020.01 )  
 G02B 6/12 ( 2006.01 )  
 G02B 6/42 ( 2006.01 )  
 H01S 5/00 ( 2006.01 )  
 H01S 5/02208 ( 2021.01 )  
 H01S 5/02255 ( 2021.01 )  
 H01S 5/02315 ( 2021.01 )  
 H01S 5/02326 ( 2021.01 )  
 H01S 5/50 ( 2006.01 )  
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 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd
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 (51) Int. Cl.  
 G06Q 20/10 ( 2012.01 )  
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 (74) FPA Patent Attorneys Pty Ltd
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 (51) Int. Cl.

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 (74) FPA Patent Attorneys Pty Ltd
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 A63B 21/005 ( 2006.01 )  
 A63B 21/015 ( 2006.01 )  
 A63B 22/06 ( 2006.01 )  
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 (51) Int. Cl.  
 B67D 1/12 ( 2006.01 )  
 A47J 31/00 ( 2006.01 )  
 A47J 31/40 ( 2006.01 )  
 A47J 31/44 ( 2006.01 )  
 B67D 1/00 ( 2006.01 )  
 B67D 1/08 ( 2006.01 )  
 B67D 1/14 ( 2006.01 )  
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 (51) Int. Cl.  
 C07K 14/22 ( 2006.01 )  
 A61K 39/095 ( 2006.01 )  
 C07K 16/12 ( 2006.01 )  
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 (51) Int. Cl.  
 A01M 1/04 ( 2006.01 )  
 A01M 1/22 ( 2006.01 )  
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 A61B 17/16 ( 2006.01 )  
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 A61M 1/00 ( 2006.01 )  
 A61M 5/00 ( 2006.01 )  
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 (21) 2020204605 (22) 09.07.2020  
 (54) Systems, methods, and apparatus for agricultural liquid application  
 (51) Int. Cl.  
 A01C 7/06 ( 2006.01 )  
 A01B 49/04 ( 2006.01 )  
 A01B 49/06 ( 2006.01 )  
 A01C 15/00 ( 2006.01 )  
 A01C 21/00 ( 2006.01 )  
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KOCH, Dale; MORGAN, Matt; LEMAN, Tracy; WILDERMUTH, Paul; KOCH, Justin  
**(74)** Spruson & Ferguson

**Prologium Holding Inc. see Prologium Technology Co., Ltd.**  
**(21)** 2021205001

**(71)** Prologium Technology Co., Ltd.; Prologium Holding Inc.  
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**(54)** Thermal Runaway Suppressant of Lithium Batteries and the Related Applications  
**(51)** Int. Cl.  
*H01M 10/60* ( 2014.01 )  
*H01M 10/052* ( 2010.01 )  
*H01M 10/654* ( 2014.01 )  
*H01M 10/6595* ( 2014.01 )  
**(31)** 63/058,205 **(32)** 29.07.20 **(33)** US  
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**(72)** YANG, Szu-Nan  
**(74)** A.P.T. Patent and Trade Mark Attorneys

**(71)** Push Through Innovation Corp  
**(11)** AU-B-2018275145  
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**(54)** Interest-based and bibliographical data-based multimedia content exploration, curation and organization  
**(51)** Int. Cl.  
*H04N 21/439* ( 2011.01 )  
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**(72)** Webster, Austin  
**(74)** Intelpro Patent & Trade Mark Attorneys

**Qingdao Haier Refrigerator Co., Ltd. see Qingdao Haier Special Refrigerator Co., Ltd**  
**(21)** 2020214406

**Qingdao Haier Refrigerator Co., Ltd. see Qingdao Haier Special Refrigeration Electric Appliance Co., Ltd.**  
**(21)** 2020318183

**(71)** Qingdao Haier Special Refrigeration Electric Appliance Co., Ltd.; Qingdao Haier Refrigerator Co., Ltd.; Haier Smart Home Co., Ltd.  
**(11)** AU-B-2020318183  
**(21)** 2020318183 **(22)** 20.07.2020  
**(54)** Refrigerating and freezing device  
**(51)** Int. Cl.  
*F25D 17/08* ( 2006.01 )

*F25D 11/02* ( 2006.01 )  
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**(11)** AU-B-2020214406  
**(21)** 2020214406 **(22)** 20.01.2020  
**(54)** Heating device and refrigerator having same  
**(51)** Int. Cl.  
*H05B 6/10* ( 2006.01 )  
*A23L 3/365* ( 2006.01 )  
*F25D 23/12* ( 2006.01 )  
*H05B 6/06* ( 2006.01 )  
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**(72)** WANG, Haijuan; LI, Peng  
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**(11)** AU-B-2018401978  
**(21)** 2018401978 **(22)** 21.12.2018  
**(54)** Method and system for generating a random bit sample  
**(51)** Int. Cl.  
*H03K 3/84* ( 2006.01 )  
*G06N 10/00* ( 2019.01 )  
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**(31)** 62/617,444 **(32)** 15.01.18 **(33)** US  
**(43)** 18.07.2019  
**(44)** 30.03.2023  
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**(74)** Griffith Hack

**(71)** Rabhi, V.  
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**(21)** 2018206286 **(22)** 03.01.2018  
**(54)** Synchronized free-wheel roller  
**(51)** Int. Cl.  
*F16C 33/34* ( 2006.01 )  
*F16C 27/06* ( 2006.01 )  
*F16C 33/30* ( 2006.01 )  
*F16H 55/14* ( 2006.01 )  
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**(72)** Rabhi, Vianney  
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**(71)** Radio Systems Corporation  
**(11)** AU-B-2017279593  
**(21)** 2017279593 **(22)** 19.12.2017  
**(54)** Pet door having insulating flap  
**(51)** Int. Cl.  
*E06B 7/32* ( 2006.01 )  
*A01K 1/00* ( 2006.01 )

*E06B 7/00* ( 2006.01 )  
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**(43)** 05.07.2018  
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**(71)** RAI Strategic Holdings, Inc.  
**(11)** AU-B-2017362059  
**(21)** 2017362059 **(22)** 15.11.2017  
**(54)** Induction-based aerosol delivery device  
**(51)** Int. Cl.  
*A24F 47/00* ( 2006.01 )  
*H02J 50/12* ( 2016.01 )  
*H05B 6/10* ( 2006.01 )  
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**(43)** 24.05.2018  
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**(54)** PCSK9 antibody preparations for delivery into a lumen of the intestinal tract using a swallowable drug delivery device  
**(51)** Int. Cl.  
*A61K 39/395* ( 2006.01 )  
*A61K 9/00* ( 2006.01 )  
*A61K 31/40* ( 2006.01 )  
*A61K 31/505* ( 2006.01 )  
*A61K 38/22* ( 2006.01 )  
*A61M 5/00* ( 2006.01 )  
*A61M 25/10* ( 2006.01 )  
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**(74)** FPA Patent Attorneys Pty Ltd

**(71)** Razer (Asia-Pacific) Pte. Ltd.  
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**(21)** 2017435839 **(22)** 10.10.2017  
**(54)** Method and apparatus for analyzing mouse gliding performance  
**(51)** Int. Cl.  
*G06F 3/0354* ( 2013.01 )  
*G06F 3/0346* ( 2013.01 )  
*G06F 3/038* ( 2013.01 )  
**(87)** WO2019/074440  
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**(72)** LEE, Kah Yong; LIEN, Jian Yao  
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**(71)** REC Solar Pte. Ltd.  
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 (51) Int. Cl.  
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 (54) System and method for characterizing protein dimerization  
 (51) Int. Cl.  
*G01N 33/68* ( 2006.01 )  
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 (51) Int. Cl.  
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*A01K 67/027* ( 2006.01 )  
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 (54) Systems and methods for creating curved paths through bone and modulating nerves within the bone  
 (51) Int. Cl.  
*A61B 17/16* ( 2006.01 )  
*A61B 17/34* ( 2006.01 )  
*A61B 17/56* ( 2006.01 )  
*A61B 17/70* ( 2006.01 )  
*A61B 18/12* ( 2006.01 )  
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 (72) PATEL, Samit; PELLEGRINO, Richard; FLAGLER, Robert  
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(71) ResMed Pty Ltd  
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 (54) Gas washout vent for patient interface  
 (51) Int. Cl.

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(71) Reynolds Presto Products Inc.  
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 (21) 2020297447 (22) 17.06.2020  
 (54) Slider device, zipper closure system, and methods of use  
 (51) Int. Cl.  
*B65D 33/25* ( 2006.01 )  
 (87) WO2020/257305  
 (31) 16/449,036 (32) 21.06.19 (33) US  
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(71) RFID Technologies Pty Ltd  
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 (54) RFID tag and reader  
 (51) Int. Cl.  
*H01Q 21/24* ( 2006.01 )  
*G06K 7/00* ( 2006.01 )  
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 (74) Davies Collison Cave Pty Ltd

(71) Rowe, G.  
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 (21) 2021221683 (22) 25.08.2021  
 (54) A system and method for liquefying production gas from a gas source  
 (51) Int. Cl.  
*F25J 3/06* ( 2006.01 )  
 (43) 23.09.2021  
 (44) 30.03.2023  
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 (72) Rowe, Geoff  
 (74) AJ PARK

(71) S&C Electric Company  
 (11) AU-B-2021269292  
 (21) 2021269292 (22) 15.11.2021  
 (54) Fault isolation - no voltage sensor  
 (51) Int. Cl.  
*H02H 3/07* ( 2006.01 )  
*G01R 31/08* ( 2020.01 )  
*H02H 3/08* ( 2006.01 )  
*H02H 3/16* ( 2006.01 )  
*H02H 3/28* ( 2006.01 )  
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 (31) 63/122,150 (32) 07.12.20 (33) US  
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 (74) Spruson & Ferguson

(71) SAIC MOTOR Corporation Limited  
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 (54) VEHICLE ENGINE CONTROL METHOD AND VEHICLE BODY CONTROL MODULE  
 (51) Int. Cl.  
*B60W 50/035* ( 2012.01 )  
*B60W 10/04* ( 2006.01 )  
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 (72) WANG, Daocheng; XIE, Mingshi; WANG, Wanrong; SHEN, Xiaobin; CHEN, Yanzi  
 (74) Murray Trento & Associates Pty Ltd

Saint-Gobain Abrasifs see Saint-Gobain Abrasives, Inc.  
 (21) 2020308028

(71) Saint-Gobain Abrasives, Inc.; Saint-Gobain Abrasifs  
 (11) AU-B-2020308028  
 (21) 2020308028 (22) 26.06.2020  
 (54) Abrasive article and method of forming  
 (51) Int. Cl.  
*B24D 3/10* ( 2006.01 )  
*B24D 18/00* ( 2006.01 )  
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 (31) 201910584014.5 (32) 28.06.19 (33) CN  
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 (74) James & Wells Intellectual Property

(71) Saluda Medical Pty Ltd  
 (11) AU-B-2020277131  
 (21) 2020277131 (22) 24.11.2020  
 (54) NEURAL STIMULATION DOSING  
 (51) Int. Cl.  
*A61N 1/05* ( 2006.01 )  
*A61N 1/34* ( 2006.01 )  
*A61N 1/36* ( 2006.01 )  
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 (62) 2015292272  
 (72) Parker, John Louis  
 (74) Monks IP

(71) Sami Labs Limited  
 (11) AU-B-2017356883  
 (21) 2017356883 (22) 07.11.2017  
 (54) Composition containing Oroxylin a and method of extraction thereof  
 (51) Int. Cl.  
*A61K 31/353* ( 2006.01 )  
*A61K 31/7048* ( 2006.01 )  
 (87) WO2018/089325  
 (31) 62/420,676 (32) 11.11.16 (33) US

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 (72) Majeed, Muhammed; Nagabhushanam, Kalyanam; Bhat, Beena; Pande, Anurag  
 (74) AJ PARK

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(71) Samsung Electronics Co., Ltd.  
 (11) AU-B-2018388526  
 (21) 2018388526 (22) 19.12.2018  
 (54) Module comprising antenna and RF element, and base station including same  
 (51) Int. Cl.  
*H01Q 1/38* (2006.01)  
*H01Q 1/02* (2006.01)  
*H01Q 1/24* (2006.01)  
*H01Q 9/04* (2006.01)  
*H04Q 1/02* (2006.01)  
 (87) WO2019/124984  
 (31) 10-2017-0175064 (32) 19.12.17 (33) KR  
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**Samsung Life Public Welfare Foundation see Genzyme Corporation**  
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 (51) Int. Cl.  
*B25J 9/10* (2006.01)  
*B25J 15/00* (2006.01)  
*B25J 15/02* (2006.01)  
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 (51) Int. Cl.  
*H01H 1/24* (2006.01)  
*H01H 13/28* (2006.01)  
*H01R 4/02* (2006.01)  
*H01R 4/28* (2006.01)  
*H01R 4/58* (2006.01)  
*H01R 13/629* (2006.01)  
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*A61K 39/395* (2006.01)  
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*F21V 23/04* (2006.01)  
*F21V 15/01* (2006.01)  
*F21V 31/00* (2006.01)  
*F21W 131/103* (2006.01)  
*F21Y 115/10* (2016.01)  
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 (51) Int. Cl.  
*G01R 31/36* (2006.01)  
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 (51) Int. Cl.  
*H01Q 1/24* (2006.01)  
*H01Q 3/14* (2006.01)  
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*H01Q 5/45* (2015.01)  
*H01Q 15/16* (2006.01)  
*H01Q 19/17* (2006.01)  
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*H01Q 21/00* (2006.01)  
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*G06F 21/51* (2013.01)  
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*H04L 9/32* (2006.01)  
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 (51) Int. Cl.  
*C12Q 1/683* (2018.01)  
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 (74) Pearce IP Pty Ltd

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 (54) Conveying screw for a cutting and separating device  
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*A22C 17/00* (2006.01)  
*A22C 21/00* (2006.01)  
*B02C 18/30* (2006.01)  
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(71) ServiceNow, Inc.  
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 (54) Intelligent load balancer  
 (51) Int. Cl.  
*G06F 9/50* ( 2006.01 )  
*H04L 47/125* ( 2022.01 )  
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 (72) MOHANTY, Amitav; DURVASULA, Sreenivas  
 (74) FPA Patent Attorneys Pty Ltd

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 (54) Sensitive data detection and replacement  
 (51) Int. Cl.  
*G06F 21/60* ( 2013.01 )  
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 (74) Griffith Hack

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 (51) Int. Cl.  
*C01B 32/05* ( 2017.01 )  
*B01J 8/12* ( 2006.01 )  
*B01J 8/18* ( 2006.01 )  
*D01F 9/00* ( 2006.01 )  
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(71) Shanghai United Imaging Healthcare Co., Ltd.  
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 (54) Systems and methods for digital radiography  
 (51) Int. Cl.  
*A61B 6/00* ( 2006.01 )  
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 (72) TAO, Xunsan  
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(71) SharkNinja Operating LLC  
 (11) AU-B-2019362030  
 (21) 2019362030 (22) 18.10.2019  
 (54) Agitator for a surface treatment apparatus and a surface treatment apparatus having the same  
 (51) Int. Cl.  
*A47L 9/04* ( 2006.01 )  
*A47L 5/10* ( 2006.01 )  
*A47L 5/30* ( 2006.01 )  
*A47L 9/02* ( 2006.01 )  
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 (31) 62/747,991 (32) 19.10.18 (33) US  
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 (21) 2019263863 (22) 30.04.2019  
 (54) Technique for regulating JAK-STAT pathway to allow cell differentiation, dedifferentiation, and rejuvenation, and applications of technique  
 (51) Int. Cl.  
*C12N 5/071* ( 2010.01 )  
*A61K 48/00* ( 2006.01 )  
*A61P 37/02* ( 2006.01 )  
 (87) WO2019/210851  
 (31) 201810407253.9 (32) 01.05.18 (33) CN  
 (43) 07.11.2019  
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 (11) AU-B-2019263866  
 (21) 2019263866 (22) 01.05.2019  
 (54) Preparation method for rejuvenated regenerative fibroblast and application thereof  
 (51) Int. Cl.  
*C12N 5/077* ( 2010.01 )  
*A61K 48/00* ( 2006.01 )  
*A61P 43/00* ( 2006.01 )  
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(71) Shenzhen Alpha Biopharmaceutical Co., Ltd.  
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 (21) 2019263866 (22) 01.05.2019  
 (54) Preparation method for rejuvenated regenerative fibroblast and application thereof  
 (51) Int. Cl.  
*C12N 5/077* ( 2010.01 )  
*A61K 48/00* ( 2006.01 )  
*A61P 43/00* ( 2006.01 )  
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(71) Shionogi & Co., Ltd.; National University Corporation Hokkaido University  
 (11) AU-B-2022204775  
 (21) 2022204775 (22) 17.02.2022  
 (54) Triazine derivative having virus propagation inhibitory effect, and pharmaceutical composition containing same  
 (51) Int. Cl.  
*C07D 403/14* ( 2006.01 )  
*A61K 31/53* ( 2006.01 )  
*A61P 31/14* ( 2006.01 )  
*A61P 43/00* ( 2006.01 )  
 (87) WO2022/138988  
 (31) 2021-068672 (32) 14.04.21 (33) JP  
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 (21) 2017238648

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 (21) 2018251183 (22) 13.04.2018  
 (54) Humanized monoclonal advanced glycation end-product antibody  
 (51) Int. Cl.  
*C07K 16/44* ( 2006.01 )  
*A61K 39/00* ( 2006.01 )  
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 (43) 18.10.2018  
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 (72) Gruber, Lewis S.  
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(71) Smartsky Networks LLC  
 (11) AU-B-2019225991  
 (21) 2019225991 (22) 21.02.2019  
 (54) Optimized position information assisted beamforming  
 (51) Int. Cl.  
*H04B 7/185* ( 2006.01 )  
*G01S 19/22* ( 2010.01 )  
*G01S 19/42* ( 2010.01 )  
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 (11) AU-B-2017331740  
 (21) 2017331740 (22) 18.09.2017  
 (54) Universal dispenser monitor  
 (51) Int. Cl.  
*B67D 7/08* ( 2010.01 )

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**A47G 23/10** ( 2006.01 )  
**A47K 5/06** ( 2006.01 )  
**A47K 10/32** ( 2006.01 )  
**B65B 1/30** ( 2006.01 )  
**B67D 1/08** ( 2006.01 )  
**(87)** WO2018/053627  
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**(43)** 29.03.2018  
**(44)** 30.03.2023  
**(72)** Singh, Gavin; Bondarenko, Volodimir  
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**(71)** Smiths Medical ASD, Inc.  
**(11)** AU-B-2021206876  
**(21)** 2021206876 **(22)** 22.07.2021  
**(54)** Closed system catheter  
**(51)** Int. Cl.  
**A61M 25/00** ( 2006.01 )  
**A61M 25/02** ( 2006.01 )  
**A61M 25/06** ( 2006.01 )  
**A61M 39/02** ( 2006.01 )

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**(74)** Spruson & Ferguson

**(71)** Snap-on Incorporated  
**(11)** AU-B-2021204599  
**(21)** 2021204599 **(22)** 01.07.2021  
**(54)** Ergonomic housing for a power tool  
**(51)** Int. Cl.  
**B25F 5/02** ( 2006.01 )  
**(31)** 17/348,050 **(32)** 15.06.21 **(33)** US  
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**(43)** 27.01.2022  
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**(72)** PATTERSON, Matthew D.; DANCE, William B.  
**(74)** Griffith Hack

**(71)** Société des Produits Nestlé S.A.  
**(11)** AU-B-2021202748  
**(21)** 2021202748 **(22)** 03.05.2021  
**(54)** Composition in powder form comprising iron-milk protein complexes and probiotic bacteria  
**(51)** Int. Cl.  
**A23K 20/20** ( 2016.01 )  
**A23C 9/13** ( 2006.01 )  
**A23C 9/152** ( 2006.01 )  
**A23C 9/20** ( 2006.01 )  
**A23L 29/294** ( 2016.01 )  
**A23L 33/00** ( 2016.01 )  
**A23L 33/135** ( 2016.01 )  
**A23L 33/165** ( 2016.01 )  
**A23L 33/19** ( 2016.01 )  
**A61K 31/295** ( 2006.01 )  
**A61K 33/26** ( 2006.01 )  
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**(44)** 30.03.2023  
**(62)** 2017377774  
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**(74)** Spruson & Ferguson

**(71)** Soft-Tex Group, Inc.  
**(11)** AU-B-2019324115  
**(21)** 2019324115 **(22)** 12.08.2019  
**(54)** Cooling body support cushion and pillow  
**(51)** Int. Cl.  
**A47C 7/74** ( 2006.01 )  
**A47C 27/14** ( 2006.01 )  
**A47C 27/15** ( 2006.01 )  
**A47G 9/10** ( 2006.01 )  
**(87)** WO2020/041028  
**(31)** 62/722,177 **(32)** 24.08.18 **(33)** US  
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**(43)** 27.02.2020  
**(44)** 30.03.2023  
**(72)** SMIDERLE, Mark  
**(74)** Griffith Hack

**(71)** Som Innovation Biotech, S.L.  
**(11)** AU-B-2017303333  
**(21)** 2017303333 **(22)** 28.07.2017  
**(54)** Sustained release composition comprising micronized tolcapone  
**(51)** Int. Cl.  
**A61K 9/20** ( 2006.01 )  
**A61K 31/195** ( 2006.01 )  
**(87)** WO2018/019997  
**(31)** 16382372.7 **(32)** 29.07.16 **(33)** EP  
**(43)** 01.02.2018  
**(44)** 30.03.2023  
**(72)** Nardi Ricart, Anna; Suñé Negre, Josep Maria; Reig Bolaño, Núria; Insa Boronat, Raúl; Huertas Gambín, Oscar; Esteve Gras, Santiago; Pericot Mohr, Galia  
**(74)** FB Rice Pty Ltd

**(71)** Sonos, Inc.  
**(11)** AU-B-2022259837  
**(21)** 2022259837 **(22)** 28.10.2022  
**(54)** Systems and methods for networked music playback  
**(51)** Int. Cl.  
**H04L 12/16** ( 2006.01 )  
**H04N 21/436** ( 2011.01 )

**(43)** 08.12.2022  
**(44)** 30.03.2023  
**(62)** 2020239784  
**(72)** COBURN, Arthur; HOADLEY, Joni  
**(74)** Spruson & Ferguson

**(71)** Sound Fun Corporation  
**(11)** AU-B-2020351459  
**(21)** 2020351459 **(22)** 14.09.2020  
**(54)** Speaker unit and speaker  
**(51)** Int. Cl.  
**H04R 1/24** ( 2006.01 )  
**H04R 7/04** ( 2006.01 )  
**H04R 7/12** ( 2006.01 )  
**H04R 9/06** ( 2006.01 )  
**(87)** WO2021/054295  
**(31)** 2019-167908 **(32)** 17.09.19 **(33)** JP  
**(43)** 25.03.2021

**(44)** 30.03.2023  
**(72)** TANAKA, Hiroshi; SUZUKI, Masahiro  
**(74)** Griffith Hack

**State Grid Blockchain Technology (Beijing) Co., Ltd. see State Grid Digital Technology Holding CO., LTD.**  
**(21)** 2021342399

**(71)** State Grid Digital Technology Holding CO., LTD.; State Grid Blockchain Technology (Beijing) Co., Ltd.; State Grid Xiong'an Financial Technology Group Co., Ltd.; State Grid Henan Information & Telecommunication Company; Information and Communication Branch of State Grid Fujian Electric Power Co., Ltd.

**(11)** AU-B-2021342399 **(22)** 30.08.2021  
**(54)** Blockchain-based electricity charge settlement method and system for energy storage station  
**(51)** Int. Cl.  
**G06Q 50/06** ( 2012.01 )  
**(87)** WO2022/105349  
**(31)** 202011307596.1 **(32)** 19.11.20 **(33)** CN  
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**(44)** 30.03.2023  
**(72)** YAN, Huafeng; WANG, Dong; XUAN, Jiaying; LI, Da; CHEN, Shuai; HAN, Shaoqin; CAI, Yuxiang; DONG, Yanxu; XUE, Zhen; JIA, Zheng; WANG, Xinyan  
**(74)** Madderns Pty Ltd

**State Grid Henan Information & Telecommunication Company see State Grid Digital Technology Holding CO., LTD.**  
**(21)** 2021342399

**State Grid Xiong'an Financial Technology Group Co., Ltd. see State Grid Digital Technology Holding CO., LTD.**  
**(21)** 2021342399

**(71)** STC. UNM; Szauter, P.; Sinclair, R.  
**(11)** AU-B-2017238648  
**(21)** 2017238648 **(22)** 24.03.2017  
**(54)** Method of detecting inherited equine myopathy  
**(51)** Int. Cl.  
**G01N 33/48** ( 2006.01 )  
**A61D 99/00** ( 2006.01 )  
**C07H 21/04** ( 2006.01 )  
**C12N 15/12** ( 2006.01 )  
**C12Q 1/68** ( 2006.01 )  
**(87)** WO2017/165733  
**(31)** 62/421,625 **(32)** 14.11.16 **(33)** US  
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**(43)** 28.09.2017  
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**(72)** Edwards, Jeremy Scott; Szauter, Paul; Sinclair, Robert B.  
**(74)** Pizeys Patent and Trade Mark Attorneys Pty Ltd

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 (21) 2021204610 (22) 01.07.2021  
 (54) Patient support usable with bariatric patients  
 (51) Int. Cl.  
**A61G 7/05** ( 2006.01 )  
**A61G 7/002** ( 2006.01 )  
**A61G 7/018** ( 2006.01 )  
**A61G 7/065** ( 2006.01 )  
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 (74) Davies Collison Cave Pty Ltd

(71) Stryker Corporation  
 (11) AU-B-2021245238  
 (21) 2021245238 (22) 08.10.2021  
 (54) Patient support apparatuses with wireless headwall communication  
 (51) Int. Cl.  
**A61G 12/00** ( 2006.01 )  
**A61G 7/00** ( 2006.01 )  
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 (72) Bhimavarapu, Krishna Sandeep; Desaulniers, Annie; Hayes, Michael Joseph  
 (74) Davies Collison Cave Pty Ltd

(71) Suez International  
 (11) AU-B-2017344850  
 (21) 2017344850 (22) 11.10.2017  
 (54) Device for treating an effluent and method for treating an effluent  
 (51) Int. Cl.  
**B01D 33/04** ( 2006.01 )  
**B01D 37/02** ( 2006.01 )  
**C02F 1/28** ( 2006.01 )  
**C02F 1/38** ( 2006.01 )  
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 (31) 1660035 (32) 17.10.16 (33) FR  
 (43) 26.04.2018  
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 (72) Domenjoud, Bruno; Manic, Gildas  
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(71) Sungrow Power Supply Co., Ltd.  
 (11) AU-B-2021232772  
 (21) 2021232772 (22) 16.09.2021  
 (54) Method and device for primary frequency modulation in new energy power generation  
 (51) Int. Cl.  
**H02J 3/38** ( 2006.01 )  
**H02J 3/48** ( 2006.01 )  
 (31) 202011267910.8 (32) 13.11.20 (33) CN  
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 (74) FB Rice Pty Ltd

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*A61F 2/28* ( 2006.01 )  
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*C07D 213/06* ( 2006.01 )  
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*H04L 12/18* ( 2006.01 )  
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 methods  
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 POLYMER FORMULATIONS FOR  
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 measurement method using the same  
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**G09F 13/04** ( 2006.01 )  
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- (71)** Zoetis Services LLC  
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**(51)** Int. Cl.  
**B01L 3/00** ( 2006.01 )  
**B81B 1/00** ( 2006.01 )  
**G01N 1/28** ( 2006.01 )  
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**(21)** 2021258004 **(22)** 28.10.2021  
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**(51)** Int. Cl.  
**H04W 72/04** ( 2009.01 )  
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<b>2016323447</b>	Scholar Rock, Inc.	<b>2018201314</b>	Fujitsu General Limited
<b>2016341529</b>	Juno Therapeutics GmbH	<b>2018201460</b>	Medos International Sarl
<b>2016372035</b>	Genzyme Corporation; Samsung Life Public Welfare Foundation	<b>2018206286</b>	Rabhi, V.
<b>2016389495</b>	Cedars-Sinai Medical Center	<b>2018225295</b>	Lightforce USA, Inc., D/B/A/ Nightforce Optics
<b>2016404262</b>	Kimberly-Clark Worldwide, Inc.	<b>2018226543</b>	Albemarle Europe SRL; Lummus Technology LLC
<b>2016413896</b>	Electrolux Appliances Aktiebolag	<b>2018228719</b>	Affimed GmbH
<b>2017209041</b>	Laboratory Corporation of America Holdings	<b>2018228880</b>	I.C. Medical, Inc.
<b>2017231580</b>	Mimetas B.V.	<b>2018230707</b>	I.C. Medical, Inc.
<b>2017235484</b>	BASF SE	<b>2018230777</b>	iRepertoire, Inc.
<b>2017235840</b>	Fisher & Paykel Healthcare Limited	<b>2018231237</b>	Piper Access, LLC.
<b>2017238648</b>	STC. UNM; Szauter, P.; Sinclair, R.	<b>2018251183</b>	SIWA Corporation
<b>2017250505</b>	Trigemina, Inc.	<b>2018253706</b>	Shandong Dazhan Nano Materials Co., Ltd
<b>2017253152</b>	Electrolux Appliances Aktiebolag	<b>2018254610</b>	Zoetis Services LLC
<b>2017253934</b>	PepsiCo, Inc.	<b>2018254834</b>	Weatherford Technology Holdings, LLC
<b>2017257447</b>	nChain Holdings Limited	<b>2018255494</b>	Legrand Australia Pty Ltd
<b>2017258415</b>	Memorial Sloan Kettering Cancer Center; Cornell University	<b>2018255842</b>	Hilti Aktiengesellschaft
<b>2017260355</b>	Codexis, Inc.	<b>2018256926</b>	TuSimple, Inc.
<b>2017261615</b>	Freswin Engineering Pty Ltd	<b>2018269124</b>	Discovery Purchase Corporation
<b>2017261679</b>	Technip France	<b>2018271298</b>	Ethicon, Inc.
<b>2017261847</b>	Medlab IP Pty Ltd	<b>2018272912</b>	Huntleigh Technology Limited
<b>2017263851</b>	Schumacher Electric Corporation	<b>2018275145</b>	Push Through Innovation Corp
<b>2017264807</b>	Muggleton, K.	<b>2018277261</b>	REC Solar Pte. Ltd.
<b>2017265066</b>	Muro Corporation	<b>2018280239</b>	Becton, Dickinson and Company
<b>2017266626</b>	Synhelion SA	<b>2018289646</b>	Tokuyama Corporation
<b>2017267425</b>	Adrok Limited	<b>2018292281</b>	Auris Health, Inc.
<b>2017269050</b>	In Ovo Holding B.V.	<b>2018295871</b>	LG Electronics Inc.
<b>2017270086</b>	Divergent Technologies, Inc.	<b>2018301495</b>	Callyo 2009 Corp.
<b>2017272721</b>	Astellas Pharma Inc.; National University Corporation Tottori University	<b>2018308379</b>	Sea Tel, Inc. (D/B/A Cobham Satcom)
<b>2017273247</b>	Nupuk Limited	<b>2018309090</b>	Amgen Inc.
<b>2017279593</b>	Radio Systems Corporation	<b>2018311054</b>	TrellisWare Technologies, Inc.
<b>2017285210</b>	Waters, J.	<b>2018320673</b>	Merck Patent GmbH
<b>2017289331</b>	Yun NV; Universiteit Antwerpen	<b>2018321084</b>	Novomatic AG
<b>2017290703</b>	Emergent Biodefense Operations Lansing LLC	<b>2018325267</b>	University of Washington
<b>2017299082</b>	Institut national de recherche pour l'agriculture, l'alimentation et l'environnement; IFP Energies Nouvelles	<b>2018332878</b>	EOTECH, LLC
<b>2017299137</b>	Bionou Research, S.L.; Biopolis, S.L.	<b>2018333030</b>	Expro North Sea Limited
<b>2017303333</b>	Som Innovation Biotech, S.L.	<b>2018334150</b>	Ocologica Inc.
<b>2017305133</b>	Hunter Douglas Limited	<b>2018336731</b>	Huawei Digital Power Technologies Co., Ltd.
<b>2017305498</b>	Takeda Vaccines, Inc.	<b>2018339506</b>	Lunaphore Technologies SA
<b>2017305532</b>	Knapp GmbH	<b>2018341597</b>	PayPal, Inc.
<b>2017306698</b>	Wake Forest University Health Sciences	<b>2018341781</b>	Cstone Pharmaceuticals (Suzhou) Co., Ltd.; Cstone Pharmaceuticals (Shanghai) Co., Ltd.; Cstone Pharmaceuticals
<b>2017322409</b>	Locus IP Company, LLC	<b>2018354067</b>	Pfenex Inc.
<b>2017326400</b>	F. Hoffmann-La Roche AG	<b>2018360854</b>	Calico Life Sciences LLC; AbbVie Inc.
<b>2017331740</b>	Smart Wave Technologies Inc.	<b>2018365174</b>	Enanta Pharmaceuticals, Inc.
<b>2017339096</b>	Oblique Therapeutics AB	<b>2018365320</b>	Fimbinger, J.
<b>2017339121</b>	Kone Corporation	<b>2018375199</b>	Ultragenyx Pharmaceutical Inc.
<b>2017344001</b>	InnovoSciences LLC	<b>2018386998</b>	Casale SA
<b>2017344850</b>	Suez International	<b>2018388526</b>	Samsung Electronics Co., Ltd.
<b>2017345163</b>	DDP Specialty Electronic Materials US, LLC	<b>2018395081</b>	Huawei Technologies Co., Ltd.
<b>2017356883</b>	Sami Labs Limited	<b>2018401978</b>	Quantum Numbers Corp.
<b>2017357857</b>	Galvion Ltd	<b>2018412406</b>	Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.
<b>2017358062</b>	ResMed Pty Ltd	<b>2019203410</b>	NANOBACTERIE
<b>2017360943</b>	O&M Halyard International Unlimited Company	<b>2019203767</b>	Nakamura, K.
<b>2017361155</b>	Tokyo University of Science Foundation	<b>2019214558</b>	Beka Schreder (Proprietary) Ltd
<b>2017361382</b>	Tactile Systems Technology, Inc.	<b>2019215125</b>	Regeneron Pharmaceuticals, Inc.
<b>2017362059</b>	RAI Strategic Holdings, Inc.	<b>2019217528</b>	Flexgen Power Systems, Inc.
<b>2017365618</b>	De' Longhi Appliances S.r.l.	<b>2019224913</b>	Hardt IP B.V.
<b>2017368611</b>	Nippon Shokubai Co., Ltd.	<b>2019225991</b>	Smartsky Networks LLC
<b>2017374516</b>	Equinor Energy AS	<b>2019228727</b>	Mimetas B.V.
<b>2017385006</b>	Lone Gull Holdings, Ltd.	<b>2019233733</b>	Schreder S.A.
<b>2017398473</b>	AxoGen Corporation	<b>2019234104</b>	Canva Pty Ltd.
<b>2017427495</b>	NTT DOCOMO, INC.	<b>2019234656</b>	CloudBlue LLC
<b>2017435839</b>	Razer (Asia-Pacific) Pte. Ltd.	<b>2019238946</b>	AB Dynamoborstfabriken
		<b>2019239984</b>	NATIONAL HEALTH RESEARCH INSTITUTES
		<b>2019263863</b>	Shenzhen Alpha Biopharmaceutical Co., Ltd.

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2019263866	Shenzhen Alpha Biopharmaceutical Co. Ltd.	2020236235	LSI Solutions, Inc.
2019267033	LG Electronics Inc.	2020236452	Hangzhou Hikvision Digital Technology Co., Ltd.
2019270865	LaNova Medicines Limited	2020240019	Lantech.com, LLC
2019279371	Genopsy Co., Ltd.	2020245002	LG Electronics Inc.
2019283621	Korea Research Institute of Bioscience and Biotechnology	2020245138	Baker Hughes Oilfield Operations LLC
2019293714	CureVac RNA Printer GmbH; Tesla Automation GmbH	2020246272	Asahi Inovex Corp.
2019297466	Metalogenia Research & Technologies, S.L.	2020250254	Editas Medicine, Inc.; The Broad Institute, Inc.; The University of Iowa Research Foundation; Massachusetts Institute of Technology
2019300763	Trotter, V.	2020250454	BEIJING UNISOC COMMUNICATIONS TECHNOLOGY CO., LTD.
2019311340	Sense Biodetection Limited	2020250749	Alfa Laval Corporate AB
2019314261	Monsanto Technology LLC	2020250883	Metso Outotec Finland Oy
2019314560	Peloton Interactive, Inc.	2020251539	Dai Nippon Printing Co., Ltd.
2019322103	Apacor Limited	2020252607	Daikin Industries, Ltd.
2019324115	Soft-Tex Group, Inc.	2020253460	Nexa3D Inc.
2019332514	Doosan Mobility Innovation Inc.	2020260398	Regeneron Pharmaceuticals, Inc.
2019334749	LG Electronics Inc.	2020261429	PIC Corporation
2019339852	Kawasaki Jukogyo Kabushiki Kaisha	2020270428	Cvent, Inc.
2019344929	Gilead Sciences, Inc.	2020273806	Kabushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.)
2019352419	LG Electronics Inc.	2020274007	Google LLC
2019352420	LG Electronics Inc.	2020276198	SecurityMetrics, Inc.
2019353516	LG Electronics Inc.	2020277131	Saluda Medical Pty Ltd
2019353717	L'Oreal	2020278015	Baker Hughes Oilfield Operations LLC
2019358967	Zega Holdings Pty Ltd	2020283968	Coöperatie Koninklijke Avebe U.A.
2019359398	Tambo, Inc.; The Research Foundation for The State University of New York	2020285795	Beijing Goldwind Science & Creation Windpower Equipment Co., Ltd.
2019361779	Unigen, Inc.	2020289724	Uncinate Joint, LLC
2019362030	SharkNinja Operating LLC	2020292304	BioAtla, Inc.
2019366169	SERVICENOW CANADA INC.	2020294211	RFID Technologies Pty Ltd
2019371545	Nippon Telegraph and Telephone Corporation	2020297447	Reynolds Presto Products Inc.
2019373294	Inventio AG	2020300516	PayPal, Inc.
2019380343	CHEP Technology Pty Limited	2020304788	International Business Machines Corporation
2019384810	Hadal, Inc.	2020308028	Saint-Gobain Abrasives, Inc.; Saint-Gobain Abrasifs
2019390474	Insulet Corporation	2020309307	F. Hoffmann-La Roche AG
2019394365	FutureFeed Pty Ltd	2020310108	ServiceNow, Inc.
2019398297	Kraft Foods Schweiz Holding GmbH	2020318183	Qingdao Haier Special Refrigeration Electric Appliance Co., Ltd.; Qingdao Haier Refrigerator Co., Ltd.; Haier Smart Home Co., Ltd.
2019400521	CJ Cheiljedang Corporation	2020322810	Jiangyin Xingcheng Special Steel Works Co., Ltd
2019401170	Huawei Technologies Co., Ltd.	2020325153	Biocompatibles UK Limited; Goulet, M.
2019406218	W. L. Gore & Associates, Inc.	2020325292	Netflix, Inc.
2019406476	Bridgestone Americas Tire Operations, LLC	2020327928	Boston Scientific Neuromodulation Corporation
2019419409	Sarcos Corp.	2020330794	Tokyo Electric Power Company Holdings, Incorporated; Meidensha Corporation
2019420126	Fast IP, LLC	2020333539	Netflix, Inc.
2019424830	Hill's Pet Nutrition, Inc.	2020341251	EAP® Produktions- und Patentverwertungs- GmbH
2019428019	Boston Scientific Neuromodulation Corporation	2020341484	Netflix, Inc.
2019428713	Hewlett-Packard Development Company, L.P.	2020343927	Everseen Limited
2019429350	Mitsubishi Electric Corporation	2020345070	SEPAgrind GmbH
2019430122	W. L. Gore & Associates, Inc.	2020348214	Tencent America LLC
2019440257	You, L.	2020351459	Sound Fun Corporation
2019445991	Mitsubishi Electric Corporation	2020364348	Tencent America LLC
2019449028	Essity Hygiene and Health Aktiebolag	2020373691	JFE Steel Corporation
2019453586	Mitsubishi Electric Corporation	2020392112	Enphase Energy, Inc.
2019458741	Intuit Inc.	2020398338	Locata Corporation Pty Ltd
2019461061	Nippon Telegraph and Telephone Corporation	2020398565	Tencent America LLC
2019470602	Creative Cosmetic Concepts, LLC	2020400935	Fronius International GmbH
2019472457	Husqvarna AB	2020415272	Tencent America LLC
2020204605	Precision Planting LLC	2020415292	Tencent America LLC
2020205297	Auspex Pharmaceuticals, Inc.	2020417994	Tencent America LLC
2020206724	Ondas Networks Inc.	2020421451	Umicore
2020208054	Korea Food Research Institute	2020428449	Mitsubishi Electric Corporation
2020213325	LAVA Therapeutics N.V.	2020429374	Xidian University
2020214406	Qingdao Haier Special Refrigerator Co., Ltd; Qingdao Haier Refrigerator Co., Ltd.; Haier Smart Home Co., Ltd.	2020464317	Binder + Co AG
2020215570	LanzaTech, Inc.	2021200265	AMARIN PHARMACEUTICALS IRELAND LIMITED
2020215729	ThermoLife International, LLC	2021200354	NewSouth Innovations Pty Limited
2020218727	Boston Scientific Neuromodulation Corporation	2021200382	Relievent Medsystems, Inc.
2020219241	Schlage Lock Company LLC	2021200453	LEGEND BIOTECH IRELAND LIMITED
2020220147	K2M, Inc.	2021201306	Cenergy Solutions Inc.
2020220766	JSH ECO Energy Co., Ltd.; Jang, S.H.	2021201395	Astronics Connectivity Systems & Certification Corp.
2020226389	Hydrogreen, Inc.	2021201410	LG ELECTRONICS INC.
2020231117	Viscofan, S.A.		
2020234781	Butler, W.E.		
2020235966	Cordio Medical Ltd.		

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<b>2021201501</b>	Air Products and Chemicals, Inc.	<b>2021342399</b>	State Grid Digital Technology Holding CO., LTD.; State Grid Blockchain Technology (Beijing) Co., Ltd.; State Grid Xiong'an Financial Technology Group Co., Ltd.; State Grid Henan Information & Telecommunication Company; Information and Communication Branch of State Grid Fujian Electric Power Co., Ltd.
<b>2021201555</b>	Telefonaktiebolaget LM Ericsson (publ)	<b>2021404731</b>	Chengda Pharmaceuticals Co., Ltd.
<b>2021201721</b>	Pfizer Inc	<b>2022200105</b>	Waymo LLC
<b>2021201881</b>	Edrington Distillers Limited	<b>2022200612</b>	The NOCO Company
<b>2021201907</b>	LG Electronics Inc.	<b>2022201664</b>	Wing Aviation LLC
<b>2021201910</b>	LNJ Group, LLC	<b>2022201688</b>	XWPharma Ltd.
<b>2021202164</b>	One World LED Pty Ltd	<b>2022202185</b>	Viea Logis Co.,Ltd.
<b>2021202318</b>	Caterpillar Inc.	<b>2022202696</b>	Schneider Electric Industries SAS
<b>2021202623</b>	Wix.com Ltd.	<b>2022203656</b>	Canva Pty Ltd
<b>2021202681</b>	Tussy, K.A.	<b>2022204775</b>	Shionogi & Co., Ltd.; National University Corporation Hokkaido University
<b>2021202748</b>	Société des Produits Nestlé S.A.	<b>2022211801</b>	Anduril Industries, Inc.
<b>2021202813</b>	Abbott Diabetes Care Inc.	<b>2022225120</b>	Christensen, H.
<b>2021202827</b>	Metso Outotec Finland Oy	<b>2022246404</b>	Magic Leap, Inc.
<b>2021202870</b>	HONEYWELL INTERNATIONAL INC.	<b>2022259837</b>	Sonos, Inc.
<b>2021203343</b>	The Regents of the University of California; Alveo Technologies Inc.	<b>2023200540</b>	Hunan Agricultural University; Hunan Vegetable Research Institute
<b>2021203425</b>	Vertigo Media, Inc.		
<b>2021203432</b>	Vertigo Media, Inc.		
<b>2021203703</b>	Transportation IP Holdings, LLC		
<b>2021203968</b>	BRISTOL-MYERS SQUIBB COMPANY		
<b>2021204073</b>	AMORPHICAL LTD.		
<b>2021204440</b>	Dongguan Zhenghong Technology Service Co., Ltd.		
<b>2021204460</b>	Becton, Dickinson and Company		
<b>2021204599</b>	Snap-on Incorporated		
<b>2021204610</b>	Stryker Corporation		
<b>2021204982</b>	The Johns Hopkins University; Longeviti Neuro Solutions LLC		
<b>2021205001</b>	Prologium Technology Co., Ltd.; Prologium Holding Inc.		
<b>2021205035</b>	Sunhouse Technologies, Inc.		
<b>2021206867</b>	Align Technology, Inc.		
<b>2021206876</b>	Smiths Medical ASD, Inc.		
<b>2021206925</b>	F. Hoffmann-La Roche AG		
<b>2021208493</b>	Janssen Pharmaceuticals, Inc.		
<b>2021209235</b>	Abbott Laboratories		
<b>2021210217</b>	International Business Machines Corporation		
<b>2021212022</b>	Anduril Industries, Inc.		
<b>2021212167</b>	Wing Aviation LLC		
<b>2021215239</b>	Illinois Tool Works Inc.		
<b>2021218198</b>	Weatherford Technology Holdings, LLC		
<b>2021221683</b>	Rowe, G.		
<b>2021221898</b>	LIEN, C.		
<b>2021225259</b>	GREE ELECTRIC APPLIANCES, INC.		
<b>2021229131</b>	LEMONEX INC.		
<b>2021229190</b>	SAIC MOTOR Corporation Limited		
<b>2021232705</b>	LG Electronics Inc.		
<b>2021232772</b>	Sungrow Power Supply Co., Ltd.		
<b>2021236588</b>	Environment and Plant Protection Institute, Chinese Academy of Tropical Agricultural Sciences		
<b>2021245238</b>	Stryker Corporation		
<b>2021249220</b>	Tencent America LLC		
<b>2021250937</b>	CYCLINGDEAL USA, INC.		
<b>2021250952</b>	TAO MINING CO., LTD.		
<b>2021254528</b>	Eddy Current Limited Partnership		
<b>2021258004</b>	ZTE Corporation		
<b>2021261865</b>	Sungrow Power Supply Co., Ltd.		
<b>2021261941</b>	Apple Inc.		
<b>2021261964</b>	Amgen Inc.		
<b>2021265768</b>	4D Molecular Therapeutics Inc.		
<b>2021266252</b>	Glory Ltd.		
<b>2021269292</b>	S&C Electric Company		
<b>2021273519</b>	Nexttracker LLC		
<b>2021273622</b>	Juul Labs, Inc.		
<b>2021277631</b>	W. L. Gore & Associates, Inc.		
<b>2021277708</b>	Dolby International AB		
<b>2021282439</b>	Dolby Laboratories Licensing Corporation		
<b>2021286298</b>	Abiomed, Inc.		
<b>2021286311</b>	DePuy Ireland Unlimited Company		
<b>2021288087</b>	Auspex Pharmaceuticals, Inc.		
<b>2021290254</b>	Trading Technologies International, Inc.		
<b>2021290363</b>	Shanghai United Imaging Healthcare Co., Ltd.		
<b>2021300366</b>	OURS Technology, LLC		
<b>2021314898</b>	CUP Laboratorien Dr. Freitag GmbH		



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<b><u>A01B 49 /-</u></b>	<b><u>A23C 9 /-</u></b>	2022202185	2018201460	2021245238	2018228719
2020204605	2021202748	<b><u>A45D 19 /-</u></b>	2018231237		2018251183
<b><u>A01C 15 /-</u></b>	<b><u>A23G 1 /-</u></b>	2019353717	2020220147	<b><u>A61H 23 /-</u></b>	2019239984
2020204605	2019398297	<b><u>A47C 27 /-</u></b>	2020236235	2017361382	2020292304
<b><u>A01C 21 /-</u></b>	<b><u>A23G 3 /-</u></b>	2019324115	2020289724	<b><u>A61H 31 /-</u></b>	2021200453
2020204605	2019398297	<b><u>A47C 7 /-</u></b>	2021200382	2017361382	2021201721
<b><u>A01C 7 /-</u></b>	<b><u>A23J 3 /-</u></b>	2019324115	2021204982		2021208493
2020204605	2020283968	<b><u>A47F 1 /-</u></b>	2021286311	<b><u>A61B 18 /-</u></b>	<b><u>A61K 45 /-</u></b>
<b><u>A01D 34 /-</u></b>	<b><u>A23K 10 /-</u></b>	2017331740		2018228880	2017326400
2019472457	2019394365	<b><u>A47G 23 /-</u></b>	2018230707	2020325153	2017361155
<b><u>A01G 3 /-</u></b>	<b><u>A23K 20 /-</u></b>	2017331740	2021200382	<b><u>A61K 31 /-</u></b>	2018365174
2021204440	2021202748	<b><u>A47G 5 /-</u></b>		2016320867	2019344929
<b><u>A01G 31 /-</u></b>	<b><u>A23K 50 /-</u></b>	2017305133	<b><u>A61B 3 /-</u></b>	2017261847	2021229131
2020226389	2019394365	<b><u>A47G 9 /-</u></b>	2018334150	2017290703	<b><u>A61K 47 /-</u></b>
<b><u>A01G 9 /-</u></b>	2019424830	<b><u>A47J 27 /-</u></b>	<b><u>A61B 34 /-</u></b>	2017303333	2017258415
2020226389	2021202748	2019358967	2017326400	2017326400	2017261847
<b><u>A01H 1 /-</u></b>	<b><u>A23L 29 /-</u></b>	<b><u>A47J 31 /-</u></b>	2017356883	2017326400	2017289331
2017235484	2021202748	2017253934	2018320673	2017356883	2017290703
2019314261	<b><u>A23L 3 /-</u></b>	2017273247	2018325267	2018320673	2017361155
<b><u>A01K 1 /-</u></b>	<b><u>A23L 33 /-</u></b>	2017365618	2018341781	2018325267	2018309090
2017279593	2020214406	<b><u>A47J 36 /-</u></b>	2018360854	2018341781	2020292304
<b><u>A01K 67 /-</u></b>	<b><u>A24F 1 /-</u></b>	2019358967	2018365174	2018360854	2021277631
2016372035	2021273622	<b><u>A47K 10 /-</u></b>	2019344929	2018365174	2021288087
2019283621	<b><u>A24F 47 /-</u></b>	2016404262	2019359398	2019344929	<b><u>A61K 48 /-</u></b>
2020260398	2017362059	2017331740	2020205297	2019344929	2016372035
<b><u>A01M 1 /-</u></b>	<b><u>A42B 3 /-</u></b>	2017331740	2020215729	2020205297	2019263863
2020261429	2017357857	<b><u>A47K 5 /-</u></b>	2021200265	2020215729	2019263866
<b><u>A01N 33 /-</u></b>	<b><u>A43B 11 /-</u></b>	2017331740	2021202748	2021200265	2021229131
2021236588	2019420126	<b><u>A47L 11 /-</u></b>	2021203968	2021202748	2019263866
<b><u>A01N 63 /-</u></b>	<b><u>A43B 13 /-</u></b>	2021201907	2021204073	2021203968	2021229131
2017322409	2019420126	<b><u>A47L 15 /-</u></b>	2021206925	2021204073	2021265768
2023200540	<b><u>A43B 3 /-</u></b>	2016413896	2021229131	2021206925	<b><u>A61K 49 /-</u></b>
<b><u>A22C 13 /-</u></b>	2019420126	<b><u>A47L 5 /-</u></b>	2021288087	2021229131	2021229131
2020231117	<b><u>A43B 3 /-</u></b>	2019362030	2022201688	2021229131	<b><u>A61K 9 /-</u></b>
<b><u>A22C 17 /-</u></b>	2019420126	<b><u>A47L 9 /-</u></b>	2022204775	2021288087	<b><u>A61K 33 /-</u></b>
2020345070	<b><u>A43C 11 /-</u></b>	2019362030		2022204775	2016320867
<b><u>A22C 21 /-</u></b>	2019420126	2021201907	<b><u>A61C 13 /-</u></b>		2017250505
2020345070	<b><u>A44C 27 /-</u></b>	2017398473	2020341251	<b><u>A61C 8 /-</u></b>	2017289331
			<b><u>A61B 90 /-</u></b>	2021202748	2017290703
			2017398473	2021204073	2017303333
			<b><u>A61C 13 /-</u></b>	2021206925	2019203410
			2020341251	2021229131	2020205297
			<b><u>A61B 99 /-</u></b>	2021288087	2021229131
			2017238648	2022201688	2021277631
			<b><u>A61F 13 /-</u></b>	2022204775	2021288087
			2019449028		<b><u>A61L 2 /-</u></b>
			<b><u>A61F 2 /-</u></b>	<b><u>A61K 33 /-</u></b>	2018271298
			2019430122	2019203410	2021314898
			2021200354	2020215729	<b><u>A61L 24 /-</u></b>
			2021204982	2021202748	2021229131
			<b><u>A61G 12 /-</u></b>	2021204073	<b><u>A61L 27 /-</u></b>
			2021245238	2021288087	2021204982
			<b><u>A61G 7 /-</u></b>	2017272721	<b><u>A61M 1 /-</u></b>
			2018272912	2017289331	2018231237
			2021204610	2017299137	2021286298
				2017306698	
				2017368611	
				2020208054	
				<b><u>A61K 36 /-</u></b>	
				2019394365	
				<b><u>A61K 38 /-</u></b>	
				2016320867	
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				<b><u>A61K 39 /-</u></b>	
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				2016323447	
				2017305498	

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	2021206925	2018321084	<b>B25F 5 /-</b>	2021212167	<b>B64C 39 /-</b>
<b>A61M 15 /-</b>		<b>B01D 15 /-</b>	2021204599	<b>B60L 7 /-</b>	2019332514
2017344001	<b>A61P 3 /-</b>	2020309307	<b>B25J 15 /-</b>	2021254528	2021212167
	2021204073	<b>B01D 33 /-</b>	2019419409	<b>B60T 8 /-</b>	<b>B64D 1 /-</b>
<b>A61M 16 /-</b>		2017344850	<b>B25J 9 /-</b>	2020220766	2019300763
2017358062	<b>A61P 31 /-</b>				2021212167
	2017326400	<b>B01D 37 /-</b>	2019419409	<b>B60W 10 /-</b>	<b>B64D 37 /-</b>
<b>A61M 25 /-</b>	2017361155	2017344850	<b>B26B 13 /-</b>	2021229190	2019332514
2016320867	2018320673				
2021206876	2019270865	<b>B01F 23 /-</b>	2021204440	<b>B60W 50 /-</b>	<b>B64D 41 /-</b>
	2022204775	2017264807	<b>B29C 64 /-</b>	2021229190	2019332514
<b>A61M 39 /-</b>	<b>A61P 33 /-</b>				
2021204460	2021206925	<b>B01J 3 /-</b>	2020253460	<b>B61B 13 /-</b>	<b>B65B 1 /-</b>
2021206876		2020273806	<b>B29C 67 /-</b>	2019224913	2017331740
<b>A61M 5 /-</b>	<b>A61P 35 /-</b>				
2016320867	2017258415	<b>B01J 8 /-</b>	2017270086	<b>B61L 23 /-</b>	<b>B65B 11 /-</b>
2018231237	2017272721				
2021204460	2017361155	2018253706	<b>B29D 12 /-</b>	2018269124	2017360943
2021261964	2018320673	2018386998		2019224913	
	2018360854		2017270086	<b>B61L 25 /-</b>	<b>B65B 25 /-</b>
<b>A61N 1 /-</b>	2019203410	<b>B01L 3 /-</b>			2017360943
2019428019	2020292304	2017231580	<b>B29L 31 /-</b>	2018269124	
2020218727	2021200453	2018254610			<b>B65B 31 /-</b>
2020277131	2021206925	2018280239	<b>B30B 5 /-</b>	2019472457	2017360943
2020327928	2022201688	2018339506			
		2019228727	2020273806	<b>B62H 3 /-</b>	<b>B65B 55 /-</b>
<b>A61N 5 /-</b>	<b>A61P 37 /-</b>	2021209235			2017360943
2019203410	2017272721	<b>B02C 17 /-</b>	<b>B32B 27 /-</b>	2021250937	
	2017361155				<b>B65B 9 /-</b>
	2019263863	2020250883	2020251539	<b>B63B 22 /-</b>	2017360943
<b>A61P 1 /-</b>	<b>A61P 43 /-</b>	<b>B02C 18 /-</b>	<b>B33Y 10 /-</b>	2019384810	<b>B65D 1 /-</b>
2017361155	2017361155	2020345070	2017270086	<b>B63B 35 /-</b>	2019470602
2017368611	2019263866	<b>B02C 2 /-</b>	<b>B33Y 30 /-</b>	2019384810	<b>B65D 19 /-</b>
2019394365	2022204775				2019380343
<b>A61P 11 /-</b>	<b>A61P 7 /-</b>	<b>B03D 1 /-</b>	2017270086	<b>B63B 45 /-</b>	
2021206925	2021203968	2020250883	2020253460	2019339852	<b>B65D 33 /-</b>
<b>A61P 13 /-</b>	<b>A61P 9 /-</b>	2021202827	<b>B41J 2 /-</b>	2019339852	2020297447
2017368611	2017368611	<b>B05B 9 /-</b>	2019428713	<b>B63B 49 /-</b>	<b>B65D 35 /-</b>
<b>A61P 17 /-</b>	2020215729	2018269124	<b>B60C 19 /-</b>	2019339852	2019470602
2017299137		<b>B08B 3 /-</b>	2019406476	<b>B63C 11 /-</b>	2019470602
<b>A61P 19 /-</b>	<b>A62C 3 /-</b>	2019267033	<b>B60C 23 /-</b>	2019339852	<b>B65D 47 /-</b>
2017368611	2019300763	2019267033	2019406476	<b>B63C 13 /-</b>	2019470602
<b>A61P 21 /-</b>	<b>A62C 35 /-</b>	<b>B24D 18 /-</b>	<b>B60F 3 /-</b>	2017261615	<b>B65D 5 /-</b>
2020215729	2019300763	2020308028	2017261615	<b>B64C 25 /-</b>	2017235840
<b>A61P 25 /-</b>	<b>A62C 37 /-</b>	<b>B24D 3 /-</b>	<b>B60K 15 /-</b>	2019332514	<b>B65D 77 /-</b>
2017250505	2019300763	2020308028	2021201306	<b>B64C 29 /-</b>	2017235840
2017361155	<b>A63B 21 /-</b>	<b>B25B 23 /-</b>	<b>B60L 13 /-</b>	2021203703	<b>B65D 81 /-</b>
2018325267	2019314560	2017265066	2019224913	<b>B64C 3 /-</b>	2019470602
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2021288087					

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<b><u>B65H 26 /-</u></b>	2021404731	<b><u>C07D 403 /-</u></b>	<b><u>C07K 7 /-</u></b>		2017235484
2020240019	<b><u>C07C 235 /-</u></b>	2018320673	2017339096	<b><u>C12M 1 /-</u></b>	2017238648
<b><u>B66B 1 /-</u></b>	2019361779	2022204775		2017322409	2018230777
2019373294	<b><u>C07C 249 /-</u></b>	<b><u>C07D 405 /-</u></b>	<b><u>C08F 290 /-</u></b>		2018271298
<b><u>B66B 5 /-</u></b>	2021404731	2018320673	2018289646	<b><u>C12M 3 /-</u></b>	2019279371
2017339121	<b><u>C07C 251 /-</u></b>	2018320673	<b><u>C08G 65 /-</u></b>	2017322409	2019293714
<b><u>B67D 1 /-</u></b>	2021404731	2018365174	2018289646	<b><u>C12N 1 /-</u></b>	2019311340
2017253934	<b><u>C07C 271 /-</u></b>	<b><u>C07D 413 /-</u></b>	<b><u>C08K 3 /-</u></b>	2017289331	2019314261
2017331740	2019359398	2018341781	2021221898	2017299082	2019322103
<b><u>B67D 3 /-</u></b>	<b><u>C07C 279 /-</u></b>	2018365174	<b><u>C08L 101 /-</u></b>	2023200540	2019424830
2021201910	2018375199	<b><u>C07D 417 /-</u></b>		<b><u>C12N 15 /-</u></b>	2021314898
<b><u>B67D 7 /-</u></b>	<b><u>C07C 39 /-</u></b>	2018341781	2020251539		<b><u>C12R 1 /-</u></b>
2017331740	2019361779	2018365174	<b><u>C09D 201 /-</u></b>	2016372035	2023200540
<b><u>B81B 1 /-</u></b>	<b><u>C07C 59 /-</u></b>	<b><u>C07D 471 /-</u></b>	2020251539	2016389495	<b><u>C21D 8 /-</u></b>
2018254610	2019361779	2021203968	<b><u>C09J 103 /-</u></b>	2017209041	2020322810
<b><u>B82Y 5 /-</u></b>	<b><u>C07D 205 /-</u></b>	<b><u>C07D 487 /-</u></b>	2021221898	2017235484	<b><u>C22B 1 /-</u></b>
2017258415	2018360854	2018320673	<b><u>C09J 11 /-</u></b>	2017238648	2020421451
<b><u>C01B 32 /-</u></b>	<b><u>C07D 207 /-</u></b>	2018320673	2021221898	2017272721	2021202827
2018253706	2018360854	2018360854	<b><u>C09J 175 /-</u></b>	2019293714	<b><u>C22B 11 /-</u></b>
<b><u>C01C 1 /-</u></b>	<b><u>C07D 209 /-</u></b>	2021203968	2020251539	2019314261	2020421451
2018386998	2018360854	2021206925	<b><u>C09J 189 /-</u></b>	2019400521	<b><u>C22B 3 /-</u></b>
<b><u>C02F 1 /-</u></b>	<b><u>C07D 211 /-</u></b>	<b><u>C07D 498 /-</u></b>	2021221898	2020250254	2020421451
2017344850	2018360854	2018320673	<b><u>C09K 3 /-</u></b>	2020260398	<b><u>C22C 38 /-</u></b>
<b><u>C04B 103 /-</u></b>	<b><u>C07D 213 /-</u></b>	<b><u>C07H 21 /-</u></b>	2020251539	2021265768	2020322810
2017436918	2019361779	2017238648	<b><u>C09K 9 /-</u></b>	<b><u>C12N 5 /-</u></b>	<b><u>C22B 11 /-</u></b>
<b><u>C04B 111 /-</u></b>	2022201688	2018230777	2018289646	2016341529	2020421451
2017436918	<b><u>C07D 235 /-</u></b>	2020309307	<b><u>C10B 57 /-</u></b>	2017231580	<b><u>C22C 38 /-</u></b>
<b><u>C04B 20 /-</u></b>	2018320673	<b><u>C07K 1 /-</u></b>	2020373691	2017306698	2020322810
2020464317	<b><u>C07D 243 /-</u></b>	2017299082	<b><u>C10G 29 /-</u></b>	2017368611	<b><u>C30B 7 /-</u></b>
<b><u>C04B 24 /-</u></b>	2018365174	<b><u>C07K 14 /-</u></b>	2018226543	2019263863	2022202185
2017436918	2019361779	2017235484	<b><u>C09K 3 /-</u></b>	2019263866	<b><u>D01F 9 /-</u></b>
<b><u>C04B 111 /-</u></b>	2022201688	2018309090	2020251539	2021200453	2018253706
2017436918	<b><u>C07D 235 /-</u></b>	2018354067	<b><u>C09K 9 /-</u></b>	<b><u>C12N 7 /-</u></b>	<b><u>D06F 29 /-</u></b>
<b><u>C04B 20 /-</u></b>	2018320673	2019239984	2018289646	2017272721	2021201410
2020464317	<b><u>C07D 243 /-</u></b>	2021201721	<b><u>C10B 57 /-</u></b>	<b><u>C12N 9 /-</u></b>	<b><u>D06F 34 /-</u></b>
<b><u>C04B 24 /-</u></b>	2018365174	2021208493	2020373691	2016372035	2021232705
2017436918	2019361779	2021265768	<b><u>C10G 29 /-</u></b>	2017260355	<b><u>D06F 39 /-</u></b>
<b><u>C04B 111 /-</u></b>	2022201688	<b><u>C07K 16 /-</u></b>	2018226543	2017299082	2017253152
2017436918	2018320673	2016323447	<b><u>C10L 3 /-</u></b>	2018354067	2019334749
<b><u>C04B 28 /-</u></b>	<b><u>C07D 271 /-</u></b>	2018228719		2017368611	<b><u>D06F 58 /-</u></b>
2017436918	2022201688	2018251183	<b><u>C10B 57 /-</u></b>	2019263863	2019267033
<b><u>C05F 11 /-</u></b>	2018375199	2018309090	2020373691	2019263866	2021232705
2017322409	<b><u>C07D 273 /-</u></b>	2019239984	<b><u>C10G 29 /-</u></b>	2021200453	<b><u>E01H 11 /-</u></b>
<b><u>C07C 209 /-</u></b>	2018375199	2019270865	2018226543	<b><u>C12P 13 /-</u></b>	2018269124
20121404731	2019361779	2019283621	<b><u>C09K 9 /-</u></b>	2019400521	2020246272
	<b><u>C07D 401 /-</u></b>	2020213325	2018289646	<b><u>C12P 19 /-</u></b>	
		2020260398	<b><u>C10B 57 /-</u></b>	2018230777	
		2020292304	2020373691	<b><u>C12P 21 /-</u></b>	
		2021201721	<b><u>C10G 29 /-</u></b>	2017260355	
		2021208493	2018226543	2017299082	
		<b><u>C07K 17 /-</u></b>	<b><u>C10L 3 /-</u></b>	2018354067	
		2017322409		2019400521	
			<b><u>C11B 1 /-</u></b>	2017260355	
			2020250749	2017299082	
			<b><u>C12G 1 /-</u></b>	2019239984	
			2021201881	<b><u>C12P 7 /-</u></b>	
			<b><u>C12G 3 /-</u></b>	2020215570	
			2021201881		

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<b><u>E02F 9 /-</u></b>	<b><u>F03B 17 /-</u></b>	<b><u>F21V 23 /-</u></b>	2020214406	<b><u>G01F 17 /-</u></b>	<b><u>G01S 17 /-</u></b>
2019297466	2022225120	2019214558	<b><u>F25D 25 /-</u></b>	2021202870	2018256926
<b><u>E04F 13 /-</u></b>	<b><u>F04B 17 /-</u></b>	2019233733	2019352419	<b><u>G01F 23 /-</u></b>	2021300366
2017305532	2019390474	<b><u>F21V 31 /-</u></b>	2019352420	2021202870	2022200105
<b><u>E05B 47 /-</u></b>	<b><u>F04B 19 /-</u></b>	2019233733	2019353516	<b><u>G01H 11 /-</u></b>	<b><u>G01S 19 /-</u></b>
2020219241	2019390474	<b><u>F21W 131 /-</u></b>	<b><u>F25D 29 /-</u></b>	2021205035	2019225991
<b><u>E05B 65 /-</u></b>	<b><u>F04B 9 /-</u></b>	2019233733	2019352419	<b><u>G01K 7 /-</u></b>	2020398338
2020219241	2019390474	<b><u>F21Y 115 /-</u></b>	2019352420	<b><u>G01K 7 /-</u></b>	<b><u>G01S 5 /-</u></b>
<b><u>E06B 3 /-</u></b>	<b><u>F04D 15 /-</u></b>	2019233733	2019353516	2020273806	2020398338
2017305532	2019334749	<b><u>F24F 1 /-</u></b>	<b><u>F25J 1 /-</u></b>	<b><u>G01N 1 /-</u></b>	<b><u>G01S 7 /-</u></b>
<b><u>E06B 7 /-</u></b>	<b><u>F16C 27 /-</u></b>	<b><u>F24F 13 /-</u></b>	2021201501	2016341529	2017267425
2017279593	2018206286	2019453586	<b><u>F25J 3 /-</u></b>	2018254610	2021300366
<b><u>E06B 9 /-</u></b>	<b><u>F16C 33 /-</u></b>	<b><u>F24F 13 /-</u></b>	2021201501	2019322103	2022200105
2017305133	2018206286	2018201314	2021221683	2021314898	<b><u>G01V 3 /-</u></b>
<b><u>E21B 17 /-</u></b>	<b><u>F16D 121 /-</u></b>	2019453586	<b><u>F27B 1 /-</u></b>	<b><u>G01N 21 /-</u></b>	2017267425
2020278015	2020220766	<b><u>F24H 4 /-</u></b>	2020464317	2019322103	<b><u>G01V 8 /-</u></b>
<b><u>E21B 19 /-</u></b>	<b><u>F16D 55 /-</u></b>	2019445991	<b><u>F27B 15 /-</u></b>	<b><u>G01N 23 /-</u></b>	2021202870
2020278015	2020220766	<b><u>F24S 20 /-</u></b>	2020464317	2020234781	<b><u>G02B 23 /-</u></b>
<b><u>E21B 23 /-</u></b>	<b><u>F16D 65 /-</u></b>	2017266626	<b><u>F27B 17 /-</u></b>	<b><u>G01N 27 /-</u></b>	2018225295
2020278015	2020220766	<b><u>F24S 30 /-</u></b>	2020273806	2019228727	<b><u>G02B 25 /-</u></b>
<b><u>E21B 29 /-</u></b>	<b><u>F16H 19 /-</u></b>	2021273519	<b><u>F27D 3 /-</u></b>	2021203343	2018225295
2020278015	2019238946	<b><u>F25B 1 /-</u></b>	2020464317	<b><u>G01N 30 /-</u></b>	<b><u>G02B 27 /-</u></b>
<b><u>E21B 33 /-</u></b>	<b><u>F16H 55 /-</u></b>	2020252607	<b><u>F28D 20 /-</u></b>	2018230777	2018225295
2018333030	2018206286	<b><u>F25B 21 /-</u></b>	2017266626	<b><u>G01N 33 /-</u></b>	2018412406
2020245138	<b><u>F16J 15 /-</u></b>	2021201910	<b><u>F41G 1 /-</u></b>	2017209041	<b><u>G02B 5 /-</u></b>
<b><u>E21B 34 /-</u></b>	2020245138	<b><u>F25C 1 /-</u></b>	2018225295	2017238648	2018289646
2018254834	<b><u>F16L 1 /-</u></b>	2019352419	<b><u>F42B 10 /-</u></b>	2017269050	<b><u>G02B 6 /-</u></b>
<b><u>E21B 41 /-</u></b>	2017374516	2019352420	2018365320	2017339096	2021300366
2018333030	<b><u>F16L 53 /-</u></b>	2019353516	<b><u>F42B 5 /-</u></b>	2018254610	<b><u>G03B 42 /-</u></b>
<b><u>E21B 43 /-</u></b>	2017261679	<b><u>F25C 5 /-</u></b>	2018365320	2018280239	2020234781
2017374516	<b><u>F17C 11 /-</u></b>	2019352419	<b><u>G01B 5 /-</u></b>	2019215125	<b><u>G05B 19 /-</u></b>
2021218198	2021201306	2019352420	2017398473	2019322103	2021202318
<b><u>E21B 47 /-</u></b>	<b><u>F21S 9 /-</u></b>	2020318183	<b><u>F25D 11 /-</u></b>	2019424830	<b><u>G05D 1 /-</u></b>
2018254834	2018255494	<b><u>F25D 17 /-</u></b>	2019352419	2020292304	2018256926
<b><u>E21C 33 /-</u></b>	2021202318	2020318183	2019352420	2020373691	2021212167
2021202318	<b><u>F21V 15 /-</u></b>	<b><u>F25D 21 /-</u></b>	2019353516	2021203343	2022200105
<b><u>F03B 13 /-</u></b>	2019233733	2019429350	2020318183	2021209235	<b><u>G05D 3 /-</u></b>
2017385006	<b><u>F21V 21 /-</u></b>	<b><u>F25D 17 /-</u></b>	<b><u>G01F 1 /-</u></b>	<b><u>G01R 27 /-</u></b>	2021202318
2022225120	2019214558	2020318183	2018292281	2020400935	<b><u>G05D 1 /-</u></b>
		<b><u>F25D 23 /-</u></b>	<b><u>G01C 19 /-</u></b>	2017263851	2018256926
		2019352419	2020429374	2021269292	2021212167
			<b><u>G01F 15 /-</u></b>	<b><u>G01S 13 /-</u></b>	2022200105
			2021314898	2021202870	<b><u>G05D 7 /-</u></b>
				<b><u>G01S 15 /-</u></b>	2019300763
				2021202870	<b><u>G06F 1 /-</u></b>
					2020304788

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2021202623	2020392112				2021203425
2021290254	2021212167	2021277708	2018388526	<b><u>H02M 1 /-</u></b>	2021203432
	2021342399			2020400935	2022259837
<b><u>G06F 17 /-</u></b>	<b><u>G06T 1 /-</u></b>	<b><u>G10L 25 /-</u></b>	<b><u>H01R 11 /-</u></b>		<b><u>H04L 25 /-</u></b>
2019234104	2021206867	2020235966	2018255842	<b><u>H02M 7 /-</u></b>	2018311054
<b><u>G06F 18 /-</u></b>	<b><u>G06T 15 /-</u></b>	<b><u>G11B 27 /-</u></b>	<b><u>H01R 13 /-</u></b>	2018336731	
2021202681	2020398565	2020325292	2018255842	2020330794	<b><u>H04L 41 /-</u></b>
	2020428449		2022202696	2020400935	
<b><u>G06F 21 /-</u></b>	<b><u>G06T 3 /-</u></b>	<b><u>G11C 13 /-</u></b>	<b><u>H01R 39 /-</u></b>	<b><u>H02P 27 /-</u></b>	2020341484
2017257447	2020398565	2019428713	2019238946	2019334749	<b><u>H04L 45 /-</u></b>
2019366169		<b><u>G21F 5 /-</u></b>		<b><u>H02P 3 /-</u></b>	2019458741
2019371545	<b><u>G06T 7 /-</u></b>	2021314898	<b><u>H01R 4 /-</u></b>	2018295871	<b><u>H04L 47 /-</u></b>
2020276198	2018256926	<b><u>H01H 1 /-</u></b>	2018255842	<b><u>H02P 6 /-</u></b>	2019458741
2021202681	2020270428		2022202696	2018295871	2020310108
<b><u>G06F 3 /-</u></b>	<b><u>G06T 9 /-</u></b>	2022202696	<b><u>H01S 5 /-</u></b>	<b><u>H02S 20 /-</u></b>	<b><u>H04L 5 /-</u></b>
2017435839	2020398565	<b><u>H01H 13 /-</u></b>	2021300366	2021273519	2020206724
2020270428					<b><u>H04L 67 /-</u></b>
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2022203656	2020270428	2018332878	2021201395	2018277261	<b><u>H04L 9 /-</u></b>
<b><u>G06F 30 /-</u></b>	<b><u>G07D 9 /-</u></b>	<b><u>H01J 31 /-</u></b>	<b><u>H02G 3 /-</u></b>	2021261865	
2017270086	2021266252	2018332878	2019214558	<b><u>H02S 40 /-</u></b>	2017257447
<b><u>G06F 9 /-</u></b>	<b><u>G07F 9 /-</u></b>	<b><u>H01L 31 /-</u></b>	<b><u>H02H 3 /-</u></b>	2021261865	2020276198
2020310108	2021266252		2021269292	<b><u>H02S 50 /-</u></b>	<b><u>H04M 11 /-</u></b>
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2021210217	<b><u>G08B 13 /-</u></b>	2021225259	2021269292	<b><u>H03J 7 /-</u></b>	<b><u>H04N 13 /-</u></b>
<b><u>G06G 5 /-</u></b>	2020343927	2021261865	<b><u>H01M 10 /-</u></b>	2021201555	2018412406
2019234656	<b><u>G08B 21 /-</u></b>		2017285210	<b><u>H03K 3 /-</u></b>	<b><u>H04N 19 /-</u></b>
<b><u>G06K 7 /-</u></b>	2020343927	<b><u>H01M 8 /-</u></b>	2021205001	2020392112	2018395081
2020294211	<b><u>G08B 25 /-</u></b>	2019332514		<b><u>H02J 3 /-</u></b>	2019401170
<b><u>G06N 10 /-</u></b>	2018301495	<b><u>H01Q 1 /-</u></b>	2019217528	2018401978	2020236452
2016404262	<b><u>G09C 1 /-</u></b>	2018308379	2020330794	<b><u>H03L 7 /-</u></b>	2020245002
2019203767	2019461061	2018388526	2020392112	2021201555	2020333539
<b><u>G06Q 10 /-</u></b>	<b><u>G09F 13 /-</u></b>	<b><u>H01Q 15 /-</u></b>	2021232772	<b><u>H03M 7 /-</u></b>	2020348214
2019203767	2019440257	2018308379	<b><u>H02J 50 /-</u></b>	2020398565	2020364348
2022201664	<b><u>G09G 3 /-</u></b>	<b><u>H01Q 19 /-</u></b>	2017362059	<b><u>H04B 1 /-</u></b>	2020398565
<b><u>G06Q 20 /-</u></b>	2018412406	2018308379	<b><u>H02J 7 /-</u></b>	2020415292	2020417994
2017257447	<b><u>G09G 5 /-</u></b>	<b><u>H01Q 21 /-</u></b>	2022200612	2021249220	2021282439
2018341597	2022203656	2018308379	<b><u>H02J 9 /-</u></b>	2021282439	<b><u>H04N 21 /-</u></b>
<b><u>G06Q 30 /-</u></b>	2020294211	<b><u>H01Q 21 /-</u></b>	2018255494	<b><u>H04B 10 /-</u></b>	2018275145
2020300516	<b><u>G10L 15 /-</u></b>	2018308379	<b><u>H02K 1 /-</u></b>	2018311054	2020343927
2021202164	2020235966	2020294211	2020285795	<b><u>H04B 7 /-</u></b>	2022259837
<b><u>G06Q 40 /-</u></b>	2020235966	<b><u>H01Q 3 /-</u></b>	<b><u>H02K 15 /-</u></b>	2017339121	<b><u>H04N 5 /-</u></b>
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	<b><u>G10L 19 /-</u></b>	<b><u>H01Q 5 /-</u></b>	<b><u>H02K 49 /-</u></b>	<b><u>H04J 14 /-</u></b>	<b><u>H04N 7 /-</u></b>
	2021277708	2018308379		2022246404	2020325292
					2021202681
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**Certified Innovation Patents**

**Name Index**

(This list may contain multiple listings of a patent where there are multiple patentees for that patent.)

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(71) BASF Plant Science Company GmbH  
 (11) AU-B-2022100112  
 (21) 2022100112 (22) 19.08.2022  
 (54) Modification of plant lipids containing PUFAs  
 (51) Int. Cl.  
     **C12N 15/82** ( 2006.01 )  
     **A01H 6/20** ( 2018.01 )  
 (45) 30.03.2023  
 (62) 2021266278  
 (72) Senger, Toralf; Andre, Carl  
 (74) Griffith Hack

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(71) CHM Alliance Pty Ltd  
 (11) AU-B-2017101428  
 (21) 2017101428 (22) 17.03.2017  
 (54) Piglet protection maternity pen  
 (51) Int. Cl.  
     **A01K 1/02** ( 2006.01 )  
 (45) 30.03.2023  
 (72) Lines, David; Maclean, David  
 (74) Davies Collison Cave Pty Ltd

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(71) Seed Terminator Holdings Pty Ltd  
 (11) AU-B-2022100047  
 (21) 2022100047 (22) 18.03.2022  
 (54) A CHAFF FEED STREAM CONDITIONING SYSTEM  
 (51) Int. Cl.  
     **A01F 12/30** ( 2006.01 )  
     **A01D 41/12** ( 2006.01 )  
     **A01F 12/44** ( 2006.01 )  
 (45) 30.03.2023  
 (62) 2020232982  
 (72) Berry, Nicholas Kane  
 (74) Integrated IP

**Numerical Index**

**2017101428** CHM Alliance Pty Ltd  
**2022100047** Seed Terminator Holdings Pty Ltd  
**2022100112** BASF Plant Science Company GmbH



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2022100112

**Opposition Proceedings**

(The name in parentheses is that of the opponent)

**Opposition Lodged**

2019227840 **Trisco ICAP Pty Ltd** ( Societe Des Produits Nestle S.A. )

**Applications Withdrawn**

2017259048 **Perfetti Van Melle S.p.A.** ( Wm. Wrigley Jr. Company )

**Patents Granted**

**Standard Patents**

2016213865	2016219263	2016273990	2016308591
2016321204	2016324479	2016324669	2016335698
2016341938	2016343175	2016343991	2016345054
2016346646	2016358101	2016359084	2016363664
2016393740	2016398192	2016399230	2016409304
2016416889	2016420115	2016422180	2016432687
2017202218	2017203381	2017203620	2017208013
2017209742	2017217426	2017225354	2017229608
2017230839	2017234486	2017237093	2017240266
2017242134	2017242136	2017244041	2017245737
2017245894	2017245939	2017249603	2017254652
2017256125	2017256803	2017257183	2017257494
2017257870	2017261927	2017263539	2017265390
2017266577	2017267929	2017268310	2017268709
2017270598	2017272349	2017272907	2017277557
2017279715	2017280058	2017281835	2017283724
2017287706	2017300950	2017306575	2017306749
2017309384	2017312214	2017313120	2017314713
2017314943	2017315357	2017315947	2017319602
2017320338	2017321698	2017324272	2017324880
2017334261	2017335975	2017338936	2017342827
2017343443	2017346791	2017347877	2017350502
2017352072	2017356228	2017356334	2017356592
2017356808	2017358523	2017361650	2017361717
2017364359	2017364824	2017366311	2017367100
2017367268	2017371709	2017376781	2017376922
2017377031	2017378354	2017382197	2017382935
2017383345	2017388570	2017394777	2017402077
2017404594	2017413680	2017425067	2017431602
2017444990	2018200949	2018201213	2018201230
2018201282	2018204799	2018208485	2018210527
2018212997	2018216906	2018219661	2018220122
2018221742	2018222799	2018225834	2018227567
2018228498	2018229466	2018231812	2018236977
2018249948	2018250380	2018260875	2018261585
2018263586	2018265770	2018267689	2018268935
2018273018	2018273411	2018274090	2018280954
2018287245	2018290161	2018294206	2018306399
2018318556	2018320492	2018324074	2018326393
2018326617	2018326721	2018327688	2018327936
2018329920	2018331172	2018335209	2018335214
2018337923	2018341636	2018344135	2018349270
2018349996	2018352526	2018354068	2018357874
2018372887	2018374575	2018376937	2018380542
2018385287	2018385766	2018388655	2018388657
2018390719	2018402168	2018403219	2018403991
2018409333	2018416684	2018443268	2018445788
2018450016	2018450426	2018451596	2018452006
2018452938	2019205693	2019207764	2019220423
2019235154	2019236406	2019240974	2019243241
2019248657	2019252418	2019255870	2019257644
2019272190	2019272610	2019274887	2019277019
2019284056	2019287727	2019288733	2019290096
2019292414	2019297409	2019300691	2019316475

**Patents Granted**

**Standard Patents**

2019316745	2019321565	2019322204	2019329781
2019335976	2019339492	2019339501	2019342986
2019343639	2019347769	2019351568	2019351613
2019352753	2019352754	2019353541	2019356219
2019356907	2019356916	2019359826	2019370809
2019370936	2019372063	2019373768	2019375375
2019378450	2019385366	2019386984	2019390971
2019392870	2019402263	2019406113	2019419663
2019421490	2019421503	2019426474	2019427771
2019445992	2019468159	2019468611	2019479044
2020203276	2020203330	2020205923	2020209564
2020209603	2020213411	2020214177	2020217565
2020218477	2020221180	2020221962	2020222183
2020223504	2020226229	2020227856	2020229911
2020230248	2020230318	2020230327	2020233621
2020235010	2020238889	2020239638	2020240977
2020241100	2020242735	2020244389	2020244490
2020244495	2020246681	2020249424	2020249425
2020250246	2020253570	2020256299	2020256319
2020257113	2020260765	2020263549	2020264030
2020264336	2020264340	2020264380	2020264938
2020267243	2020268195	2020270596	2020273246
2020273366	2020273374	2020277175	2020278868
2020279246	2020283650	2020284093	2020286321
2020286334	2020289865	2020289868	2020289889
2020290980	2020294336	2020294607	2020297517
2020298041	2020298429	2020315583	2020316905
2020319847	2020354996	2020369432	2020369960
2020372604	2020420098	2020424503	2020427917
2020444034	2020447435	2020474539	2021200218
2021200220	2021200225	2021200421	2021200431
2021200639	2021200655	2021200667	2021200840
2021200856	2021200911	2021200938	2021200999
2021201138	2021201183	2021201430	2021201784
2021201819	2021201943	2021202011	2021202254
2021202374	2021202563	2021202700	2021202720
2021202964	2021203266	2021203284	2021203358
2021203525	2021203662	2021203956	2021204174
2021204234	2021204432	2021204458	2021204759
2021205055	2021206889	2021209172	2021212030
2021212137	2021215116	2021221410	2021221867
2021222055	2021226164	2021229207	2021229244
2021232713	2021232823	2021232824	2021236434
2021236460	2021240193	2021240294	2021245118
2021245241	2021250875	2021252536	2021253877
2021258044	2021258064	2021258099	2021259182
2021263319	2021266308	2021278374	2021282384
2021347277	2021360429	2021396591	2022200580
2022201270	2022201611	2022202500	2022202689
2022206802	2022209197	2022209268	2022211804
2022211870	2022218548	2022233346	

**Innovation Patents**

2017101941	2019101840	2020104492	2023100023
2023100025	2023100026		

**Offer to Surrender**

It is hereby notified that **Coretherapix SLU Calle Santiago Grisolia N °2 , 28760 Tres Cantos Madrid** , the Patentee of Patent 2014229176 dated 07.05.2020 for an invention titled ' Adult cardiac stem cell population' offers to surrender the said Patent. Any person desiring to be heard before the said offer to surrender is accepted must lodge a request to be heard within one month from the date of this journal.

**Revocation**

It is hereby notified that the offer by the Patentee **Apple Inc.** to surrender Patent 2019101068 which was advertised in the Official Journal

**Revocation**

of 02.02.2023 has been accepted and the Patent has been revoked in accordance with Section 137 of the Patents Act.

It is hereby notified that as a consequence of a decision by the Commissioner dated 08.02.2023, Patent 2021103809 in the name of **Dio-genes Limited** has been revoked in relation to Patent Revoked under Section 101F of the Patents Act.

**Assignments Registered**

2004207692 Hanwha Corporation The patent has been assigned to **Hanwha Mining Services Australia Pty Ltd**

2006348402 Hanwha Corporation The patent has been assigned to **Hanwha Mining Services Australia Pty Ltd**

2008291955 AIRCRAFT MEDICAL LIMITED The patent has been assigned to **Covidien AG**

2011200621 Hanwha Corporation The patent has been assigned to **Hanwha Mining Services Australia Pty Ltd**

2011202412 Hanwha Corporation The patent has been assigned to **Hanwha Mining Services Australia Pty Ltd**

2011251807 Aircraft Medical Limited The patent has been assigned to **Covidien AG**

2011380572 Korea Electric Power Corporation The patent has been assigned to **KOREA SOUTH-EAST POWER CO., LTD.; KOREA MID-LAND POWER CO., LTD.; KOREA WESTERN POWER CO., LTD.; KOREA SOUTH POWER CO., LTD.; KOREA ELECTRIC POWER CORPORATION**

2012276257 Alectos Therapeutics Inc.; Merck Sharp & Dohme Corp. The patent has been assigned to **Alectos Therapeutics Inc.**

2013259892 Merck Sharp & Dohme LLC; Alectos Therapeutics Inc. The patent has been assigned to **Alectos Therapeutics Inc.**

2014201440 Hanwha Corporation The patent has been assigned to **Hanwha Mining Services Australia Pty Ltd**

2014245831 Keech Castings Australia Pty Limited The patent has been assigned to **Derwent Industries Pty Ltd**

2014336970 Keech Castings Australia Pty Limited The patent has been assigned to **Derwent Industries Pty Ltd**

2015244258 EyeVerify Inc. The patent has been assigned to **JU-MIO CORPORATION**

2015349743 Phasebio Pharmaceuticals, Inc. The patent has been assigned to **IMMUNOFORCE CO., LTD.**

2016202186 Merck Sharp & Dohme LLC; Alectos Therapeutics Inc. The patent has been assigned to **Alectos Therapeutics Inc.**

2016203084 A. I. Innovations N.V. The patent has been assigned to **Cast Environmental Solutions, LLC**

2016249879 Moog Inc. The patent has been assigned to **Zevex, Inc.**

2016308539 RC Biotechnologies, Inc. The patent has been assigned to **RemeGen Co., Ltd.**

2016314540 Fellrock Developments Limited The patent has been assigned to **TTT PRODUCTS ADVANCED LIMITED**

2016364702 Atos Medical AB The patent has been assigned to **Coloplast A/S**

**Assignments Registered**

2016391043 Atos Medical AB The patent has been assigned to **Coloplast A/S**

2016401146 Atos Medical AB The patent has been assigned to **Coloplast A/S**

2017214161 Atos Medical AB The patent has been assigned to **Coloplast A/S**

2017269150 Moog Inc The patent has been assigned to **Zevex, Inc.**

2018101308 AKS INDUSTRIES AUSTRALIA PTY LTD The patent has been assigned to **ALL PURPOSE PUMPS HOLDINGS PTY LTD**

2019391432 Corplex Plastics UK Ltd. The patent has been assigned to **LB Europe Limited**

**Extensions of Term of Standard Patents**

Extension of Term of a Standard Patent relating to Pharmaceutical Substances

**Applications Accepted**

The following application(s) for Extension of Term have been accepted under Section 74.

Notice of opposition under Section 75(1) to the undermentioned application(s) for an extension of term may be filed at the Patent Office within the prescribed time.

2013287176 **INCYTE HOLDINGS CORPORATION**

The earliest first regulatory approval date provided by the patentee 14 Sep 2022

For the goods PEMAZYRE pemigatinib

Address for service : Houlihan Intellectual Property Pty Ltd 832 High St Kew East VIC 3102 AU

2014281408 **Myokardia, Inc.**

The earliest first regulatory approval date provided by the patentee 19 Sep 2022

For the goods CAMZYOS mavacamten

Address for service : AJ PARK GPO Box 2513 Sydney NSW 2001 AU

**Extensions granted**

The following application(s) for Extension of Term have been granted under Section 76.

2006283105 **Recordati AG**

The earliest first regulatory approval date provided by the patentee 12 May 2022

For the goods ISTURISA osilodrostat

Extension of Term of patent pursuant to Section 77 expires on 23 Aug 2031

2013261127 **Novartis AG**

The earliest first regulatory approval date provided by the patentee 15 Jul 2022

For the goods SCEMBLIX asciminib

Extension of Term of patent pursuant to Section 77 expires on 15 Jul 2037

2015287336 **Recordati AG**

The earliest first regulatory approval date provided by the patentee 12 May 2022

For the goods ISTURISA osilodrostat

## Extensions of Term of Standard Patents

Extension of Term of a Standard Patent relating to Pharmaceutical Substances

### Extensions granted

Extension of Term of patent pursuant to Section 77 expires on 12 May 2037

## Corrigenda

In Vol 33 , No 15 , Page(s) 2132 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Laboratory Corporation of America Holdings, Application No. 2017343623, under INID (54) correct the title to Methods and systems for determining ADAMTS13 enzyme activity

In Vol 33 , No 47 , Page(s) 6606 under the heading **Applications Lapsed, Refused or Withdrawn, Patents Ceased or Expired - 2013** Delete all reference to 2013251240

In Vol 35 , No 24 , Page(s) 5051 under the heading **Innovation Patents Filed - Name Index** Under the name Total Coolant Management Solutions Pty Ltd, Application No. 2021102755, under INID (62) remove 2020102019; under INID (31) insert 2020102019; under INID (32) insert the date 27.08.2020; under INID (33) insert AU

In Vol 35 , No 27 , Page(s) 5618 under the heading **Innovation Patents OPI - Name Index** Under the name Total Coolant Management Solutions Pty Ltd, Application No. 2021102755, under INID (62) remove 2020102019; under INID (31) insert 2020102019; under INID (32) insert the date 27.08.2020; under INID (33) insert AU

In Vol 36 , No 49 , Page(s) 6680 under the heading **Applications Lapsed, Refused or Withdrawn, Patents Ceased or Expired - 2018** Delete all reference to 2018203325

In Vol 57 , No 10 , Page(s) 1476 under the heading **Amendments - Application for Amendments** Under the name Pharmotech SA, Application No. 2017272795 correct the date of the statements filed to read 16 Feb 2023 and 2 Mar 2023

In Vol 57 , No 10 , Page(s) 1541 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name PROMETTRE CANCER RESEARCH PTY LTD, Application No. 2021311481, under INID (71) correct the applicant name to ProMetTre Cancer Research Co Ltd

In Vol 57 , No 10 , Page(s) 1543 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Richter Gedeon Nyrt., Application No. 2021319420, under INID (54) correct the title to read Pharmacologically active heterocyclic-substituted pyrazolo [1,5-a] pyrimidine derivatives

In Vol 57 , No 10 , Page(s) 1550 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Verte Technologies, Application No. 2021331702, under INID (71) correct the applicant name to Verte Technologies, LLC

In Vol 57 , No 11 , Page(s) 1669 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Hisense (Shandong) Refrigerator Co., Ltd., Application No. 2021343048, under INID (71) correct the applicant name to Hisense Refrigerator Co., Ltd.

## Corrigenda

In Vol 57 , No 11 , Page(s) 1672 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Ionis Pharmaceuticals, Inc., Application No. 2021353849, under INID (54) correct the title to read Methods for reducing APOCIII expression

In Vol 57 , No 11 , Page(s) 1676 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Nanjing Chia Tai Tianqing Pharmaceutical Co., Ltd., Application No. 2021314419, under INID (54) correct the title to read Salt of di-hydropyrido[2,3-d]pyrimidinone derivative, preparation method therefor, and use thereof

In Vol 57 , No 4 , Page(s) 625 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Zynherba Pharmaceuticals, Inc., Application No. 2021301406, under INID (72) correct the co-inventor to GRIESSER, James

In Vol 57 , No 6 , Page(s) 913 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Academia Sinica, Application No. 2022257113, under INID (72) add co-inventor WONG, Chi-Huey

In Vol 57 , No 7 , Page(s) 1071 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Knopp Biosciences LLC, Application No. 2021322255, under INID (71) correct the applicant name to Areteia Therapeutics, Inc.

In Vol 57 , No 7 , Page(s) 1075 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name P. G. Nelson Jr., Application No. 2021305676, under INID (71) correct the applicant name to G. P. Nelson Jr.

In Vol 57 , No 9 , Page(s) 1378 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name ExxonMobil Research and Engineering Company, Application No. 2021324828, under INID (71) correct the applicant name to ExxonMobil Technology and Engineering Company

## Specifications Republished

The following specifications contained errors when advertised OPI, Accepted or Certified. They have been reissued on the date of this Journal.

2017323629 **2seventy bio, Inc.**  
2021212098 **Beckman Coulter, Inc.**

2018275541 15 Mar 2023

**Notice of intention to amend pursuant to rule 34.41 of the Federal Court Rules**

**Australian Patent No. 2018275541 in the name of Dignity Health**

In accordance with Rule 34.41(1) of the *Federal Court Rules 2011* (Cth), Dignity Health, the owner of Australian Patent No. 2018275541, gives notice that it intends to apply to the Federal Court of Australia to amend the Patent pursuant to section 105(1) of the *Patents Act 1990* (Cth).

A handwritten signature in blue ink, appearing to read 'James Lawrence', is centered on the page.

James Nicholas Lawrence  
Mills Oakley  
Lawyers for the Amendment Applicant

15 March 2023

## Advertisement

### Application to amend Australian Patent No. 2018275541

#### Proceeding

Dignity Health intends to apply pursuant to section 105(1) of the *Patents Act 1990* (Cth) to amend Australian Patent No. 2018275541 (the **541 Patent**) entitled “Systems and methods for constructing a synthetic anatomical model with predetermined anatomic, biomechanical, and physiological properties” in Federal Court of Australia Proceeding No. NSD 25 of 2023 - *Fusetec 3D Pty Ltd v Dignity Health & Anor* (the **Proceeding**).

#### Particulars of amendment sought

Dignity Health intends to apply to amend the complete specification of the 541 Patent in accordance with the Statement of Proposed Amendments annexed to this advertisement as Annexure A.

#### Applicant’s address for service

Dignity Health’s address for service is:

c/- James Lawrence  
Mills Oakley  
Level 7, 151 Clarence Street  
SYDNEY NSW 2000

#### Opposition to application

A person intending to oppose the amendment application who is not a party to the Proceeding must, within 28 days after publication of this advertisement, give written notice of that intention to the Commissioner of Patents and each party to the Proceeding.

2018275541 15 Mar 2023

## **ANNEXURE A**

**ANNEXURE "A"**

**AUSTRALIA**

*Patents Act 1990 (Cth)*

**IN THE MATTER** of Patent  
No. 2018275541 in the name of  
Dignity Health (**Applicant**)

**STATEMENT OF PROPOSED AMENDMENTS**

	<u>In the Description on File:</u>	
1.		Cancel description page 2A on file and replace with the substitute description pages 2A and 2B enclosed in duplicate, one copy being a marked up version of the substitute description pages.
	<u>In the Claims on File:</u>	
2.		Cancel all claims pages on file and replace with the substitute claims pages enclosed in duplicate, one copy being a marked up version of the substitute claims pages.

Dated: 15 March 2023



James Nicholas Lawrence  
Mills Oakley  
Lawyers for and on behalf of the Amendment Applicant.

To:  
The Commissioner of Patents  
Commonwealth of Australia



## SUMMARY

**[0005B]** According to one aspect of the present disclosure there is provided a method comprising:

- accessing imaging data associated with a reference anatomical component for modeling;
- utilizing a computing device and 3D printer in operable communication with the computing device, configured for:
  - creating a 3D printing file from the imaging data, the 3D printing file defining parameters for printing a synthetic model of the reference anatomical component;
  - adjusting the parameters of the 3D printing file according to experimentally derived datasets associated with anatomical, physiological, and biomechanical properties specific to the reference anatomical component; and
  - printing at least a portion of the synthetic model of the reference anatomical component using the parameters as adjusted.

**[0005C]** According to another aspect of the present disclosure there is provided a method comprising:

- accessing imaging data associated with a reference anatomical component, the imaging data being integrated imaging data generated from multiple anatomical tissue reference components from more than one subject, for modeling the reference anatomical component;
- utilizing a computing device and 3D printer in operable communication with the computing device, configured for:
  - creating a 3D printing file from the integrated imaging data, the 3D printing file defining parameters for printing a synthetic model of the reference anatomical component based on the integrated imaging data of the multiple anatomical tissue reference components;
  - adjusting the parameters of the 3D printing file according to experimentally derived datasets associated with anatomical, physiological, and biomechanical properties specific to the reference anatomical component; and

printing at least a portion of the synthetic model of the reference anatomical component using the parameters as adjusted.

**[0005DC]** Throughout this specification the word "comprise", or variations such as "comprises" or "comprising", will be understood to imply the inclusion of a stated element, integer or step, or group of elements, integers or steps, but not the exclusion of any other element, integer or step, or group of elements, integers or steps.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

**[0006]** FIG. 1 is a simplified block diagram illustrating a system for configuring an apparatus comprising a three-dimensional printer and computing device for constructing a synthetic anatomical model with specific predefined anatomic, biomechanical, and physiological properties.

## CLAIMS

What is claimed is:

1. A method, comprising:
  - accessing imaging data associated with a reference anatomical component for modeling;
  - utilizing a computing device and 3D printer in operable communication with the computing device, configured for:
    - creating a 3D printing file from the imaging data, the 3D printing file defining parameters for printing a synthetic model of the reference anatomical component;
    - adjusting the parameters of the 3D printing file according to experimentally derived datasets associated with anatomical, physiological, and biomechanical properties specific to the reference anatomical component; and
    - printing at least a portion of the synthetic model of the reference anatomical component using the parameters as adjusted.
2. The method of claim 1, further comprising applying at least one biomechanical test to the synthetic model.
3. The method of claim 2-, further comprising re-adjusting the parameters of the 3D printing file based on results associated with the at least one biomechanical test applied to the synthetic model.
54. The method of any one of the preceding claims, wherein the experimentally derived datasets are derived at least based on biomechanical testing of a pedicle screw relative to a spinal segment of a cadaver.
65. The method of any one of the preceding claims, wherein the synthetic model is printed with a first portion corresponding to a first configuration of print parameters and materials and a second portion corresponding to a second configuration of print

parameters and materials, the first portion and the second portion simulating different portions of natural anatomy.

[76](#). The method of any one of the preceding claims, further comprising embedding the synthetic model at least partially within a synthetic soft tissue.

[87](#). The method of any one of the preceding claims, further comprising positioning a synthetic thecal sac along the synthetic model.

[98](#). The method of any one of the preceding claims, wherein the synthetic model is printed with a portion simulating a nerve element, the portion including a metal such that the portion is electrically conductive.

[409](#). The method of any one of the preceding claims, further comprising positioning a plurality of conductive wires along the synthetic model to represent nerve roots.

[4410](#). The method of any one of the preceding claims, further comprising:  
forming a plurality of channels through the synthetic model;  
disposing a surgical tubing through the plurality of channels; and  
disposing an artificial blood solution within the surgical tubing under a pressure.

[4211](#). The method of any one of the preceding claims, wherein the imaging data is derived from a CAD software package, and the imaging data, and the computing device is configured to convert the imaging data to STL files.

[4312](#). The method of any one of the preceding claims, further comprising modifying the 3D printing file to adjust one or more features for the synthetic model.

[4413](#). The method of any one of the preceding claims, wherein the synthetic model is printed to mimic corticocancellous architecture of human bone, the synthetic model including a mesh portion filling an interior of the synthetic model and having a first thickness, and the synthetic model further having a cortical outer shell of a second thickness greater than the first thickness positioned around the mesh portion.

~~45~~14. The method of any one of the preceding claims, wherein the synthetic model is printed with radiopaque materials such that the synthetic model is visible under fluoroscopic and X-ray devices.

~~46~~15. The method of any one of the preceding claims, further comprising simulating a spinal correction procedure by applying a spinal fixation construct to the synthetic model.

~~47~~16. The method of claim ~~46~~15, further comprising identifying failure points of the reference anatomical component based on the spinal correction procedure applied to the synthetic model.

417. The method of any one of the preceding claims ~~4 to 3~~, wherein the reference anatomical component is associated with a CT scan of a patient.

18. A method, comprising:

\_\_\_\_\_ accessing imaging data associated with a reference anatomical component, the imaging data being integrated imaging data generated from multiple anatomical tissue reference components from more than one subject, for modeling the reference anatomical component;

\_\_\_\_\_ utilizing a computing device and 3D printer in operable communication with the computing device, configured for:

\_\_\_\_\_ creating a 3D printing file from the integrated imaging data, the 3D printing file defining parameters for printing a synthetic model of the reference anatomical component based on the integrated imaging data of the multiple anatomical tissue reference components;

\_\_\_\_\_ adjusting the parameters of the 3D printing file according to experimentally derived datasets associated with anatomical, physiological, and biomechanical properties specific to the reference anatomical component; and

\_\_\_\_\_ printing at least a portion of the synthetic model of the reference anatomical component using the parameters as adjusted.

19. The method of claim 18, further comprising the limitations added by any one of claims 2 to 16.

20. The method of claim 18 or claim 19, wherein each of the reference anatomical components is associated with a CT scan of a patient.

## SUMMARY

**[0005B]** According to one aspect of the present disclosure there is provided a method comprising:

- accessing imaging data associated with a reference anatomical component for modeling;
- utilizing a computing device and 3D printer in operable communication with the computing device, configured for:
  - creating a 3D printing file from the imaging data, the 3D printing file defining parameters for printing a synthetic model of the reference anatomical component;
  - adjusting the parameters of the 3D printing file according to experimentally derived datasets associated with anatomical, physiological, and biomechanical properties specific to the reference anatomical component; and
  - printing at least a portion of the synthetic model of the reference anatomical component using the parameters as adjusted.

**[0005C]** According to another aspect of the present disclosure there is provided a method comprising:

- accessing imaging data associated with a reference anatomical component, the imaging data being integrated imaging data generated from multiple anatomical tissue reference components from more than one subject, for modeling the reference anatomical component;
- utilizing a computing device and 3D printer in operable communication with the computing device, configured for:
  - creating a 3D printing file from the integrated imaging data, the 3D printing file defining parameters for printing a synthetic model of the reference anatomical component based on the integrated imaging data of the multiple anatomical tissue reference components;
  - adjusting the parameters of the 3D printing file according to experimentally derived datasets associated with anatomical, physiological, and biomechanical properties specific to the reference anatomical component; and

printing at least a portion of the synthetic model of the reference anatomical component using the parameters as adjusted.

**[0005D]** Throughout this specification the word "comprise", or variations such as "comprises" or "comprising", will be understood to imply the inclusion of a stated element, integer or step, or group of elements, integers or steps, but not the exclusion of any other element, integer or step, or group of elements, integers or steps.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

**[0006]** FIG. 1 is a simplified block diagram illustrating a system for configuring an apparatus comprising a three-dimensional printer and computing device for constructing a synthetic anatomical model with specific predefined anatomic, biomechanical, and physiological properties.



## CLAIMS

What is claimed is:

1. A method, comprising:
  - accessing imaging data associated with a reference anatomical component for modeling;
  - utilizing a computing device and 3D printer in operable communication with the computing device, configured for:
    - creating a 3D printing file from the imaging data, the 3D printing file defining parameters for printing a synthetic model of the reference anatomical component;
    - adjusting the parameters of the 3D printing file according to experimentally derived datasets associated with anatomical, physiological, and biomechanical properties specific to the reference anatomical component; and
    - printing at least a portion of the synthetic model of the reference anatomical component using the parameters as adjusted.
2. The method of claim 1, further comprising applying at least one biomechanical test to the synthetic model.
3. The method of claim 2, further comprising re-adjusting the parameters of the 3D printing file based on results associated with the at least one biomechanical test applied to the synthetic model.
4. The method of any one of the preceding claims, wherein the experimentally derived datasets are derived at least based on biomechanical testing of a pedicle screw relative to a spinal segment of a cadaver.
5. The method of any one of the preceding claims, wherein the synthetic model is printed with a first portion corresponding to a first configuration of print parameters and materials and a second portion corresponding to a second configuration of print

parameters and materials, the first portion and the second portion simulating different portions of natural anatomy.

6. The method of any one of the preceding claims, further comprising embedding the synthetic model at least partially within a synthetic soft tissue.

7. The method of any one of the preceding claims, further comprising positioning a synthetic thecal sac along the synthetic model.

8. The method of any one of the preceding claims, wherein the synthetic model is printed with a portion simulating a nerve element, the portion including a metal such that the portion is electrically conductive.

9. The method of any one of the preceding claims, further comprising positioning a plurality of conductive wires along the synthetic model to represent nerve roots.

10. The method of any one of the preceding claims, further comprising:  
forming a plurality of channels through the synthetic model;  
disposing a surgical tubing through the plurality of channels; and  
disposing an artificial blood solution within the surgical tubing under a pressure.

11. The method of any one of the preceding claims, wherein the imaging data is derived from a CAD software package, and the imaging data, and the computing device is configured to convert the imaging data to STL files.

12. The method of any one of the preceding claims, further comprising modifying the 3D printing file to adjust one or more features for the synthetic model.

13. The method of any one of the preceding claims, wherein the synthetic model is printed to mimic corticocancellous architecture of human bone, the synthetic model including a mesh portion filling an interior of the synthetic model and having a first thickness, and the synthetic model further having a cortical outer shell of a second thickness greater than the first thickness positioned around the mesh portion.

14. The method of any one of the preceding claims, wherein the synthetic model is printed with radiopaque materials such that the synthetic model is visible under fluoroscopic and X-ray devices.
15. The method of any one of the preceding claims, further comprising simulating a spinal correction procedure by applying a spinal fixation construct to the synthetic model.
16. The method of claim 15, further comprising identifying failure points of the reference anatomical component based on the spinal correction procedure applied to the synthetic model.
17. The method of any one of the preceding claims, wherein the reference anatomical component is associated with a CT scan of a patient.
18. A method, comprising:
  - accessing imaging data associated with a reference anatomical component, the imaging data being integrated imaging data generated from multiple anatomical tissue reference components from more than one subject, for modeling the reference anatomical component;
  - utilizing a computing device and 3D printer in operable communication with the computing device, configured for:
    - creating a 3D printing file from the integrated imaging data, the 3D printing file defining parameters for printing a synthetic model of the reference anatomical component based on the integrated imaging data of the multiple anatomical tissue reference components;
    - adjusting the parameters of the 3D printing file according to experimentally derived datasets associated with anatomical, physiological, and biomechanical properties specific to the reference anatomical component; and
    - printing at least a portion of the synthetic model of the reference anatomical component using the parameters as adjusted.

19. The method of claim 18, further comprising the limitations added by any one of claims 2 to 16.

20. The method of claim 18 or claim 19, wherein each of the reference anatomical components is associated with a CT scan of a patient.