



**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 21 Mar 2023 .

(71) Air Change Pty Ltd (21) 2023900776 (22) 21.03.2023 (54) A Ventilation Dehumidification Assembly	(71) Burning Haystacks Pty Ltd (21) 2023900770 (22) 20.03.2023 (54) AN ACCESS CONTROL SYSTEM AND METHOD FOR A COMPUTING SYSTEM	(21) 2023900760
(71) Andreotti, B. (21) 2023900779 (22) 21.03.2023 (54) Pet bed with detachable blanket cover	(71) Carbelec Pty Ltd (21) 2023900814 (22) 23.03.2023 (54) ELECTROLYSIS OF CARBON DIOXIDE	(71) Cuvos Pty Ltd (21) 2023900771 (22) 20.03.2023 (54) EVEN-BASED IMAGE PROCESSING
(71) Baker Heart and Diabetes Institute (21) 2023900769 (22) 20.03.2023 (54) Methods of assessing metabolic health	(71) Cenagen Pty Ltd (21) 2023900784 (22) 21.03.2023 (54) Waste processing method and system	(71) Degan, G. (21) 2023900751 (22) 19.03.2023 (54) "Dreamtight's" primary objective is to separate (delineate) a standard bed for the comfort of multiple occupants.
(71) Bakvertisi Limited (21) 2023900821 (22) 24.03.2023 (54) AN ORDER FULFILMENT SYSTEM	<b>Collings, S. see Ezi Grade Limited</b> (21) 2023900822	(71) Dorotich, P. (21) 2023900799 (22) 22.03.2023 (54) Helmet impact sensor
(71) Baron, S. (21) 2023900796 (22) 22.03.2023 (54) Motorized device for marine exploration	(71) Coma, A. (21) 2023900801 (22) 22.03.2023 (54) zig zag live app	(71) Dorotich, P. (21) 2023900800 (22) 22.03.2023 (54) Heltech helmet
<b>Beuzeville, G. see THE RENEWABLE GROUP PTY. LTD.</b> (21) 2023900758	(71) Comfortel Furniture Pty Ltd (21) 2023900793 (22) 22.03.2023 (54) Height adjustable battery operated chair	(71) Ezi Grade Limited; Gilchrist, P.; Collings, S. (21) 2023900822 (22) 24.03.2023 (54) DRAIN LAYING TOOL AND METHOD OF USE
(71) Bhatta, G. (21) 2023900556 (22) 03.03.2023 (54) Nepali Who Is Who In Australia	(71) Commonwealth Scientific and Industrial Research Organisation (21) 2023900789 (22) 21.03.2023 (54) Adsorbent structures and method and system for designing adsorbent structures	(71) Future Fuels CRC Ltd (21) 2023900794 (22) 22.03.2023 (54) Methane pyrolysis catalysts
(71) BHT Group Pty Ltd (21) 2023900782 (22) 21.03.2023 (54) Clamping system	(71) Commonwealth Scientific and Industrial Research Organisation; Monash University (21) 2023900818 (22) 23.03.2023 (54) POINT OF CARE DIAGNOSTIC METHODS	(71) Gaida, J. (21) 2023900830 (22) 24.03.2023 (54) Apparatus for generating power from a fluid and method thereof
(71) Boddington, T. (21) 2023900788 (22) 21.03.2023 (54) ADAPTABLE CONTAINER AND NOVEL CLOSURE	<b>Coutts, W. see Mineweld Services</b>	<b>Gilchrist, P. see Ezi Grade Limited</b> (21) 2023900822
		(71) Greening Investments Pty Ltd (21) 2023900766 (22) 20.03.2023 (54) Adjustment Device

Provisional Applications Filed - Name Index cont'd

<p>(71) Greenlands Distributors Pty Ltd (21) 2023900816 (22) 23.03.2023 (54) A bin and a bin lid</p>	<p>(71) Macquarie University (21) 2023900807 (22) 23.03.2023 (54) Reconfigurable Brillouin Laser</p>	<p>(71) Procure Electrical Solutions (21) 2023900755 (22) 20.03.2023 (54) Actuated Turbine</p>
<p>(71) Gunarathna Mudiyansele, P.B.G. (21) 2023900783 (22) 21.03.2023 (54) Building and Construction Apparatus and Method</p>	<p>(71) Magellan Stem Cells Pty Ltd (21) 2023900798 (22) 22.03.2023 (54) Method</p>	<p>(71) Qenos Pty Ltd (21) 2023900832 (22) 24.03.2023 (54) Masterbatch compositions and their use</p>
<p>(71) GUNDLACH, D. (21) 2023900813 (22) 23.03.2023 (54) Surf Skate Device</p>	<p>(71) McIntyre, A. (21) 2023900778 (22) 21.03.2023 (54) SYSTEM AND METHOD TO ASSIST MANAGING NETWORK MARKETING RELATIONSHIPS</p>	<p><b>RAJENDRAM, G. see HENDERSON, D.</b> (21) 2023900806</p>
<p>(71) Harveston Technologies Pty Ltd (21) 2023900780 (22) 21.03.2023 (54) SYSTEM AND APPARATUS FOR STORAGE OF NUTS, SEEDS, GRAINS AND THE LIKE</p>	<p>(71) Mineweld Services; Coutts, W. (21) 2023900760 (22) 20.03.2023 (54) Underground Mining Hydraulic Operated Vacuum Tank Unit</p>	<p>(71) Reiser, J. (21) 2023900753 (22) 20.03.2023 (54) A New Method of Sales and Marketing</p>
<p>(71) HENDERSON, D.; RAJENDRAM, G. (21) 2023900806 (22) 23.03.2023 (54) LIMING MATERIAL</p>	<p>(71) Monash University; Woodside Energy Technologies Pty Ltd (21) 2023900815 (22) 23.03.2023 (54) Solar array</p>	<p>(71) Richmond, D. (21) 2023900772 (22) 20.03.2023 (54) Full face ballistic mask with replaced vision</p>
<p>(71) IBMS Pty Ltd (21) 2023900810 (22) 23.03.2023 (54) TECHNOLOGY CONFIGURED TO ENABLE IMPROVED STRATEGIC CONTROL OVER ELECTRICALLY POWERED INFRASTRUCTURE BASED ON ENERGY SUPPLY PARAMETERS</p>	<p><b>Monash University see Commonwealth Scientific and Industrial Research Organisation</b> (21) 2023900818</p>	<p>(71) RITESIGN PTY LTD (21) 2023900795 (22) 22.03.2023 (54) Apparatus and Method for Cleaning a Filter</p>
<p>(71) Illinois Tool Works Inc. (21) 2023900802 (22) 22.03.2023 (54) Apparatus and method for reducing air-borne dust</p>	<p>(71) Murphy, S. (21) 2023900777 (22) 21.03.2023 (54) A portable golf club cleaning device</p>	<p>(71) Samson Coffee House Pty Ltd (21) 2023900792 (22) 22.03.2023 (54) APPARATUS FOR BREWING FILTER COFFEE</p>
<p>(71) Illinois Tool Works Inc. (21) 2023900804 (22) 22.03.2023 (54) Apparatus and method for dust removal</p>	<p>(71) NDE Solutions Pty Ltd (21) 2023900791 (22) 21.03.2023 (54) APPARATUS FOR TRAVERSING A STRUCTURE AND DETERMINING POSITIONAL DATA</p>	<p>(71) Scolaro, A. (21) 2023900811 (22) 23.03.2023 (54) A Power Drive</p>
<p>(71) Implicit Bioscience Ltd (21) 2023900768 (22) 20.03.2023 (54) Methods and agents for treating muscle myopathy</p>	<p>(71) Newell, J. (21) 2023900787 (22) 21.03.2023 (54) Adjustable Brass Musical Instrument Mute to Bell Interface (AKA Cork)</p>	<p><b>Sea Containers WA Pty Ltd see Ozanne, B.</b> (21) 2023900763</p>
<p>(71) K A Cooper Pty Ltd (21) 2023900809 (22) 23.03.2023 (54) Apparatus for removing a coating from an external surface of penstock, system and method</p>	<p>(71) NewSouth Innovations Pty Ltd (21) 2023900829 (22) 24.03.2023 (54) Delaminating of a photovoltaic module</p>	<p>(71) SensorC Pty Ltd (21) 2023900740 (22) 17.03.2023 (54) Soil carbon measurement system and methodology</p>
<p>(71) Linked Group Services Pty Ltd (21) 2023900820 (22) 23.03.2023 (54) Transportable stations</p>	<p>(71) Notte, A. (21) 2023900828 (22) 24.03.2023 (54) Drone Marking System and Method for a Building Site</p>	<p>(71) Sharp Initiatives Pty Ltd (21) 2023900786 (22) 21.03.2023 (54) A NEW PROCESS, WHICH IS ADOPTED ON CONSTRUCTION PROJECTS THAT HAVE THE USE OF A TYPE OF CONCRETE MADE FROM LOW CARBON CEMENT AS A STIPULATION AND TO A PRE-DEFINED EXTENT. THE NEW PROCESS IS AN INNOVATIVE METHODOLOGY THAT CONCLUSIVELY PROVES THAT THIS A TYPE OF CONCRETE IS INDEED BEING USED TO THE PRE-DEFINED EXTENT, BY MEANS OF THE APPOINTMENT OF A SUITABLY QUALIFIED AND INDEPENDENT CONSULTANT UNDERTAKING A SCOPE OF WORK THAT ENCOMPASSES THE TESTING AND CERTIFICATION OF</p>

Provisional Applications Filed - Name Index cont'd

SUCH CONCRETE BY EMPLOYING PORTABLE X-RAY FLUORESCENCE EQUIPMENT, OR SIMILAR.

(71) THE RENEWABLE GROUP PTY. LTD.;  
Beuzeville, G.  
(21) 2023900758 (22) 20.03.2023  
(54) G AND J ADAPTOR

(71) Sidana, S.  
(21) 2023900797 (22) 22.03.2023  
(54) VENDING MACHINE WITH INTEGRATED BODY TEMPERATURE SCANNER FOR DISPENSING NON-PRESCRIPTION MEDICINE, HYGIENE PRODUCTS, AND FIRST AID KITS IN PUBLIC SPACES

(71) The University of Newcastle  
(21) 2023900767 (22) 20.03.2023  
(54) Method of treating glioblastoma

(71) Simex Industries Pty Ltd  
(21) 2023900803 (22) 22.03.2023  
(54) Tine Assembly

(71) The University of Sydney; Sydney Local Health District, N.  
(21) 2023900817 (22) 23.03.2023  
(54) Soft tissue sensing stem

(71) Smith, D.  
(21) 2023900775 (22) 21.03.2023  
(54) A sound generating fishing lure

(71) UCAN OSTOMY SYSTEMS PTY LTD  
(21) 2023900790 (22) 21.03.2023  
(54) Flushable Ostomy Pouch and Applications comprising a Biodegradable Flushable Barrier

(71) Sonicpeller Pty Ltd  
(21) 2023900826 (22) 24.03.2023  
(54) Propulsion system and toy boat having same

(71) Umair, S.  
(21) 2023900839 (22) 27.03.2023  
(54) Nematode Vaccine

(71) Southern Wire Pty Ltd  
(21) 2023900805 (22) 22.03.2023  
(54) A Device and System for Manipulating a Pack of Posts

(71) Uski, A.  
(21) 2023900781 (22) 21.03.2023  
(54) A Fruit Protector

(71) SPP Industries Holdings Pty Ltd  
(21) 2023900785 (22) 21.03.2023  
(54) Further improved blind

(71) Whole Green Foods Pty Ltd  
(21) 2023900825 (22) 24.03.2023  
(54) PROCESS AND EQUIPMENT FOR MAKING AN IMPROVED OAT MILK

(71) Studco Australia Pty Ltd  
(21) 2023900773 (22) 21.03.2023  
(54) IMPROVED BUILDING STUD FOR UTILITY SERVICES

**Woodside Energy Technologies Pty Ltd**  
**see Monash University**  
(21) 2023900815

(71) Sundrive Solar Pty Ltd  
(21) 2023900831 (22) 24.03.2023  
(54) A method for depositing a metallic material on a surface of at least one solar cell

(71) Xero Limited  
(21) 2023900819 (22) 23.03.2023  
(54) Methods and systems for facilitating data store migration

**Sydney Local Health District, N. see The University of Sydney**  
(21) 2023900817

(71) Yaramen Pty Ltd  
(21) 2023900765 (22) 20.03.2023  
(54) HELICOPTER ASSEMBLY

(71) TELEAUS BIOSCIENCE HEALTH PTY LTD  
(21) 2023900774 (22) 21.03.2023  
(54) Method for Extending Lifespan in Caenorhabditis elegans through Microbiome Manipulation

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<b>2023900556</b>	Bhatta, G.	<b>2023900825</b>	Whole Green Foods Pty Ltd
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- . (\*) Title not in Roman characters
- . (\*\*) Title not given

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<p>(71) Canva Pty Ltd (21) 2023201533 (22) 13.03.2023 (54) Systems and methods for recognising hand-drawn shapes</p>	<p>(71) CFPH, LLC (21) 2023201330 (22) 03.03.2023 (54) GAME WITH PLAYER ACTUATED CONTROL STRUCTURE (62) 2021201175</p>	<p>(71) DATA ZOO PTY LIMITED (21) 2023201493 (22) 09.03.2023 (54) A method for electronic identity verification and management (62) PCT/AU2022/051052</p>
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<p>(71) Eagle View Technologies, Inc. (21) 2023201455 (22) 08.03.2023 (54) IMAGE ANALYSIS SYSTEM (62) 2020244561</p>	<p>(71) Fisher &amp; Paykel Healthcare Limited (21) 2023201335 (22) 03.03.2023 (54) RESPIRATORY EQUIPMENT PACKAGING AND A PACKAGING INSERT FOR RESPIRATORY EQUIPMENT (62) 2017235840</p>	<p>(71) Getac Technology Corporation (21) 2023201337 (22) 03.03.2023 (54) Vehicle power management system and operation method thereof (31) 63/420,467 (32) 28.10.22 (33) US</p>
<p>(71) ECHONSENS, (21) 2023201478 (22) 09.03.2023 (54) ELASTOGRAPHY DEVICE AND METHOD (31) 22305298.6 (32) 15.03.22 (33) EP 17/695,053 15.03.22 US</p>	<p>(71) FNV IP B.V. (21) 2023201365 (22) 06.03.2023 (54) System and method for mapping a railway track (62) 2018264741</p>	<p>(71) Getac Technology Corporation (21) 2023201340 (22) 03.03.2023 (54) Hot-swappable electronic device and method for preventing crash of the same (31) 202211595983.9 (32) 13.12.22 (33) CN</p>
<p>(71) Eiger Group International, Inc. (21) 2023201397 (22) 07.03.2023 (54) USE OF CHLOROQUINE AND CLEMIZOLE COMPOUNDS FOR TREATMENT OF INFLAMMATORY AND CANCEROUS CONDITIONS (62) 2021201234</p>	<p>(71) Foremost Worldwide Company Limited (21) 2023201511 (22) 10.03.2023 (54) Dual use device and furniture module (31) 202220524626.2 (32) 10.03.22 (33) CN</p>	<p>(71) Getac Technology Corporation (21) 2023201351 (22) 03.03.2023 (54) Millimeter Wave Signal Transmission Integration Device (31) 63/417,992 (32) 20.10.22 (33) US 63/418,407 21.10.22 US</p>
		<p>(71) Getac Technology Corporation (21) 2023201410 (22) 07.03.2023 (54) METHOD FOR SHARING CONSOLE VARIABLE SETTING OF APPLICA-</p>

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TION AND SYSTEM WITH PLURALITY OF ELECTRONIC DEVICES  
(31) 63/402,029 (32) 29.08.22 (33) US

(71) Getac Technology Corporation  
(21) 2023201446 (22) 08.03.2023  
(54) Internet of things equipment management system and operation method thereof  
(31) 202211424132.8 (32) 15.11.22 (33) TW

(71) Getac Technology Corporation  
(21) 2023201450 (22) 08.03.2023  
(54) Internet of things equipment management system and operation method thereof  
(31) 202211425074.0 (32) 15.11.22 (33) CN

(71) Getac Technology Corporation  
(21) 2023201571 (22) 14.03.2023  
(54) LATCHING MEMBER AND CASE WITH LATCHING MEMBER  
(31) 63/350,907 (32) 10.06.22 (33) US  
202211430216.2 15.11.22 CN

(71) Getac Technology Corporation  
(21) 2023201573 (22) 14.03.2023  
(54) ELECTRONIC DEVICE AND BATTERY CAPACITY REPORTING METHOD  
(31) 202211535522.2 (32) 30.11.22 (33) CN

(71) Golden Solar (Quanzhou) New Energy Technology Co., Ltd.  
(21) 2023201491 (22) 09.03.2023  
(54) MASK-LAYER-FREE HYBRID PASSIVATION BACK CONTACT CELL AND FABRICATION METHOD THEREOF  
(31) 202211237896.6 (32) 11.10.22 (33) CN

(71) Golden Solar (Quanzhou) New Energy Technology Co., Ltd.  
(21) 2023201492 (22) 09.03.2023  
(54) HYBRID PASSIVATION BACK CONTACT CELL AND FABRICATION METHOD THEREOF  
(31) 202211125435.X (32) 16.09.22 (33) CN

(71) Google LLC  
(21) 2023201299 (22) 02.03.2023  
(54) CONSTRUCTING AND PROGRAMMING QUANTUM HARDWARE FOR QUANTUM ANNEALING PROCESSES  
(62) 2022200224

(71) Greyrock Technology, LLC  
(21) 2023201338 (22) 03.03.2023  
(54) Catalysts, Related Methods And Reaction Products  
(62) 2021258079

(71) Hager-Electro SAS  
(21) 2023201496 (22) 10.03.2023

(54) System for connecting a modular electrical device to an electrical distribution panel, modular electrical device, and assembly comprising an electrical distribution panel and such a connection system  
(31) 2202113 (32) 10.03.22 (33) FR

(71) Hager-Electro SAS  
(21) 2023201497 (22) 10.03.2023  
(54) Actuator for an electrical protection appliance  
(31) 2202114 (32) 10.03.22 (33) FR

Hanan, J. see Niagara Bottling, LLC  
(21) 2023201451

(71) Howmedica Osteonics Corp.  
(21) 2023201401 (22) 07.03.2023  
(54) Hybrid knee prosthesis and methods of use  
(31) 63/317,123 (32) 07.03.22 (33) US

(71) Howmedica Osteonics Corp.  
(21) 2023201506 (22) 10.03.2023  
(54) Process of dying polymer parts  
(31) 63/318,531 (32) 10.03.22 (33) US

(71) HSU, C.  
(21) 2023201441 (22) 08.03.2023  
(54) Training device with changeable operating direction  
(31) 111202626 (32) 16.03.22 (33) TW

(71) Huang, T.  
(21) 2023201486 (22) 09.03.2023  
(54) PRODUCTION METHOD OF MULTI-ELEMENT MICROPOROUS MINERAL FERTILIZER WITH PHOSPHORUS, POTASSIUM, SILICON, AND CALCIUM  
(31) 202210875202.5 (32) 22.07.22 (33) CN

(71) Huawei Technologies Co., Ltd.  
(21) 2023201428 (22) 08.03.2023  
(54) PICTURE DATA ENCODING METHOD AND APPARATUS AND PICTURE DATA DECODING METHOD AND APPARATUS  
(62) 2018290360

(71) Hudson Institute of Medical Research  
(21) 2023201412 (22) 07.03.2023  
(54) CXCL10 binding proteins and uses thereof  
(62) 2020404453

(71) iDesignEDU, LLC  
(21) 2023201306 (22) 02.03.2023

(54) Systems and methods for a multi-hierarchy physical storage architecture for managing program and outcome data  
(31) 17/686,298 (32) 03.03.22 (33) US

(71) IHI Corporation  
(21) 2023201324 (22) 03.03.2023  
(54) Power control device, power control method, and power control program  
(31) 2022-077480 (32) 10.05.22 (33) JP

(71) ImmunoGen, Inc.  
(21) 2023201339 (22) 03.03.2023  
(54) Methods of preparing cytotoxic benzodiazepine derivatives  
(62) 2021202403

(71) Implantica Patent Ltd  
(21) 2023201464 (22) 08.03.2023  
(54) Method And Apparatus For Supplying Energy To An Implant  
(62) 2020267290

(71) INOSYSTEMS  
(21) 2023201383 (22) 07.03.2023  
(54) APPARATUS FOR SUPPLYING NO TO TWO GAS OUTLETS  
(31) 2202053 (32) 09.03.22 (33) FR

(71) INOSYSTEMS  
(21) 2023201384 (22) 07.03.2023  
(54) NO DELIVERY APPARATUS WITH MANUAL VENTILATION SYSTEM  
(31) 2202056 (32) 09.03.22 (33) FR

(71) Institute of Biological and Medical Engineering, Guangdong Academy of Sciences  
(21) 2023201416 (22) 07.03.2023  
(54) METHOD FOR PREPARING LEVO-GLUCOSAN BY CATALYTIC PYROLYSIS OF CELLULOSES  
(31) 202210231712.9 (32) 10.03.22 (33) CN

(71) International Paper Company  
(21) 2023201426 (22) 07.03.2023  
(54) CROSSLINKED PULPS, CELLULOSE ETHER PRODUCTS MADE THEREFROM; AND RELATED METHODS OF MAKING PULPS AND CELLULOSE ETHER PRODUCTS  
(62) 2020294168

(71) Intuit Inc.  
(21) 2023201442 (22) 08.03.2023  
(54) System and method for use of alternating least squares to identify common profiles of tax filers and tailor the tax preparation process based on the profile for the individual tax filer  
(62) 2021201898

Complete Applications Filed - Name Index cont'd

(71) J. Ray McDermott, S.A.  
(21) 2023201477 (22) 09.03.2023  
(54) System for determining position of objects  
(62) 2020218500

(71) J. Ray McDermott, S.A.  
(21) 2023201561 (22) 14.03.2023  
(54) Offshore ship-to-ship lifting with target tracking assistance  
(62) 2021209260

(71) Jaram Products Pty Ltd  
(21) 2023201298 (22) 02.03.2023  
(54) Roof Rack Attachment System  
(31) 2022900501 (32) 02.03.22 (33) AU

(71) Johnson & Johnson Consumer Inc.  
(21) 2023201534 (22) 13.03.2023  
(54) Ophthalmic composition  
(62) 2021200514

(71) JONES, P.  
(21) 2023201308 (22) 02.03.2023  
(54) INCONTINENCE AID  
(62) 2017228555

(71) Joy Global Surface Mining Inc  
(21) 2023201363 (22) 06.03.2023  
(54) Dipper door and dipper door trip assembly  
(62) 2020223775

(71) Kabushiki Kaisha Toshiba  
(21) 2023201374 (22) 06.03.2023  
(54) Electrolytic device  
(31) 2022-148606 (32) 16.09.22 (33) JP

(71) Kabushiki Kaisha Toshiba; Toshiba Energy Systems & Solutions Corporation  
(21) 2023201390 (22) 07.03.2023  
(54) Porous metal-organic framework, method for producing the same, adsorbent, and method for separating carbon dioxide  
(31) 2022-068491 (32) 18.04.22 (33) JP

(71) Kabushiki Kaisha Toshiba; THE UNIVERSITY OF TOKYO  
(21) 2023201532 (22) 13.03.2023  
(54) AMMONIA MANUFACTURING APPARATUS AND AMMONIA MANUFACTURING METHOD  
(31) 2022-147413 (32) 15.09.22 (33) JP

(71) KABUSHIKI KAISHA TOYOTA JIDOSHOKKI  
(21) 2023201494 (22) 09.03.2023  
(54) Industrial vehicle  
(31) 2022-053447 (32) 29.03.22 (33) JP

(71) Kawak Aviation Technologies, Inc.  
(21) 2023201342 (22) 03.03.2023  
(54) Aerial Fire-Fighting Bucket Systems  
(31) 17/687,358 (32) 04.03.22 (33) US

(71) Kawak Aviation Technologies, Inc.  
(21) 2023201345 (22) 03.03.2023  
(54) Aerial Fire-Fighting Bucket Systems  
(31) 17/687,360 (32) 04.03.22 (33) US

(71) Kite Pharma, Inc.  
(21) 2023201367 (22) 06.03.2023  
(54) Chimeric receptor T cell treatment using characteristics of the tumor microenvironment  
(62) 2019252944

(71) Kite Pharma, Inc.  
(21) 2023201386 (22) 07.03.2023  
(54) Methods and systems for performing a patient-specific immunotherapy procedure with chain-of-custody and chain-of-identity biological sample tracking  
(62) 2018334279

(71) Komatsu Ltd.  
(21) 2023201379 (22) 06.03.2023  
(54) Work machine and display system  
(31) 2022-049946 (32) 25.03.22 (33) JP

**Komatsu Ltd. see Toyota Jidosha Kabushiki Kaisha**  
(21) 2023201471

(71) Kunming University of Science and Technology  
(21) 2023201380 (22) 06.03.2023  
(54) Method for Reclaiming and Recycling Ceramic Particle Reinforced Steel Matrix Composite  
(31) 202210849802.4 (32) 20.07.22 (33) CN

(71) L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude  
(21) 2023201518 (22) 10.03.2023  
(54) PERFORMING AN ELECTROLYSIS  
(31) 22163340.7 (32) 21.03.22 (33) EP

(71) LESHER, G.  
(21) 2023201487 (22) 09.03.2023  
(54) Apparatus and method of obtaining potable water from impure water source

(71) LG Electronics Inc.  
(21) 2023201411 (22) 07.03.2023  
(54) CLOTHING TREATMENT APPARATUS AND CONTROL METHOD THEREFOR  
(62) 2019262483

(71) LG Electronics Inc.  
(21) 2023201429 (22) 08.03.2023  
(54) Washing machine  
(62) 2019292271

(71) LG Electronics Inc.  
(21) 2023201527 (22) 13.03.2023  
(54) A REFRIGERATOR COMPRISING A CONTAINER  
(31) 10-2022-0031047 (32) 11.03.22 (33) KR

(71) LG Electronics Inc.  
(21) 2023201854 (22) 24.03.2023  
(54) Method for coding transform coefficient on basis of high frequency zeroing and apparatus therefor  
(62) 2019378514

(71) LIEN, C.  
(21) 2023201468 (22) 08.03.2023  
(54) AN ADHESIVE  
(62) 2021221898

(71) Liquidia Technologies, Inc.  
(21) 2023201307 (22) 02.03.2023  
(54) Dry powder treprostinil for the treatment of pulmonary hypertension  
(62) 2017261317

(71) Loehnert, T.  
(21) 2023201545 (22) 13.03.2023  
(54) VEHICLE HITCH MOUNTABLE HAMMOCK ACCESSORY

(71) Lummus Technology Inc.  
(21) 2023201358 (22) 04.03.2023  
(54) HEAT EXCHANGER CLOSURE ASSEMBLIES AND METHODS OF USING AND INSTALLING THE SAME  
(62) 2019239983

(71) Magellan Stem Cells Pty Ltd  
(21) 2023201505 (22) 10.03.2023  
(54) Methods of treatment  
(62) 2017225902

(71) Magic Leap, Inc.  
(21) 2023201300 (22) 02.03.2023  
(54) Method and system for high resolution digitized display  
(62) 2017366896

(71) MAX CO., LTD.  
(21) 2023201557 (22) 14.03.2023  
(54) BINDING DEVICE, BINDING SYSTEM, CONSUMABLE ITEM LOADING DEVICE, CONSUMABLE ITEM LOADING SYSTEM, AND CONSUMABLE ITEM LOADING METHOD  
(31) 2022-038982 (32) 14.03.22 (33) JP

Complete Applications Filed - Name Index cont'd

(71) MeiraGTx UK II Limited  
(21) 2023201431 (22) 08.03.2023  
(54) High throughput cell-based screening for aptamers  
(62) 2017306657

(71) Memorial Sloan Kettering Cancer Center  
(21) 2023201564 (22) 14.03.2023  
(54) IMMUNOGENIC WT-1 PEPTIDES AND METHODS OF USE THEREOF  
(62) 2020250313

(71) MFTB Holdco, Inc.  
(21) 2023201417 (22) 07.03.2023  
(54) Automated generation and presentation of visual data enhancements on camera view images captured in a building  
(31) 17/950,865 (32) 22.09.22 (33) US

**MGI Tech Co., Ltd. see BGI Shenzhen**  
(21) 2023201547

(71) Miles, S.  
(21) 2023201489 (22) 09.03.2023  
(54) CARGO BARRIERS  
(31) 2022901531 (32) 03.06.22 (33) AU

(71) Mitsubishi Electric Corporation  
(21) 2023201311 (22) 02.03.2023  
(54) Heat storage system  
(62) 2019445991

**Miyazato, Y. see Winstar Development Group**  
(21) 2023201456

(71) Muggleton, K.  
(21) 2023201542 (22) 13.03.2023  
(54) A system for introducing gas into a gas grid pipeline  
(62) 2017264807

(71) National University Corporation Kochi University  
(21) 2023201289 (22) 02.03.2023  
(54) Marker for pancreatic cancer and intraductal papillary mucinous neoplasms  
(62) 2021202237

(71) New-Tec Integration (Xiamen) Co., Ltd.  
(21) 2023201544 (22) 13.03.2023  
(54) ELASTIC PAD, ELASTIC PAD ASSEMBLING METHOD AND FURNITURE  
(31) 202210693497.4 (32) 17.06.22 (33) CN  
202211678539.3 26.12.22 CN

(71) Niagara Bottling, LLC; Hanan, J.; Bandla, S.  
(21) 2023201451 (22) 08.03.2023

(54) Graphene reinforced polyethylene terephthalate  
(62) 2020244500

(71) Nicoventures Trading Limited  
(21) 2023201344 (22) 03.03.2023  
(54) Temperature determination  
(62) 2020294182

(71) Nien Made Enterprise Co., Ltd.  
(21) 2023201556 (22) 14.03.2023  
(54) Window blind  
(31) 202220642916.7 (32) 23.03.22 (33) CN  
111202817 18.03.22 TW

(71) NOOSA NATURAL VET PTY. LTD.  
(21) 2023201495 (22) 10.03.2023  
(54) TC Healer device

(71) North Central Gold Pty Ltd  
(21) 2023201398 (22) 07.03.2023  
(54) RESOURCE EXPLORATION METHOD AND SYSTEM  
(31) 2022900565 (32) 08.03.22 (33) AU

(71) Nozomi Networks Sagl  
(21) 2023201371 (22) 06.03.2023  
(54) Method for detecting anomalies in time series data produced by devices of an infrastructure in a network  
(31) 17/690,676 (32) 09.03.22 (33) US

(71) NuVasive, Inc.  
(21) 2023201554 (22) 14.03.2023  
(54) POROUS SPINAL FUSION IMPLANT  
(62) 2021204153

(71) NuVasive, Inc.  
(21) 2023201555 (22) 14.03.2023  
(54) SPINAL TRAUMA CORRECTION AND FIXATION  
(62) 2017288105

(71) Oakley, Inc.  
(21) 2023201566 (22) 14.03.2023  
(54) EYEWEAR WITH CHROMA ENHANCEMENT  
(62) 2020230305

(71) OPUS ONE SOLUTIONS ENERGY CORP.  
(21) 2023201347 (22) 03.03.2023  
(54) SYSTEMS AND METHODS FOR GRID OPERATING SYSTEMS IN ELECTRIC POWER SYSTEMS  
(62) 2020294331

(71) Panasonic Intellectual Property Corporation of America  
(21) 2023201336 (22) 03.03.2023

(54) Encoder, decoder, encoding method, decoding method, and picture compression program  
(62) 2019274735

(71) Panasonic Intellectual Property Corporation of America  
(21) 2023201512 (22) 10.03.2023  
(54) Communication apparatus and communication method  
(62) 2018224614

(71) ParaNetics, Inc.  
(21) 2023201402 (22) 07.03.2023  
(54) METHODS AND APPARATUS FOR GENERATING MAGNETIC FIELDS  
(62) 2021201642

(71) Phantasm Limited  
(21) 2023201546 (22) 14.03.2023  
(54) GRAPE SKIN COMPOSITIONS AND COMPOUNDS, AND METHODS OF PREPARATION AND USE THEREFOR  
(62) 2021288251

(71) Pipe Ex Pty Ltd  
(21) 2023201549 (22) 14.03.2023  
(54) DEVICE TO PREVENT LOSS OF LIQUID ON HIGH POINT VENTS  
(31) 2022901025 (32) 18.04.22 (33) AU

(71) Pluto Inc.  
(21) 2023201517 (22) 10.03.2023  
(54) Methods and systems for generating and providing program guides and content  
(62) 2021203490

(71) Polaris Pharmaceuticals, Inc.  
(21) 2023201312 (22) 02.03.2023  
(54) METHODS OF TREATING CANCERS

(71) Poly Gain Pte Ltd  
(21) 2023201457 (22) 08.03.2023  
(54) Sugar cane extracts for use in animal feeds  
(62) 2019264860

(71) PT Blink Limited  
(21) 2023201291 (22) 02.03.2023  
(54) A method of constructing a modular building, a tray-like modular building component, and related method, and a modular building column assembly  
(62) 2021202499

(71) Pure Vista Ltd  
(21) 2023201309 (22) 02.03.2023  
(54) SYSTEM AND METHOD OF RELEASABLY SECURING A WEDGE IN A GAP  
(31) 2204973.8 (32) 05.04.22 (33) GB

Complete Applications Filed - Name Index cont'd

(71) Pure Vista Ltd  
 (21) 2023201349 (22) 03.03.2023  
 (54) PANEL SUPPORT FIXING SYSTEM  
 AND METHOD  
 (31) 2204973.8 (32) 05.04.22 (33) GB

(71) Quintessence Labs Pty Ltd.  
 (21) 2023201474 (22) 09.03.2023  
 (54) Differential quantum noise source  
 (31) 18/117,994 (32) 06.03.23 (33) US  
 63/318,324 09.03.22 US

(71) RAI Strategic Holdings, Inc.  
 (21) 2023201297 (22) 02.03.2023  
 (54) Pressure sensing for an aerosol deliv-  
 ery device  
 (62) 2017360823

(71) Red Bull GmbH  
 (21) 2023201503 (22) 10.03.2023  
 (54) Sweetening compositions  
 (62) 2017385786

(71) Regeneron Pharmaceuticals, Inc.  
 (21) 2023201372 (22) 06.03.2023  
 (54) RODENTS HAVING AN ENGINEERED  
 HEAVY CHAIN DIVERSITY REGION  
 (62) 2017206785

(71) Reliance Worldwide Corporation (Aust.)  
 Pty. Ltd.  
 (21) 2023201575 (22) 14.03.2023  
 (54) Pipe connection fitting  
 (62) 2022200128

(71) Rinnai Corporation  
 (21) 2023201529 (22) 13.03.2023  
 (54) Water heating device  
 (31) 2022-062180 (32) 01.04.22 (33) JP

(71) RMH Tech LLC  
 (21) 2023201366 (22) 06.03.2023  
 (54) TRAPEZOIDAL RIB MOUNTING  
 BRACKET WITH FLEXIBLE LEGS  
 (62) 2020256427

(71) Rolapal Limited  
 (21) 2023201472 (22) 09.03.2023  
 (54) A Wheelchair

(71) Sabic Global Technologies B.V.  
 (21) 2023201526 (22) 12.03.2023  
 (54) Enhanced efficiency fertilizer with ur-  
 ease inhibitor and nitrification inhibitor  
 separated within the same particle  
 (62) 2018255907

(71) Samsung Electronics Co., Ltd.  
 (21) 2023201543 (22) 13.03.2023

(54) Method and apparatus for controlling  
 uplink transmission power in wireless  
 communication system  
 (62) 2019205733

(71) SAMYANG CORPORATION  
 (21) 2023201795 (22) 22.03.2023  
 (54) FUNCTIONAL CRYSTALLINE  
 SWEETENER  
 (62) PCT/KR2018/001830

(71) Sarudbhava Formulations Private Lim-  
 ited  
 (21) 2023201406 (22) 07.03.2023  
 (54) Apremilast pharmaceutical composi-  
 tions  
 (62) 2016400405

(71) Schneider Electric Systems USA, Inc.  
 (21) 2023201388 (22) 07.03.2023  
 (54) LOCATION-BASED LICENSING AND  
 CONFIGURATION  
 (31) 17/830,495 (32) 02.06.22 (33) US

(71) Seagen, Inc.  
 (21) 2023201373 (22) 06.03.2023  
 (54) Hydrophilic antibody-drug conjugates  
 (62) 2020239744

(71) Seapa IP Pty Ltd  
 (21) 2023201524 (22) 10.03.2023  
 (54) Aquaculture Basket Assembly

(71) Sense Biodetection Limited  
 (21) 2023201422 (22) 07.03.2023  
 (54) NUCLEIC ACID DETECTION METHOD  
 (62) 2019311340

Shaaban, A.F. see Thandra, V.  
 (21) 2023201440

(71) Shanghai Linghuo Trading Co., Ltd.  
 (21) 2023201560 (22) 14.03.2023  
 (54) AN ADJUSTABLE FRONT AXLE AND  
 A VEHICLE HAVING SAME  
 (31) 202223241482.9 (32) 02.12.22 (33) CN  
 CN202223243015.X 02.12.22 CN  
 CN202223241559.2 02.12.22 CN  
 CN202223243012.6 02.12.22 CN  
 (62) 2023200334

(71) Shanghai Linghuo Trading Co., Ltd.  
 (21) 2023201562 (22) 14.03.2023  
 (54) AN ADJUSTABLE FRONT AXLE AND  
 A VEHICLE HAVING SAME  
 (31) 202223241482.9 (32) 02.12.22 (33) CN  
 CN202223243015.X 02.12.22 CN  
 CN202223241559.2 02.12.22 CN  
 CN202223243012.6 02.12.22 CN  
 (62) 2023200334

(71) Shanghai Linghuo Trading Co., Ltd.  
 (21) 2023201563 (22) 14.03.2023  
 (54) AN ADJUSTABLE FRONT AXLE AND  
 A VEHICLE HAVING SAME  
 (31) 202223241482.9 (32) 02.12.22 (33) CN  
 CN202223243015.X 02.12.22 CN  
 CN202223241559.2 02.12.22 CN  
 CN202223243012.6 02.12.22 CN  
 (62) 2023200334

(71) Shanghai Linghuo Trading Co., Ltd.  
 (21) 2023201565 (22) 14.03.2023  
 (54) AN ADJUSTABLE FRONT AXLE AND  
 A VEHICLE HAVING SAME  
 (31) 202223241482.9 (32) 02.12.22 (33) CN  
 CN202223243015.X 02.12.22 CN  
 CN202223241559.2 02.12.22 CN  
 CN202223243012.6 02.12.22 CN  
 (62) 2023200334

(71) Sharp Kabushiki Kaisha  
 (21) 2023201325 (22) 03.03.2023  
 (54) Terminal apparatus, method, and integ-  
 rated circuit  
 (31) 2022-175775 (32) 01.11.22 (33) JP

(71) Sharp Kabushiki Kaisha  
 (21) 2023201328 (22) 03.03.2023  
 (54) Terminal apparatus and method  
 (31) 2022-175774 (32) 01.11.22 (33) JP

(71) Sharp Kabushiki Kaisha  
 (21) 2023201329 (22) 03.03.2023  
 (54) Terminal apparatus and method  
 (31) 2022-175773 (32) 01.11.22 (33) JP

(71) Sharp Kabushiki Kaisha  
 (21) 2023201393 (22) 07.03.2023  
 (54) Terminal apparatus, base station appar-  
 atus, method, and integrated circuit  
 (31) 2022-209778 (32) 27.12.22 (33) JP

(71) Sharp Kabushiki Kaisha  
 (21) 2023201396 (22) 07.03.2023  
 (54) Terminal apparatus, method, and integ-  
 rated circuit  
 (31) 2022-156296 (32) 29.09.22 (33) JP

(71) Sharp Kabushiki Kaisha  
 (21) 2023201405 (22) 07.03.2023  
 (54) Terminal apparatus, and method  
 (31) 2022-156295 (32) 29.09.22 (33) JP

(71) Sharp Kabushiki Kaisha  
 (21) 2023201409 (22) 07.03.2023  
 (54) Terminal apparatus, method, and integ-  
 rated circuit  
 (31) 2022-156294 (32) 29.09.22 (33) JP

(71) Shire Human Genetic Therapies  
 (21) 2023201438 (22) 08.03.2023

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(54) Delivery of mRNA for the augmentation of proteins and enzymes in human genetic diseases  
(62) 2020202755

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(71) SIBA Fuses GmbH  
(21) 2023201559 (22) 14.03.2023  
(54) USE OF A HV HRC FUSE FOR A DROP-OUT FUSE SYSTEM  
(31) 10 2022 002 431.4 (32) 05.07.22 (33) DE

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(71) Silicate Studio Home, LLC  
(21) 2023201448 (22) 08.03.2023  
(54) Floating shelf bracket  
(31) 17/972,352 (32) 24.10.22 (33) US  
18/094,717 09.01.23 US

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(71) Silicon Quantum Computing Pty Limited  
(21) 2023201302 (22) 02.03.2023  
(54) Methods for qubit readout  
(31) 2022900513 (32) 03.03.22 (33) AU

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(71) Snap-on Incorporated  
(21) 2023201362 (22) 06.03.2023  
(54) System and method for measuring torque and angle  
(62) 2021201994

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(71) Snap-on Incorporated  
(21) 2023201577 (22) 14.03.2023  
(54) ADJUSTABLE PLIERS  
(62) 2021201297

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(71) Snap-on Incorporated  
(21) 2023201581 (22) 14.03.2023  
(54) QUICK CHANGE INDEXABLE RATCHET HEAD  
(62) 2021202197

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(71) Société des Produits Nestlé S.A.  
(21) 2023201538 (22) 13.03.2023  
(54) Methods and compositions using Bifidobacterium longum to treat or prevent depressive symptoms  
(62) 2016315266

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(71) Société des Produits Nestlé S.A.  
(21) 2023201539 (22) 13.03.2023  
(54) Methods and compositions using Bifidobacterium longum to modulate emotional reactivity and treat or prevent sub-clinical mood disturbances  
(62) 2016315268

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(71) SOLTEC AMERICA, LLC  
(21) 2023201322 (22) 03.03.2023  
(54) SOLAR TRACKER HAVING A BIDI-RECTIONAL LIMIT SWITCH DEVICE  
(62) 2018202686

(71) Sony Corporation  
(21) 2023201334 (22) 03.03.2023  
(54) Information processing apparatus and information processing method  
(62) 2020289874

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(71) Splunk Inc.  
(21) 2023201395 (22) 07.03.2023  
(54) DATA STREAM PROCESSING LANGUAGE FOR ANALYZING INSTRUMENTED SOFTWARE  
(62) 2021201512

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(71) Sungbo Industrial Co., Ltd.  
(21) 2023201458 (22) 08.03.2023  
(54) Combined structure  
(62) 2021215097

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(71) Syngenta Participations AG  
(21) 2023201444 (22) 08.03.2023  
(54) Pesticidally active thiophene derivatives  
(62) 2018315414

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(71) Synthorx, Inc.  
(21) 2023201482 (22) 09.03.2023  
(54) Cytokine conjugates for the treatment of autoimmune diseases  
(62) 2018309172

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(71) Tape-Pro Drywall Tools Pty Limited  
(21) 2023201400 (22) 07.03.2023  
(54) AN IMPROVED ROLLER FOR USE IN PLASTERBOARD FINISHING  
(31) 2022900784 (32) 28.03.22 (33) AU

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(71) Targus International LLC  
(21) 2023201331 (22) 03.03.2023  
(54) USB-C to barrel power adapters  
(31) 17/658,405 (32) 07.04.22 (33) US

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(71) Techtronic Cordless GP  
(21) 2023201376 (22) 06.03.2023  
(54) Robotic garden tool with quick change mechanism  
(31) 63/316,866 (32) 04.03.22 (33) US  
63/316,870 04.03.22 US

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(71) Techtronic Cordless GP  
(21) 2023201470 (22) 09.03.2023  
(54) Smart scheduling of operation of a robotic garden tool  
(31) 63/320,641 (32) 16.03.22 (33) US

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(71) Techtronic Cordless GP  
(21) 2023201513 (22) 10.03.2023  
(54) Controlling movement of a robotic garden tool for docking purposes  
(31) 63/320,637 (32) 16.03.22 (33) US

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(71) Techtronic Cordless GP  
(21) 2023201515 (22) 10.03.2023

(54) Lawnmowers and associated features  
(31) 63/319,964 (32) 15.03.22 (33) US

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(71) Techtronic Cordless GP  
(21) 2023201516 (22) 10.03.2023  
(54) Robotic garden tool with implement height adjustment  
(31) 63/320,599 (32) 16.03.22 (33) US  
63/321,536 18.03.22 US

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(71) Techtronic Cordless GP  
(21) 2023201568 (22) 14.03.2023  
(54) Blower vacuum  
(31) 63/319,462 (32) 14.03.22 (33) US  
63/319,466 14.03.22 US

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(71) Techtronic Cordless GP  
(21) 2023201574 (22) 14.03.2023  
(54) Power tool and accessory mount device  
(31) 63/321,162 (32) 18.03.22 (33) US  
17/983,871 09.11.22 US

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(71) Tencent America LLC  
(21) 2023201375 (22) 06.03.2023  
(54) SIGNALING OF ADAPTIVE PICTURE SIZE IN VIDEO BITSTREAM  
(62) 2020234957

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(71) Tencent America LLC  
(21) 2023201381 (22) 06.03.2023  
(54) Signaling for Reference Picture Resampling  
(62) 2020301123

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(71) Tencent America LLC  
(21) 2023201466 (22) 08.03.2023  
(54) SIGNALING OF SCALABILITY PARAMETERS IN VIDEO BITSTREAM  
(62) 2020348402

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(71) Textilforschungsinstitut Thüringen-Vogtland e.V.; Arntz Beteiligungs GmbH & Co. KG  
(21) 2023201488 (22) 09.03.2023  
(54) Drive belt  
(31) 10 2022 105 552.3 (32) 09.03.22 (33) DE

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(71) TGS-NOPEC Geophysical Company  
(21) 2023201435 (22) 08.03.2023  
(54) Dynamic gain adjustments in seismic surveys  
(62) 2017224136

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(71) Thandra, V.; Shaaban, A.F.  
(21) 2023201440 (22) 08.03.2023  
(54) FLAT FEE AND INTERIM BILLS FOR PROFESSIONAL SERVICES FIRM  
(62) 2021200945

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(71) The Administrators of the Tulane Educational Fund  
 (21) 2023201439 (22) 08.03.2023  
 (54) Concentrated solar photovoltaic and photothermal system  
 (62) 2018224292

**The Bizser Co., Ltd. see Winstar Development Group**  
 (21) 2023201456

(71) The Cleveland Clinic Foundation  
 (21) 2023201540 (22) 13.03.2023  
 (54) CONFIGURING A DEEP BRAIN STIMULATION (DBS) SYSTEM TO TREAT A NEUROLOGICAL DISORDER  
 (62) 2021210896

(71) The Raymond Corporation  
 (21) 2023201310 (22) 02.03.2023  
 (54) Systems and Methods for Charging a Material Handling Vehicle  
 (31) 63/316,346 (32) 03.03.22 (33) US  
 63/316,352 03.03.22 US

(71) The Trustees of Dartmouth College  
 (21) 2023201459 (22) 08.03.2023  
 (54) ELECTRICAL IMPEDANCE SENSING DENTAL DRILL SYSTEM CONFIGURED TO DETECT CANCELLOUS-CORTICAL BONE AND BONE-SOFT TISSUE BOUNDARIES  
 (62) 2018231030

**THE UNIVERSITY OF TOKYO see Kabushiki Kaisha Toshiba**  
 (21) 2023201532

(71) Ticketmaster  
 (21) 2023201296 (22) 02.03.2023  
 (54) Apparatus and methods for providing queue messaging over a network  
 (62) 2021201564

**Toshiba Energy Systems & Solutions Corporation see Kabushiki Kaisha Toshiba**  
 (21) 2023201390

(71) Toyota Jidosha Kabushiki Kaisha; Komatsu Ltd.  
 (21) 2023201471 (22) 09.03.2023  
 (54) Operation management system  
 (31) 2022-044016 (32) 18.03.22 (33) JP

(71) Transportation IP Holdings, LLC  
 (21) 2023201427 (22) 08.03.2023  
 (54) ELECTRONICS SHELVING ASSEMBLY AND METHOD  
 (31) 63/331,913 (32) 18.04.22 (33) US  
 17/882,729 08.08.22 US

(71) Trisco ICAP Pty Ltd  
 (21) 2023201541 (22) 13.03.2023  
 (54) An ingredient  
 (62) 2019227840

(71) Tri Underground Australia Pty Ltd  
 (21) 2023201316 (22) 03.03.2023  
 (54) Lockable Inspection Covers  
 (31) 2022901125 (32) 29.04.22 (33) AU

(71) Trolex Limited  
 (21) 2023201469 (22) 09.03.2023  
 (54) Crystalline Particle Detection  
 (31) 2206267.3 (32) 29.04.22 (33) GB

(71) Trudeau, L.  
 (21) 2023201332 (22) 03.03.2023  
 (54) Portable foam brush  
 (62) 2017302593

(71) Trudeau, L.  
 (21) 2023201368 (22) 06.03.2023  
 (54) Portable foam brush  
 (62) 2017302593

(71) True Manufacturing Co., Inc.  
 (21) 2023201333 (22) 03.03.2023  
 (54) Systems and methods for monitoring refrigeration appliances  
 (31) 17/686,986 (32) 04.03.22 (33) US

(71) True Manufacturing Co., Inc.  
 (21) 2023201436 (22) 08.03.2023  
 (54) Ice maker and system and method for monitoring water filter of the ice maker  
 (31) 18/170,182 (32) 16.02.23 (33) US  
 63/318,580 10.03.22 US

(71) Ulab Systems, Inc.  
 (21) 2023201418 (22) 07.03.2023  
 (54) Orthodontic planning systems  
 (62) 2017382624

(71) University of Florida Research Foundation, Incorporated  
 (21) 2023201531 (22) 13.03.2023  
 (54) IL-1Ra cDNAs  
 (62) 2017371043

(71) Vericool, Inc.  
 (21) 2023201413 (22) 07.03.2023  
 (54) SHIPPING CONTAINER WITH COMPOSTABLE INSULATION  
 (62) 2017240890

(71) Vertex Pharmaceuticals Incorporated  
 (21) 2023201404 (22) 07.03.2023  
 (54) MODULATORS OF CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR  
 (62) 2020220185

(71) View, Inc.  
 (21) 2023201415 (22) 07.03.2023  
 (54) Controller for optically-switchable windows  
 (62) 2020273368

(71) View, Inc.  
 (21) 2023201421 (22) 07.03.2023  
 (54) Thin-film devices and fabrication  
 (62) 2020250303

(71) Visa International Service Association  
 (21) 2023201327 (22) 03.03.2023  
 (54) TECHNIQUES FOR SECURE CHANNEL COMMUNICATIONS  
 (62) 2019234482

(71) Vitae Pharmaceuticals, LLC  
 (21) 2023201387 (22) 07.03.2023  
 (54) Inhibitors of ROR gamma  
 (62) 2018307928

(71) Vorwerk & Co. Interholding GmbH  
 (21) 2023201352 (22) 03.03.2023  
 (54) KITCHEN APPLIANCE, ACCESSORY FOR A KITCHEN APPLIANCE, SYSTEM AND METHOD FOR OPERATING A KITCHEN APPLIANCE  
 (31) 22160523.1 (32) 07.03.22 (33) EP

(71) Vorwerk & Co. Interholding GmbH  
 (21) 2023201353 (22) 03.03.2023  
 (54) KITCHEN APPLIANCE SYSTEM AND METHOD OF OPERATING A KITCHEN APPLIANCE SYSTEM  
 (31) 22160526.4 (32) 07.03.22 (33) EP

(71) Vorwerk & Co. Interholding GmbH  
 (21) 2023201354 (22) 03.03.2023  
 (54) KITCHEN APPLIANCE SYSTEM, METHOD OF CONTROLLING A KITCHEN APPLIANCE SYSTEM AND CONTROL FOR A KITCHEN APPLIANCE SYSTEM  
 (31) 22160527.2 (32) 07.03.22 (33) EP

(71) Vorwerk & Co. Interholding GmbH  
 (21) 2023201355 (22) 03.03.2023  
 (54) KITCHEN APPLIANCE SYSTEM AND METHOD OF AUTOMATIC TARING FOR A KITCHEN APPLIANCE SYSTEM  
 (31) 22160529.8 (32) 07.03.22 (33) EP

(71) W.L. Gore & Associates, Inc.  
 (21) 2023201443 (22) 08.03.2023  
 (54) Prosthetic valve with improved washout  
 (62) 2021201696



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- (71) Wallis, R.  
 (21) 2023201447 (22) 08.03.2023  
 (54) Portable standpipe  
 (62) 2021338581
- 
- (71) WEVER CO., LTD.  
 (21) 2023201528 (22) 13.03.2023  
 (54) MUTUAL ENGAGEMENT STRUCTURE FOR A PET LEASH
- 
- (71) Wiley, W.  
 (21) 2023201356 (22) 03.03.2023  
 (54) Application to determine reading/working distance  
 (62) 2018298089
- 
- (71) Willand (Beijing) Technology Co., LTD.  
 (21) 2023201490 (22) 09.03.2023  
 (54) CHARGING STATION, CHARGING STATION SYSTEM, METHOD AND APPARATUS FOR RETURNING TO STATION AND LAWNMOWING ROBOT  
 (31) 202210234711.X (32) 09.03.22 (33) CN  
 202310202289.4 02.03.23 CN  
 202320416766.2 02.03.23 CN
- 
- (71) Winstar Development Group; The Bizser Co., Ltd.; Miyazato, Y.  
 (21) 2023201456 (22) 08.03.2023  
 (54) Steam generation apparatus  
 (62) 2019469120
- 
- (71) Zhejiang Aiko Solar Energy Technology Co., Ltd.  
 (21) 2023201357 (22) 03.03.2023  
 (54) METHOD FOR MANUFACTURING SOLAR CELL, SOLAR MODULE, AND POWER GENERATION SYSTEM  
 (31) 202210239657.8 (32) 11.03.22 (33) CN
- 
- (71) Zhejiang Orient Gene Biotech Co., Ltd  
 (21) 2023201301 (22) 02.03.2023  
 (54) TEST DEVICE FOR ANALYTE IN A FLUID SAMPLE  
 (31) 2022105647065 (32) 23.05.22 (33) CN  
 2022106085309 31.05.22 CN  
 63/352,036 14.06.22 US  
 2208268.9 06.06.22 GB
- 
- (71) ZINUS INC.  
 (21) 2023201483 (22) 09.03.2023  
 (54) CONNECTOR, CONNECTOR ASSEMBLY FOR SOFA ASSEMBLY, AND SOFA ASSEMBLY  
 (62) PCT/CN2021/107501

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<b>2023201289</b>	National University Corporation Kochi University	<b>2023201361</b>	Adobe Inc.
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<b>2023201295</b>	Ali Lahib, M.	<b>2023201363</b>	Joy Global Surface Mining Inc
<b>2023201296</b>	Ticketmaster	<b>2023201364</b>	Coulisse B.V.
<b>2023201297</b>	RAI Strategic Holdings, Inc.	<b>2023201365</b>	FNV IP B.V.
<b>2023201298</b>	Jaram Products Pty Ltd	<b>2023201366</b>	RMH Tech LLC
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<b>2023201321</b>	Deere & Company	<b>2023201391</b>	Assa Abloy AB
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<b>2023201334</b>	Sony Corporation	<b>2023201404</b>	Vertex Pharmaceuticals Incorporated
<b>2023201335</b>	Fisher & Paykel Healthcare Limited	<b>2023201405</b>	Sharp Kabushiki Kaisha
<b>2023201336</b>	Panasonic Intellectual Property Corporation of America	<b>2023201406</b>	Sarudbhava Formulations Private Limited
<b>2023201337</b>	Getac Technology Corporation	<b>2023201408</b>	CarryGenes Bioengineering
<b>2023201338</b>	Greyrock Technology, LLC	<b>2023201409</b>	Sharp Kabushiki Kaisha
<b>2023201339</b>	ImmunoGen, Inc.	<b>2023201410</b>	Getac Technology Corporation
<b>2023201340</b>	Getac Technology Corporation	<b>2023201411</b>	LG Electronics Inc.
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<b>2023201344</b>	Nicoventures Trading Limited	<b>2023201415</b>	View, Inc.
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<b>2023201351</b>	Getac Technology Corporation	<b>2023201422</b>	Sense Biodetection Limited
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<b>2023201354</b>	Vorwerk & Co. Interholding GmbH	<b>2023201425</b>	Bayley, J.
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2023201432	Beijing Tusen Zhitu Technology Co., Ltd.	2023201499	Beijing Roborock Technology Co., Ltd.
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2023201449	CloudBlue LLC	2023201517	Pluto Inc.
2023201450	Getac Technology Corporation	2023201518	L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude
2023201451	Niagara Bottling, LLC; Hanan, J.; Bandla, S.	2023201519	DEKA Products Limited Partnership
2023201452	Angel Group Co., Ltd.	2023201520	ConMed Corporation
2023201453	Apple Inc.	2023201521	Deka Products Limited Partnership
2023201454	Block, Inc.	2023201522	Galapagos NV
2023201455	Eagle View Technologies, Inc.	2023201523	Andersen, J.
2023201456	Winstar Development Group; The Bizser Co., Ltd.; Miyazato, Y.	2023201524	Seapa IP Pty Ltd
2023201457	Poly Gain Pte Ltd	2023201525	Adobe Inc.
2023201458	Sungbo Industrial Co., Ltd.	2023201526	Sabic Global Technologies B.V.
2023201459	The Trustees of Dartmouth College	2023201527	LG Electronics Inc.
2023201460	Angel Group Co., Ltd.	2023201528	WEVER CO., LTD.
2023201461	C2CNT LLC	2023201529	Rinnai Corporation
2023201463	Bionomics Limited	2023201530	CCTEG CHINA COAL RESEARCH INSTITUTE
2023201464	Implantica Patent Ltd	2023201531	University of Florida Research Foundation, Incorporated
2023201465	BioHerbicides Australia Pty Ltd	2023201532	Kabushiki Kaisha Toshiba; THE UNIVERSITY OF TOKYO
2023201466	Tencent America LLC	2023201533	Canva Pty Ltd
2023201467	Eutech Cybernetic Pte Ltd	2023201534	Johnson & Johnson Consumer Inc.
2023201468	LIEN, C.	2023201535	Adobe Inc.
2023201469	Troxel Limited	2023201536	Canon Kabushiki Kaisha
2023201470	Techtronic Cordless GP	2023201537	Canva Pty Ltd
2023201471	Toyota Jidosha Kabushiki Kaisha; Komatsu Ltd.	2023201538	Société des Produits Nestlé S.A.
2023201472	Rolapal Limited	2023201539	Société des Produits Nestlé S.A.
2023201473	Eli Lilly and Company	2023201540	The Cleveland Clinic Foundation
2023201474	Quintessence Labs Pty Ltd.	2023201541	Trisco ICAP Pty Ltd
2023201475	Freeport-McMoran Inc.	2023201542	Muggleton, K.
2023201476	Commonwealth Scientific and Industrial Research Organisation	2023201543	Samsung Electronics Co., Ltd.
2023201477	J. Ray McDermott, S.A.	2023201544	New-Tec Integration (Xiamen) Co., Ltd.
2023201478	ECHOSENS,	2023201545	Loehnert, T.
2023201479	Adrenomed AG	2023201546	Phantasm Limited
2023201480	CATERPILLAR INC.	2023201547	BGI Shenzhen; MGI Tech Co., Ltd.
2023201481	CATERPILLAR INC.	2023201549	Pipe Ex Pty Ltd
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2023201485	CCTEG Shenyang Research Institute; CCTEG Tiandi Science & Technology Co., Ltd.	2023201554	NuVasive, Inc.
2023201486	Huang, T.	2023201555	NuVasive, Inc.
2023201487	LESHER, G.	2023201556	Nien Made Enterprise Co., Ltd.
2023201488	Textilforschungsinstitut Thüringen-Vogtland e.V.; Arntz Beteiligungs GmbH & Co. KG	2023201557	MAX CO., LTD.
2023201489	Miles, S.	2023201559	SIBA Fuses GmbH
2023201490	Willand (Beijing) Technology Co., LTD.	2023201560	Shanghai Linghuo Trading Co., Ltd.
2023201491	Golden Solar (Quanzhou) New Energy Technology Co., Ltd.	2023201561	J. Ray McDermott, S.A.
2023201492	Golden Solar (Quanzhou) New Energy Technology Co., Ltd.	2023201562	Shanghai Linghuo Trading Co., Ltd.
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		2023201567	CFPH, LLC
		2023201568	Techtronic Cordless GP

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2023201569 Beijing Tusen Zhitu Technology Co., Ltd.  
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2023201571 Getac Technology Corporation  
2023201572 Esculon, LLC  
2023201573 Getac Technology Corporation  
2023201574 Techtronic Cordless GP  
2023201575 Reliance Worldwide Corporation (Aust.) Pty. Ltd.  
2023201576 Accenture Global Solutions Limited  
2023201577 Snap-on Incorporated  
2023201578 Britax Child Safety, Inc.  
2023201581 Snap-on Incorporated  
2023201795 SAMYANG CORPORATION  
2023201854 LG Electronics Inc.

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

Applications listed below were processed through the Patent Office Canberra during the period ending 21 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)** AQUIRIAN TECHNOLOGY PTY LTD  
**(21)** 2023100029      **(22)** 27.03.2023  
**(54)** A METHOD AND APPARATUS FOR  
PREVENTING ROCK FRAGMENTS  
FROM ENTERING OR COLLAPSING  
INTO A BLAST HOLE  
**(62)** 2018303336

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**(71)** Endersby, M.  
**(21)** 2023100028      **(22)** 22.03.2023  
**(54)** Downpipe vertical garden  
**(62)** 2017204112

**Numerical Index**

**2023100028** Endersby, M.

**2023100029** AQUIRIAN TECHNOLOGY PTY LTD

**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
- 15 Patent Ceased Section 143(b)
- 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
  
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**2003**

2003201012 ( 14 )	2003201290 ( 14 )	2003201300 ( 14 )
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**2019**

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 2022900739 ( 12AN )

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 2023900018 ( 7AN )    2023900620 ( 12AN )    2023900819 ( 12AN )



**Assignments before Grant, Section 113**

**2017**

2017228764 Dius Computing Pty Ltd The application has been assigned to **Powersensor Pty Ltd**

2017345707 Emrge, LLC. The application has been assigned to **Brijjit Medical, Inc.**

**2018**

2018219278 Locus Oil IP Company, LLC The application has been assigned to **LOCUS SOLUTIONS IPCO, LLC**

2018251675 Locus Oil IP Company, LLC The application has been assigned to **LOCUS SOLUTIONS IPCO, LLC**

2018279153 Rhodia Operations The application has been assigned to **Energy Solutions (US) LLC**

2018450480 Peng, Xianfeng The application has been assigned to **WISORIG TECHNOLOGIES PTE. LIMITED**

**2019**

2019230471 Afiliat Limited; Abley, Joseph The application has been assigned to **Identity Digital Limited**

2019372111 Rhodia Operations The application has been assigned to **Energy Solutions (US) LLC**

2019441037 Fifth Arm Surgical, LLC The application has been assigned to **Platform Innovations Inc.**

**2020**

2020361496 Emrge, LLC. The application has been assigned to **Brijjit Medical, Inc.**

**2021**

2021201040 EMRGE, LLC. The application has been assigned to **Brijjit Medical, Inc.**

2021205633 Parlanca Limited The application has been assigned to **IdentiGEN Limited**

2021219668 Jounce Therapeutics, Inc. The application has been assigned to **Gilead Sciences, Inc.**

2021254807 Evonik Canada Inc. The application has been assigned to **Evonik Operations GmbH**

2021277732 Xinjiang Institute of Engineering; China University of Mining and Technology The application has been assigned to **Henan Energy and Chemical Industry Group Co.,Ltd.; Yanshan University; China University of Mining and Technology; Xinjiang Institute of Engineering**

**2022**

2022202380 PAGE, Mark; BROTCHE, Peter The application has been assigned to **Next Generation AI Pty Ltd**

**Assignments before Grant, Section 113**

202290701 BASHER, MOURAD; HANNA, RANI The application has been assigned to **GOBALL TECHNOLOGY PTY LTD**

2022901457 Brownfield Engineering and Maintenance Pty Ltd The application has been assigned to **JSIS Engineering Pty Ltd**

2022901984 larkin, bryan The application has been assigned to **Singh, Sukhwinder; larkin, bryan**

2022902278 Sousa Tenorio, Rosangela The application has been assigned to **Mycboo Pty Ltd**

2022903543 larkin, bryan The application has been assigned to **Singh, Sukhwinder; larkin, bryan**

2022903545 larkin, bryan The application has been assigned to **Singh, Sukhwinder; larkin, bryan**

2022903547 larkin, bryan The application has been assigned to **Singh, Sukhwinder; larkin, bryan**

2022903618 Separtis Technologies Global Pte Ltd The application has been assigned to **ECOX GLOBAL PTE LTD**

**2023**

2023900322 larkin, bryan The application has been assigned to **Singh, Sukhwinder; larkin, bryan**

2023900575 larkin, bryan The application has been assigned to **Singh, Sukhwinder; larkin, bryan**

**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.

**2008**

2008249772 **Richter Gedeon Nyrt.** An application to extend the time from 18 May 2021 to 18 Jan 2023 in which to extend the term of the patent has been filed . Address for service - Phillips Ormonde Fitzpatrick L 16 333 Collins St Melbourne VIC 3000 AU

**2013**

2013211850 **The Board of Trustees of the Leland Stanford Junior University** An application to extend the time from 28 Jan 2022 to 28 Jan 2023 in which to pay a renewal fee has been filed . Address for service - Eagar & Associates Pty Ltd Level 2 35-39 Scarborough Street Southport QLD 4215 AU

**2014**

2014200954 **BIOASSETS, LLC** An application to extend the time from 28 Sep 2021 to 28 Dec 2022 in which to pay the renewal fee has been filed . Address for service - Griffith Hack Level 15, 376-390 Collins Street Melbourne VIC 3000 AU

**Extensions of Time, Section 223**

**2018**

2018302016 **Voyager Therapeutics, Inc.; The Regents of the University of California** An application to extend the time from 17 Jul 2022 to 17 Feb 2023 in which to pay a continuation fee has been filed . Address for service - Griffith Hack Level 10 161 Collins St MELBOURNE VIC 3000 AU

2018319444 **Wix.com Ltd** An application to extend the time from 24 Jul 2022 to 24 Feb 2023 in which to pay a continuation fee has been filed . Address for service - Spruson & Ferguson GPO Box 3898 Sydney NSW 2001 AU

**2020**

2020337732 **ECOLIBRIUM BIOLOGICALS HOLDINGS LIMITED** An application to extend the time from 23 Mar 2022 to 23 Mar 2023 in which to enter the National Phase has been filed . Address for service - AJ PARK GPO Box 2513 Sydney NSW 2001 AU

**2021**

2021225159 **Vericool, Inc.** An application to extend the time from 22 Jul 2022 to 22 Feb 2023 in which to pay a continuation fee has been filed . Address for service - Davies Collison Cave Pty Ltd Level 15 1 Nicholson Street MELBOURNE VIC 3000 AU

2021254647 **Nokia Technologies Oy** An application to extend the time from 02 Aug 2022 to 02 Mar 2023 in which to pay a continuation fee has been filed . Address for service - Spruson & Ferguson GPO Box 3898 Sydney NSW 2001 AU

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

**2017**

2017259160 **Qualcomm Incorporated** The time in which to pay a renewal fee has been extended to 28 Nov 2022 . Address for service - Madderns Pty Ltd GPO Box 2752 Adelaide SA 5001 AU

2017336930 **J.R. Simplot Company** The time in which to request examination and pay a continuation fee has been extended to 23 Dec 2022 . Address for service - Knightsbridge Patent Attorneys GPO Box 4691 Melbourne VIC 3001 AU

**2019**

2019232850 **Global Organics Energy** The time in which to pay the continuation fee has been extended to 01 Nov 2022 . Address for service - Phillips Ormonde Fitzpatrick PO Box 323 COLLINS STREET WEST VIC 8007 AU

2019442941 **MITSUBISHI ELECTRIC CORPORATION** The time in which to enter the National Phase has been extended to 25 Dec 2022 . Address for service - Griffith Hack Level 15 376-390 Collins St MELBOURNE VIC 3000 AU

**2021**

2021200261 **Eddy Current Limited Partnership** The time in which to pay the acceptance fee has been extended to 03 Apr 2023 . Address for service - Davies Collison Cave Pty Ltd 1 Nicholson Street Melbourne VIC 3000 AU

2021275403 **IGNOVA GMBH** The time in which to enter the National Phase has been extended to 18 Jan 2023 . Address for service - PHIL-

**Extensions of Time, Section 223**

LIPS ORMONDE FITZPATRICK PO Box 323 COLLINS STREET WEST VIC 8007 AU

2021321420 **GALVANIZE THERAPEUTICS, INC.** The time in which to enter the National Phase has been extended to 04 Apr 2023 . Address for service - Pizeys Patent and Trade Mark Attorneys Pty Ltd PO Box 291 WODEN ACT 2606 AU

**2023**

2023200188 **ColiPlant Ltd.** The time in which to make a further application for a divisional patent has been extended to 29 Jan 2023 . Address for service - Griffith Hack Level 15 376-390 Collins St MELBOURNE VIC 3000 AU

2023201462 **Borg Manufacturing Pty Limited** The time in which to make a further application for a divisional patent has been extended to 10 Mar 2023 . Address for service - Maxwells Patent & Trade Mark Attorneys Pty Ltd PO Box R1466 SYDNEY NSW 1225 AU

**Section 223(1) Allowances**

**2019**

2019344655 **Simpson Strong-Tie Company, Inc.** The time in which to gain acceptance has been extended to 24 Mar 2023

**2020**

2020257783 **MEDAL, Thomas; SELA, Gal** The time in which to enter the National Phase has been extended to 07 Mar 2023

**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**

2016293547 Device for detecting misfolded proteins and methods of use thereof **GestVision, Inc.** The nature of the amendment is as shown in the statement(s) filed 21 Mar 2023 . Address for service - Davies Collison Cave Pty Ltd Level 15 1 Nicholson Street MELBOURNE VIC 3000 AU

2016320551 Treatment of retinitis pigmentosa **Oxford University Innovation Limited** The nature of the amendment is as shown in the statement(s) filed 01 Mar 2023 . Address for service - FB Rice Pty Ltd Level 23 44 Market Street Sydney NSW 2000 AU

**2019**

2019204803 OPTIMIZATION OF ANTIBODIES THAT BIND LYMPHOCYTE ACTIVATION GENE-3 (LAG-3), AND USES THEREOF **BRIS-TOL-MYERS SQUIBB COMPANY** The nature of the amendment is

**Amendments**

as shown in the statement(s) filed 20 Mar 2023 . Address for service - AJ PARK GPO Box 2513 Sydney NSW 2001 AU

2019214298 Apparatuses for converting an object position of an audio object, audio stream provider, audio content production system, audio playback apparatus, methods and computer programs **Fraunhofer-Gesellschaft Zur Förderung Der Angewandten Forschung E.V.** The nature of the amendment is as shown in the statement(s) filed 10 Mar 2023 . Address for service - Griffith Hack Level 10 161 Collins St MELBOURNE VIC 3000 AU

**2020**

2020234921 Personal care compositions **Colgate-Palmolive Company** The nature of the amendment is as shown in the statement(s) filed 20 Mar 2023 . Address for service - Spruson & Ferguson GPO Box 3898 Sydney NSW 2001 AU

**2021**

2021107604 Tow bar assembly **AutoPacific Australia Pty Ltd** The nature of the amendment is as shown in the statement(s) filed 14 Mar 2023 . Address for service - Jones Tulloch PO BOX 181 Kew East VIC 3102 AU

2021201007 Oncogenic splice variant determination **illumina, Inc.** The nature of the amendment is as shown in the statement(s) filed 08 Feb 2023 . Address for service - FB Rice Pty Ltd Level 23, 44 Market Street Sydney NSW 2000 AU

2021271942 A hinge **BROLOCK PTY LTD** The nature of the amendment is as shown in the statement(s) filed 30 Dec 2022 . Address for service - Adams Pluck PO Box 905 HORNSBY NSW 2077 AU

**Amendments Made**

**2016**

2016320991 **Sumitomo Pharma Co., Ltd.; Healios K.K.** The nature of the amendment is as shown in the statement(s) filed 23 Dec 2022

**2017**

2017201652 **CSR Building Products Limited** The nature of the amendment is as shown in the statement(s) filed 04 Nov 2022

2017263558 **Amgen Inc.** The nature of the amendment is: Amend the name of the inventor to read Bantug, Anthony; Mismar, Wael; Tan, Kenneth; Abed, Tark; Marsh, Justin Allen; Bogdan, Mario; Comiso, Scott and Schryver, Brian

2017285331 **Sorbonne Université; Centre National de la Recherche Scientifique; Institut National de la Sante et de la Recherche Medicale (INSERM); Gensight Biologics** The nature of the amendment is as shown in the statement(s) filed 30 Nov 2022

2017325110 **St Vincent's Hospital Sydney Limited** The nature of the amendment is as shown in the statement(s) filed 03 Jan 2023

2017357857 **Galvion Ltd** The nature of the amendment is as shown in the statement filed 17 Mar 2023

**Amendments**

**2018**

2018206372 **Lemonex Inc.** The nature of the amendment is: Remove the name of co-inventor Min, Dal Hee

2018266531 **Qualcomm Incorporated** The nature of the amendment is as shown in the statement filed 07 Dec 2022

**2019**

2019331959 **China Mobile Communication Co., Ltd Research Institute; China Mobile Communications Group Co., Ltd.** The nature of the amendment is as shown in the statement(s) filed 29 Dec 2022

2019348095 **Great Wall Motor Company Limited** The nature of the amendment is: Application is to proceed under the number 2019101842

2019359878 **Tempus Labs** The nature of the amendment is: Amend the name of the inventor to read COLLEY, Shane; SIMPSON, Isaiah; REUTER, Brian; TELL, Robert; LEFKOFSKI, Hailey; LANE, Hunter; WHITE, Kevin; BEAUBIER, Nike; BUSH, Stephen; KHAN, Aly; LAU, Denise; SHAH, Kaanan and LEFKOFSKY, Eric

**2020**

2020202755 **Shire Human Genetic Therapies** The nature of the amendment is as shown in the statement(s) filed 23 Dec 2022

2020232982 **Seed Terminator Holdings Pty Ltd** The nature of the amendment is: Amend the name of the inventor to read BERRY, Nicholas Kane

2020339069 **Faiveley Transport Leipzig GmbH & Co. KG** The nature of the amendment is: Amend the invention title to read AIR-CONDITIONING SYSTEM FOR A VEHICLE

2020385248 **Changeover Technologies Limited** The nature of the amendment is: Add the name of co-inventor ARMSTRONG, William Paul

2020389092 **Turun Yliopisto** The nature of the amendment is: Amend the name of the inventor to read NORRDAL, Mari; NASKALI, Juhani; SETÄLÄ, Ilmo and SOMEROJA, Osmo

2020400770 **Evopoint Biosciences Co., Ltd.** The nature of the amendment is: Amend the invention title to read MONOBACTAM COMPOUND AND USE THEREOF

2020437705 **Mitsubishi Electric Corporation** The nature of the amendment is: Amend the invention title to read Rotor, motor, blower, air conditioner, and manufacturing method of rotor

2020467017 **Mitsubishi Electric Corporation** The nature of the amendment is: Amend the invention title to read Rotor, motor, blower, and air conditioner

2020469336 **Mitsubishi Electric Corporation** The nature of the amendment is: Amend the invention title to read Motor, compressor, refrigeration cycle apparatus, and manufacturing method of motor

**Amendments**

**2021**

2021203022 **Apple Inc.** The nature of the amendment is: Add the name of co-inventor VON HAGEN, Eliza

2021206809 **Arena Pharmaceuticals, Inc.** The nature of the amendment is: Amend the name of the inventor to read DO, Quy-en-Quyen; TRAN, Thuy-Anh; ULLMAN, Brett; BLACKBURN, Anthony C. and NAGURA, Maiko

2021208999 **In Ovo Holding B.V** The nature of the amendment is: Amend the name of the inventor to read STUTTERHEIM, Wil Marijn; VAN BOMMEL, Leonard; BRUINS, Wouter Sebastiaan; DIJKSTER-HUIS, Edwin; VAN DER WEL, Jarno and LEEMKER, Michiel

2021209000 **In Ovo Holding B.V.** The nature of the amendment is: Amend the name of the inventor to read STUTTERHEIM, Wil Marijn; VAN BOMMEL, Leonard; VAN DER WEL, Jarno; LEEMKER, Michiel and BRUINS, Wouter Sebastiaan

2021209385 **Covestro (Netherlands) B.V.** The nature of the amendment is as shown in the statement filed 15 Mar 2023

2021210599 **Covestro (Netherlands) B.V.** The nature of the amendment is as shown in the statement filed 15 Mar 2023

2021231896 **The Feinstein Institutes for Medical Research** The nature of the amendment is: Amend the invention title to read System and Method for Determining User Intention From Limb or Body Motion or Trajectory to Control Neuromuscular Stimulation or Prosthetic Device Operation

2021233158 **Fundació Institut de Recerca contra la Leucèmia Josep Carreras; Institució Catalana de Recerca i Estudis Avançats (ICREA); Universitat de Barcelona; Fundació Institut d'Investigació en Ciències de la Salut Germans Trias i Pujol (IGTP); OneChain Immunotherapeutics, S.L** The nature of the amendment is as shown in the statement filed 23 Mar 2023

2021309534 **Tomra Systems ASA** The nature of the amendment is as shown in the statement(s) filed 17 Feb 2023

2021316252 **Angel Group Co., Ltd.** The nature of the amendment is: Amend the invention title to read Casino system, casino item, and method of providing casino items

2021318695 **Angel Group Co., Ltd.** The nature of the amendment is: Amend the invention title to read Management system for casino items

2021321883 **China Mobile Communication Co., Ltd Research Institute; China Mobile Communications Group Co., Ltd.** The nature of the amendment is: Amend the invention title to read Information Communication, Receiving, Configuration, Sending Method, Resource Configuration Method and Device

2021325368 **Ocado Innovation Limited** The nature of the amendment is: Amend the name of a co-inventor to read Kirkby, Oliver

2021325368 **Ocado Innovation Limited** The nature of the amendment is: Add the name of co-inventor Wynn, Leslie

**Amendments**

2021325684 **Ecolectro, Inc.** The nature of the amendment is: Amend the name of the inventor to read HUGAR, Kristina; RODRIGUEZ-CALERO and NATHAN, Sarah

2021335605 **Brainspace, Inc.** The nature of the amendment is: Amend the name of the inventor to read MORSE, Stephen A. and MORSE, Caitlin D.C.

2021338321 **Huawei Technologies Co., Ltd.** The nature of the amendment is: Amend the invention title to read MULTI-FLOW ASSOCIATED TRANSMISSION METHOD, APPARATUS, AND SYSTEM

2021341221 **CJ CHEILJEDANG CORPORATION** The nature of the amendment is: Amend the invention title to read A recombinant microorganism for producing L-glutamic acid and a method for producing L-glutamic acid using the same

2021341444 **Amazonen-Werke H. Dreyer SE & Co. KG** The nature of the amendment is: Remove co-applicant Robert Bosch GmbH

2021342943 **Kabushiki Kaisha Toshiba; Toshiba Infrastructure Systems & Solutions Corporation** The nature of the amendment is: Amend the invention title to read Information processing apparatus and system

2021343023 **CANON KABUSHIKI KAISHA** The nature of the amendment is: Amend the invention title to read Cartridge and image forming apparatus

2021343666 **Kabushiki Kaisha Toshiba; Toshiba Infrastructure Systems & Solutions Corporation** The nature of the amendment is: Amend the invention title to read Information processing apparatus, information processing method, and program

2021404523 **Huawei Technologies Co., Ltd.** The nature of the amendment is: Amend the invention title to read PROTOCOL DATA UNIT PDU TRANSMISSION METHOD AND APPARATUS

**2022**

2022201170 **E-Chem Technologies Ltd** The nature of the amendment is: Amend the name of the inventor to read DAVISON, Nigel; ROBERTS, Adrian; GLASS, Gareth and GLASS, Matthew

2022211867 **PharmaEssentia Corporation** The nature of the amendment is: Amend the priority details to read 63/229,851 05 Aug 2021 US

2022229612 **LG Energy Solution, Ltd.** The nature of the amendment is: Amend the invention title to read Battery module with improved fire protection performance

2022291558 **White, R.** The nature of the amendment is: Amend divisional details to remove 2021209293

2022901531 **Miles, S.** The nature of the amendment is: Application is to proceed under number 2022344860

**2023**

2023200194 **Sharp Kabushiki Kaisha** The nature of the amendment is: Amend the priority details to read 17/956,736 29 Sep 2022 US

**Amendments**

2023200726 **MDM Enterprises, Inc.** The nature of the amendment is: Add priority details 18/165,511 07 Feb 2023 US

2023900771 **Cuvos Pty Ltd** The nature of the amendment is: Amend the invention title to read Event-Based Image Processing

**Alteration of Name(s) of Applicant(s)/Patentee(s)****2014**

2014345970 Plantpaper Holding ApS The name of the patentee has been altered to **Ellepot A/S**

**2017**

2017252252 L3HARRIS LATITUDE LLC The name of the patentee has been altered to **L3HARRIS UNMANNED SYSTEMS, INC.**

**2019**

2019345150 Forge Therapeutics, Inc The name of the applicant has been altered to **Blacksmith Medicines, Inc.**

**2020**

2020234686 Crescendo Bioscience, Inc.; UAB Research Foundation The name of the applicant has been altered to **Crescendo Bioscience, Inc.; The UAB Research Foundation**

2020416358 Xiamen University; Xiamen Innodx Biotech Co., Ltd The name of the applicant has been altered to **Beijing Wantai Biological Pharmacy Enterprise Co., Ltd.; Xiamen University; Xiamen Innodx Biotech Co., Ltd**

**2021**

2021252237 Bumblebee A.I Ltd. The name of the applicant has been altered to **BLOOMX Ltd.**

2021340625 Heracles Holdings, Inc. The name of the applicant has been altered to **Aven Financial, Inc.**

**2023**

2023200268 Cellular Biomedicine Group HK Limited The name of the applicant has been altered to **Cellular Biomedicine Group, Inc.**

Applications Open to Public Inspection

Name Index

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

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**AbbVie Inc. see Calico Life Sciences LLC**  
**(21)** 2023201399

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**(71)** Ab Initio Technology LLC  
**(11)** AU-A-2023201414  
**(21)** 2023201414 **(22)** 07.03.2023  
**(54)** SYSTEMS AND METHODS FOR PERFORMING DATA PROCESSING OPERATIONS USING VARIABLE LEVEL PARALLELISM  
**(51)** Int. Cl.  
*G06F 9/50* ( 2006.01 )  
**(43)** 06.04.2023  
**(62)** 2018243278  
**(72)** Dickie, Garth Allen  
**(74)** RnB IP Pty Ltd

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**Academia Sinica see National Health Research Institutes**  
**(21)** 2022203580

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**(71)** Accenture Global Solutions Limited  
**(11)** AU-A-2022202270  
**(21)** 2022202270 **(22)** 05.04.2022  
**(54)** SECURELY DESIGNING AND EXECUTING AN AUTOMATION WORKFLOW BASED ON VALIDATING THE AUTOMATION WORKFLOW  
**(51)** Int. Cl.  
*G06Q 10/06* ( 2012.01 )  
*G06F 9/46* ( 2006.01 )  
*G06F 15/00* ( 2006.01 )  
*G06F 21/62* ( 2013.01 )  
*G06N 20/00* ( 2019.01 )  
*H04W 12/06* ( 2021.01 )  
*H04W 12/08* ( 2021.01 )  
**(31)** 17/448,379 **(32)** 22.09.21 **(33)** US  
**(43)** 06.04.2023  
**(72)** GRENET, Charles; WHINE, Leon; GLEESON, Samuel James; ROBINSON, Robert; HIGGINS, Luke; KULKARNI, Aditi; VIJAYARAGHAVAN, Koushik M.  
**(74)** Murray Trento & Associates Pty Ltd

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**(71)** Acer Incorporated  
**(11)** AU-A-2022215252  
**(21)** 2022215252 **(22)** 11.08.2022  
**(54)** DEVICE AND METHOD FOR HANDLING A REFERENCE SIGNAL REPORTING  
**(51)** Int. Cl.  
*H04W 72/00* ( 2009.01 )  
*H04W 48/00* ( 2009.01 )  
*H04W 88/00* ( 2009.01 )  
**(31)** 17/879,783 **(32)** 03.08.22 **(33)** US  
 63/245,199 17.09.21 US

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**(43)** 06.04.2023  
**(72)** LO, Li-Chung; LEE, Chien-Min; CHEN, Jen-Hsien  
**(74)** Griffith Hack

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**(71)** Agency for Science, Technology and Research  
**(11)** AU-A-2023201430  
**(21)** 2023201430 **(22)** 08.03.2023  
**(54)** METHOD AND SYSTEM FOR CONVERTING CARBON DIOXIDE INTO SOLID CARBONATES  
**(51)** Int. Cl.  
*C01B 32/60* ( 2017.01 )  
*B01D 53/14* ( 2006.01 )  
*B01D 53/62* ( 2006.01 )  
*C01F 5/24* ( 2006.01 )  
**(43)** 06.04.2023  
**(62)** 2018247175  
**(72)** Bu, Jie; Yeo, Tze Yuen  
**(74)** PHILLIPS ORMONDE FITZPATRICK

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**(71)** Apple Inc.  
**(11)** AU-A-202221582  
**(21)** 202221582 **(22)** 29.08.2022  
**(54)** Inductor topology for phase noise reduction  
**(51)** Int. Cl.  
*H03B 1/04* ( 2006.01 )  
*H01F 17/00* ( 2006.01 )  
*H03B 5/08* ( 2006.01 )  
*H03B 27/00* ( 2006.01 )  
**(31)** 17/479,774 **(32)** 20.09.21 **(33)** US  
**(43)** 06.04.2023  
**(72)** Li, Yi-An; Hussein, Ahmed I.; Zhao, Yi  
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Apple Inc.  
**(11)** AU-A-2022235545  
**(21)** 2022235545 **(22)** 20.09.2022  
**(54)** User interfaces for digital identification  
**(51)** Int. Cl.  
*G06F 3/06* ( 2006.01 )  
*G06F 21/32* ( 2013.01 )  
*G06Q 99/00* ( 2006.01 )  
*H04L 9/32* ( 2006.01 )  
**(31)** 63/246,289 **(32)** 20.09.21 **(33)** US  
 17/900,734 31.08.22 US  
**(43)** 06.04.2023  
**(72)** Pons Bordes, Pablo; Fasoli, Gianpaolo; Gentles, Tyler; Kindarji, Bruno; Kostka, Petr; Narula, Rohit; Silver, David W.; Sykora, Libor; Yang, Ka  
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Apple Inc.  
**(11)** AU-A-2023201189  
**(21)** 2023201189 **(22)** 28.02.2023  
**(54)** Multi-user configuration  
**(51)** Int. Cl.

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*H04L 67/54* ( 2022.01 )  
*G06F 3/16* ( 2006.01 )  
*G06F 21/32* ( 2013.01 )  
*G10L 15/00* ( 2013.01 )  
*G10L 17/00* ( 2013.01 )  
*H04L 67/30* ( 2022.01 )  
**(43)** 06.04.2023  
**(62)** 2022203561  
**(72)** Carrigan, Taylor G.; Coffman, Patrick L.; Graham, David Chance  
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Apple Inc.  
**(11)** AU-A-2023201250  
**(21)** 2023201250 **(22)** 01.03.2023  
**(54)** Avatar navigation, library, editing and creation user interface  
**(51)** Int. Cl.  
*G06F 3/01* ( 2006.01 )  
*A63F 13/63* ( 2014.01 )  
*G06F 3/0488* ( 2022.01 )  
*G06T 11/60* ( 2006.01 )  
*G06T 13/40* ( 2011.01 )  
*H04M 1/725* ( 2021.01 )  
**(43)** 06.04.2023  
**(62)** 2021202254  
**(72)** SCAPEL, Nicolas; FORSSELL, Lisa K.; GARCIA III, Robert; GUZMAN, Aurelio; VAN OS, Marcel; BARLIER, Guillaume Pierre Andre; BEHZADI, Arian; DYE, Alan C.; GARDNER, JD; RICKWALD, Jason; ROMNEY, Christopher James; WILSON, Christopher; YERKES, Giancarlo  
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Arcus Biosciences, Inc.  
**(11)** AU-A-2023201288  
**(21)** 2023201288 **(22)** 02.03.2023  
**(54)** Modulators of 5' nucleotidase, ecto and the use thereof  
**(51)** Int. Cl.  
*A61K 31/70* ( 2006.01 )  
*A61K 31/7052* ( 2006.01 )  
*A61K 31/7076* ( 2006.01 )  
*C07H 19/16* ( 2006.01 )  
*C07H 19/20* ( 2006.01 )  
*C07H 19/207* ( 2006.01 )  
**(43)** 06.04.2023  
**(62)** 2017206061  
**(72)** Debien, Laurent Pierre Paul; Jaen, Juan Carlos; Kalisiak, Jaroslaw; Lawson, Kenneth V.; Leleti, Manmohan Reddy; Lindsey, Erick Allen; Miles, Dillon Harding; Newcomb, Eric; Powers, Jay Patrick; Rosen, Brandon Reid; Sharif, Ehesan UI  
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Aristocrat Technologies, Inc.  
**(11)** AU-A-2022231793

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Applications Open to Public Inspection - Name Index cont'd

(21) 2022231793 (22) 16.09.2022  
 (54) FREE GAME MULTIPLIER FOR VIDEO KENO GAME  
 (51) Int. Cl.  
**G07F 17/32** ( 2006.01 )  
 (31) 17/478,770 (32) 17.09.21 (33) US  
 (43) 06.04.2023  
 (72) DALEY, John; BRUNE, Christopher; KAMINKOW, David; MIRJAVADI, Daniel  
 (74) Griffith Hack

(71) Arla Foods Amba  
 (11) AU-A-2023201182  
 (21) 2023201182 (22) 28.02.2023  
 (54) Production of novel beta-lactoglobulin preparations and related methods, uses, and food products  
 (51) Int. Cl.  
**A23J 1/20** ( 2006.01 )  
**A23L 2/66** ( 2006.01 )  
**A23L 33/19** ( 2016.01 )  
 (43) 06.04.2023  
 (62) 2017380258  
 (72) BERTELSEN, Hans; LAURIDSEN, Kasper Bøgelund  
 (74) Spruson & Ferguson

(71) ASPECT FURNITURE SYSTEMS LIMITED  
 (11) AU-A-2022235546  
 (21) 2022235546 (22) 20.09.2022  
 (54) A SUPPORT STRUCTURE  
 (51) Int. Cl.  
**A47B 13/02** ( 2006.01 )  
**A47B 7/00** ( 2006.01 )  
 (31) 2021903033 (32) 21.09.21 (33) AU  
 (43) 06.04.2023  
 (72) SIMMONS, Ashley; MILLIGAN, Ian; TIERNEY, Peter Alan  
 (74) AJ PARK

(71) Assa Abloy AB  
 (11) AU-A-2023201391  
 (21) 2023201391 (22) 07.03.2023  
 (54) Systems, methods, and devices for access control  
 (51) Int. Cl.  
**G07C 9/22** ( 2020.01 )  
**G07C 9/00** ( 2020.01 )  
**G07C 9/28** ( 2020.01 )  
 (43) 06.04.2023  
 (62) 2019373730  
 (72) HOYER, Philip; EINBERG, Fredrik Carl Stefan  
 (74) Davies Collison Cave Pty Ltd

(71) AudioMob Ltd  
 (11) AU-A-2023201423  
 (21) 2023201423 (22) 07.03.2023  
 (54) Sending Audio Content to Digital Works  
 (51) Int. Cl.  
**H04N 21/434** ( 2011.01 )  
**A63F 13/54** ( 2014.01 )  
**A63F 13/61** ( 2014.01 )  
**H04N 21/439** ( 2011.01 )  
**H04N 21/478** ( 2011.01 )

**H04N 21/81** ( 2011.01 )  
 (43) 06.04.2023  
 (62) 2021333741  
 (72) OBENG-BOAKYE, Wilfrid; FACEY, Christian  
 (74) BOSH IP Pty Ltd

(71) Australian Plant Proteins Pty Ltd  
 (11) AU-A-2023201174  
 (21) 2023201174 (22) 27.02.2023  
 (54) System and method for extracting a protein food product  
 (51) Int. Cl.  
**A23J 1/14** ( 2006.01 )  
**A23L 2/39** ( 2006.01 )  
**A23L 11/00** ( 2021.01 )  
**A23L 33/185** ( 2016.01 )  
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 (62) 2019339916  
 (72) McFARLANE, Phillip; McKEEGAN, Brendan; LINGHAM, Christa; LINGHAM, Rod  
 (74) mdp Patent and Trade Mark Attorneys

(71) Avalon HepaPOC Limited  
 (11) AU-A-2023201158  
 (21) 2023201158 (22) 27.02.2023  
 (54) GALACTOSE ORAL COMPOSITION AND USE THEREOF  
 (51) Int. Cl.  
**A61K 9/08** ( 2006.01 )  
**A61K 31/7004** ( 2006.01 )  
**G01N 33/66** ( 2006.01 )  
 (43) 06.04.2023  
 (62) 2018445495  
 (72) HU, Oliver Yoa-Pu; YANG, Ping; HSIONG, Cheng-Huei  
 (74) RnB IP Pty Ltd

(71) B. Braun Medical Inc.  
 (11) AU-A-2023201278  
 (21) 2023201278 (22) 01.03.2023  
 (54) Compounding device, system, kit, software, and method  
 (51) Int. Cl.  
**A61J 3/00** ( 2006.01 )  
 (43) 06.04.2023  
 (62) 2021200225  
 (72) Janders, Mike; Mumpower, Mariano; Lane, Benjamin R.  
 (74) Davies Collison Cave Pty Ltd

(71) BASF Agro B.V.  
 (11) AU-A-2023201264  
 (21) 2023201264 (22) 01.03.2023  
 (54) Method for controlling herbicide resistant or tolerant weeds  
 (51) Int. Cl.  
**A01N 43/90** ( 2006.01 )  
**A01N 37/22** ( 2006.01 )  
**A01N 39/02** ( 2006.01 )  
**A01N 41/10** ( 2006.01 )  
**A01N 43/54** ( 2006.01 )  
**A01N 43/56** ( 2006.01 )  
**A01N 43/60** ( 2006.01 )  
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**A01N 43/86** ( 2006.01 )

**A01N 47/36** ( 2006.01 )  
**A01N 47/38** ( 2006.01 )  
**A01P 13/00** ( 2006.01 )  
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 (72) Kraus, Helmut; Sievernich, Bernd; Etcheverry, Mariano; Evans, Richard R.; Nielson, Ryan Louis; Landes, Andreas; Zagar, Cyrill; Liebl, Rex A.  
 (74) Griffith Hack

(71) Baxter Corporation Englewood  
 (11) AU-A-2023201223  
 (21) 2023201223 (22) 28.02.2023  
 (54) MANAGED MEDICAL INFORMATION EXCHANGE  
 (51) Int. Cl.  
**G06Q 50/22** ( 2018.01 )  
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 (62) 2021201053  
 (72) VALENTINE, Matthew A.; PADMANI, Bhavesh; BOSSIO, Robert; YEVSEYEVA, Kristina; MODEKURTI, Srinivas  
 (74) K&L Gates

(71) Becton, Dickinson and Company  
 (11) AU-A-2023201341  
 (21) 2023201341 (22) 03.03.2023  
 (54) Spacer assembly for drug delivery device  
 (51) Int. Cl.  
**A61M 5/315** ( 2006.01 )  
**A61M 5/142** ( 2006.01 )  
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 (62) 2021203524  
 (72) AVERY, Richard James Vincent; BOYD, Malcolm Stanley; GAZELEY, Oliver Charles; LEWIS, Gareth James; PLUMPTRE, David Aubrey; SENIOR, James Alexander  
 (74) FB Rice Pty Ltd

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 (21) 2022312942

(71) Beijing Tusen Zhitu Technology Co., Ltd.  
 (11) AU-A-2022235563  
 (21) 2022235563 (22) 21.09.2022  
 (54) Method and apparatus for automatic driving transportation, transportation system and storage medium  
 (51) Int. Cl.  
**G06Q 10/04** ( 2012.01 )  
**G05D 1/00** ( 2006.01 )  
**G05D 3/00** ( 2006.01 )  
**G06Q 50/28** ( 2012.01 )  
**G06Q 50/30** ( 2012.01 )  
**H04L 12/16** ( 2006.01 )  
**H04W 4/44** ( 2018.01 )  
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 (43) 06.04.2023  
 (72) SUN, Jiaxin; WU, Nan  
 (74) FB Rice Pty Ltd

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 (11) AU-A-2023201392  
 (21) 2023201392 (22) 07.03.2023  
 (54) Microfluidic cell culture  
 (51) Int. Cl.

**C12M 1/00** ( 2006.01 )  
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 (62) 2021245187  
 (72) LOWE Jr., Randall D.; BEAUMONT, Kristin; KARUNAKARAN, Aathavan; MARKS, Natalie; MCEWEN, Jason M.; WHITE, Mark P.; NEVILL, J. Tanner; WANG, Gang F.; MCFARLAND, Andrew W.; MALLEO, Daniele; BREINLINGER, Keith J.; GUAN, Xiao; CHAPMAN, Kevin T.  
 (74) FB Rice Pty Ltd

(71) Beth Israel Deaconess Medical Center, Inc.; The Children's Medical Center Corporation  
 (11) AU-A-2023201193  
 (21) 2023201193 (22) 28.02.2023  
 (54) Therapeutic use of mitochondria and combined mitochondrial agents  
 (51) Int. Cl.

**A61K 35/00** ( 2006.01 )  
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**A61K 38/43** ( 2006.01 )  
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 (62) 2017208013  
 (72) McCully, James D.; Levitsky, Sidney; Cowan, Douglas B.; Emani, Sitaram M.; Del Nido, Pedro J.  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

(71) BGC Partners, Inc  
 (11) AU-A-2023201326  
 (21) 2023201326 (22) 03.03.2023  
 (54) SYSTEM AND METHOD FOR MATCHING TRADING ORDERS BASED ON PRIORITY  
 (51) Int. Cl.

**G06Q 40/00** ( 2023.01 )

(43) 06.04.2023  
 (62) 2020294179  
 (72) Lutnick, Howard W.; Noviello, Joseph C.; Claus, Matthew W.; Foley, Kevin  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

(71) BioCorRx, Inc.  
 (11) AU-A-2022202053  
 (21) 2022202053 (22) 24.03.2022  
 (54) BIODEGRADABLE IMPLANT INCLUDING NALTREXONE  
 (51) Int. Cl.

**A61K 31/485** ( 2006.01 )  
**A61K 9/22** ( 2006.01 )  
**A61K 31/58** ( 2006.01 )  
**A61K 47/28** ( 2006.01 )  
**A61P 25/32** ( 2006.01 )  
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 (72) Granier, Brady  
 (74) Gestalt Law Pty Ltd

(71) BioNTech SE  
 (11) AU-A-2023201185  
 (21) 2023201185 (22) 28.02.2023  
 (54) Preparation and storage of liposomal RNA formulations suitable for therapy  
 (51) Int. Cl.

**A61K 9/127** ( 2006.01 )  
**A61K 31/713** ( 2006.01 )

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 (72) HAAS, Heinrich; HÖRNER, Sebastian; ESPARZA BORQUEZ, Isaac Hernan; HILLER, Thomas Michael; BATES, Ferdia  
 (74) FB Rice Pty Ltd

(71) BIORA THERAPEUTICS, INC.  
 (11) AU-A-2023201348  
 (21) 2023201348 (22) 03.03.2023  
 (54) TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH A JAK INHIBITOR AND DEVICES  
 (51) Int. Cl.

**A61K 31/00** ( 2006.01 )  
**A61K 9/00** ( 2006.01 )  
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**A61P 35/00** ( 2006.01 )

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 (62) 2017378398  
 (72) Jones, Mitchell Lawrence; Singh, Sharat; Wahl, Christopher Loren; Stylli, Harry  
 (74) Davies Collison Cave Pty Ltd

(71) Black & Decker Inc.  
 (11) AU-A-2023201275  
 (21) 2023201275 (22) 01.03.2023  
 (54) System and tool for wireless retrieval of measured component data  
 (51) Int. Cl.

**H04W 4/33** ( 2018.01 )  
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 (62) 2017279715  
 (72) White, Daniel J.; Velderman, Matthew J.; Seman, Andrew E.; Lemieux, Christopher W.; Hill, Gary  
 (74) Davies Collison Cave Pty Ltd

(71) Blakktail Pty Ltd  
 (11) AU-A-2022231755  
 (21) 2022231755 (22) 15.09.2022  
 (54) Compact holder for a fishing rod  
 (51) Int. Cl.

**A01K 97/10** ( 2006.01 )  
**A45F 3/44** ( 2006.01 )  
**E04H 12/22** ( 2006.01 )

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 (72) Tsentidis, Nickolas William  
 (74) Australian Patent & Trademark Services Pty Ltd

(71) BlueScope Steel Limited  
 (11) AU-A-2023201378  
 (21) 2023201378 (22) 06.03.2023  
 (54) Coating process  
 (51) Int. Cl.

**C09D 5/00** ( 2006.01 )  
**C08J 7/04** ( 2020.01 )  
**C23C 28/00** ( 2006.01 )

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 (62) 2021257993  
 (72) Maclaughlin, Shane A.; Xi, Binbin  
 (74) ALLENS PATENT & TRADE MARK ATTORNEYS

(71) Bobrick Washroom Equipment, Inc.  
 (11) AU-A-2023201394  
 (21) 2023201394 (22) 07.03.2023  
 (54) Methods for filling a foam or liquid soap dispenser  
 (51) Int. Cl.

**A47K 5/12** ( 2006.01 )  
**B05B 11/00** ( 2023.01 )

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 (72) BABIKIAN, Dikran  
 (74) FB Rice Pty Ltd

(71) Bond University Ltd  
 (11) AU-A-2023201179  
 (21) 2023201179 (22) 28.02.2023  
 (54) Methods of differentiating retinal cells  
 (51) Int. Cl.

**C12N 5/071** ( 2010.01 )

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 (62) 2016363664  
 (72) LIMNIOS, Ioannis Jason  
 (74) MINTER ELLISON

(71) Boston Scientific Neuromodulation Corporation  
 (11) AU-A-2023201208  
 (21) 2023201208 (22) 28.02.2023  
 (54) System for delivering prescribed neuromodulation dose  
 (51) Int. Cl.

**A61N 1/05** ( 2006.01 )  
**A61N 1/36** ( 2006.01 )  
**A61N 1/372** ( 2006.01 )

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 (62) 2020218477  
 (72) MOFFITT, Michael A.; HUERTAS FERNANDEZ, Ismael  
 (74) Spruson & Ferguson

(71) Boston Scientific Neuromodulation Corporation  
 (11) AU-A-2023201221  
 (21) 2023201221 (22) 28.02.2023  
 (54) Fitting algorithm to determine best stimulation parameter in a spinal cord stimulation system  
 (51) Int. Cl.

**A61N 1/05** ( 2006.01 )  
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**A61N 1/372** ( 2006.01 )



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 (72) ZHANG, Tianhe; ESTELLER, Rosana  
 (74) Spruson & Ferguson

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 (21) 2023201261

(71) Calico Life Sciences LLC; AbbVie Inc.  
 (11) AU-A-2023201399  
 (21) 2023201399 (22) 07.03.2023  
 (54) Modulators of the integrated stress pathway  
 (51) Int. Cl.

*C07D 207/26* ( 2006.01 )  
*A61P 3/00* ( 2006.01 )  
*A61P 19/00* ( 2006.01 )  
*C07D 207/273* ( 2006.01 )  
*C07D 209/46* ( 2006.01 )  
*C07D 233/32* ( 2006.01 )  
*C07D 239/88* ( 2006.01 )  
*C07D 239/96* ( 2006.01 )  
*C07D 263/20* ( 2006.01 )  
*C07D 265/10* ( 2006.01 )  
*C07D 401/04* ( 2006.01 )  
*C07D 401/12* ( 2006.01 )  
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 (62) 2018360850  
 (72) MARTIN, Kathleen Ann; SIDRAUSKI, Carmela; FROST, Jennifer M.; TONG, Yunsong; XU, Xiangdong; SHI, Lei; CHUNG, Seungwon; XIONG, Zhaoming; MURAUSKI, Kathleen; ZHANG, Qingwei; BROWN, Brian S.; DART, Michael J.  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

(71) Carl Freudenberg KG  
 (11) AU-A-2022218574  
 (21) 2022218574 (22) 18.08.2022  
 (54) MULTIDIRECTIONAL DUSTING TOOL  
 (51) Int. Cl.  
*A47L 13/38* ( 2006.01 )  
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 (72) ANCHETA, Robert; METZEL, Doug; MARTIN, Eric  
 (74) Halfords IP

(71) CarryGenes Bioengineering  
 (11) AU-A-2023201408  
 (21) 2023201408 (22) 07.03.2023  
 (54) Methods of cell renewal  
 (51) Int. Cl.  
*C12N 1/21* ( 2006.01 )  
*C12N 15/09* ( 2006.01 )  
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 (72) Perkins, Edward; Greene, Amy; Broccoli, Dominique  
 (74) FB Rice Pty Ltd

(71) CATERPILLAR INC.  
 (11) AU-A-2022235589  
 (21) 2022235589 (22) 21.09.2022  
 (54) MONITORING SYSTEM FOR IDENTIFYING AN ENGINE BANK WITH A MALFUNCTIONING FUEL INJECTOR  
 (51) Int. Cl.  
*F02D 41/22* ( 2006.01 )  
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 (31) 17/448,477 (32) 22.09.21 (33) US  
 (43) 06.04.2023  
 (72) MARCHIONDA, Michael; HEFFRON, Dereck G.  
 (74) FPA Patent Attorneys Pty Ltd

(71) CATERPILLAR SARL  
 (11) AU-A-2022231712  
 (21) 2022231712 (22) 14.09.2022  
 (54) REMOVABLE CAB TOE BOX FOR A WORK MACHINE  
 (51) Int. Cl.  
*E02F 9/16* ( 2006.01 )  
*B62D 33/063* ( 2006.01 )  
*B66F 9/06* ( 2006.01 )  
*E02F 3/34* ( 2006.01 )  
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 (43) 06.04.2023  
 (72) CHEEK, Benjamin M.; DELA ROSA, Rafael; SMITH, Sage Frederick  
 (74) FPA Patent Attorneys Pty Ltd

(71) CCTEG Coal Mining Research Institute; China Coal Research Institute  
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 (21) 2022200669 (22) 02.02.2022  
 (54) DEVICE AND METHOD FOR MEASURING EXTENSION-RETRACTION STROKE OF HYDRAULIC CYLINDER  
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*F15B 15/28* ( 2006.01 )  
*B66F 19/00* ( 2006.01 )  
*E21C 45/08* ( 2006.01 )  
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 (72) Pang, Yihui; Ren, Shihua; Wang, Chen  
 (74) Madderns Pty Ltd

(71) CFPH, LLC  
 (11) AU-A-2023201330  
 (21) 2023201330 (22) 03.03.2023  
 (54) GAME WITH PLAYER ACTUATED CONTROL STRUCTURE  
 (51) Int. Cl.  
*A63F 9/24* ( 2006.01 )  
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 (72) Alderucci, Dean P.; Gelman, Geoffrey M.  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

(71) CHAN, E.  
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 (21) 2023201281 (22) 02.03.2023

(54) A TEETH ALIGNER SYSTEM  
 (51) Int. Cl.  
*A61C 7/00* ( 2006.01 )  
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 (72) Chan, Eugene; Shen, David; Taurai, Junior Bryan; Taylor, Matthew James; El Abed, Yasmin; Hasnip, Eleanor; To-pham, Michael; CHAN, Eugene  
 (74) Roger Syn & Co Patent & Trade Mark Attorneys

(71) Cheung, C.; Plant A Foods Hong Kong Limited  
 (11) AU-A-2021266268  
 (21) 2021266268 (22) 10.11.2021  
 (54) NANOEMULSION, PLANT-BASED MEAT AND PREPARATION METHOD THEREOF  
 (51) Int. Cl.  
*A23D 7/05* ( 2006.01 )  
*A23J 3/14* ( 2006.01 )  
*A23L 29/225* ( 2016.01 )  
*A23L 33/185* ( 2016.01 )  
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 (72) Cheung, Chui; Lee, Mabel; Wong, Cheuk  
 (74) Acacia Law

**China Coal Research Institute see CCTEG Coal Mining Research Institute**  
 (21) 2022200669

(71) CJ Cheiljedang Corporation  
 (11) AU-A-2021420803  
 (21) 2021420803 (22) 17.12.2021  
 (54) Novel glutamine-hydrolyzing GMP synthase variant and method for producing purine nucleotide by using same  
 (51) Int. Cl.  
*C12N 9/00* ( 2006.01 )  
*C12P 19/40* ( 2006.01 )  
*C12R 1/15* ( 2006.01 )  
 (31) 10-2021-0125841 (32) 23.09.21 (33) KR  
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 (74) Spruson & Ferguson

(71) CPL Holdings Pty Ltd  
 (11) AU-A-2016200511  
 (21) 2016200511 (22) 28.01.2016  
 (54) Drill bit  
 (51) Int. Cl.  
*A61B 17/16* ( 2006.01 )  
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 (72) Ellis, Liam Patrick  
 (74) Spruson & Ferguson

(71) CURTIS, M.  
 (11) AU-A-2023201420  
 (21) 2023201420 (22) 07.03.2023  
 (54) Sealing System for Dam Walls

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**E02D 17/18** ( 2006.01 )  
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(72) CURTIS, Mark Robert Edmund  
(74) Wallington-Dummer
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- (71) Cyclomedica Australia Pty Limited  
(11) AU-A-2021236486  
(21) 2021236486 (22) 22.09.2021  
(54) A crucible coupler for a carbon aerosol generator  
(51) Int. Cl.  
**F16M 11/04** ( 2006.01 )  
**F16B 1/04** ( 2006.01 )  
**A61K 51/12** ( 2006.01 )  
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- (71) DAP Products Inc.  
(11) AU-A-2022235567  
(21) 2022235567 (22) 21.09.2022  
(54) LOW-SHRINKAGE SEALANT COMPOSITIONS  
(51) Int. Cl.  
**C08K 3/40** ( 2006.01 )  
**C08K 7/16** ( 2006.01 )  
**C08K 7/20** ( 2006.01 )  
**C08K 7/28** ( 2006.01 )  
**C08L 101/12** ( 2006.01 )  
**C09D 5/34** ( 2006.01 )  
(31) 63/247,089 (32) 22.09.21 (33) US  
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(72) GLASS, Richard; FISANICH, Tabitha  
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- (71) Deere & Company  
(11) AU-A-2022218543  
(21) 2022218543 (22) 18.08.2022  
(54) Laser reference tracking and target corrections for work machines  
(51) Int. Cl.  
**G05D 1/02** ( 2020.01 )  
**G01B 11/03** ( 2006.01 )  
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**G01B 21/04** ( 2006.01 )  
**G01B 21/22** ( 2006.01 )  
**G01C 9/10** ( 2006.01 )  
**G01S 17/88** ( 2006.01 )  
**G05B 19/18** ( 2006.01 )  
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(72) Kean, Michael G.; Rausch, Bryan J.  
(74) Davies Collison Cave Pty Ltd
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- (71) Deere & Company  
(11) AU-A-202221484  
(21) 202221484 (22) 25.08.2022  
(54) Large sealing lid with slides and lock  
(51) Int. Cl.  
**B65D 90/62** ( 2006.01 )  
**A01D 41/12** ( 2006.01 )  
**B65D 43/16** ( 2006.01 )  
**B65D 43/20** ( 2006.01 )  
**B65D 43/22** ( 2006.01 )
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- (71) DeRoyal Industries, Inc  
(11) AU-A-2022231677  
(21) 2022231677 (22) 13.09.2022  
(54) Stackable Eye Shields  
(51) Int. Cl.  
**G02C 7/16** ( 2006.01 )  
**A61F 9/04** ( 2006.01 )  
**A63B 71/00** ( 2006.01 )  
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**G02C 1/04** ( 2006.01 )  
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(72) Cowart, Walter C.; Valentine, Ethan Edward; Poker, Nicholas John; Peery, Phillip David  
(74) Alder IP Pty Ltd
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- (71) Dolby International AB  
(11) AU-A-2023201183  
(21) 2023201183 (22) 28.02.2023  
(54) Cross Product Enhanced Subband Block Based Harmonic Transposition  
(51) Int. Cl.  
**G10L 21/02** ( 2013.01 )  
**G10L 21/038** ( 2013.01 )  
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(43) 06.04.2023  
(62) 2022201270  
(72) Villemoes, Lars  
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- (71) Dolby International AB  
(11) AU-A-2023201244  
(21) 2023201244 (22) 01.03.2023  
(54) Video decoder with reduced dynamic range transform with inverse transform shifting memory  
(51) Int. Cl.  
**H04N 19/60** ( 2014.01 )  
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(72) Kerofsky, Louis Joseph; Misra, Kiran; Segall, Christopher A.  
(74) Davies Collison Cave Pty Ltd
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- (71) E6PR S.A.P.I. DE C.V.  
(11) AU-A-2023201419  
(21) 2023201419 (22) 07.03.2023  
(54) EDIBLE MULTI-RING CAN-HOLDER AND METHODS FOR MANUFACTURING EDIBLE CAN-HOLDERS  
(51) Int. Cl.  
**B65D 71/50** ( 2006.01 )  
**D21J 3/02** ( 2006.01 )  
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(72) Lauria, Gustavo Adolfo; Garcia Cendejas, Juan Francisco; Vega Malpica, Marco Antonio; Joshina, Jaime Koji  
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(54) Earth terminal solution for a charging station  
(51) Int. Cl.  
**H02H 3/16** ( 2006.01 )  
**B60L 53/30** ( 2019.01 )  
**B60L 53/60** ( 2019.01 )  
**H02H 3/10** ( 2006.01 )  
(31) 2113308.7 (32) 17.09.21 (33) GB  
(43) 06.04.2023  
(72) STENGEL, Ola; STENSLAND, Øyvind  
(74) Spruson & Ferguson
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- East Inner Mongolia Power Exchange Center Company Ltd. see State Grid Corporation of China  
(21) 2022312942
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- (71) Ecc Tec Msj Incorporated  
(11) AU-A-2023201096  
(21) 2023201096 (22) 24.02.2023  
(54) Exhaust system and features thereof  
(51) Int. Cl.  
**B01D 53/86** ( 2006.01 )  
**B01D 53/94** ( 2006.01 )  
**B01J 35/02** ( 2006.01 )  
**B01J 35/04** ( 2006.01 )  
**F01N 3/021** ( 2006.01 )  
**F01N 3/10** ( 2006.01 )  
**F01N 3/20** ( 2006.01 )  
(43) 06.04.2023  
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(72) AKYILDIZ, Saban  
(74) Dentons Patent Attorneys Australasia Limited
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- (71) Eiger Group International, Inc.  
(11) AU-A-2023201397  
(21) 2023201397 (22) 07.03.2023  
(54) USE OF CHLOROQUINE AND CL-EMIZOLE COMPOUNDS FOR TREATMENT OF INFLAMMATORY AND CANCEROUS CONDITIONS  
(51) Int. Cl.  
**C07D 403/06** ( 2006.01 )  
**A61K 31/4184** ( 2006.01 )  
**C07D 451/02** ( 2006.01 )  
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(72) Glenn, Jeffrey S.; Pham, Edward A.  
(74) PHILLIPS ORMONDE FITZPATRICK
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- (71) Emelem Pty Ltd  
(11) AU-A-2023201434  
(21) 2023201434 (22) 08.03.2023  
(54) SYSTEM AND METHOD FOR DISSEMINATING INFORMATION TO CONSUMERS  
(51) Int. Cl.  
**G06Q 30/02** ( 2023.01 )

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 (74) Murray Trento & Associates Pty Ltd

(71) Envisics Ltd  
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 (54) Compact head-up display  
 (51) Int. Cl.  
*G02B 27/01* ( 2006.01 )  
*G02B 5/32* ( 2006.01 )  
*G02B 27/10* ( 2006.01 )  
*G02B 27/18* ( 2006.01 )  
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 (72) CHRISTMAS, Jamieson; SMEETON, Timothy; MAHARJAN, Rakesh; COLE, Alexander  
 (74) FB Rice Pty Ltd

(71) Epitech Group S.p.A.  
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 (51) Int. Cl.  
*A61K 31/16* ( 2006.01 )  
*A23L 33/12* ( 2016.01 )  
*A61K 31/202* ( 2006.01 )  
*A61P 25/00* ( 2006.01 )  
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 (74) PHILLIPS ORMONDE FITZPATRICK

(71) Evapco, Inc.  
 (11) AU-A-2023201245  
 (21) 2023201245 (22) 01.03.2023  
 (54) Mini-tube air cooled industrial steam condenser  
 (51) Int. Cl.  
*F28F 9/26* ( 2006.01 )  
 (43) 06.04.2023  
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 (72) Bugler, Tom; Libert, Jean-Pierre; Huber, Mark  
 (74) Davies Collison Cave Pty Ltd

(71) Eximis Surgical Inc.  
 (11) AU-A-2023201204  
 (21) 2023201204 (22) 28.02.2023  
 (54) Large volume tissue reduction and removal system and method  
 (51) Int. Cl.  
*A61B 17/32* ( 2006.01 )  
*A61B 18/12* ( 2006.01 )  
*A61B 18/18* ( 2006.01 )

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 (72) JOHNSON, Kristin D.; GREGG, William N.; JOHNSON, Dirk  
 (74) Spruson & Ferguson

(71) Federal Cartridge Company  
 (11) AU-A-2022235595  
 (21) 2022235595 (22) 22.09.2022  
 (54) BIODEGRADABLE SHOTSHELL COMPONENTS  
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*F42B 7/08* ( 2006.01 )  
 (31) 17/482,348 (32) 22.09.21 (33) US  
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 (72) Schmieg, Alex R.; Strange, Robert A.; Stockey, Anthony C.; Schommer, Steven P.; Moser, Adam J.  
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(71) Fisher & Paykel Healthcare Limited  
 (11) AU-A-2023201038  
 (21) 2023201038 (22) 22.02.2023  
 (54) PATIENT INTERFACE  
 (51) Int. Cl.  
*A61M 16/06* ( 2006.01 )  
 (43) 06.04.2023  
 (62) 2021200628  
 (72) RONAYNE, Michael Paul; JOHNSON, Chelsea Erin; MILNE, Robert Andrew David  
 (74) AJ PARK

(71) FNV IP B.V.  
 (11) AU-A-2023201365  
 (21) 2023201365 (22) 06.03.2023  
 (54) System and method for mapping a railway track  
 (51) Int. Cl.  
*B61L 25/02* ( 2006.01 )  
*B61L 23/04* ( 2006.01 )  
 (43) 06.04.2023  
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 (72) Moth, Luke William; Kodde, Martinus Pieter; Florisson, Sander Christiaan; Berkers, Adrianus Franciscus Wilhelmus  
 (74) Allens Patent & Trade Mark Attorneys

(71) Frequency Therapeutics, Inc.  
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 (54) METHODS FOR CONTROLLED PROLIFERATION OF VESTIBULAR STEM CELLS / GENERATING INNER EAR HAIR CELLS USING WNT AND TGF-BETA INHIBITION  
 (51) Int. Cl.  
*A61K 35/12* ( 2015.01 )  
*C12N 5/07* ( 2010.01 )  
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 (74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

(71) General Electric Company  
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 (54) FLOATING PRIMARY VANE SWIRLER  
 (51) Int. Cl.  
*F23R 3/14* ( 2006.01 )  
*F23R 3/28* ( 2006.01 )  
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 (51) Int. Cl.  
*C12N 15/85* ( 2006.01 )  
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 (74) Madderns Pty Ltd

(71) Georgia Tech Research Corporation  
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 (21) 2023201360 (22) 06.03.2023  
 (54) SENSOR ARRAY IMAGING DEVICE  
 (51) Int. Cl.  
*G01S 15/02* ( 2006.01 )  
*G01S 13/28* ( 2006.01 )  
*G01S 17/02* ( 2020.01 )  
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 (72) BARNES, Christopher Floyd; PONNATHPUR NAGENDRA, Skanda Prasad  
 (74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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 (54) TOOL ATTACHMENT FOR SHARPENING AN ELONGATED ROD  
 (51) Int. Cl.  
*B24B 5/307* ( 2006.01 )  
*B23Q 3/06* ( 2006.01 )  
*B23Q 7/04* ( 2006.01 )  
*B25B 1/06* ( 2006.01 )  
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 (72) GILLAN, Grant Angelo  
 (74) Baxter Patent Attorneys Pty Ltd

(71) GI Scientific, LLC  
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 (51) Int. Cl.  
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 (74) Spruson & Ferguson

(71) Google LLC  
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 (54) QUANTUM CIRCUITS WITH REDUCED T GATE COUNT  
 (51) Int. Cl.  
*G06N 99/00* ( 2019.01 )  
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 (72) Gidney, Craig  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

(71) Greyrock Technology, LLC  
 (11) AU-A-2023201338  
 (21) 2023201338 (22) 03.03.2023  
 (54) Catalysts, Related Methods And Reaction Products  
 (51) Int. Cl.  
*C10J 3/46* ( 2006.01 )  
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 (72) SCHUETZLE, Robert; SCHUETZLE, Dennis  
 (74) WRAYS PTY LTD

(71) HERO HEALTH, INC.  
 (11) AU-A-2023201240  
 (21) 2023201240 (22) 01.03.2023  
 (54) DISPENSABLE UNIT RETRIEVAL MECHANISM, IDENTIFICATION, AND NETWORKED NOTIFICATION  
 (51) Int. Cl.  
*A61J 7/02* ( 2006.01 )  
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 (74) AJ PARK

(71) HONEYWELL INTERNATIONAL INC.  
 (11) AU-A-2022221456  
 (21) 2022221456 (22) 24.08.2022  
 (54) GAS SENSOR DEVICES AND HOUSINGS  
 (51) Int. Cl.  
*G01D 11/24* ( 2006.01 )  
*F16K 31/12* ( 2006.01 )  
*F16L 55/26* ( 2006.01 )  
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 (54) Radio frame sending method and apparatus, and radio frame receiving method and apparatus  
 (51) Int. Cl.  
*H04W 16/14* ( 2009.01 )  
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 (72) GUO, Yuchen; LI, Yiqing; GAN, Ming  
 (74) PHILLIPS ORMONDE FITZPATRICK

(71) Huawei Technologies Co., Ltd.  
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 (54) PICTURE DATA ENCODING METHOD AND APPARATUS AND PICTURE DATA DECODING METHOD AND APPARATUS  
 (51) Int. Cl.  
*H04N 19/96* ( 2014.01 )  
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 (72) Zhao, Yin; Yang, Haitao; Liu, Shan  
 (74) PHILLIPS ORMONDE FITZPATRICK

(71) IB Operations Pty Ltd  
 (11) AU-A-2023201231  
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 (54) Method and apparatus for processing magnetite  
 (51) Int. Cl.  
*C22B 1/22* ( 2006.01 )  
*B01D 21/00* ( 2006.01 )  
*B02C 23/08* ( 2006.01 )  
*B03B 7/00* ( 2006.01 )  
*B03B 9/00* ( 2006.01 )  
*B03B 11/00* ( 2006.01 )  
*B03D 3/00* ( 2006.01 )  
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 (72) HAMILTON, Andrew Graham; LAROSA, Gerald Michael  
 (74) Davies Collison Cave Pty Ltd

(71) ICM Airport Technics Pty Ltd  
 (11) AU-A-2023201187  
 (21) 2023201187 (22) 28.02.2023  
 (54) LUGGAGE PROCESSING STATION AND SYSTEM THEREOF  
 (51) Int. Cl.  
*B64F 1/36* ( 2017.01 )  
*B65G 15/00* ( 2006.01 )  
*G01B 9/02* ( 2022.01 )  
*G01B 11/00* ( 2006.01 )  
*G01B 11/02* ( 2006.01 )  
*G01G 11/00* ( 2006.01 )  
*G06Q 10/02* ( 2012.01 )  
*G06Q 50/28* ( 2012.01 )  
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 (72) Dinkelmann, Richard; Dinkelmann, Rainer  
 (74) Griffith Hack

(71) Illinois Tool Works Inc.  
 (11) AU-A-2021232748  
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 (54) Fastener Pin  
 (51) Int. Cl.  
*F16B 15/06* ( 2006.01 )  
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*F16B 35/04* ( 2006.01 )  
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 (72) ALIREZAEI, Tayeb; COLLINSON, David  
 (74) Davies Collison Cave Pty Ltd

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 (11) AU-A-2021232749  
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 (54) Fastening Screw  
 (51) Int. Cl.  
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 (74) Davies Collison Cave Pty Ltd

(71) ImmunoGen, Inc.  
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 (54) Methods of preparing cytotoxic benzodiazepine derivatives  
 (51) Int. Cl.  
*C07D 487/04* ( 2006.01 )  
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 (74) Davies Collison Cave Pty Ltd

(71) Includme Pty Limited  
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 (54) ELECTRONIC SYSTEM AND METHOD FOR MANAGING COMMERCIAL ACTIVITIES BETWEEN MEMBERS OF A NETWORK OF USERS  
 (51) Int. Cl.  
*G06Q 30/06* ( 2012.01 )  
*G06Q 50/18* ( 2012.01 )  
 (43) 06.04.2023  
 (72) MCKENZIE, David Alan  
 (74) WRAYS PTY LTD

(71) Inspire Medical Systems, Inc.  
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 (54) Power element for an implantable medical device  
 (51) Int. Cl.  
*A61N 1/375* ( 2006.01 )  
*A61N 1/378* ( 2006.01 )  
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 (74) FB Rice Pty Ltd

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 (54) CROSSLINKED PULPS, CELLULOSE ETHER PRODUCTS MADE THEREFROM; AND RELATED METHODS OF MAKING PULPS AND CELLULOSE ETHER PRODUCTS  
 (51) Int. Cl.  
*D21H 11/02* ( 2006.01 )  
*C08B 15/10* ( 2006.01 )  
*D21C 3/02* ( 2006.01 )  
*D21C 9/10* ( 2006.01 )  
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 (74) Griffith Hack
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 (21) 2023201224
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 (54) Data services with privacy preservation and repeatability  
 (51) Int. Cl.  
*G06F 16/00* ( 2019.01 )  
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- (71) Ishigaki Company Limited  
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 (54) Outer cylinder screen washing apparatus of screw press  
 (51) Int. Cl.  
*B01D 29/68* ( 2006.01 )  
*B01D 29/25* ( 2006.01 )  
*B30B 9/12* ( 2006.01 )  
*B30B 9/26* ( 2006.01 )  
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- (71) Joy Global Surface Mining Inc  
 (11) AU-A-2023201190  
 (21) 2023201190 (22) 28.02.2023  
 (54) Air filtration for a mobile mining machine  
 (51) Int. Cl.  
*E02F 3/04* ( 2006.01 )  
*B01D 46/00* ( 2022.01 )  
*B01D 46/10* ( 2006.01 )  
*B60H 3/06* ( 2006.01 )  
*E02F 3/28* ( 2006.01 )  
 (43) 06.04.2023  
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 (74) Griffith Hack
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- (71) Joy Global Surface Mining Inc  
 (11) AU-A-2023201363  
 (21) 2023201363 (22) 06.03.2023  
 (54) Dipper door and dipper door trip assembly  
 (51) Int. Cl.  
*E02F 3/40* ( 2006.01 )  
*B66C 23/00* ( 2006.01 )  
*E02F 3/28* ( 2006.01 )  
*E02F 3/30* ( 2006.01 )  
*E02F 3/36* ( 2006.01 )  
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 (11) AU-A-2022235575  
 (21) 2022235575 (22) 21.09.2022  
 (54) A PORTABLE TRAP  
 (51) Int. Cl.  
*A01M 23/20* ( 2006.01 )  
*A01M 31/00* ( 2006.01 )  
*G03B 29/00* ( 2021.01 )  
*G08B 13/189* ( 2006.01 )  
*G08B 13/196* ( 2006.01 )  
*G08B 25/00* ( 2006.01 )  
*H04N 7/18* ( 2006.01 )  
*G06V 40/10* ( 2022.01 )  
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 (11) AU-A-2023201141  
 (21) 2023201141 (22) 24.02.2023  
 (54) Sheet transitioning in spiral formed structures  
 (51) Int. Cl.  
*B21C 37/18* ( 2006.01 )  
*B21C 37/06* ( 2006.01 )  
*B21C 37/08* ( 2006.01 )  
*B21C 37/083* ( 2006.01 )  
*B21C 37/12* ( 2006.01 )  
*B21C 37/14* ( 2006.01 )  
 (43) 06.04.2023  
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 (74) AJ PARK
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- (71) Kite Pharma, Inc  
 (11) AU-A-2023201286  
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 (54) Chimeric antigen receptor therapy T cell expansion kinetics and uses thereof  
 (51) Int. Cl.  
*C07K 16/28* ( 2006.01 )  
*A61K 35/17* ( 2015.01 )  
*A61K 39/00* ( 2006.01 )  
*C07K 14/725* ( 2006.01 )  
*G01N 33/50* ( 2006.01 )  
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 (74) FPA Patent Attorneys Pty Ltd
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 (11) AU-A-2022228210  
 (21) 2022228210 (22) 09.09.2022  
 (54) PROCESS FOR PRODUCING SYNTHESIS GAS WITH REDUCED STEAM EXPORT  
 (51) Int. Cl.  
*C01B 3/38* ( 2006.01 )  
*B01J 8/02* ( 2006.01 )  
*B01J 8/06* ( 2006.01 )  
*B01J 12/00* ( 2006.01 )  
*C01B 3/32* ( 2006.01 )  
 (31) 21020475.6 (32) 22.09.21 (33) EP  
 (43) 06.04.2023  
 (72) David, Marion; Galliot, Charline; Schmid-McGuinness, Teja  
 (74) Madderns Pty Ltd
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 (11) AU-A-2023201194  
 (21) 2023201194 (22) 28.02.2023  
 (54) Wall Cladding, Panel and Assembly  
 (51) Int. Cl.  
*E04F 13/08* ( 2006.01 )  
*B32B 15/18* ( 2006.01 )  
*E04B 1/94* ( 2006.01 )  
 (43) 06.04.2023  
 (62) 2023200683  
 (72) LEE, Walter  
 (74) Intelpro Patent & Trade Mark Attorneys
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- (71) LEIDOS SECURITY DETECTION & AUTOMATION, INC.  
 (11) AU-A-2023201238  
 (21) 2023201238 (22) 01.03.2023  
 (54) SYSTEMS AND METHODS FOR IMAGE PROCESSING  
 (51) Int. Cl.  
*G06F 18/214* ( 2023.01 )  
*G06N 3/08* ( 2023.01 )  
*G06T 7/73* ( 2017.01 )  
*G06V 20/00* ( 2022.01 )  
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 (72) Perticone, David; Foland, Andrew D.  
 (74) RnB IP Pty Ltd

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 (11) AU-A-2022228128  
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 (54) WALL ARRANGEMENT  
 (51) Int. Cl.  
*E04B 2/88* ( 2006.01 )  
*E04B 1/41* ( 2006.01 )  
*E04B 2/02* ( 2006.01 )  
*E04B 2/30* ( 2006.01 )  
 (31) 21198547.8 (32) 23.09.21 (33) EP  
 (43) 06.04.2023  
 (72) Stegemann, Michael; Velasquez, Diego; Roik, Michael; Evans, Paul  
 (74) Madderns Pty Ltd

(71) LG Electronics Inc.  
 (11) AU-A-2023201411  
 (21) 2023201411 (22) 07.03.2023  
 (54) CLOTHING TREATMENT APPARATUS AND CONTROL METHOD THEREFOR  
 (51) Int. Cl.  
*D06F 58/30* ( 2020.01 )  
*D06F 58/20* ( 2006.01 )  
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*H04L 9/40* ( 2022.01 )  
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 ORING AN EXHAUST AFTERTREAT-  
 MENT SYSTEM  
 (51) Int. Cl.  
*F01N 11/00* ( 2006.01 )  
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H04N 19/119 ( 2014.01 )  
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G06F 1/16 ( 2006.01 )  
G06Q 20/00 ( 2012.01 )  
G06Q 20/04 ( 2012.01 )  
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A61K 38/21 ( 2006.01 )  
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C05G 5/00 ( 2020.01 )  
C08L 97/02 ( 2006.01 )  
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E04B 2/84 ( 2006.01 )  
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B60K 23/04 ( 2006.01 )  
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**H01H 9/02** ( 2006.01 )  
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**H01R 13/50** ( 2006.01 )  
**H02G 3/14** ( 2006.01 )  
 (43) 06.04.2023  
 (62) 2020200096  
 (72) Caillebotte, Marie; Gransbury, Kenneth Basil  
 (74) Madderns Pty Ltd

(71) Seagen, Inc.  
 (11) AU-A-2023201373  
 (21) 2023201373 (22) 06.03.2023  
 (54) Hydrophilic antibody-drug conjugates  
 (51) Int. Cl.  
**A61K 38/08** ( 2019.01 )  
 (43) 06.04.2023  
 (62) 2020239744  
 (72) DORONINA, Svetlana; LYON, Robert; SENTER, Peter  
 (74) Spruson & Ferguson

(71) Sealy Technology, LLC  
 (11) AU-A-2023201269  
 (21) 2023201269 (22) 01.03.2023  
 (54) Open coil spring assemblies  
 (51) Int. Cl.  
**A47C 23/05** ( 2006.01 )  
**A47C 23/043** ( 2006.01 )  
 (43) 06.04.2023  
 (62) 2017377031  
 (72) DEMOSS, Larry K.; MANUSZAK, Brian M.; TAR, Kevin M.; THOMAS, Darin T.; GREEN, Daniel W.; JUST, Morrison J.  
 (74) Spruson & Ferguson

(71) Sears, M.  
 (11) AU-A-2022231766  
 (21) 2022231766 (22) 16.09.2022

(54) A LOWER LEG STRENGTHENING DEVICE AND METHOD OF USE THEREOF  
 (51) Int. Cl.  
**A63B 21/00** ( 2006.01 )  
**A63B 23/035** ( 2006.01 )  
**A63B 21/065** ( 2006.01 )  
**A63B 23/08** ( 2006.01 )  
 (31) 2021903028 (32) 21.09.21 (33) AU  
 (43) 06.04.2023  
 (72) Sears, Michael  
 (74) KINGS PATENT & TRADE MARKS ATTORNEYS PTY LTD

(71) Sense Biodetection Limited  
 (11) AU-A-2023201422  
 (21) 2023201422 (22) 07.03.2023  
 (54) NUCLEIC ACID DETECTION METHOD  
 (51) Int. Cl.  
**C12Q 1/683** ( 2018.01 )  
**C12Q 1/6834** ( 2018.01 )  
 (43) 06.04.2023  
 (62) 2019311340  
 (72) LAMBLE, Henry John; LLOYD, David  
 (74) Pearce IP Pty Ltd

(71) SenseTime International Pte. Ltd.  
 (11) AU-A-2021240183  
 (21) 2021240183 (22) 27.09.2021  
 (54) Object information management method, apparatus and device, and storage medium  
 (51) Int. Cl.  
**G06F 16/20** ( 2019.01 )  
 (31) 10202110506Q (32) 22.09.21 (33) SG  
 (43) 06.04.2023  
 (72) WU, Jinyi  
 (74) FB Rice Pty Ltd

(71) SenseTime International Pte. Ltd.  
 (11) AU-A-2021240190  
 (21) 2021240190 (22) 27.09.2021  
 (54) Object sequence recognition method, network training method, apparatuses, device, and medium  
 (51) Int. Cl.  
**G06K 9/00** ( 2022.01 )  
**A63F 13/45** ( 2014.01 )  
 (31) 10202110489U (32) 22.09.21 (33) SG  
 (43) 06.04.2023  
 (72) CHEN, Jinghuan; MA, Jiabin  
 (74) FB Rice Pty Ltd

(71) SenseTime International Pte. Ltd.  
 (11) AU-A-2021240212  
 (21) 2021240212 (22) 27.09.2021  
 (54) Object sequence recognition method, network training method, apparatuses, device, and medium  
 (51) Int. Cl.  
**G06K 9/00** ( 2006.01 )  
 (31) 10202110495U (32) 22.09.21 (33) SG  
 (43) 06.04.2023  
 (72) CHEN, Jinghuan; MA, Jiabin  
 (74) FB Rice Pty Ltd

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(71) SenseTime International Pte. Ltd.  
 (11) AU-A-2021240228  
 (21) 2021240228 (22) 27.09.2021  
 (54) Method, apparatus and device for recognizing stacked objects, and computer storage medium  
 (51) Int. Cl.  
**G06K 9/62** ( 2006.01 )  
 (31) 10202110412V (32) 21.09.21 (33) SG  
 (43) 06.04.2023  
 (72) CHEN, Jinghuan; CHEN, Kaige  
 (74) FB Rice Pty Ltd

(71) SenseTime International Pte. Ltd.  
 (11) AU-A-2021240272  
 (21) 2021240272 (22) 26.09.2021  
 (54) Image generating methods and apparatuses, and detecting methods and apparatuses  
 (51) Int. Cl.  
**G06K 9/00** ( 2006.01 )  
**A63F 1/00** ( 2006.01 )  
 (31) 10202110575V (32) 23.09.21 (33) SG  
 (43) 06.04.2023  
 (72) CHEN, Jinghuan; LIU, Chunya; ZHANG, Xuesen; WANG, Bairun  
 (74) Madderns Pty Ltd

(71) SenseTime International Pte. Ltd.  
 (11) AU-A-2021240278  
 (21) 2021240278 (22) 24.09.2021  
 (54) Face identification methods and apparatuses  
 (51) Int. Cl.  
**G06K 9/00** ( 2006.01 )  
 (31) 10202110328W (32) 20.09.21 (33) SG  
 (43) 06.04.2023  
 (72) MA, Jiabin; LIU, Chunya; CHEN, Jinghuan; WU, Jinyi  
 (74) Madderns Pty Ltd

(71) SMALL, W.  
 (11) AU-A-2021236429  
 (21) 2021236429 (22) 20.09.2021  
 (54) Step Definition System  
 (51) Int. Cl.  
**E04F 11/16** ( 2006.01 )  
**E04C 2/42** ( 2006.01 )  
**E04F 11/104** ( 2006.01 )  
**E04F 11/112** ( 2006.01 )  
 (43) 06.04.2023  
 (72) SMALL, William  
 (74) Wallington-Dummer

(71) Snap-on Incorporated  
 (11) AU-A-2023201362  
 (21) 2023201362 (22) 06.03.2023  
 (54) System and method for measuring torque and angle  
 (51) Int. Cl.  
**B25B 23/159** ( 2006.01 )  
**B25B 23/142** ( 2006.01 )  
**G01L 5/24** ( 2006.01 )

(43) 06.04.2023  
 (62) 2021201994  
 (72) KING, Jerry A.; LEE, Nathan J.; REYNERTSON, John L.; BAUER, Stephen M.; LI, Jie  
 (74) Griffith Hack

(71) Snap-on Incorporated  
 (11) AU-A-2023201577  
 (21) 2023201577 (22) 14.03.2023  
 (54) ADJUSTABLE PLIERS  
 (51) Int. Cl.  
**B25B 7/10** ( 2006.01 )  
**B25B 7/12** ( 2006.01 )  
**B25B 13/22** ( 2006.01 )

(43) 06.04.2023  
 (62) 2021201297  
 (72) DOYLE, David T.; FREY, Jason A.; GUPTA, Anup A.  
 (74) Griffith Hack

(71) SOLTEC AMERICA, LLC  
 (11) AU-A-2023201322  
 (21) 2023201322 (22) 03.03.2023  
 (54) SOLAR TRACKER HAVING A BID-DIRECTIONAL LIMIT SWITCH DEVICE  
 (51) Int. Cl.  
**H02S 20/32** ( 2014.01 )  
 (43) 06.04.2023  
 (62) 2018202686  
 (72) CHAOUKI ALMAGRO, Samir; CASTEJÓN MUÑOZ, Javier; FERNÁNDEZ LUQUE, Francisco Jesús  
 (74) Fraser Old & Sohn

(71) Sony Corporation  
 (11) AU-A-2023201334  
 (21) 2023201334 (22) 03.03.2023  
 (54) Information processing apparatus and information processing method  
 (51) Int. Cl.  
**G10L 19/00** ( 2013.01 )  
**G11B 20/12** ( 2006.01 )  
**G11B 27/00** ( 2006.01 )  
**H04N 21/439** ( 2011.01 )  
 (43) 06.04.2023  
 (62) 2020289874  
 (72) HIRABAYASHI, Mitsuhiro; YAMAMOTO, Yuki; CHINEN, Toru; SHI, Runyu  
 (74) Spruson & Ferguson

(71) SparkLauncher Pty Ltd  
 (11) AU-A-2021232754  
 (21) 2021232754 (22) 24.08.2021  
 (54) Eyewear  
 (51) Int. Cl.  
**G02C 3/02** ( 2006.01 )  
**A42B 1/247** ( 2021.01 )  
**G02C 5/20** ( 2006.01 )  
**G02C 11/00** ( 2006.01 )  
 (43) 06.04.2023  
 (72) Robb, Millie Sze Lai  
 (74) Griffith Hack

(71) Splunk Inc.  
 (11) AU-A-2023201395  
 (21) 2023201395 (22) 07.03.2023  
 (54) DATA STREAM PROCESSING LANGUAGE FOR ANALYZING INSTRUMENTED SOFTWARE  
 (51) Int. Cl.  
**G06F 11/08** ( 2006.01 )  
**G06F 11/26** ( 2006.01 )  
 (43) 06.04.2023  
 (62) 2021201512  
 (72) Mukherji, Arijit; Liu, Phillip; Raman, Rajesh; Grandy, Kris  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

**State Grid Blockchain Technology (Beijing) Co., Ltd. see State Grid Corporation of China**  
 (21) 2022312942

(71) State Grid Corporation of China; State Grid Blockchain Technology (Beijing) Co., Ltd.; Beijing Power Exchange Center Co., Ltd.; State Grid Digital Technology Holding Co., Ltd.; Jiangxi Power Exchange Center Co., Ltd.; Liaoning Power Exchange Center Co., Ltd.; East Inner Mongolia Power Exchange Center Company Ltd.  
 (11) AU-A-2022312942  
 (21) 2022312942 (22) 19.08.2022  
 (54) Blockchain-based green power certification method, apparatus, and system  
 (51) Int. Cl.  
**H04L 9/08** ( 2006.01 )  
 (31) 202111104003.6 (32) 22.09.21 (33) CN  
 (43) 06.04.2023  
 (72) XIE, Kai; WANG, Dong; ZHANG, Xian; WANG, Hejian; LI, Da; XIE, Wen; JI, Shijie; LIU, Yonghui; ZHANG, Nan; XUAN, Jiaying; SUN, Tian; BAI, Desheng; ZHANG, Shengnan; LI, Xin; CHEN, Gang; JIA, Haiqing; ZHANG, Zhe; LIANG, Hexiao; LI, Qingchun; FAN, Kun; LU, Shengzhi; YANG, Chao; ZHAO, Liang; FENG, Jingli; JIA, Fan; XING, Tong; ZHAO, Lihua; LI, Guomin; SU, Zhan  
 (74) Madderns Pty Ltd

**State Grid Digital Technology Holding Co., Ltd. see State Grid Corporation of China**  
 (21) 2022312942

(71) Stratatech Corporation  
 (11) AU-A-2023201176  
 (21) 2023201176 (22) 28.02.2023  
 (54) TISSUE CONTAINER SYSTEMS  
 (51) Int. Cl.  
**A01N 1/02** ( 2006.01 )  
**A61J 1/05** ( 2006.01 )  
**B65D 6/00** ( 2006.01 )  
**B65D 21/02** ( 2006.01 )  
**B65D 85/50** ( 2006.01 )  
**C12M 3/00** ( 2006.01 )  
**C12N 5/07** ( 2010.01 )

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 (62) 2018211945  
 (72) Koepsel, Justin; Gratz, Ken  
 (74) PHILLIPS ORMONDE FITZPATRICK

(71) STRYKER EUROPEAN OPERATIONS HOLDINGS LLC

(11) AU-A-2023201253  
 (21) 2023201253 (22) 01.03.2023  
 (54) SPINAL IMPLANTS  
 (51) Int. Cl.  
 A61F 2/44 (2006.01)  
 A61F 2/46 (2006.01)

(43) 06.04.2023  
 (62) 2020273374  
 (72) MILZ, Bryan D.; ALHEIDT, Thomas A.; CETRANGOL, Jessica; SCHULTZ, Christian Karl; STEINKE, Jason; WIL-LIS, Steven; CIPOLETTI, Robert; JUCHNO, Brad; BUSH Jr., Charles L.

(74) IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

(71) Synlogic Operating Company, Inc.  
 (11) AU-A-2023201271  
 (21) 2023201271 (22) 01.03.2023  
 (54) Bacteria for the treatment of disorders  
 (51) Int. Cl.

C12N 9/06 (2006.01)  
 A61K 35/74 (2015.01)  
 C07K 14/005 (2006.01)  
 C07K 14/245 (2006.01)  
 C12N 9/88 (2006.01)

(43) 06.04.2023  
 (62) 2018290278  
 (72) Falb, Dean; Fisher, Adam B.; Isabella, Vincent M.; Kotula, Jonathan W.; Lubkowitz, David; Miller, Paul F.; Millet, Yves; Rowe, Sarah Elizabeth  
 (74) ALLENS PATENT & TRADE MARK ATTORNEYS

(71) TAE Technologies, Inc.  
 (11) AU-A-2023201218  
 (21) 2023201218 (22) 28.02.2023  
 (54) SYSTEMS AND METHODS FOR IMPROVED SUSTAINMENT OF A HIGH PERFORMANCE FRC WITH MULTI-SCALED CAPTURE TYPE VACUUM PUMPING

(51) Int. Cl.  
 G21B 1/05 (2006.01)  
 H01J 7/24 (2006.01)

(43) 06.04.2023  
 (62) 2017355652  
 (72) Van Drie, Alan  
 (74) AJ PARK

(71) Techtronic Cordless GP  
 (11) AU-A-2022228115  
 (21) 2022228115 (22) 07.09.2022  
 (54) Handheld electric tool and motor assembly for electric tool  
 (51) Int. Cl.  
 A01G 3/037 (2006.01)  
 A01G 3/053 (2006.01)  
 A01G 3/06 (2006.01)

H02K 5/04 (2006.01)  
 H02K 7/14 (2006.01)  
 H02K 9/06 (2006.01)

(31) 20211106994.1 (32) 22.09.21 (33) CN  
 (43) 06.04.2023  
 (72) FAN, Hua; LIU, Jie; PENG, Zhigang  
 (74) Spruson & Ferguson

(71) Techtronic Cordless GP  
 (11) AU-A-2022231760  
 (21) 2022231760 (22) 15.09.2022  
 (54) Battery pack  
 (51) Int. Cl.

H01M 10/658 (2014.01)  
 H01M 10/6235 (2014.01)  
 H01M 50/204 (2021.01)  
 H01M 50/233 (2021.01)  
 H01M 50/244 (2021.01)  
 H01M 50/247 (2021.01)  
 H01M 50/262 (2021.01)  
 H05K 1/02 (2006.01)  
 H05K 1/18 (2006.01)

(31) 17/478,623 (32) 17.09.21 (33) US  
 (43) 06.04.2023  
 (72) BRYAN, Frederick W.; STRICKLAND, Blake; THOMPSON, Michael MacQuil-lan; NEMSHON, Michael  
 (74) Spruson & Ferguson

(71) Tempest Therapeutics, Inc.  
 (11) AU-A-2023201228  
 (21) 2023201228 (22) 28.02.2023  
 (54) Bicyclic carboxamides and methods of use thereof  
 (51) Int. Cl.

C07D 231/56 (2006.01)  
 A61K 31/404 (2006.01)  
 A61P 35/00 (2006.01)  
 C07D 209/08 (2006.01)  
 C07D 401/10 (2006.01)  
 C07D 403/10 (2006.01)  
 C07D 405/04 (2006.01)  
 C07D 405/12 (2006.01)  
 C07D 413/10 (2006.01)  
 C07D 471/04 (2006.01)

(43) 06.04.2023  
 (62) 2019255717  
 (72) BRAVO, Yalda; CHEN, Austin Chih-Yu; DING, Jinyue; GOMEZ, Robert; LAM, Heather; NAGAMIZO, Joe Fred; OBALLA, Renata Marcella; POWELL, David Andrew; SHENG, Tao  
 (74) FB Rice Pty Ltd

(71) Tencent America LLC  
 (11) AU-A-2023201230  
 (21) 2023201230 (22) 28.02.2023  
 (54) Signaling of Coding Tools for Encoding a Video Component as Monochrome Video  
 (51) Int. Cl.

H04N 11/02 (2006.01)  
 (43) 06.04.2023  
 (62) 2020371551  
 (72) AUYEUNG, Cheung; LI, Xiang; LIU, Shan  
 (74) Golja Haines & Friend

(71) Tencent America LLC  
 (11) AU-A-2023201375  
 (21) 2023201375 (22) 06.03.2023  
 (54) SIGNALING OF ADAPTIVE PICTURE SIZE IN VIDEO BITSTREAM  
 (51) Int. Cl.  
 H04N 19/00 (2014.01)

(43) 06.04.2023  
 (62) 2020234957  
 (72) Wenger, Stephan; Choi, Byeongdo; Liu, Shan  
 (74) PHILLIPS ORMONDE FITZPATRICK

(71) Tencent America LLC  
 (11) AU-A-2023201381  
 (21) 2023201381 (22) 06.03.2023  
 (54) Signaling for Reference Picture Resampling  
 (51) Int. Cl.  
 H04N 19/59 (2014.01)

(43) 06.04.2023  
 (62) 2020301123  
 (72) CHOI, Byeongdo; WENGER, Stephan; LIU, Shan  
 (74) Golja Haines & Friend

(71) TGS-NOPEC Geophysical Company  
 (11) AU-A-2023201435  
 (21) 2023201435 (22) 08.03.2023  
 (54) Dynamic gain adjustments in seismic surveys  
 (51) Int. Cl.

G01V 1/38 (2006.01)  
 (43) 06.04.2023  
 (62) 2017224136  
 (72) BERNITSAS, Nikolaos; CALDERON, Carlos; RIDYARD, David; BROOKES, David  
 (74) Spruson & Ferguson

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

(71) The ESAB Group Inc.  
 (11) AU-A-2022228168  
 (21) 2022228168 (22) 08.09.2022  
 (54) FLUIDIC ROUTING STRUCTURES FOR LIQUID COOLING OF POWER MODULES OF POWER SUPPLIES  
 (51) Int. Cl.  
 H01L 23/473 (2006.01)

H05K 7/14 (2006.01)  
 (31) 17/482,534 (32) 23.09.21 (33) US  
 (43) 06.04.2023  
 (72) Schreiber, Wilson Alexander  
 (74) DAVIS IP PTY LTD

(71) THE MENOPAUSE METHOD, INC.  
 (11) AU-A-2021236517  
 (21) 2021236517 (22) 23.09.2021  
 (54) COMPOSITION AND METHOD TO AID IN HORMONE REPLACEMENT THERAPY  
 (51) Int. Cl.

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**A61K 31/57** ( 2006.01 )  
**A61K 9/00** ( 2006.01 )  
**A61K 9/10** ( 2006.01 )  
**A61K 31/565** ( 2006.01 )  
**A61K 31/568** ( 2006.01 )  
**A61K 31/5685** ( 2006.01 )  
**A61K 47/44** ( 2017.01 )  
**A61K 47/46** ( 2006.01 )  
**A61P 5/26** ( 2006.01 )  
**A61P 5/30** ( 2006.01 )  
**A61P 5/34** ( 2006.01 )

(43) 06.04.2023

(72) Rosensweet, Daved; Rosensweet,

Joshua B

(74) AJ PARK

**The United States of America, as represented by the Secretary Department of Health and Human Services see Regents of the University of Minnesota**

(21) 2023201224

(71) Three Peaks Medical Pty Ltd

(11) AU-A-2023201186

(21) 2023201186 (22) 28.02.2023

(54) Adjustable Sheath Device (2)

(51) Int. Cl.

**A61M 25/01** ( 2006.01 )

(43) 06.04.2023

(62) 2019343639

(72) WORTHLEY, Stephen; NICHOLSON, James; BELCHER, Simon

(74) CHILIAD CONSULTING PTY LTD

(71) Ticketmaster

(11) AU-A-2023201296

(21) 2023201296 (22) 02.03.2023

(54) Apparatus and methods for providing queue messaging over a network

(51) Int. Cl.

**G06Q 30/00** ( 2023.01 )

(43) 06.04.2023

(62) 2021201564

(72) SUSSMAN, Adam; BENNETT, Robert; DENKER, Dennis

(74) Spruson & Ferguson

(71) Tieluk B.V.

(11) AU-A-2021232822

(21) 2021232822 (22) 17.09.2021

(54) Hot water installation and method for heating water

(51) Int. Cl.

**C25B 1/04** ( 2021.01 )

**C25B 9/73** ( 2021.01 )

**F02M 25/00** ( 2006.01 )

**F24D 19/10** ( 2006.01 )

**F24H 1/00** ( 2006.01 )

**F24H 9/20** ( 2006.01 )

(43) 06.04.2023

(72) Lukkes, Tienus

(74) Spruson & Ferguson

(71) TI-Holdings B.V.

(11) AU-A-2021229172

(21) 2021229172 (22) 25.08.2021

(54) Thermal Inverter Box

(51) Int. Cl.

**C01B 3/04** ( 2006.01 )

**B01J 3/00** ( 2006.01 )

**C01B 13/02** ( 2006.01 )

**B01D 53/24** ( 2006.01 )

**B04C 3/00** ( 2006.01 )

**B04C 3/04** ( 2006.01 )

(43) 06.04.2023

(72) KOEKKOEK, Rudolf; VECHIK, Terence

(74) Spruson & Ferguson

**Tobul, E.N. see Tobul, E.E.**

(21) 2022231754

(71) Tobul, E.E.; Tobul, E.N.

(11) AU-A-2022231754

(21) 2022231754 (22) 15.09.2022

(54) Event interface for multiple events including at least one random event

(51) Int. Cl.

**A63F 5/00** ( 2006.01 )

**A63F 13/50** ( 2014.01 )

**G07F 17/34** ( 2006.01 )

(31) 63/245,867 (32) 19.09.21 (33) US

(43) 06.04.2023

(72) Tobul, Eran Eliyahu; Tobul, Ethan Noah

(74) LAMINAR IP PTY LTD

(71) Transportation IP Holdings, LLC

(11) AU-A-2022228144

(21) 2022228144 (22) 08.09.2022

(54) ASSEMBLY AND METHOD FOR BATTERY MAINTENANCE

(51) Int. Cl.

**B60L 58/18** ( 2019.01 )

**B60L 50/60** ( 2019.01 )

**H01M 50/249** ( 2021.01 )

**H01R 13/04** ( 2006.01 )

**H01R 13/62** ( 2006.01 )

**H01R 13/64** ( 2006.01 )

**H01R 31/06** ( 2006.01 )

**H02B 1/20** ( 2006.01 )

**H02B 1/26** ( 2006.01 )

(31) 17/478,470 (32) 17.09.21 (33) US

(43) 06.04.2023

(72) Bradley, Neil; Kumar, Ajith Kuttannair; Plott, Micah

(74) PHILLIPS ORMONDE FITZPATRICK

(71) Trudeau, L.

(11) AU-A-2023201332

(21) 2023201332 (22) 03.03.2023

(54) Portable foam brush

(51) Int. Cl.

**A46B 11/00** ( 2006.01 )

**A46B 11/02** ( 2006.01 )

**A47L 11/40** ( 2006.01 )

**B08B 3/00** ( 2006.01 )

(43) 06.04.2023

(62) 2017302593

(72) Trudeau, Leon

(74) Griffith Hack

(71) Trudeau, L.

(11) AU-A-2023201368

(21) 2023201368 (22) 06.03.2023

(54) Portable foam brush

(51) Int. Cl.

**A46B 11/00** ( 2006.01 )

**A46B 11/02** ( 2006.01 )

**A47L 11/40** ( 2006.01 )

**B08B 3/00** ( 2006.01 )

(43) 06.04.2023

(62) 2017302593

(72) Trudeau, Leon

(74) Griffith Hack

(71) True Manufacturing Co., Inc.

(11) AU-A-2022231689

(21) 2022231689 (22) 13.09.2022

(54) Refrigerator cabinet

(51) Int. Cl.

**A47B 91/02** ( 2006.01 )

**A47F 3/04** ( 2006.01 )

**F25D 23/00** ( 2006.01 )

**F25D 23/10** ( 2006.01 )

(31) 17/480,827 (32) 21.09.21 (33) US

(43) 06.04.2023

(72) PIZZI, Christian; PESTKA, Daniel

(74) Spruson & Ferguson

(71) Ulab Systems, Inc.

(11) AU-A-2023201418

(21) 2023201418 (22) 07.03.2023

(54) Orthodontic planning systems

(51) Int. Cl.

**A61C 7/00** ( 2006.01 )

**A61C 7/08** ( 2006.01 )

(43) 06.04.2023

(62) 2017382624

(72) Wen, Huafeng

(74) Griffith Hack

(71) Underwood Companies Holdings Pty Ltd

(11) AU-A-2023201247

(21) 2023201247 (22) 01.03.2023

(54) Open Loop Connector

(51) Int. Cl.

**F15B 1/02** ( 2006.01 )

(43) 06.04.2023

(62) 2021307473

(72) UNDERWOOD, Daniel Charles

(74) Intellectro Patent & Trade Mark Attorneys

(71) University of Maryland, Baltimore; Breethe, Inc.

(11) AU-A-2023201261

(21) 2023201261 (22) 01.03.2023

(54) Artificial lung system and its methods of use

(51) Int. Cl.

**A61M 1/14** ( 2006.01 )

**A61M 1/36** ( 2006.01 )

(43) 06.04.2023

(62) 2020267243

(72) Wu, Zhongjun; Griffith, Bartley; Wells, David N.

(74) Griffith Hack

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- (71) Unverferth Manufacturing Company, Inc.  
 (11) AU-A-2022235596  
 (21) 2022235596 (22) 22.09.2022  
 (54) Convertible Left Upload and Right Unload Auger System for a Farm Implement  
 (51) Int. Cl.  
**A01D 90/10** ( 2006.01 )  
**A01F 12/46** ( 2006.01 )  
**B65G 33/12** ( 2006.01 )  
**B65G 33/14** ( 2006.01 )  
**B65G 33/34** ( 2006.01 )  
**B65G 65/02** ( 2006.01 )  
 (31) 17/482,099 (32) 22.09.21 (33) US  
 (43) 06.04.2023  
 (72) SCHLIMGEN, Ronald; NELSON, August  
 (74) WRAYS PTY LTD
- 
- (71) Vale S.A.  
 (11) AU-A-2022201537  
 (21) 2022201537 (22) 04.03.2022  
 (54) Process of obtaining powdered sodium silicate from sandy tailings originated from the iron ore concentration process, use of the sodium silicate, and sodium silicate  
 (51) Int. Cl.  
**C04B 7/22** ( 2006.01 )  
**B09B 3/80** ( 2022.01 )  
**C01B 33/26** ( 2006.01 )  
**C01B 33/32** ( 2006.01 )  
**C04B 7/43** ( 2006.01 )  
**C04B 14/04** ( 2006.01 )  
**C04B 28/26** ( 2006.01 )  
 (31) BR132021018870-6(32) 22.09.21 (33) BR  
 (43) 06.04.2023  
 (72) VOGT, Jordanna Chamon; LAMEIRAS, Fernando Soares; LACERDA DE MENEZES, Mariana Figueira; BARBOSA, Carlos Henrique Constante; YAMAMOTO, Mauro Fumio; SILVA, Fabiano Dos Santos; CAVALLACANTI, Pedro Porto Silva; BOECHAT, Fernando Oliveira  
 (74) Spruson & Ferguson
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- (71) Vericool, Inc.  
 (11) AU-A-2023201413  
 (21) 2023201413 (22) 07.03.2023  
 (54) SHIPPING CONTAINER WITH COMPOSTABLE INSULATION  
 (51) Int. Cl.  
**B65D 81/38** ( 2006.01 )  
**B31B 50/81** ( 2017.01 )  
**B65D 5/56** ( 2006.01 )  
**B65D 5/64** ( 2006.01 )  
 (43) 06.04.2023  
 (62) 2017240890  
 (72) Jobe, Darrell  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd
- 
- (71) Vertex Pharmaceuticals Incorporated  
 (11) AU-A-2023201404  
 (21) 2023201404 (22) 07.03.2023
- (54) MODULATORS OF CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR  
 (51) Int. Cl.  
**C07D 209/18** ( 2006.01 )  
**A01N 41/06** ( 2006.01 )  
**A61K 31/18** ( 2006.01 )  
 (43) 06.04.2023  
 (62) 2020220185  
 (72) Miller, Mark Thomas; Anderson, Corey; Arumugam, Vijayalaksmi; Bear, Brian Richard; Binch, Hayley Marie; Clemens, Jeremy J.; Cleveland, Thomas; Conroy, Erica; Coon, Timothy Richard; Frieman, Bryan A.; Grootenhuis, Peter Diederik Jan; Gross, Raymond Stanley; Hadida-Ruah, Sara Sabina; Khatuya, Haripada; Joshi, Pramod Virupax; Krenitsky, Paul John; Lin, Chun-Chieh; Marelus, Gulin Erdogan; Melillo, Vito; McCartney, Jason; Nicholls, Georgia McGaughey; Pierre, Fabrice Jean Denis; Silina, Alina; Termin, Andreas P.; Uy, Johnny; Zhou, Jinglan  
 (74) AJ PARK
- 
- (71) View, Inc.  
 (11) AU-A-2023201196  
 (21) 2023201196 (22) 28.02.2023  
 (54) Control method for tintable windows  
 (51) Int. Cl.  
**G02F 1/163** ( 2006.01 )  
**E06B 9/24** ( 2006.01 )  
**G05B 15/02** ( 2006.01 )  
 (43) 06.04.2023  
 (62) 2017376447  
 (72) ZEDLITZ, Jason; KLAUWUHN, Erich R.; BROWN, Stephen Clark  
 (74) Spruson & Ferguson
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- (71) View, Inc.  
 (11) AU-A-2023201415  
 (21) 2023201415 (22) 07.03.2023  
 (54) Controller for optically-switchable windows  
 (51) Int. Cl.  
**G02F 1/15** ( 2019.01 )  
**E06B 9/24** ( 2006.01 )  
**G09G 5/00** ( 2006.01 )  
 (43) 06.04.2023  
 (62) 2020273368  
 (72) BROWN, Stephen C.  
 (74) Spruson & Ferguson
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- (71) View, Inc.  
 (11) AU-A-2023201421  
 (21) 2023201421 (22) 07.03.2023  
 (54) Thin-film devices and fabrication  
 (51) Int. Cl.  
**H01L 27/14** ( 2006.01 )  
 (43) 06.04.2023  
 (62) 2020250303  
 (72) DIXIT, Abhishek Anant; MARTIN, Todd; PRADHAN, Anshu A.; STRONG, Fabian; ROZBICKI, Robert T.  
 (74) Spruson & Ferguson
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- (71) Vitae Pharmaceuticals, LLC  
 (11) AU-A-2023201387  
 (21) 2023201387 (22) 07.03.2023  
 (54) Inhibitors of ROR gamma  
 (51) Int. Cl.  
**C07D 471/04** ( 2006.01 )  
**A61K 31/437** ( 2006.01 )  
**A61P 29/00** ( 2006.01 )  
 (43) 06.04.2023  
 (62) 2018307928  
 (72) DENG, Chaoyi; HE, Jun; XU, Bo  
 (74) FPA Patent Attorneys Pty Ltd
- 
- (71) W. L. Gore & Associates, Inc.  
 (11) AU-A-2023201243  
 (21) 2023201243 (22) 01.03.2023  
 (54) Telescoping prosthetic valve with retention element  
 (51) Int. Cl.  
**A61F 2/24** ( 2006.01 )  
 (43) 06.04.2023  
 (62) 202023237  
 (72) BURKART, Dustin C.; HARTMAN, Cody L.; TITONE, Ryan S.  
 (74) Griffith Hack
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- (71) Wabash National, L.P.  
 (11) AU-A-2023201211  
 (21) 2023201211 (22) 28.02.2023  
 (54) Composite floor structure with embedded hardpoint connector and method of making the same  
 (51) Int. Cl.  
**B62D 63/08** ( 2006.01 )  
 (43) 06.04.2023  
 (62) 2018220122  
 (72) MCCLOUD, Travis Smith; REICHARD, Ronnal P.; WYLEZINSKI, Andrzej  
 (74) Griffith Hack
- 
- (71) Wiley, W.  
 (11) AU-A-2023201356  
 (21) 2023201356 (22) 03.03.2023  
 (54) Application to determine reading/working distance  
 (51) Int. Cl.  
**G06K 9/00** ( 2022.01 )  
**G06K 9/62** ( 2022.01 )  
 (43) 06.04.2023  
 (62) 2018298089  
 (72) WILEY, William F.  
 (74) Griffith Hack
- 
- (71) Zendesk, Inc.  
 (11) AU-A-2022316517  
 (21) 2022316517 (22) 26.07.2022  
 (54) Split triggers for executing computer operations  
 (51) Int. Cl.  
**H04L 67/10** ( 2022.01 )  
 (31) 17/483,182 (32) 23.09.21 (33) US  
 (43) 06.04.2023  
 (72) BISWAS, Sanjeev Kumar; KHANH, Nguyen Truong; HONG, Ang Yi; KUMAR, Sanjaykrishnan; NAGDEVE, Arpan  
 (74) FB Rice Pty Ltd

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<b>2016200511</b>	CPL Holdings Pty Ltd	<b>2022235575</b>	JW & KM Thompson Pty Ltd
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<b>2021232803</b>	PURNELL, D.	<b>2022312942</b>	State Grid Corporation of China; State Grid Blockchain Technology (Beijing) Co., Ltd.; Beijing Power Exchange Center Co., Ltd.; State Grid Digital Technology Holding Co., Ltd.; Jiangxi Power Exchange Center Co., Ltd.; Liaoning Power Exchange Center Co., Ltd.; East Inner Mongolia Power Exchange Center Company Ltd.
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<b>2021232846</b>	Metrologi Pty Ltd	<b>2022316517</b>	Huawei Technologies Co., Ltd.
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<b>2021236447</b>	OWEN, D.	<b>2023201096</b>	Ecc Tec Msj Incorporated
<b>2021236485</b>	O'Halloran, M.	<b>2023201141</b>	Keystone Tower Systems, Inc.
<b>2021236486</b>	Cyclomedica Australia Pty Limited	<b>2023201158</b>	Avalon HepaPOC Limited
<b>2021236498</b>	Newcrest Mining Limited	<b>2023201174</b>	Australian Plant Proteins Pty Ltd
<b>2021236499</b>	OXTI CORPORATION	<b>2023201176</b>	Stratatech Corporation
<b>2021236504</b>	Incloudme Pty Limited	<b>2023201179</b>	Bond University Ltd
<b>2021236517</b>	THE MENOPAUSE METHOD, INC.	<b>2023201180</b>	Nokia Technologies Oy
<b>2021240183</b>	SenseTime International Pte. Ltd.	<b>2023201182</b>	Arla Foods Amba
<b>2021240190</b>	SenseTime International Pte. Ltd.	<b>2023201183</b>	Dolby International AB
<b>2021240212</b>	SenseTime International Pte. Ltd.	<b>2023201184</b>	PayPal, Inc.
<b>2021240228</b>	SenseTime International Pte. Ltd.	<b>2023201185</b>	BioNTech SE
<b>2021240272</b>	SenseTime International Pte. Ltd.	<b>2023201186</b>	Three Peaks Medical Pty Ltd
<b>2021240278</b>	SenseTime International Pte. Ltd.	<b>2023201187</b>	ICM Airport Technics Pty Ltd
<b>2021266268</b>	Cheung, C.; Plant A Foods Hong Kong Limited	<b>2023201189</b>	Apple Inc.
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		<b>2023201200</b>	Eximis Surgical Inc.
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<b>2022218543</b>	Deere & Company	<b>2023201221</b>	Boston Scientific Neuromodulation Corporation
<b>2022218574</b>	Carl Freudenberg KG	<b>2023201222</b>	Naumcevski, S.
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<b>2022221484</b>	Deere & Company	<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
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<b>2022228168</b>	The ESAB Group Inc.	<b>2023201238</b>	HERO HEALTH, INC.
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<b>2022231793</b>	Aristocrat Technologies, Inc.		
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2023201429	LG Electronics Inc.
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<b>A23J 1 /-</b> 2023201174 2023201182	<b>A61C 7 /-</b> 2023201281 2023201418	<b>A61K 71 /-</b> 2022231677	<b>A63B 21 /-</b> 2022231731 2022231766	<b>B04C 3 /-</b> 2021229172	<b>B60W 10 /-</b> 2023201255
<b>A23J 3 /-</b> 2021266268	<b>A61F 2 /-</b> 2023201242 2023201243 2023201253	<b>A61K 77 /-</b> 2022231766	<b>A63B 23 /-</b> 2022231766	<b>B05B 11 /-</b> 2023201394	<b>B60L 23 /-</b> 2023201365
<b>A23L 11 /-</b> 2023201174	<b>A61F 5 /-</b> 2023201242	<b>A61K 8 /-</b> 2023201277	<b>A63B 71 /-</b> 2022231677	<b>B08B 3 /-</b> 2023201332 2023201368	<b>B60L 25 /-</b> 2023201365
<b>A23L 2 /-</b> 2023201174 2023201182	<b>A61F 9 /-</b> 2022231677	<b>A61K 9 /-</b> 2021236517 2022202053 2023201158 2023201185 2023201219 2023201251 2023201307 2023201348	<b>A63B 29 /-</b> 2023201387	<b>B09B 3 /-</b> 2022201537	<b>B62D 11 /-</b> 2023201255
<b>A23L 29 /-</b> 2021266268	<b>A61J 1 /-</b> 2023201176	<b>A63F 1 /-</b> 2021240272	<b>A63F 13 /-</b> 2021240190 2022231754 2023201250 2023201423	<b>B21C 37 /-</b> 2023201141	<b>B62D 33 /-</b> 2022231712
<b>A23L 33 /-</b> 2021266268 2022228187 2023201174 2023201182				<b>B23Q 3 /-</b> 2023201225	<b>B62D 63 /-</b> 2023201211
				<b>B23Q 7 /-</b> 2023201225	<b>B64C 11 /-</b> 2021232803



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<b>B64C 29/-</b> 2021232803	<b>C01F 5/-</b> 2023201430	<b>C07K 14/-</b> 2023201224 2023201271 2023201277 2023201286 2023201289	<b>C12R 1/-</b> 2021420803	<b>E04F 11/-</b> 2021236429	<b>F16L 57/-</b> 2021232846
<b>B64F 1/-</b> 2023201187	<b>C02F 1/-</b> 2022235612		<b>C22B 1/-</b> 2023201231	<b>E04F 13/-</b> 2023201194	<b>F16M 11/-</b> 2021236486
<b>B65D 21/-</b> 2023201176	<b>C02F 103/-</b> 2022235612	<b>C07K 16/-</b> 2023201286 2023201372	<b>C23C 28/-</b> 2023201378	<b>E04G 11/-</b> 2023201291	<b>F16M 13/-</b> 2023201366
<b>B65D 43/-</b> 2022221484	<b>C04B 14/-</b> 2022201537		<b>C25B 1/-</b> 2021232822	<b>E04H 12/-</b> 2022231755	<b>F23R 3/-</b> 2021269311
<b>B65D 45/-</b> 2022221484	<b>C04B 28/-</b> 2022201537	<b>C07K 7/-</b> 2023201277	<b>C25B 9/-</b> 2021232822	<b>E06B 9/-</b> 2023201196 2023201415	<b>F24D 19/-</b> 2021232822
<b>B65D 5/-</b> 2022231677 2023201413	<b>C04B 7/-</b> 2022201537	<b>C08B 15/-</b> 2023201426	<b>D06F 37/-</b> 2023201429	<b>E21C 41/-</b> 2021236498	<b>F24H 1/-</b> 2021232822
<b>B65D 6/-</b> 2023201176	<b>C05G 5/-</b> 2023201254	<b>C08J 7/-</b> 2023201378	<b>D06F 39/-</b> 2023201429	<b>E21C 45/-</b> 2022200669	<b>F24H 4/-</b> 2023201311
<b>B65D 71/-</b> 2023201419	<b>C07D 207/-</b> 2023201399	<b>C08K 3/-</b> 2022235567	<b>D06F 58/-</b> 2023201411	<b>E21D 11/-</b> 2021236498	<b>F24H 9/-</b> 2021232822
<b>B65D 81/-</b> 2023201413	<b>C07D 209/-</b> 2023201228 2023201399 2023201404	<b>C08K 7/-</b> 2022235567	<b>D21C 3/-</b> 2023201426	<b>E21D 20/-</b> 2021236498	<b>F25D 23/-</b> 2022231689
<b>B65D 85/-</b> 2023201176	<b>C07D 231/-</b> 2023201228	<b>C08L 101/-</b> 2022235567	<b>D21C 9/-</b> 2023201426	<b>F01N 11/-</b> 2022231681 2022231684	<b>F28F 9/-</b> 2023201245
<b>B65D 88/-</b> 2023201222	<b>C07D 233/-</b> 2023201399	<b>C08L 97/-</b> 2023201254	<b>D21H 11/-</b> 2023201426	<b>F01N 3/-</b> 2022231681 2022231684 2023201096	<b>F42B 7/-</b> 2022235595
<b>B65D 90/-</b> 2022221484 2023201222	<b>C07D 239/-</b> 2023201399	<b>C09D 5/-</b> 2022235567 2023201378	<b>D21J 3/-</b> 2023201419	<b>F02D 41/-</b> 2022235589	<b>G01B 11/-</b> 2022218543 2023201187
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<b>B65G 15/-</b> 2023201187	<b>C07D 265/-</b> 2023201399	<b>C10J 3/-</b> 2023201338	<b>E02D 19/-</b> 2021236485	<b>F02M 25/-</b> 2021232822	<b>G01B 9/-</b> 2023201187
<b>B65G 33/-</b> 2022235596	<b>C07D 401/-</b> 2023201228 2023201399	<b>C12M 1/-</b> 2023201392	<b>E02D 27/-</b> 2021236485	<b>F15B 1/-</b> 2023201247	<b>G01C 9/-</b> 2022218543
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<b>B66C 23/-</b> 2023201363	<b>C07D 405/-</b> 2023201228 2023201397 2023201399	<b>C12N 1/-</b> 2023201408	<b>E02F 3/-</b> 2022231712 2023201190 2023201222 2023201363	<b>F16B 1/-</b> 2021236486	<b>G01G 11/-</b> 2023201187
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<b>B66F 19/-</b> 2022200669	<b>C07D 413/-</b> 2023201228 2023201399	<b>C12N 5/-</b> 2023201176 2023201179 2023201216 2023201224 2023201589	<b>E04B 1/-</b> 2022228128 2023201194 2023201291	<b>F16B 2/-</b> 2023201366	<b>G01L 5/-</b> 2023201362
<b>B66F 9/-</b> 2022231712	<b>C07D 451/-</b> 2023201397		<b>E04B 2/-</b> 2022228128 2023201291	<b>F16B 25/-</b> 2021232748 2021232749	<b>G01N 33/-</b> 2023201158 2023201286 2023201289
<b>C01B 13/-</b> 2021229172	<b>C07D 471/-</b> 2023201228 2023201387	<b>C12N 9/-</b> 2021420803 2023201271	<b>E04B 5/-</b> 2023201291	<b>F16B 35/-</b> 2021232748	<b>G01S 13/-</b> 2023201360
<b>C01B 3/-</b> 2021229172 2022228210	<b>C07D 487/-</b> 2023201339	<b>C12P 19/-</b> 2021420803	<b>E04C 2/-</b> 2021236429	<b>F16H 48/-</b> 2023201255	<b>G01S 15/-</b> 2023201360
<b>C01B 32/-</b> 2023201430	<b>C07H 19/-</b> 2023201288	<b>C12Q 1/-</b> 2023201422		<b>F16K 31/-</b> 2022221456	<b>G01S 17/-</b> 2022218543 2023201360
<b>C01B 33/-</b> 2022201537				<b>F16L 55/-</b> 2022221456	

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<b>G01V 1 /-</b> 2023201435	<b>G06F 21 /-</b> 2022202270	<b>G06T 7 /-</b> 2022200474	<b>H01L 27 /-</b> 2023201421	2023201428
<b>G02B 27 /-</b> 2022231699	2022228127	2023201238	<b>H01M 10 /-</b> 2022231760	<b>H04N 21 /-</b> 2023201334
2023201266	2022235545	<b>G06V 10 /-</b> 2023201212	<b>H01M 50 /-</b> 2022228144	2023201423
<b>G02B 5 /-</b> 2022231699	<b>G06F 3 /-</b> 2022235545	<b>G06V 20 /-</b> 2023201238	2022231760	<b>H04N 7 /-</b> 2022235575
2023201266	2023201189	<b>G06V 40 /-</b> 2022235575	<b>H01R 13 /-</b> 2022228144	<b>H04W 12 /-</b> 2022202270
<b>G02C 1 /-</b> 2022231677	<b>G06F 30 /-</b> 2022200474	<b>G07C 9 /-</b> 2023201391	2023201260	2023201180
<b>G02C 11 /-</b> 2021232754	<b>G06F 9 /-</b> 2022202270	<b>G07F 17 /-</b> 2022231754	<b>H01R 31 /-</b> 2022228144	<b>H04W 16 /-</b> 2022325173
<b>G02C 3 /-</b> 2021232754	2023201414	2022231793	<b>H02B 1 /-</b> 2022228144	<b>H04W 24 /-</b> 2023201212
<b>G02C 5 /-</b> 2021232754	<b>G06K 9 /-</b> 2021240190	<b>G07G 1 /-</b> 2023201184	<b>H02G 3 /-</b> 2023201260	<b>H04W 4 /-</b> 2022235563
2022231677	2021240212	<b>G08B 13 /-</b> 2022235575	<b>H02H 3 /-</b> 2022228163	2023201275
<b>G02C 7 /-</b> 2022231677	2021240228	<b>G08B 25 /-</b> 2022235575	<b>H02J 13 /-</b> 2023201347	<b>H04W 48 /-</b> 2022215252
<b>G02F 1 /-</b> 2023201196	2021240272	<b>G09G 5 /-</b> 2023201415	<b>H02K 5 /-</b> 2022228115	<b>H04W 72 /-</b> 2022215252
2023201266	2021240278	<b>G10L 15 /-</b> 2023201189	<b>H02K 7 /-</b> 2022228115	<b>H04W 8 /-</b> 2023201180
2023201415	2023201356	<b>G10L 17 /-</b> 2023201189	<b>H02K 9 /-</b> 2022228115	<b>H04W 88 /-</b> 2022215252
<b>G03B 21 /-</b> 2023201266	<b>G06N 20 /-</b> 2022200474	<b>G10L 19 /-</b> 2023201334	<b>H02S 20 /-</b> 2023201322	<b>H05B 6 /-</b> 2023201344
<b>G03B 29 /-</b> 2022235575	2022202270	<b>G10L 21 /-</b> 2023201183	<b>H03B 1 /-</b> 2022221582	<b>H05K 1 /-</b> 2022231760
<b>G05B 15 /-</b> 2023201196	<b>G06N 3 /-</b> 2023201238	2023201212	<b>H03B 27 /-</b> 2022221582	<b>H05K 5 /-</b> 2023201200
<b>G05B 19 /-</b> 2022218543	<b>G06N 99 /-</b> 2023201235	<b>G11B 20 /-</b> 2023201334	<b>H03B 5 /-</b> 2022221582	<b>H05K 7 /-</b> 2022228168
<b>G05D 1 /-</b> 2022218543	<b>G06Q 10 /-</b> 2022202270	<b>G11B 27 /-</b> 2023201334	<b>H04L 12 /-</b> 2022235563	<b>No IPC Mark</b>
2022235563	2022228127	<b>G21B 1 /-</b> 2023201218	2023201347	
<b>G05D 23 /-</b> 2023201200	2022235563	<b>H01F 17 /-</b> 2022221582	<b>H04L 67 /-</b> 2022316517	
<b>G05D 3 /-</b> 2022235563	<b>G06Q 20 /-</b> 2023201187	<b>H01F 7 /-</b> 2023201402	2023201189	
<b>G06F 1 /-</b> 2023201184	<b>G06Q 30 /-</b> 2021236504	<b>H01H 1 /-</b> 2023201260	<b>H04L 9 /-</b> 2022235545	
<b>G06F 11 /-</b> 2022228127	2023201296	<b>H01H 9 /-</b> 2023201260	2022312942	
2023201395	2023201434	<b>H01H 17 /-</b> 2022221582	2023201180	
<b>G06F 15 /-</b> 2022202270	<b>G06Q 40 /-</b> 2023201326	<b>H01H 7 /-</b> 2023201218	<b>H04M 1 /-</b> 2023201250	
<b>G06F 16 /-</b> 2021240183	<b>G06Q 50 /-</b> 2021236504	<b>H01J 7 /-</b> 2023201218	<b>H04N 11 /-</b> 2023201230	
2022204592	2022235563	<b>H01L 23 /-</b> 2022228168	<b>H04N 19 /-</b> 2023201244	
2022228127	2023201187	2023201366	2023201336	
<b>G06F 17 /-</b> 2022228127	2023201223		2023201375	
<b>G06F 18 /-</b> 2023201238	<b>G06Q 99 /-</b> 2022235545		2023201381	
	<b>G06T 11 /-</b> 2023201250			
	<b>G06T 13 /-</b> 2023201250			
	<b>G06T 17 /-</b> 2022200474			
	<b>G06T 5 /-</b> 2022200474			

**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.)

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**(71)** Smart Infrastructure Asset Management Australia Research and Development Pty Ltd

**(11)** AU-A-2017101942

**(21)** 2017101942      **(22)** 03.05.2017

**(54)** Infrastructure Asset Management System and/or Method

**(51)** Int. Cl.

**G06Q 50/08** ( 2012.01 )

**G06N 20/10** ( 2019.01 )

**G06Q 10/04** ( 2023.01 )

**G06Q 10/20** ( 2023.01 )

**(31)** 2016901707      **(32)** 09.05.16 **(33)** AU

**(45)** 06.04.2023

**(72)** Lee, Jaeho

**(74)** Spruson & Ferguson

**Numerical Index**

**2017101942** Smart Infrastructure Asset Management Australia Research and Development Pty Ltd

IPC Index

G06N 20 /-

2017101942

G06Q 10 /-

2017101942

G06Q 50 /-

2017101942

PCT applications which have entered the National Phase

Name Index

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

<p>(71) "Endurosat" Joint Stock Company (11) AU-A-2021338023 (21) 2021338023 (22) 11.02.2021 (54) System for deployable solar panels for nanosatellites (51) Int. Cl. B64G 1/44 ( 2006.01 ) B64G 1/22 ( 2006.01 ) (87) WO2022/047551 (31) 113224 (32) 02.09.20 (33) BG (43) 10.03.2022 (72) ZAHARIEV, Zahari Iliev (74) Griffith Hack</p> <hr/> <p>(71) 10x Genomics, Inc. (11) AU-A-2021345283 (21) 2021345283 (22) 17.09.2021 (54) Sample handling apparatus and image registration methods (51) Int. Cl. G06T 7/33 ( 2017.01 ) C12Q 1/6837 ( 2018.01 ) C12Q 1/6841 ( 2018.01 ) (87) WO2022/061150 (31) 63/080,547 (32) 18.09.20 (33) US 63/155,173 01.03.21 US (43) 24.03.2022 (72) TENTORI, Augusto Manuel; KIM, Hanyoup; XING, Siyuan; BAVA, Felice Alessio; BHARADWAJ, Rajiv; UYT-INGCO, Cedric; GRAZIOSA, Erica (74) Spruson &amp; Ferguson</p> <hr/> <p>(71) 10X Genomics, Inc. (11) AU-A-2021343507 (21) 2021343507 (22) 17.09.2021 (54) Sample handling apparatus and fluid delivery methods (51) Int. Cl. B01L 9/00 ( 2006.01 ) (87) WO2022/061152 (31) 63/080,514 (32) 18.09.20 (33) US 63/106,779 28.10.20 US 63/153,211 24.02.21 US (43) 24.03.2022 (72) TENTORI, Augusto Manuel; KIM, Hanyoup; XING, Siyuan; BHARADWAJ, Rajiv; LIN, Bill Kengli; BAVA, Felice Alessio; ALIMSIJAH, Pratomo Putra; MARINDRA, Hendricus; RUSSELL, Spontaneous Rose McKnight; MIKHAIEL, Nabil (74) Spruson &amp; Ferguson</p> <hr/> <p>(71) 2MH GLAS GMBH (11) AU-A-2021335528 (21) 2021335528 (22) 02.09.2021 (54) Method of increasing the strength and/or hardness of a glass article</p>	<p>(51) Int. Cl. C03C 21/00 ( 2006.01 ) C03B 27/03 ( 2006.01 ) C03C 23/00 ( 2006.01 ) (87) WO2022/049203 (31) LU102043 (32) 03.09.20 (33) LU (43) 10.03.2022 (72) VOLAND, Thomas; HÖNIG, Sabine; GROSS, Martin; HESSENKEMPER, Heiko (74) IP GATEWAY PATENT &amp; TRADE MARK ATTORNEYS PTY LTD</p> <hr/> <p>(71) 2MH GLAS GMBH (11) AU-A-2021335530 (21) 2021335530 (22) 02.09.2021 (54) Regeneration material for regeneration of a salt melt used for a glass toughening and/or glass strengthening process (51) Int. Cl. C03C 21/00 ( 2006.01 ) C03C 3/087 ( 2006.01 ) C03C 3/091 ( 2006.01 ) (87) WO2022/049207 (31) LU102047 (32) 03.09.20 (33) LU (43) 10.03.2022 (72) VOLAND, Thomas; GROSS, Martin (74) IP GATEWAY PATENT &amp; TRADE MARK ATTORNEYS PTY LTD</p> <hr/> <p>(71) 4D Molecular Therapeutics Inc. (11) AU-A-2021337530 (21) 2021337530 (22) 30.08.2021 (54) Codon Optimized RPRorf 15 Genes And Uses Thereof (51) Int. Cl. A61K 9/127 ( 2006.01 ) A61K 9/14 ( 2006.01 ) A61K 9/50 ( 2006.01 ) A61K 38/00 ( 2006.01 ) C07K 14/47 ( 2006.01 ) C12N 15/88 ( 2006.01 ) (87) WO2022/051232 (31) 63/073,843 (32) 02.09.20 (33) US (43) 10.03.2022 (72) KIRN, David H.; KOTTERMAN, Melissa A.; SCHAFFER, David; FRANCIS, Peter (74) WRAYS PTY LTD</p> <hr/> <p>(71) 4D Molecular Therapeutics Inc. (11) AU-A-2021337580 (21) 2021337580 (22) 31.08.2021 (54) Codon optimized REP1 genes and uses thereof (51) Int. Cl. A61K 35/76 ( 2015.01 ) A61K 48/00 ( 2006.01 ) A61P 27/02 ( 2006.01 ) C12N 15/86 ( 2006.01 ) (87) WO2022/051294</p>	<p>(31) 63/073,837 (32) 02.09.20 (33) US (43) 10.03.2022 (72) KIRN, David H.; KOTTERMAN, Melissa A.; FRANCIS, Peter (74) WRAYS PTY LTD</p> <hr/> <p>(71) Aalto University Foundation sr (11) AU-A-2021342726 (21) 2021342726 (22) 15.09.2021 (54) Apparatus for and method of facilitating an estimation of comminution energy consumption for rock comminution (51) Int. Cl. B23K 26/362 ( 2014.01 ) B02C 19/18 ( 2006.01 ) B23K 26/00 ( 2014.01 ) B23K 26/03 ( 2006.01 ) B23K 26/046 ( 2014.01 ) B23K 26/06 ( 2014.01 ) B23K 26/0622 ( 2014.01 ) G01N 21/00 ( 2006.01 ) G01N 21/71 ( 2006.01 ) G01N 29/14 ( 2006.01 ) B23K 103/00 ( 2006.01 ) (87) WO2022/058653 (31) 20205892 (32) 16.09.20 (33) FI (43) 24.03.2022 (72) KANGAS, Lasse; LEVEINEN, Jussi (74) Michael Buck IP</p> <hr/> <p>(71) ABUS August Bremicker Söhne KG (11) AU-A-2021356030 (21) 2021356030 (22) 30.09.2021 (54) Padlock basic assembly kit and padlock system (51) Int. Cl. E05B 63/00 ( 2006.01 ) E05B 9/08 ( 2006.01 ) E05B 67/02 ( 2006.01 ) E05B 67/24 ( 2006.01 ) (87) WO2022/073854 (31) 10 2020 126 124.1 (32) 06.10.20 (33) DE (43) 14.04.2022 (72) Not Given (74) PHILLIPS ORMONDE FITZPATRICK</p> <hr/> <p>(71) Access to Advanced Health Institute (11) AU-A-2021321944 (21) 2021321944 (22) 04.06.2021 (54) Purified saponins and chromatographic process for purification of same (51) Int. Cl. A61K 39/39 ( 2006.01 ) B01D 15/08 ( 2006.01 ) C07J 63/00 ( 2006.01 ) (87) WO2022/031359 (31) 63/063,121 (32) 07.08.20 (33) US 63/106,752 28.10.20 US (43) 10.02.2022 (72) QI, Yizhi; FOX, Christopher Bradford (74) AJ PARK</p>
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PCT applications which have entered the National Phase - Name Index cont'd

- 
- (71) Acucela Inc.  
 (11) AU-A-2021352417  
 (21) 2021352417 (22) 30.09.2021  
 (54) Myopia prediction, diagnosis, planning, and monitoring device  
 (51) Int. Cl.  
     **A61B 3/10** ( 2006.01 )  
     **A61B 3/00** ( 2006.01 )  
     **A61B 3/103** ( 2006.01 )  
     **A61B 3/107** ( 2006.01 )  
     **A61B 3/113** ( 2006.01 )  
 (87) WO2022/072644  
 (31) 63/198,154 (32) 30.09.20 (33) US  
 (43) 07.04.2022  
 (72) KUBOTA, Ryo; BUSCEMI, Philip M.  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd
- 
- (71) Air Company Holdings, Inc.  
 (11) AU-A-2021321514  
 (21) 2021321514 (22) 05.08.2021  
 (54) Alloys and methods for enhanced impurity removal in distillation processes  
 (51) Int. Cl.  
     **B01J 23/00** ( 2006.01 )  
     **C07C 7/156** ( 2006.01 )  
     **C07C 29/80** ( 2006.01 )  
     **C10G 29/06** ( 2006.01 )  
 (87) WO2022/031967  
 (31) 63/062,039 (32) 06.08.20 (33) US  
 (43) 10.02.2022  
 (72) SHEEHAN, Stafford W.; TRAINOR, Michael  
 (74) Davies Collison Cave Pty Ltd
- 
- (71) AKI, Inc.  
 (11) AU-A-2021364200  
 (21) 2021364200 (22) 13.10.2021  
 (54) Anhydrous alcohol-free silky fragrance formulation  
 (51) Int. Cl.  
     **A61K 8/34** ( 2006.01 )  
     **A61K 8/37** ( 2006.01 )  
     **A61K 8/60** ( 2006.01 )  
 (87) WO2022/086766  
 (31) 63/094,581 (32) 21.10.20 (33) US  
 (43) 28.04.2022  
 (72) MEEHAN, Matthew; O'HALLORAN, David  
 (74) Spruson & Ferguson
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- (71) Alcon Inc.  
 (11) AU-A-2021360283  
 (21) 2021360283 (22) 01.10.2021  
 (54) Beam detection with dual gain  
 (51) Int. Cl.  
     **G01J 1/44** ( 2006.01 )  
     **A61F 9/008** ( 2006.01 )  
     **G01J 1/42** ( 2006.01 )  
     **H03F 3/08** ( 2006.01 )  
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 (31) 63/090,911 (32) 13.10.20 (33) US  
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 (72) SAWICZ, Conrad; CHEN, Derek  
 (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) AMSL Innovations Pty Ltd  
 (11) AU-A-2021345377  
 (21) 2021345377 (22) 17.09.2021  
 (54) Aircraft structure  
 (51) Int. Cl.  
     **B64C 39/06** ( 2006.01 )  
     **B64C 1/10** ( 2006.01 )  
     **B64C 1/26** ( 2006.01 )  
     **B64C 3/10** ( 2006.01 )  
     **B64C 29/00** ( 2006.01 )  
     **B64C 39/08** ( 2006.01 )  
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 (31) 2020903348 (32) 18.09.20 (33) AU  
 (43) 24.03.2022  
 (72) MOORE, Andrew Dudley; SWALLOW, Alfred Leonard  
 (74) Halfords IP
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- (71) ANNABELLA TECH LTD.  
 (11) AU-A-2021325443  
 (21) 2021325443 (22) 11.08.2021  
 (54) A breast milk extraction kit comprising a breast milk pump and a pumping device  
 (51) Int. Cl.  
     **A61M 1/06** ( 2006.01 )  
     **A61H 1/00** ( 2006.01 )  
     **A61H 15/00** ( 2006.01 )  
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 (31) 16/990,111 (32) 11.08.20 (33) US  
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 (43) 17.02.2022  
 (72) SHFARAM, Adi; WAINSTEIN, Andres; TURKIELTAUB, Gustavo; HALAWANI, Oded  
 (74) FPA Patent Attorneys Pty Ltd
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- (71) Apple Inc.  
 (11) AU-A-2021336223  
 (21) 2021336223 (22) 05.08.2021  
 (54) Wireless power system with communications  
 (51) Int. Cl.  
     **H02J 50/90** ( 2016.01 )  
     **H02J 50/10** ( 2016.01 )  
     **H02J 50/80** ( 2016.01 )  
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 (72) PATEL, Parin; KUMAR, Daniel P.; CHANG, Andrew C.  
 (74) FPA Patent Attorneys Pty Ltd
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- (71) Aqseptence Group, Inc.  
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 (21) 2021321526 (22) 05.08.2021  
 (54) Biofilter with shaped underdrain assembly  
 (51) Int. Cl.  
     **C02F 1/00** ( 2006.01 )  
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 (31) 63/061,771 (32) 05.08.20 (33) US  
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 (74) FB Rice Pty Ltd
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- (71) Arcturus Therapeutics, Inc.  
 (11) AU-A-2021325945  
 (21) 2021325945 (22) 13.08.2021  
 (54) Method of lyophilizing lipid nanoparticles  
 (51) Int. Cl.  
     **A61K 31/704** ( 2006.01 )  
     **A61K 9/16** ( 2006.01 )  
     **G01N 33/58** ( 2006.01 )  
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 (31) 63/158,761 (32) 09.03.21 (33) US  
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 (72) SAGI, Amit; BAO, Yanjie; KARMALI, Priya Prakash  
 (74) Spruson & Ferguson
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- (71) Argo GmbH  
 (11) AU-A-2021322850  
 (21) 2021322850 (22) 29.07.2021  
 (54) System for the fluid-guiding connection of an element to a counterpart, adapter element and adapter housing for fluid-guiding connection and adapter system having the adapter element and the adapter housing  
 (51) Int. Cl.  
     **F16L 15/00** ( 2006.01 )  
     **F16L 29/02** ( 2006.01 )  
     **F16L 41/00** ( 2006.01 )  
     **F16L 41/08** ( 2006.01 )  
     **F16L 41/16** ( 2006.01 )  
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 (31) 10 2020 209 735.6 (32) 03.08.20 (33) DE  
 (43) 10.02.2022  
 (72) ANDREAS, Jan  
 (74) Davies Collison Cave Pty Ltd
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- (71) Arizona Board of Regents on Behalf of The University of Arizona  
 (11) AU-A-2021322286  
 (21) 2021322286 (22) 06.08.2021  
 (54) Single nucleotide polymorphisms and treatment of inflammatory conditions  
 (51) Int. Cl.  
     **A61K 31/5377** ( 2006.01 )  
     **A61K 45/00** ( 2006.01 )  
     **A61P 3/10** ( 2006.01 )  
     **A61P 9/10** ( 2006.01 )  
     **A61P 19/02** ( 2006.01 )  
     **A61P 29/00** ( 2006.01 )  
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 (31) 63/062,750 (32) 07.08.20 (33) US  
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 (72) GARCIA, Joe G.N.; AHMED, Mohamed N.  
 (74) Davies Collison Cave Pty Ltd
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- (71) Arrowhead Pharmaceuticals, Inc.  
 (11) AU-A-2021339808  
 (21) 2021339808 (22) 10.09.2021  
 (54) Skeletal muscle delivery platforms and methods of use  
 (51) Int. Cl.

PCT applications which have entered the National Phase - Name Index cont'd

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**C07H 21/02** ( 2006.01 )  
**C12N 15/11** ( 2006.01 )  
**C12N 15/113** ( 2010.01 )  
**(87)** WO2022/056269  
**(31)** 63/077,284 **(32)** 11.09.20 **(33)** US  
**(43)** 17.03.2022  
**(72)** LI, Xiaokai; PEI, Tao; AI, Teng; PHAN, Susan; RAMOS-HUNTER, Susan; BLOKHIN, Andrei, V.  
**(74)** Davies Collison Cave Pty Ltd
- 
- (71)** Arrowhead Pharmaceuticals, Inc.  
**(11)** AU-A-2021340710  
**(21)** 2021340710 **(22)** 10.09.2021  
**(54)** Skeletal muscle delivery platforms and methods of use  
**(51)** Int. Cl.  
**A61K 47/60** ( 2017.01 )  
**A61K 47/68** ( 2017.01 )  
**(87)** WO2022/056277  
**(31)** 63/230,381 **(32)** 06.08.21 **(33)** US  
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**(43)** 17.03.2022  
**(72)** LI, Xiaokai; PEI, Tao; AI, Teng; PHAN, Susan; RAMOS-HUNTER, Susan  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** Arrowhead Pharmaceuticals, Inc.  
**(11)** AU-A-2021342163  
**(21)** 2021342163 **(22)** 10.09.2021  
**(54)** Integrin targeting ligands and uses thereof  
**(51)** Int. Cl.  
**C07C 13/47** ( 2006.01 )  
**C12N 15/09** ( 2006.01 )  
**C12N 15/11** ( 2006.01 )  
**(87)** WO2022/056286  
**(31)** 63/077,245 **(32)** 11.09.20 **(33)** US  
**(43)** 17.03.2022  
**(72)** LI, Xiaokai; PEI, Tao; PHAN, Susan; BLOKHIN, Andrei V.  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** Artizan Biosciences, Inc.  
**(11)** AU-A-2021339828  
**(21)** 2021339828 **(22)** 13.09.2021  
**(54)** Small molecule inhibitors of bacterial toxins  
**(51)** Int. Cl.  
**A61K 39/07** ( 2006.01 )  
**A61K 39/40** ( 2006.01 )  
**A61P 1/00** ( 2006.01 )  
**C07K 16/12** ( 2006.01 )  
**(87)** WO2022/056369  
**(31)** 63/077,354 **(32)** 11.09.20 **(33)** US  
**(43)** 17.03.2022  
**(72)** HOEKSTRA, William; RYU, Hyunji; CHINTHA, Priyanka  
**(74)** RNB IP PTY LTD
- 
- (71)** Asklepios BioPharmaceutical, Inc.  
**(11)** AU-A-2021336754  
**(21)** 2021336754 **(22)** 03.09.2021  
**(54)** Regulatory nucleic acid sequences  
**(51)** Int. Cl.
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- A61K 48/00** ( 2006.01 )  
**C12N 15/85** ( 2006.01 )  
**(87)** WO2022/049385  
**(31)** 2013940.8 **(32)** 04.09.20 **(33)** GB  
**(43)** 10.03.2022  
**(72)** BRAAE, Anne; IGLESIAS, Juan Manuel; ROBERTS, Michael L.; COOPER, Sinclair  
**(74)** WRAYS PTY LTD
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- (71)** AstraZeneca UK Limited  
**(11)** AU-A-2021325339  
**(21)** 2021325339 **(22)** 09.08.2021  
**(54)** SARS-CoV-2 antibodies for treatment and prevention of COVID-19  
**(51)** Int. Cl.  
**C07K 16/10** ( 2006.01 )  
**A61P 31/14** ( 2006.01 )  
**(87)** WO2022/034044  
**(31)** 63/063,862 **(32)** 10.08.20 **(33)** US  
63/112,104 10.11.20 US  
**(43)** 17.02.2022  
**(72)** GASSER, Robert; ESSER, Mark; MCTAMNEY II, Patrick; LOO, Yueh-Ming; VARKEY, Reena M.; DU, Qun; STEINHARDT, James; RAJAN, Saravanan  
**(74)** PHILLIPS ORMONDE FITZPATRICK
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- (71)** B. Braun Melsungen AG  
**(11)** AU-A-2021319868  
**(21)** 2021319868 **(22)** 04.08.2021  
**(54)** Catheter arrangement including a valve element elastically deformable by fluid pressure  
**(51)** Int. Cl.  
**A61M 5/158** ( 2006.01 )  
**A61M 39/24** ( 2006.01 )  
**(87)** WO2022/029190  
**(31)** 10 2020 209 931.6 **(32)** 06.08.20 **(33)** DE  
**(43)** 10.02.2022  
**(72)** KLAAS, Stefan; SCHNEIDER, Uwe Erik; PALA SANDARAM, Kavintharan; SOON, Wei Jin; TAN, Aik Aun; GOH TEE LIANG, Jeremy; TEOH, Hui Kuun  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** Bard Peripheral Vascular, Inc.  
**(11)** AU-A-2021325930  
**(21)** 2021325930 **(22)** 12.08.2021  
**(54)** Fluid connector for vascular access device  
**(51)** Int. Cl.  
**A61M 39/02** ( 2006.01 )  
**A61M 39/10** ( 2006.01 )  
**A61M 39/12** ( 2006.01 )  
**(87)** WO2022/036095  
**(31)** 63/066,003 **(32)** 14.08.20 **(33)** US  
**(43)** 17.02.2022  
**(72)** THOMAS, Ian N.; FEDOR, Brenda L. F.  
**(74)** FB Rice Pty Ltd
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- (71)** BASF SE  
**(11)** AU-A-2021336726  
**(21)** 2021336726 **(22)** 27.08.2021  
**(54)** Polyalkylene glycol for reducing white etching cracks
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- (51)** Int. Cl.  
**C10M 107/34** ( 2006.01 )  
**C10N 20/00** ( 2006.01 )  
**C10N 20/02** ( 2006.01 )  
**C10N 20/04** ( 2006.01 )  
**C10N 30/06** ( 2006.01 )  
**(87)** WO2022/049004  
**(31)** 20194778.5 **(32)** 07.09.20 **(33)** EP  
**(43)** 10.03.2022  
**(72)** RITTIG, Frank; KOSCHABEK, Rene  
**(74)** Griffith Hack
- 
- (71)** Becton, Dickinson and Company  
**(11)** AU-A-2021329891  
**(21)** 2021329891 **(22)** 18.08.2021  
**(54)** Tray for parallel processing of multiple test devices  
**(51)** Int. Cl.  
**B01L 9/00** ( 2006.01 )  
**(87)** WO2022/040274  
**(31)** 63/067,515 **(32)** 19.08.20 **(33)** US  
**(43)** 24.02.2022  
**(72)** TYCON, Michael August  
**(74)** FB Rice Pty Ltd
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- (71)** Beijing Bytedance Network Technology Co., Ltd.  
**(11)** AU-A-2021333957  
**(21)** 2021333957 **(22)** 26.08.2021  
**(54)** Information display method and device, and storage medium  
**(51)** Int. Cl.  
**G06T 5/50** ( 2006.01 )  
**(87)** WO2022/042624  
**(31)** 202010874067.3 **(32)** 26.08.20 **(33)** CN  
**(43)** 03.03.2022  
**(72)** YE, Chunmei; HUANG, Jiabin; WANG, Yitong  
**(74)** Griffith Hack
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- (71)** Betta Pharmaceuticals Co., Ltd.  
**(11)** AU-A-2021328959  
**(21)** 2021328959 **(22)** 17.08.2021  
**(54)** Bicyclic compounds, compositions and use thereof  
**(51)** Int. Cl.  
**C07D 487/00** ( 2006.01 )  
**A61K 31/395** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**C07D 487/04** ( 2006.01 )  
**C07D 491/052** ( 2006.01 )  
**(87)** WO2022/037568  
**(31)** PCT/ **(32)** 17.08.20 **(33)** CN  
CN2020/109491  
PCT/ 04.02.21 CN  
CN2021/075195  
**(43)** 24.02.2022  
**(72)** XU, Xiaofeng; GAO, Jinheng; RONG, Hongfei; SONG, Xizhen; CHEN, Jie; LIU, Xiangyong; SHEN, Hongling; GUO, Jing; YAN, Dan; LAN, Hong; DING, Lieming; WANG, Jiabing  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** BioConsortia, Inc.  
**(11)** AU-A-2021333933  
**(21)** 2021333933 **(22)** 31.08.2021



PCT applications which have entered the National Phase - Name Index cont'd

- (54) Identification of agriculturally beneficial microbial compositions and uses thereof  
(51) Int. Cl.  
**A01N 63/22** ( 2020.01 )  
**C05G 3/60** ( 2020.01 )  
**C12N 1/20** ( 2006.01 )
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(31) 63/072,666 (32) 31.08.20 (33) US  
(43) 03.03.2022  
(72) AKUM, Fidele; ALFORD, Betsy; PATRI, Abhishek; WILK, Debora; ZHU, Hong  
(74) Ribeiro IP Limited
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- (71) Biogen MA Inc.  
(11) AU-A-2021322186  
(21) 2021322186 (22) 03.08.2021  
(54) Crystalline forms of an o-glycoprotein-2-acetamido-2-deoxy-3-d-glucopyranosidase inhibitor  
(51) Int. Cl.  
**C07D 417/14** ( 2006.01 )  
**A61K 31/506** ( 2006.01 )  
**A61P 25/28** ( 2006.01 )
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(31) 63/060,281 (32) 03.08.20 (33) US  
(43) 10.02.2022  
(72) WELDEAB, Asmerom; CORREIA, Tae Kim; JENKINS, Airea Diane; LIN, Yiqing; LI, Chaomin  
(74) Pizeys Patent and Trade Mark Attorneys Pty Ltd
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- (71) Biotheus Inc.  
(11) AU-A-2021334042  
(21) 2021334042 (22) 30.08.2021  
(54) Anti-VEGF-anti-PD-L1 bispecific antibody, pharmaceutical composition of same, and uses thereof  
(51) Int. Cl.  
**C07K 16/46** ( 2006.01 )  
**A61K 39/395** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**C12N 5/00** ( 2006.01 )  
**C12N 15/13** ( 2006.01 )  
**C12N 15/63** ( 2006.01 )  
**G01N 33/574** ( 2006.01 )  
**G01N 33/68** ( 2006.01 )
- (87) WO2022/042719  
(31) 202010897917.1 (32) 31.08.20 (33) CN  
(43) 03.03.2022  
(72) MIU, Xiaoniu; CHEN, Cheng; YUAN, Zhijun; HUANG, Weifeng; TSUN, Andy; TSOYUE, Joanne  
(74) FPA Patent Attorneys Pty Ltd
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- (71) Bioverativ USA Inc.  
(11) AU-A-2021320870  
(21) 2021320870 (22) 05.08.2021  
(54) Inflammatory cytokines and fatigue in subject with a complement mediated disease  
(51) Int. Cl.  
**G01N 33/68** ( 2006.01 )
- (87) WO2022/031978  
(31) 63/062,243 (32) 06.08.20 (33) US
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- (43) 10.02.2022  
(72) ARIAS, Jaime Morales; HOBBS, William E.; STOREK, Michael J.; PATEL, Parija S.  
(74) Griffith Hack
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- (71) Blackswan Vascular, Inc.  
(11) AU-A-2021338356  
(21) 2021338356 (22) 02.09.2021  
(54) Liquid embolic compositions with controlled release of radiopaque and therapeutic compounds and methods of using the same  
(51) Int. Cl.  
**A61K 9/14** ( 2006.01 )  
**A61K 9/16** ( 2006.01 )  
**A61K 31/765** ( 2006.01 )
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(31) 63/074,924 (32) 04.09.20 (33) US  
(43) 10.03.2022  
(72) PAI, Suresh S.; SERSHEN, Scott R.; HAKIMIMEHR, Donna; BAGAOISAN, Celso J.  
(74) FPA Patent Attorneys Pty Ltd
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- (71) BLUE HALO BIOMEDICAL, LLC  
(11) AU-A-2021336991  
(21) 2021336991 (22) 07.09.2021  
(54) Coil catheter, method of use, and method of manufacture  
(51) Int. Cl.  
**A61M 25/01** ( 2006.01 )  
**A61M 25/09** ( 2006.01 )  
**A61M 27/00** ( 2006.01 )
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(31) 17/012,920 (32) 04.09.20 (33) US  
(43) 10.03.2022  
(72) HAMMOND Jr., Gaines  
(74) PHILLIPS ORMONDE FITZPATRICK
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- (71) Blue River Technology Inc.  
(11) AU-A-2021351645  
(21) 2021351645 (22) 23.09.2021  
(54) Calibration of autonomous farming vehicle image acquisition system  
(51) Int. Cl.  
**A01B 9/00** ( 2006.01 )  
**A01B 13/00** ( 2006.01 )  
**A01B 69/00** ( 2006.01 )  
**A01M 7/00** ( 2006.01 )
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(31) 63/084,751 (32) 29.09.20 (33) US  
(43) 07.04.2022  
(72) NIDAY, Tyler Calvin; OEZDEMIR, Ugur  
(74) Pizeys Patent and Trade Mark Attorneys Pty Ltd
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- (71) Boehringer Ingelheim International GmbH  
(11) AU-A-2021366317  
(21) 2021366317 (22) 22.10.2021  
(54) Anti-Sema3A antibodies and their uses for treating a thrombotic disease of the retina  
(51) Int. Cl.  
**C07K 16/18** ( 2006.01 )  
**A61P 27/02** ( 2006.01 )
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- (87) WO2022/084490  
(31) 20203645.5 (32) 23.10.20 (33) EP  
(43) 28.04.2022  
(72) THOMAS, Leo; BAKKER, Remko Alexander  
(74) Spruson & Ferguson
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- (71) BOSTIK, INC.  
(11) AU-A-2021366642  
(21) 2021366642 (22) 20.10.2021  
(54) AMORPHOUS COPOLYESTER RESINS FOR USE AS A COLD SEAL ADHESIVE, COATING COMPOSITIONS  
(51) Int. Cl.  
**C08G 18/08** ( 2006.01 )  
**C08G 18/12** ( 2006.01 )  
**C08G 18/20** ( 2006.01 )
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(31) 63/093,969 (32) 20.10.20 (33) US  
(43) 28.04.2022  
(72) PUTHANPARAMBIL, Deepa; KRETLOW, Tatiana; HARJU, Joshua T.; HUT, Marie  
(74) Dark IP
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- (71) Boston Scientific Neuromodulation Corporation  
(11) AU-A-2021324583  
(21) 2021324583 (22) 29.07.2021  
(54) Electrical stimulation systems based on stimulation-evoked responses  
(51) Int. Cl.  
**A61B 5/388** ( 2021.01 )  
**A61B 5/00** ( 2006.01 )  
**A61B 34/20** ( 2016.01 )  
**A61N 1/05** ( 2006.01 )  
**A61N 1/36** ( 2006.01 )  
**A61N 1/372** ( 2006.01 )
- (87) WO2022/035608  
(31) 63/063,706 (32) 10.08.20 (33) US  
(43) 17.02.2022  
(72) MOFFITT, Michael  
(74) Spruson & Ferguson
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- (71) Boston Scientific Scimed, Inc.  
(11) AU-A-2021343392  
(21) 2021343392 (22) 13.09.2021  
(54) Devices and systems for an endoscopic procedure  
(51) Int. Cl.  
**A61B 5/06** ( 2006.01 )  
**A61B 1/018** ( 2006.01 )
- (87) WO2022/060667  
(31) 63/078,544 (32) 15.09.20 (33) US  
(43) 24.03.2022  
(72) SRIVASTAVA, Kyle H.; KOYA, Vijay; SHUTE, Jonathan B.; PIERE, Christopher; KRINGLE, Mark  
(74) Spruson & Ferguson
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- (71) Boston Scientific Scimed, Inc.  
(11) AU-A-2021347106  
(21) 2021347106 (22) 17.09.2021  
(54) Devices, systems, and methods for locating a body lumen  
(51) Int. Cl.  
**A61B 1/00** ( 2006.01 )

PCT applications which have entered the National Phase - Name Index cont'd

- A61B 1/06** ( 2006.01 )  
**A61B 1/12** ( 2006.01 )  
**A61M 25/10** ( 2013.01 )  
**(87)** WO2022/066523  
**(31)** 63/084,033 **(32)** 28.09.20 **(33)** US  
**(43)** 31.03.2022  
**(72)** LYNCH, Ryan Desmond; FAVREAU, John Thomas; NARDONE, Marcia  
**(74)** Spruson & Ferguson
- 
- (71)** Boston Scientific Scimed, Inc.  
**(11)** AU-A-2021347148  
**(21)** 2021347148 **(22)** 21.09.2021  
**(54)** Universal thread fluid container enclosure systems  
**(51)** Int. Cl.  
**A61B 1/00** ( 2006.01 )  
**A61B 1/015** ( 2006.01 )  
**(87)** WO2022/066640  
**(31)** 63/084,274 **(32)** 28.09.20 **(33)** US  
63/084,284 28.09.20 US  
63/084,292 28.09.20 US  
63/084,297 28.09.20 US  
**(43)** 31.03.2022  
**(72)** STANTON, Larry Edward; LAPLACA, Matthew; POLLOCK, Ryan Vincent William  
**(74)** Spruson & Ferguson
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- (71)** Boston Scientific Scimed, Inc.  
**(11)** AU-A-2021347678  
**(21)** 2021347678 **(22)** 21.09.2021  
**(54)** Fluid container adapters  
**(51)** Int. Cl.  
**A61B 1/00** ( 2006.01 )  
**A61B 1/015** ( 2006.01 )  
**(87)** WO2022/066643  
**(31)** 63/084,274 **(32)** 28.09.20 **(33)** US  
63/084,284 28.09.20 US  
63/084,292 28.09.20 US  
63/084,297 28.09.20 US  
**(43)** 31.03.2022  
**(72)** POLLOCK, Ryan Vincent William; SMITH, Paul; VILLARREAL, Carolina  
**(74)** Spruson & Ferguson
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- (71)** Boston Scientific SciMed, Inc.  
**(11)** AU-A-2021349199  
**(21)** 2021349199 **(22)** 21.09.2021  
**(54)** Color extrapolation from monochrome image sensor  
**(51)** Int. Cl.  
**G06T 3/40** ( 2006.01 )  
**A61B 1/00** ( 2006.01 )
- 
- H04N 1/48** ( 2006.01 )  
**(87)** WO2022/066601  
**(31)** 63/083,127 **(32)** 25.09.20 **(33)** US  
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**(72)** VIERING, Kirsten; BARBATO, Louis J.; DUVAL, George Wilfred  
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**A23J 1/14** ( 2006.01 )  
**A23J 1/00** ( 2006.01 )  
**A23J 3/14** ( 2006.01 )  
**A23K 10/30** ( 2016.01 )  
**A23K 20/142** ( 2016.01 )  
**A23K 50/80** ( 2016.01 )  
**A23L 33/185** ( 2016.01 )  
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**(51)** Int. Cl.  
**A61M 5/168** ( 2006.01 )  
**A61B 5/021** ( 2006.01 )  
**A61B 5/03** ( 2006.01 )  
**A61M 3/02** ( 2006.01 )  
**A61M 5/142** ( 2006.01 )  
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**(54)** An apparatus for regulating the voltage delivered to a load  
**(51)** Int. Cl.  
**H02P 13/06** ( 2006.01 )  
**G05F 1/20** ( 2006.01 )  
**H01F 29/04** ( 2006.01 )  
**H02M 5/12** ( 2006.01 )  
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**(72)** SILCOCK, Paul; HOUGHTON, Michael  
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**(11)** AU-A-2021339005  
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**(54)** Combination therapy for cancer  
**(51)** Int. Cl.
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**(54)** High-speed dosing  
**(51)** Int. Cl.  
**A01K 5/00** ( 2006.01 )  
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**A01K 29/00** ( 2006.01 )  
**A01K 67/033** ( 2006.01 )  
**G01G 13/24** ( 2006.01 )  
**G01G 17/06** ( 2006.01 )  
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**(72)** GELDER, Vincent de; JANSEN, Maurits Petrus Maria  
**(74)** Maxwells Patent & Trade Mark Attorneys Pty Ltd
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**B60L 58/12** ( 2019.01 )  
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**G06Q 50/26** ( 2012.01 )  
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**G06F 30/28** ( 2020.01 )  
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 (51) Int. Cl.  
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 (54) Tubing retention device  
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     A61M 39/08 ( 2006.01 )  
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     F16L 33/00 ( 2006.01 )  
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     D21H 11/12 ( 2006.01 )  
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     A61P 19/00 ( 2006.01 )  
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     C12R 1/15 ( 2006.01 )  
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     C12N 15/70 ( 2006.01 )  
     C07K 14/245 ( 2006.01 )  
     C12N 9/04 ( 2006.01 )  
     C12N 9/10 ( 2006.01 )  
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     C12P 13/06 ( 2006.01 )  
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 (74) James & Wells Intellectual Property

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 (54) Recombinant microorganism for producing L-glutamic acid, and L-glutamic acid production method using same  
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     C12N 15/77 ( 2006.01 )  
     C07K 14/195 ( 2006.01 )  
     C12P 13/14 ( 2006.01 )  
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     G06T 15/00 ( 2011.01 )  
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**G06V 20/20** ( 2022.01 )  
**H04N 13/388** ( 2018.01 )
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(51) Int. Cl.  
**G02B 6/44** ( 2006.01 )
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(54) Electrical safety system  
(51) Int. Cl.  
**H01R 4/66** ( 2006.01 )  
**E04C 5/16** ( 2006.01 )  
**E04G 15/06** ( 2006.01 )  
**G01R 31/52** ( 2020.01 )  
**H01B 17/58** ( 2006.01 )  
**H01R 4/38** ( 2006.01 )  
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**H02G 3/00** ( 2006.01 )
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**G01S 11/02** ( 2010.01 )  
**G01B 15/00** ( 2006.01 )  
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(74) GLMR
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**B29C 64/118** ( 2017.01 )  
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**B29C 70/38** ( 2006.01 )  
**B33Y 10/00** ( 2015.01 )  
**B33Y 30/00** ( 2015.01 )  
**B33Y 50/02** ( 2015.01 )
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(51) Int. Cl.  
**A61B 18/14** ( 2006.01 )  
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(51) Int. Cl.  
**A61K 31/675** ( 2006.01 )  
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**A61P 35/00** ( 2006.01 )
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**C07F 1/08** ( 2006.01 )
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(51) Int. Cl.  
**B42D 25/324** ( 2014.01 )  
**B41M 3/14** ( 2006.01 )  
**B42D 25/29** ( 2014.01 )  
**B42D 25/328** ( 2014.01 )  
**B42D 25/351** ( 2014.01 )  
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(54) Compounds and methods  
(51) Int. Cl.  
**C07C 229/36** ( 2006.01 )  
**A01N 37/44** ( 2006.01 )  
**A01N 43/40** ( 2006.01 )  
**A01N 43/56** ( 2006.01 )  
**A01N 43/60** ( 2006.01 )  
**A01N 43/84** ( 2006.01 )  
**A01P 13/00** ( 2006.01 )  
**C07C 227/08** ( 2006.01 )  
**C07C 319/14** ( 2006.01 )  
**C07C 323/29** ( 2006.01 )  
**C07D 213/54** ( 2006.01 )  
**C07D 213/61** ( 2006.01 )  
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**C12N 15/82** ( 2006.01 )
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(74) WRAYS PTY LTD
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**E05F 3/22** ( 2006.01 )  
**E05F 1/00** ( 2006.01 )
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 (54) Aqueous composition  
 (51) Int. Cl.  
**C08K 3/36** ( 2006.01 )  
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**C09D 127/12** ( 2006.01 )  
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**C12Q 1/6844** ( 2018.01 )  
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**G01N 33/543** ( 2006.01 )  
**G01N 33/558** ( 2006.01 )  
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 (74) LAMINAR IP PTY LTD
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 (54) Optomechanical method to measure ar-  
 terial pulse and assess cardiopulmon-  
 ary hemodynamics  
 (51) Int. Cl.  
**A61B 5/022** ( 2006.01 )  
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**A61B 5/024** ( 2006.01 )  
**A61B 5/026** ( 2006.01 )  
**A61B 17/135** ( 2006.01 )  
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 (72) ADELSON, Edward H.; BISWAS, Ab-  
 hijit; THANIKACHALAM, Mohan  
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 Co.KG  
 (11) AU-A-2021344543  
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 seal assembly, and mechanical face  
 seal assembly  
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**F16J 15/34** ( 2006.01 )  
**G05B 23/02** ( 2006.01 )  
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 (51) Int. Cl.  
**H01H 9/12** ( 2006.01 )  
**H01H 33/666** ( 2006.01 )  
**H01H 9/02** ( 2006.01 )  
**H01H 9/16** ( 2006.01 )  
**H01H 33/02** ( 2006.01 )  
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 (54) Obtaining respiratory related sounds  
 from an audio recording  
 (51) Int. Cl.  
**A61B 5/00** ( 2006.01 )  
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**A61B 7/00** ( 2006.01 )  
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**A61B 17/068** ( 2006.01 )  
**A61F 2/24** ( 2006.01 )  
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**B62D 55/088** ( 2006.01 )  
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**B62D 55/15** ( 2006.01 )  
**B62D 55/21** ( 2006.01 )  
**F16C 19/46** ( 2006.01 )  
**F16C 33/76** ( 2006.01 )  
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 information from color electrophoretic  
 displays  
 (51) Int. Cl.  
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**G09G 3/20** ( 2006.01 )  
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 CROUNSE, Kenneth R.  
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 (11) AU-A-2021368779  
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 for achieving primary color sets in multi-  
 color electrophoretic displays  
 (51) Int. Cl.  
**G09G 3/34** ( 2006.01 )  
**G02F 1/167** ( 2019.01 )  
**G09G 3/20** ( 2006.01 )  
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**G09G 3/34** ( 2006.01 )  
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(51) Int. Cl.  
B65D 51/28 ( 2006.01 )  
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(51) Int. Cl.  
B65D 51/28 ( 2006.01 )  
B65D 43/02 ( 2006.01 )  
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(21) 2021359666 (22) 29.09.2021  
(54) Oscillation unit, induction cooking appliance and method for operating an oscillation unit  
(51) Int. Cl.  
H03K 7/08 ( 2006.01 )  
H05B 6/06 ( 2006.01 )  
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(54) Medication delivery device with sensing system  
(51) Int. Cl.  
A61M 5/24 ( 2006.01 )  
A61M 5/315 ( 2006.01 )  
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(51) Int. Cl.  
A61K 9/00 ( 2006.01 )  
A61K 9/48 ( 2006.01 )  
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(51) Int. Cl.  
G16H 50/30 ( 2018.01 )  
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(74) James & Wells Intellectual Property
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(51) Int. Cl.  
A61L 27/56 ( 2006.01 )  
A61K 9/00 ( 2006.01 )  
A61K 35/39 ( 2015.01 )  
A61K 38/28 ( 2006.01 )  
A61K 47/34 ( 2017.01 )  
A61L 27/36 ( 2006.01 )  
A61P 3/10 ( 2006.01 )  
B32B 3/26 ( 2006.01 )  
B32B 7/05 ( 2019.01 )  
B32B 27/36 ( 2006.01 )  
C08L 67/04 ( 2006.01 )  
C12N 5/00 ( 2006.01 )  
C12N 5/071 ( 2010.01 )  
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(51) Int. Cl.  
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(51) Int. Cl.  
C07C 1/04 ( 2006.01 )  
B01J 23/72 ( 2006.01 )  
B01J 23/745 ( 2006.01 )  
B01J 23/80 ( 2006.01 )  
C01B 3/26 ( 2006.01 )  
C01B 32/40 ( 2017.01 )  
C07B 61/00 ( 2006.01 )  
C07C 9/00 ( 2006.01 )  
C25B 1/01 ( 2021.01 )  
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(54) Advanced service station system and control process  
(51) Int. Cl.  
G06Q 30/00 ( 2012.01 )  
B67D 7/08 ( 2010.01 )  
G07F 13/02 ( 2006.01 )  
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(21) 2021332460 (22) 27.08.2021  
(54) Methods and compositions to treat autoimmune diseases and cancer  
(51) Int. Cl.  
A61P 35/00 ( 2006.01 )  
C07K 16/18 ( 2006.01 )  
C07K 16/28 ( 2006.01 )  
C07K 16/32 ( 2006.01 )  
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A61N 1/36 ( 2006.01 )  
A61N 1/372 ( 2006.01 )  
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(54) Synthesis of novel imipridone derivatives and their evaluation for their anticancer activity  
(51) Int. Cl.  
A61K 31/519 ( 2006.01 )  
A61K 31/555 ( 2006.01 )  
A61P 35/00 ( 2006.01 )  
C07D 401/14 ( 2006.01 )  
C07D 471/14 ( 2006.01 )  
C07F 17/02 ( 2006.01 )  
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(21) 2021353095 (22) 27.09.2021  
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(51) Int. Cl.  
G06F 21/62 ( 2013.01 )  
G06N 3/00 ( 2006.01 )  
G06Q 30/00 ( 2012.01 )  
G06Q 40/00 ( 2012.01 )  
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- (54) Covers for adjustable length bed legs  
(51) Int. Cl.  
A47C 7/50 ( 2006.01 )  
A47C 7/52 ( 2006.01 )  
A47C 17/00 ( 2006.01 )  
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(21) 2021328649 (22) 16.08.2021  
(54) Localized delivery of diagnostic or therapeutic agents using focused ultrasound  
(51) Int. Cl.  
A61K 9/00 ( 2006.01 )  
A61K 9/51 ( 2006.01 )  
A61K 41/00 ( 2020.01 )  
A61K 49/22 ( 2006.01 )  
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(54) N-heterocyclic compounds used as nitration inhibitor  
(51) Int. Cl.  
C05G 3/90 ( 2020.01 )  
A01N 43/76 ( 2006.01 )  
A01N 43/78 ( 2006.01 )  
A01N 43/90 ( 2006.01 )  
C07D 263/16 ( 2006.01 )  
C07D 277/14 ( 2006.01 )  
C07D 277/16 ( 2006.01 )  
C07D 277/26 ( 2006.01 )  
C07D 417/12 ( 2006.01 )  
C07D 417/14 ( 2006.01 )  
C07D 471/04 ( 2006.01 )  
C07D 513/04 ( 2006.01 )  
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(74) Alder IP Pty Ltd
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(54) Cooling tower fan cylinder  
(51) Int. Cl.  
E04H 5/12 ( 2006.01 )  
F04D 29/26 ( 2006.01 )  
F28C 1/00 ( 2006.01 )  
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(74) Davies Collison Cave Pty Ltd
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(11) AU-A-2021347580  
(21) 2021347580 (22) 23.09.2021  
(54) Mammalian cell lines with gene knock-out  
(51) Int. Cl.  
C12N 15/10 ( 2006.01 )  
C12N 15/113 ( 2010.01 )  
C12N 15/63 ( 2006.01 )  
C12N 15/85 ( 2006.01 )  
C12N 15/90 ( 2006.01 )  
C12P 21/00 ( 2006.01 )  
(87) WO2022/063877  
(31) 20197946.5 (32) 24.09.20 (33) EP  
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(72) AUSLAENDER, Simon; BAUER, Niels; OSWALD, Benedikt  
(74) Griffith Hack
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(11) AU-A-2021335368  
(21) 2021335368 (22) 25.08.2021  
(54) Tamper evident pizza box  
(51) Int. Cl.  
B65D 5/66 ( 2006.01 )  
B65D 5/10 ( 2006.01 )  
B65D 5/20 ( 2006.01 )  
B65D 5/54 ( 2006.01 )  
(87) WO2022/047525  
(31) 2020903142 (32) 02.09.20 (33) AU  
(43) 10.03.2022  
(72) VALANCE, Ryko  
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(21) 2021339095 (22) 09.09.2021  
(54) Gyrotory crusher with self-aligning mainshaft features and method of assembly thereof  
(51) Int. Cl.  
B02C 2/02 ( 2006.01 )  
B02C 2/00 ( 2006.01 )  
B02C 2/04 ( 2006.01 )  
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(72) MALONE, William George; HARRIS, Stephen Richard  
(74) FPA Patent Attorneys Pty Ltd
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(21) 2021345218 (22) 17.09.2021  
(54) Check valve assembly having a check valve assembly union formed between a check valve housing, a check valve body adapter and a locking ring  
(51) Int. Cl.  
F16K 15/02 ( 2006.01 )  
F16K 1/36 ( 2006.01 )

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**(11)** AU-A-2021394086  
**(21)** 2021394086 **(22)** 13.05.2021  
**(54)** Multifunctional ladder frame structure  
**(51)** Int. Cl.  
**E06C 1/18** ( 2006.01 )  
**(87)** WO2022/121233  
**(31)** 202011461139.8 **(32)** 11.12.20 **(33)** CN  
**(43)** 16.06.2022  
**(72)** YANG, Mingshun  
**(74)** WRAYS PTY LTD
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- (71)** Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung E. V.  
**(11)** AU-A-2021350391  
**(21)** 2021350391 **(22)** 23.09.2021  
**(54)** Combat training system  
**(51)** Int. Cl.  
**G09B 9/00** ( 2006.01 )  
**F41A 17/08** ( 2006.01 )  
**F41A 33/00** ( 2006.01 )  
**G09B 19/00** ( 2006.01 )  
**(87)** WO2022/063909  
**(31)** 20198191.7 **(32)** 24.09.20 **(33)** EP  
**(43)** 31.03.2022  
**(72)** HEß, Sebastian; NOTHDURFT, Sven; NAU, Siegfried; KUSCHKE, Eckhard  
**(74)** PHILLIPS ORMONDE FITZPATRICK
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**(11)** AU-A-2021370956  
**(21)** 2021370956 **(22)** 26.10.2021  
**(54)** Twist to lock tracheostoma heat and moisture exchanger  
**(51)** Int. Cl.  
**A61M 16/04** ( 2006.01 )  
**A61M 16/10** ( 2006.01 )  
**(87)** WO2022/093735  
**(31)** 17/079,929 **(32)** 26.10.20 **(33)** US  
**(43)** 05.05.2022  
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**(11)** AU-A-2021331666  
**(21)** 2021331666 **(22)** 03.03.2021  
**(54)** Method and device for the capture of wave power  
**(51)** Int. Cl.  
**F03B 13/18** ( 2006.01 )  
**(87)** WO2022/043591  
**(31)** P202000128 **(32)** 28.08.20 **(33)** ES  
**(43)** 03.03.2022  
**(72)** MARTINEZ REVALIENTE, Santiago  
**(74)** Wallington-Dummer
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- (71)** Genentech, Inc.; BioNTech SE  
**(11)** AU-A-2021341829  
**(21)** 2021341829 **(22)** 07.09.2021  
**(54)** Systems and methods for producing pharmaceutical compositions using peristaltic pumps and dampeners  
**(51)** Int. Cl.  
**B01F 35/71** ( 2022.01 )  
**A61K 39/00** ( 2006.01 )  
**B01F 35/83** ( 2022.01 )  
**F04B 11/00** ( 2006.01 )  
**F04B 43/12** ( 2006.01 )  
**(87)** WO2022/055867  
**(31)** 63/075,723 **(32)** 08.09.20 **(33)** US  
**(43)** 17.03.2022  
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**(74)** Griffith Hack
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**(11)** AU-A-2021342503  
**(21)** 2021342503 **(22)** 16.09.2021  
**(54)** Non-viral DNA vectors and uses thereof for expressing FVIII therapeutics  
**(51)** Int. Cl.  
**C12N 15/11** ( 2006.01 )  
**(87)** WO2022/061014  
**(31)** 63/079,349 **(32)** 16.09.20 **(33)** US  
**(43)** 24.03.2022  
**(72)** KLATTE, Debra; MONDS, Russell; HAMM, Luke S.; SILVER, Nathaniel; SAMAYOA, Phillip; KERR, Douglas Anthony; KEENAN, Jessica Lynn  
**(74)** Griffith Hack
- 
- (71)** Generation Bio Co.  
**(11)** AU-A-2021345187  
**(21)** 2021345187 **(22)** 16.09.2021  
**(54)** Closed-ended DNA vectors and uses thereof for expressing phenylalanine hydroxylase (PAH)  
**(51)** Int. Cl.  
**C12N 9/02** ( 2006.01 )  
**A61K 48/00** ( 2006.01 )  
**C12N 15/85** ( 2006.01 )  
**(87)** WO2022/061000  
**(31)** 63/078,954 **(32)** 16.09.20 **(33)** US  
**(43)** 24.03.2022  
**(72)** LIU, Leah Yu; MONDS, Russell; CHIOCCO, Matthew James; SILVER, Nathaniel; SAMAYOA, Phillip; KERR, Douglas Anthony; KEENAN, Jessica Lynn  
**(74)** Griffith Hack
- 
- (71)** Genevoyager (Wuhan) Co., Ltd.  
**(11)** AU-A-2021456512  
**(21)** 2021456512 **(22)** 27.09.2021  
**(54)** Expression cassette for expressing gene comprising overlapping open reading frames in insect cell and application thereof  
**(51)** Int. Cl.  
**C12N 15/85** ( 2006.01 )  
**A61K 48/00** ( 2006.01 )
- 
- C12N 15/864** ( 2006.01 )  
**C12N 15/866** ( 2006.01 )  
**(31)** 202111105263.5 **(32)** 18.09.21 **(33)** CN  
**(43)** 06.04.2023  
**(72)** XIAO, He; HE, Xiaobin; HUANG, Gang; HU, Ying; PAN, Xing; HUANG, He; DU, Liang; WANG, Mengdie  
**(74)** Madderns Pty Ltd
- 
- (71)** Genfit  
**(11)** AU-A-2021334117  
**(21)** 2021334117 **(22)** 25.08.2021  
**(54)** Compositions and methods for the treatment of primary biliary cholangitis  
**(51)** Int. Cl.  
**A61K 31/192** ( 2006.01 )  
**A61P 1/16** ( 2006.01 )  
**(87)** WO2022/043367  
**(31)** 20305953.0 **(32)** 26.08.20 **(33)** EP  
**(43)** 03.03.2022  
**(72)** BIRMAN, Pascal; ROUDOT, Alice; MAGREZ, David; NOEL, Benoît  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** Georg-August-Universität Göttingen Stiftung Öffentlichen Rechts  
**(11)** AU-A-2021342306  
**(21)** 2021342306 **(22)** 08.09.2021  
**(54)** Production method for modified lignocellulose materials  
**(51)** Int. Cl.  
**B27K 3/02** ( 2006.01 )  
**B27K 3/15** ( 2006.01 )  
**B27K 3/50** ( 2006.01 )  
**B27K 5/00** ( 2006.01 )  
**C08L 5/00** ( 2006.01 )  
**(87)** WO2022/053473  
**(31)** 20195348.6 **(32)** 09.09.20 **(33)** EP  
**(43)** 17.03.2022  
**(72)** MILITZ, Holger; EMMERICH, Lukas  
**(74)** PHILLIPS ORMONDE FITZPATRICK
- 
- (71)** GlaxoSmithKline Biologicals SA  
**(11)** AU-A-2021331377  
**(21)** 2021331377 **(22)** 23.08.2021  
**(54)** Pentavalent vaccine against neisseria meningitidis comprising a synthetic men a antigen  
**(51)** Int. Cl.  
**A61K 39/095** ( 2006.01 )  
**A61K 39/00** ( 2006.01 )  
**A61P 31/04** ( 2006.01 )  
**C07K 14/22** ( 2006.01 )  
**(87)** WO2022/043238  
**(31)** 2013262.7 **(32)** 25.08.20 **(33)** GB  
**(43)** 03.03.2022  
**(72)** ADAMO, Roberto; ROMANO, Maria Rosaria; TONTINI, Marta  
**(74)** AJ PARK
- 
- (71)** Global Traffic Technologies, LLC  
**(11)** AU-A-2021329202  
**(21)** 2021329202 **(22)** 20.04.2021  
**(54)** Incident-based traffic signal preemption and priority  
**(51)** Int. Cl.  
**G08G 1/00** ( 2006.01 )



PCT applications which have entered the National Phase - Name Index cont'd

**G08G 1/07** ( 2006.01 )  
**G08G 1/087** ( 2006.01 )  
**(87)** WO2022/039800  
**(31)** 16/997,292                   **(32)** 19.08.20 **(33)** US  
**(43)** 24.02.2022  
**(72)** KULUS, Christian; MACK, Chad;  
 MOORE, Jared  
**(74)** Griffith Hack

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**(71)** Google LLC  
**(11)** AU-A-2020469132  
**(21)** 2020469132                   **(22)** 22.09.2020  
**(54)** Scaling and statistical adjustments of precipitation rates for apparatuses having precipitation sensitive sensors  
**(51)** Int. Cl.  
**G01W 1/10** ( 2006.01 )  
**G01C 15/00** ( 2006.01 )  
**G01C 21/34** ( 2006.01 )  
**G01C 21/36** ( 2006.01 )  
**G01W 1/14** ( 2006.01 )  
**G06F 17/18** ( 2006.01 )  
**G06V 20/56** ( 2022.01 )  
**(87)** WO2022/066138  
**(43)** 31.03.2022  
**(72)** GAIL, William B.  
**(74)** Spruson & Ferguson

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**(71)** Graphic Packaging International, LLC  
**(11)** AU-A-2021351459  
**(21)** 2021351459                   **(22)** 28.09.2021  
**(54)** Carrier for containers  
**(51)** Int. Cl.  
**B65D 71/72** ( 2006.01 )  
**B65D 71/32** ( 2006.01 )  
**B65D 71/42** ( 2006.01 )  
**(87)** WO2022/072304  
**(31)** 63/208,646                   **(32)** 09.06.21 **(33)** US  
 63/136,400                   12.01.21    US  
 63/085,365                   30.09.20    US  
 63/086,681                   02.10.20    US  
 63/120,863                   03.12.20    US  
**(43)** 07.04.2022  
**(72)** MCCREE, Justin; GOULD, Steve M.  
**(74)** PHILLIPS ORMONDE FITZPATRICK

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**(71)** Green, A.  
**(11)** AU-A-2021342816  
**(21)** 2021342816                   **(22)** 13.09.2021  
**(54)** Novel shading system  
**(51)** Int. Cl.  
**E04H 15/02** ( 2006.01 )  
**A45B 25/00** ( 2006.01 )  
**E04B 7/16** ( 2006.01 )  
**E04H 15/10** ( 2006.01 )  
**(87)** WO2022/059001  
**(31)** 63/078,564                   **(32)** 15.09.20 **(33)** US  
**(43)** 24.03.2022  
**(72)** GREEN, Anai  
**(74)** PHILLIPS ORMONDE FITZPATRICK

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**(71)** GROWING TOGETHER RESEARCH INC.  
**(11)** AU-A-2021347292  
**(21)** 2021347292                   **(22)** 22.09.2021  
**(54)** Genetically modified cannabis plants with novel phenotypes

**(51)** Int. Cl.  
**C12N 9/88** ( 2006.01 )  
**C12N 15/52** ( 2006.01 )  
**C12P 7/42** ( 2006.01 )  
**C12P 17/06** ( 2006.01 )  
**(87)** WO2022/066754  
**(31)** 63/081,900                   **(32)** 22.09.20 **(33)** US  
 63/188,354                   13.05.21    US  
**(43)** 31.03.2022  
**(72)** FRANCIS, C. Michael; BORCHERT, Glen; PROCTOR, Samuel E.  
**(74)** Pizzzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Halliburton Energy Services, Inc.  
**(11)** AU-A-2021391179  
**(21)** 2021391179                   **(22)** 23.06.2021  
**(54)** Collapsible bullnose assembly for multi-lateral well  
**(51)** Int. Cl.  
**E21B 7/06** ( 2006.01 )  
**E21B 41/00** ( 2006.01 )  
**(87)** WO2022/119602  
**(31)** 63/120,058                   **(32)** 01.12.20 **(33)** US  
 17/346,909                   14.06.21    US  
**(43)** 09.06.2022  
**(72)** SEET, Shu Yi Dione  
**(74)** PHILLIPS ORMONDE FITZPATRICK

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**(71)** Halliburton Energy Services, Inc.  
**(11)** AU-A-2021401870  
**(21)** 2021401870                   **(22)** 11.11.2021  
**(54)** Apparatus and methods for distributed Brillouin frequency sensing offshore  
**(51)** Int. Cl.  
**G01D 5/353** ( 2006.01 )  
**E21B 47/10** ( 2012.01 )  
**G01M 5/00** ( 2006.01 )  
**G01V 1/22** ( 2006.01 )  
**(87)** WO2022/132350  
**(31)** 63/124,960                   **(32)** 14.12.20 **(33)** US  
 17/518,240                   03.11.21    US  
**(43)** 23.06.2022  
**(72)** MAIDA Jr., John Laureto; STARK, Daniel Joshua; WILSON, Glenn Andrew; ELLMAUTHALER, Andreas; LEBLANC, Michel Joseph; JAASKELAINEN, Mikko K.  
**(74)** PHILLIPS ORMONDE FITZPATRICK

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**(71)** Han, C.  
**(11)** AU-A-2020461178  
**(21)** 2020461178                   **(22)** 28.07.2020  
**(54)** Vegetation maintenance system  
**(51)** Int. Cl.  
**E01C 11/22** ( 2006.01 )  
**(87)** WO2022/021069  
**(43)** 03.02.2022  
**(72)** RICHARDS, Owen Emanuel; HAN, Chunqiao  
**(74)** Madderns Pty Ltd

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**(71)** Heineken Supply Chain B.V.  
**(11)** AU-A-2021342711  
**(21)** 2021342711                   **(22)** 17.09.2021  
**(54)** Low alcohol beer comprising a gluconate component

**(51)** Int. Cl.  
**C12C 11/00** ( 2006.01 )  
**C12C 11/06** ( 2006.01 )  
**C12C 12/00** ( 2006.01 )  
**C12C 12/04** ( 2006.01 )  
**(87)** WO2022/058568  
**(31)** 20196924.3                   **(32)** 18.09.20 **(33)** EP  
 21163360.7                   18.03.21    EP  
**(43)** 24.03.2022  
**(72)** KUIJPERS, Niels Gerard Adriaan; SCHUURMAN, Tom Daniël Elink  
**(74)** Griffith Hack

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**(71)** Hilti Aktiengesellschaft  
**(11)** AU-A-2021357566  
**(21)** 2021357566                   **(22)** 29.09.2021  
**(54)** Fire-protection coating composition and use thereof  
**(51)** Int. Cl.  
**C09D 5/00** ( 2006.01 )  
**C09D 5/02** ( 2006.01 )  
**(87)** WO2022/073826  
**(31)** 20200985.8                   **(32)** 09.10.20 **(33)** EP  
**(43)** 14.04.2022  
**(72)** FARRAS GUTIERREZ, Hector  
**(74)** Spruson & Ferguson

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**(71)** Hitachi, Ltd.  
**(11)** AU-A-2021403968  
**(21)** 2021403968                   **(22)** 07.09.2021  
**(54)** Traveling assistance system and traveling assistance method  
**(51)** Int. Cl.  
**G06Q 50/30** ( 2012.01 )  
**(87)** WO2022/130705  
**(31)** 2020-209109                   **(32)** 17.12.20 **(33)** JP  
**(43)** 23.06.2022  
**(72)** UEMATSU Ryota; MINAKAWA Tsuyoshi; MAEKAWA Yuki  
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Hitachi Construction Machinery Co., Ltd.  
**(11)** AU-A-2022244599  
**(21)** 2022244599                   **(22)** 16.02.2022  
**(54)** Vehicle management system  
**(51)** Int. Cl.  
**G05D 1/02** ( 2020.01 )  
**G08G 1/09** ( 2006.01 )  
**G08G 1/16** ( 2006.01 )  
**(87)** WO2022/201989  
**(31)** 2021-052953                   **(32)** 26.03.21 **(33)** JP  
**(43)** 29.09.2022  
**(72)** KANAI, Masaki; TANAKA, Katsuaki  
**(74)** Griffith Hack

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**(71)** HSU, R.W.Y.  
**(11)** AU-A-2020467829  
**(21)** 2020467829                   **(22)** 30.09.2020  
**(54)** METHODS AND SYSTEMS FOR MAKING AN OPTICAL FUNCTIONAL FILM  
**(51)** Int. Cl.  
**G02C 7/02** ( 2006.01 )  
**G02B 1/10** ( 2015.01 )  
**(87)** WO2022/055520  
**(31)** 17/019,243                   **(32)** 12.09.20 **(33)** US

PCT applications which have entered the National Phase - Name Index cont'd

(43) 17.03.2022  
(72) HSU, Roger, Wen Yi  
(74) Alder IP Pty Ltd

(71) Huawei Technologies Co., Ltd.  
(11) AU-A-2021338321  
(21) 2021338321 (22) 27.08.2021  
(54) Multi-stream associated transmission method, apparatus, and system  
(51) Int. Cl.  
H04W 24/02 ( 2009.01 )  
(87) WO2022/048505  
(31) 202010912396.2 (32) 02.09.20 (33) CN  
(43) 10.03.2022  
(72) HU, Weihua  
(74) PHILLIPS ORMONDE FITZPATRICK

(71) Huawei Technologies Co., Ltd.  
(11) AU-A-2021404523  
(21) 2021404523 (22) 18.11.2021  
(54) Protocol data unit (PPDU) transmission method and device  
(51) Int. Cl.  
H04W 28/06 ( 2009.01 )  
H04W 28/20 ( 2009.01 )  
(87) WO2022/127505  
(31) 202011511846.3 (32) 18.12.20 (33) CN  
(43) 23.06.2022  
(72) LI, Yunbo; GAN, Ming; YU, Jian; GUO, Yuchen; LI, Yiqing; HUANG, Guogang  
(74) PHILLIPS ORMONDE FITZPATRICK

(71) Huawei Technologies Co., Ltd.  
(11) AU-A-2021418658  
(21) 2021418658 (22) 16.12.2021  
(54) Method for recovering right to use transmission opportunity, and related apparatus  
(51) Int. Cl.  
H04W 72/04 ( 2009.01 )  
H04W 84/12 ( 2009.01 )  
(87) WO2022/151912  
(31) 202110056633.4 (32) 15.01.21 (33) CN  
202110437428.2 22.04.21 CN  
(43) 21.07.2022  
(72) YANG, Mao; LI, Bo; LI, Yunbo; GAN, Ming  
(74) PHILLIPS ORMONDE FITZPATRICK

(71) Huawei Technologies Co., Ltd.  
(11) AU-A-2021444140  
(21) 2021444140 (22) 04.05.2021  
(54) Devices and methods for energy efficient multi-link communication in a wireless network  
(51) Int. Cl.  
H04W 52/02 ( 2009.01 )  
H04W 84/12 ( 2009.01 )  
H04W 88/06 ( 2009.01 )  
H04W 88/10 ( 2009.01 )  
(87) WO2022/233395  
(43) 10.11.2022  
(72) KLEIN, Arik; SHILO, Shimon; WEITZMAN, Avi; EPSTEIN, Avner  
(74) PHILLIPS ORMONDE FITZPATRICK

(71) Huawei Technologies Co., Ltd.  
(11) AU-A-2022207565  
(21) 2022207565 (22) 12.01.2022  
(54) Multi-link reconfiguration method and apparatus  
(51) Int. Cl.  
H04W 76/15 ( 2018.01 )  
H04W 76/19 ( 2018.01 )  
H04W 76/30 ( 2018.01 )  
H04W 76/34 ( 2018.01 )  
(87) WO2022/152184  
(31) 202110058021.9 (32) 15.01.21 (33) CN  
202110713587.0 25.06.21 CN  
202110778961.5 09.07.21 CN  
(43) 21.07.2022  
(72) HUANG, Guogang; GUO, Yuchen; LI, Yunbo; GAN, Ming  
(74) PHILLIPS ORMONDE FITZPATRICK

(71) Huawei Technologies Co., Ltd.  
(11) AU-A-2022325173  
(21) 2022325173 (22) 11.07.2022  
(54) Radio frame sending method and apparatus, and radio frame receiving method and apparatus  
(51) Int. Cl.  
H04W 16/14 ( 2009.01 )  
(31) 202111116089.4 (32) 23.09.21 (33) CN  
(43) 06.04.2023  
(72) GUO, Yuchen; LI, Yiqing; GAN, Ming  
(74) PHILLIPS ORMONDE FITZPATRICK

(71) Hunter Douglas, Inc.  
(11) AU-A-2021349841  
(21) 2021349841 (22) 13.08.2021  
(54) Systems and methods for executing a reset mode for architectural structure coverings  
(51) Int. Cl.  
E06B 9/68 ( 2006.01 )  
E06B 9/32 ( 2006.01 )  
E06B 9/72 ( 2006.01 )  
G08C 17/02 ( 2006.01 )  
(87) WO2022/066312  
(31) 63/082,136 (32) 23.09.20 (33) US  
(43) 31.03.2022  
(72) WESLEY, Felteau  
(74) Spruson & Ferguson

(71) Hypertunnel IP Limited  
(11) AU-A-2021342761  
(21) 2021342761 (22) 10.09.2021  
(54) Method and system of underground deployment of materials and equipment  
(51) Int. Cl.  
E21D 9/00 ( 2006.01 )  
E02D 3/12 ( 2006.01 )  
E02D 27/00 ( 2006.01 )  
E02D 37/00 ( 2006.01 )  
E21B 7/04 ( 2006.01 )  
E21B 7/06 ( 2006.01 )  
(87) WO2022/058853  
(31) 2014837.5 (32) 21.09.20 (33) GB  
(43) 24.03.2022  
(72) HELLIWELL, James; MEEKS, Alan; JORDAN, Steve  
(74) Golja Haines & Friend

(71) Icahn School of Medicine at Mount Sinai  
(11) AU-A-2019419414  
(21) 2019419414 (22) 31.12.2019  
(54) Kinase inhibitor compounds and compositions and methods of use  
(51) Int. Cl.  
C07D 401/04 ( 2006.01 )  
C07D 403/02 ( 2006.01 )  
C07D 403/14 ( 2006.01 )  
(87) WO2020/142485  
(31) 62/786,966 (32) 31.12.18 (33) US  
(43) 09.07.2020  
(72) DEVITA, Robert J.; STEWART, Andrew F.; SUEBSUWONG, Chalada; KUMAR, Kunal; WANG, Peng; SANCHEZ, Roberto J.; WANG, Hui  
(74) PHILLIPS ORMONDE FITZPATRICK

(71) IFP Energies nouvelles  
(11) AU-A-2021346776  
(21) 2021346776 (22) 09.09.2021  
(54) Method for processing pyrolysis oils from plastics and/or solid recovered fuels loaded with impurities  
(51) Int. Cl.  
C10G 1/10 ( 2006.01 )  
B09B 3/00 ( 2022.01 )  
B09B 5/00 ( 2006.01 )  
C10B 53/00 ( 2006.01 )  
C10B 53/07 ( 2006.01 )  
C10G 1/00 ( 2006.01 )  
C10G 9/36 ( 2006.01 )  
C10G 25/00 ( 2006.01 )  
C10G 31/08 ( 2006.01 )  
C10G 31/09 ( 2006.01 )  
C10G 45/34 ( 2006.01 )  
C10G 47/18 ( 2006.01 )  
C10G 47/20 ( 2006.01 )  
C10G 65/12 ( 2006.01 )  
C10G 69/06 ( 2006.01 )  
(87) WO2022/063597  
(31) FR2009750 (32) 25.09.20 (33) FR  
(43) 31.03.2022  
(72) WEISS, Wilfried; QUIGNARD, Alain; NGUYEN-HONG, Duc  
(74) Griffith Hack

(71) IFP Energies nouvelles  
(11) AU-A-2021354733  
(21) 2021354733 (22) 17.09.2021  
(54) Method for solvolysing tyres with recycling of a hydrocarbon fraction comprising aromatic compounds  
(51) Int. Cl.  
C09C 1/48 ( 2006.01 )  
B29B 17/00 ( 2006.01 )  
C10G 1/00 ( 2006.01 )  
C10G 1/02 ( 2006.01 )  
C10G 1/04 ( 2006.01 )  
C10G 1/10 ( 2006.01 )  
C10G 21/00 ( 2006.01 )  
(87) WO2022/069259  
(31) FR2009912 (32) 29.09.20 (33) FR  
(43) 07.04.2022  
(72) CLOUPET, Ann; DIGNE, Romina  
(74) Griffith Hack

PCT applications which have entered the National Phase - Name Index cont'd

(71) igus GmbH  
 (11) AU-A-2021319851  
 (21) 2021319851 (22) 03.08.2021  
 (54) Line-guiding apparatus for suspended applications, more particularly drilling rigs, drilling devices or the like  
 (51) Int. Cl.  
*H02G 3/04* ( 2006.01 )  
*F16G 13/16* ( 2006.01 )  
*F16L 3/015* ( 2006.01 )  
*H02G 11/00* ( 2006.01 )  
 (87) WO2022/029148  
 (31) 20 2020 104 482.6 (32) 03.08.20 (33) DE  
 (43) 10.02.2022  
 (72) HERMEY, Andreas; HOWOLD, Philip; SCHMIDT, Christoph; SCHNEEBECK, Tim; SCHULTES, Thilo Konrad  
 (74) FB Rice Pty Ltd

(71) IMPACT BIO USA Inc.  
 (11) AU-A-2021336547  
 (21) 2021336547 (22) 07.09.2021  
 (54) Bicistronic inhibitory chimeric antigen receptor (iCAR)/activating chimeric antigen receptor (aCAR) constructs for use in cancer therapies  
 (51) Int. Cl.  
*A61K 35/17* ( 2015.01 )  
*A61K 39/00* ( 2006.01 )  
*A61P 35/00* ( 2006.01 )  
*C07K 16/28* ( 2006.01 )  
 (87) WO2022/051727  
 (31) 63/074,812 (32) 04.09.20 (33) US  
 63/178,452 22.04.21 US  
 (43) 10.03.2022  
 (72) YI, Jason; SHARBI-YUNGER, Adi; KENDALL, Rick; CALZONE, Frank; FOORD, Orit; ADAMS, Gregor B.; KIM, Tanya; BASSAN, David  
 (74) Davies Collison Cave Pty Ltd

(71) Inari Agriculture Technology, Inc.  
 (11) AU-A-2021350117  
 (21) 2021350117 (22) 27.09.2021  
 (54) Genetic regulatory element  
 (51) Int. Cl.  
*C12N 15/67* ( 2006.01 )  
*C12N 15/82* ( 2006.01 )  
 (87) WO2022/067152  
 (31) 63/084,150 (32) 28.09.20 (33) US  
 17/249,437 02.03.21 US  
 (43) 31.03.2022  
 (72) CLAEYS, Hannes Bart  
 (74) Foote Intellectual Property Limited

(71) Incyte Corporation  
 (11) AU-A-2021329303  
 (21) 2021329303 (22) 17.08.2021  
 (54) Process and intermediates for preparing a JAK inhibitor  
 (51) Int. Cl.  
*C07D 487/04* ( 2006.01 )  
*C07C 233/00* ( 2006.01 )  
*C07C 255/00* ( 2006.01 )  
*C07D 239/28* ( 2006.01 )  
 (87) WO2022/040180  
 (31) 63/067,097 (32) 18.08.20 (33) US  
 63/214,012 23.06.21 US  
 63/217,498 01.07.21 US

(43) 24.02.2022  
 (72) ZHOU, Jiacheng; CHEN, Shili; LIU, Pingli; MELONI, David J.; PARKS, James M.; PAN, Yongchun; SU, Naijing; XIA, Michael; LIU, Weiguo  
 (74) Houlihan Intellectual Property Pty Ltd

(71) INNOVATIVE ROBOT DELIVERY GMBH  
 (11) AU-A-2021382325  
 (21) 2021382325 (22) 19.11.2021  
 (54) Method, depot device and system for transferring a plurality of packages to a plurality of recipients and/or for receiving a plurality of packages from a plurality of deliverers  
 (51) Int. Cl.  
*G06Q 10/04* ( 2012.01 )  
*G06Q 10/08* ( 2012.01 )  
*G06Q 50/28* ( 2012.01 )  
 (87) WO2022/106598  
 (31) 10 2020 214 660.8 (32) 20.11.20 (33) DE  
 10 2020 216 560.2 23.12.20 DE  
 10 2020 216 558.0 23.12.20 DE  
 10 2021 200 970.0 03.02.21 DE  
 10 2021 201 155.1 08.02.21 DE  
 10 2021 103 926.6 18.02.21 DE  
 10 2021 104 973.3 02.03.21 DE  
 10 2021 201 964.1 02.03.21 DE  
 10 2021 207 620.3 16.07.21 DE  
 10 2021 207 617.3 16.07.21 DE

(43) 27.05.2022  
 (72) BORGER, Christian; MAYER, Boris; SCHARES, Christof  
 (74) AJ PARK

(71) International Business Machines Corporation  
 (11) AU-A-2021378062  
 (21) 2021378062 (22) 09.11.2021  
 (54) Strategic pausing for quantum state leakage mitigation  
 (51) Int. Cl.  
*G06N 10/70* ( 2022.01 )  
 (87) WO2022/101229  
 (31) 17/096,170 (32) 12.11.20 (33) US  
 (43) 19.05.2022  
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 (51) Int. Cl.  
*G06N 10/20* ( 2022.01 )  
*G06N 10/80* ( 2022.01 )  
*G06N 5/02* ( 2006.01 )  
*G06N 20/00* ( 2019.01 )  
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 (54) Optically multiplexed quantum control interface  
 (51) Int. Cl.  
*G06N 10/40* ( 2022.01 )  
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 (72) RITTER, Mark; ORCUTT, Jason; GUMANN, Patryk  
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(71) Invacare International GmbH  
 (11) AU-A-2021339990  
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 (54) Dual-strap hoisting device and patient lift apparatus comprising the same  
 (51) Int. Cl.  
*A61G 7/10* ( 2006.01 )  
 (87) WO2022/053919  
 (31) 20195686.9 (32) 11.09.20 (33) EP  
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 (72) STOKMAN, Petrus Henricus Maria; DE SEIXAS GUIMARÃES, Tiago; GONÇALVES, Henrique; MONTEIRO, Mark  
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(71) iRhythm Technologies, Inc.  
 (11) AU-A-2021320404  
 (21) 2021320404 (22) 06.08.2021  
 (54) Electrical components for physiological monitoring device  
 (51) Int. Cl.  
*A61B 5/00* ( 2006.01 )  
*A61B 5/024* ( 2006.01 )  
*A61B 5/0245* ( 2006.01 )  
*A61B 5/256* ( 2021.01 )  
*A61B 5/325* ( 2021.01 )  
*A61B 5/352* ( 2021.01 )  
*A61B 90/00* ( 2016.01 )  
*A61K 9/70* ( 2006.01 )  
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 (74) Davies Collison Cave Pty Ltd

(71) Irhythm Technologies, Inc.  
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 (21) 2021322280 (22) 06.08.2021  
 (54) Adhesive physiological monitoring device  
 (51) Int. Cl.  
*A61B 5/00* ( 2006.01 )  
*A61B 5/024* ( 2006.01 )  
*A61B 5/0245* ( 2006.01 )  
*A61B 5/352* ( 2021.01 )  
*A61F 13/537* ( 2006.01 )  
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 (51) Int. Cl.  
*C10G 11/02* ( 2006.01 )  
*B01J 29/46* ( 2006.01 )  
*C10G 11/05* ( 2006.01 )  
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 (54) Staged gas injection system  
 (51) Int. Cl.  
*F23G 7/08* ( 2006.01 )  
 (87) WO2022/074475  
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 (54) Staged gas injection system  
 (51) Int. Cl.  
*F23G 7/08* ( 2006.01 )  
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 (11) AU-A-2021327407  
 (21) 2021327407 (22) 23.08.2021  
 (54) Ready-to-use eyelash extensions  
 (51) Int. Cl.  
*A41G 5/00* ( 2006.01 )  
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*A45D 40/30* ( 2006.01 )  
*C09J 7/00* ( 2018.01 )  
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 (72) AHN, Kichul; KIM, Jieun; BANG, Jane  
 (74) FPA Patent Attorneys Pty Ltd
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 (54) Non-invasive analyte sensor and automated response systems and methods  
 (51) Int. Cl.  
*A61B 5/145* ( 2006.01 )  
*A61B 5/00* ( 2006.01 )  
*A61B 5/05* ( 2021.01 )  
*G16H 20/17* ( 2018.01 )  
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 (72) BOSUA, Phillip  
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 (54) Water digger  
 (51) Int. Cl.  
*B01D 43/00* ( 2006.01 )  
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*E02F 3/88* ( 2006.01 )  
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 (11) AU-A-2021321595  
 (21) 2021321595 (22) 30.07.2021  
 (54) System and method for selective application of cosmetic composition to impart undereye brightening  
 (51) Int. Cl.  
*A61B 5/00* ( 2006.01 )
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 (21) 2021338560 (22) 03.09.2021  
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 (51) Int. Cl.  
*A61K 31/7048* ( 2006.01 )  
*A61K 31/07* ( 2006.01 )  
*A61K 39/215* ( 2006.01 )  
*A61K 45/06* ( 2006.01 )  
*A61P 31/14* ( 2006.01 )  
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 (74) Griffith Hack
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 (51) Int. Cl.  
*A01K 1/03* ( 2006.01 )  
*A61L 9/20* ( 2006.01 )  
*A61L 9/22* ( 2006.01 )  
*B01D 46/00* ( 2022.01 )  
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 (74) James & Wells Intellectual Property
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- (71) Janux Therapeutics, Inc.  
 (11) AU-A-2021326469  
 (21) 2021326469 (22) 10.08.2021  
 (54) Cleavable linker compositions and methods  
 (51) Int. Cl.  
*C07K 7/04* ( 2006.01 )  
*C07K 14/00* ( 2006.01 )  
*C07K 19/00* ( 2006.01 )  
*C12N 9/14* ( 2006.01 )  
*C12N 9/48* ( 2006.01 )  
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 (21) 2021343666 (22) 14.09.2021  
 (54) Information processing device, information processing method, and program  
 (51) Int. Cl.  
*G06V 30/12* ( 2022.01 )  
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 (31) 2020-157639 (32) 18.09.20 (33) JP
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 (51) Int. Cl.  
*G06V 30/12* ( 2022.01 )  
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 (74) FB Rice Pty Ltd
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 (11) AU-A-2021332357  
 (21) 2021332357 (22) 27.08.2021  
 (54) Autonomous subsea tieback enabling platform  
 (51) Int. Cl.  
*B63B 35/44* ( 2006.01 )  
*B63B 21/66* ( 2006.01 )  
*B63B 35/00* ( 2020.01 )  
*B63B 35/40* ( 2006.01 )  
*E21B 41/00* ( 2006.01 )  
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 (21) 2021332357 (22) 27.08.2021  
 (54) Autonomous subsea tieback enabling platform  
 (51) Int. Cl.  
*B63B 35/44* ( 2006.01 )  
*B63B 21/66* ( 2006.01 )  
*B63B 35/00* ( 2020.01 )  
*B63B 35/40* ( 2006.01 )  
*E21B 41/00* ( 2006.01 )  
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- (71) Krauss-Maffei Wegmann GmbH & Co. KG  
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(21) 2021366077 (22) 06.10.2021  
(54) Determination of a fire guidance solution of an artillery weapon  
(51) Int. Cl.  
F41G 3/02 ( 2006.01 )  
F41A 17/08 ( 2006.01 )  
F41G 3/06 ( 2006.01 )  
F41G 3/12 ( 2006.01 )  
F41G 3/22 ( 2006.01 )  
F41G 5/24 ( 2006.01 )  
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(31) 10 2020 127 430.0 (32) 19.10.20 (33) DE  
(43) 28.04.2022  
(72) SCHEIBEL, Axel; CZOK, Matthias  
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- (71) Kyocera Corporation  
(11) AU-A-2021340988  
(21) 2021340988 (22) 06.09.2021  
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(51) Int. Cl.  
C08F 255/00 ( 2006.01 )  
A61L 27/16 ( 2006.01 )  
A61L 27/18 ( 2006.01 )  
C08F 283/06 ( 2006.01 )  
C08J 7/12 ( 2006.01 )  
C08J 7/16 ( 2006.01 )  
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(51) Int. Cl.  
A63G 9/00 ( 2006.01 )  
A63G 9/04 ( 2006.01 )  
A63G 31/02 ( 2006.01 )  
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(74) FPA Patent Attorneys Pty Ltd
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(21) 2021335915 (22) 03.09.2021  
(54) Tank feasible for cryogenic service
- (51) Int. Cl.  
F17C 1/12 ( 2006.01 )  
F17C 3/02 ( 2006.01 )  
F17C 13/00 ( 2006.01 )  
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(31) 20200964 (32) 04.09.20 (33) NO  
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(11) AU-A-2021336470  
(21) 2021336470 (22) 03.09.2021  
(54) Insulated tank with integrated or operatively connected support system  
(51) Int. Cl.  
F17C 3/02 ( 2006.01 )  
F17C 13/08 ( 2006.01 )  
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(51) Int. Cl.  
G06F 21/44 ( 2013.01 )  
G06F 21/73 ( 2013.01 )  
G06F 21/85 ( 2013.01 )  
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(54) Method and means for generating transcribed nucleic acids  
(51) Int. Cl.  
C12Q 1/6865 ( 2018.01 )  
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(54) Laundry drying machine and controlling method of laundry drying machine  
(51) Int. Cl.  
D06F 58/26 ( 2006.01 )  
D06F 34/10 ( 2020.01 )  
D06F 34/14 ( 2020.01 )
- D06F 34/18 ( 2020.01 )  
D06F 58/08 ( 2006.01 )  
D06F 58/40 ( 2020.01 )  
D06F 58/44 ( 2020.01 )  
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F26B 3/347 ( 2006.01 )  
(87) WO2022/050824  
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(74) Dentons Patent Attorneys Australasia Limited
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(54) Laundry treating apparatus  
(51) Int. Cl.  
D06F 58/08 ( 2006.01 )  
D06F 58/26 ( 2006.01 )  
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(74) Dentons Patent Attorneys Australasia Limited
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- (71) LG Energy Solution, Ltd.; RENAULT S.A.S  
(11) AU-A-2021324445  
(21) 2021324445 (22) 04.08.2021  
(54) Battery module having cooling structure using insulation coolant, and battery pack and vehicle which include same  
(51) Int. Cl.  
H01M 10/6567 ( 2014.01 )  
H01M 10/613 ( 2014.01 )  
H01M 10/647 ( 2014.01 )  
H01M 10/6556 ( 2014.01 )  
H01M 50/20 ( 2021.01 )  
(87) WO2022/035123  
(31) 10-2020-0101935 (32) 13.08.20 (33) KR  
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(54) Battery module having improved fire prevention performance  
(51) Int. Cl.  
H01M 50/383 ( 2021.01 )  
H01M 50/211 ( 2021.01 )  
H01M 50/24 ( 2021.01 )  
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 (11) AU-A-2021326466  
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 (54) Manufacture of patient-specific orthodontic brackets with tooth-specific breakaway mechanism  
 (51) Int. Cl.  
**A61C 7/16** ( 2006.01 )  
**A61C 7/14** ( 2006.01 )  
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- (71) Lindsay Corporation  
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 (21) 2021322594 (22) 19.07.2021  
 (54) Maintenance monitoring and reporting system for a mobile agricultural irrigation system  
 (51) Int. Cl.  
**A01G 25/16** ( 2006.01 )  
**A01G 25/09** ( 2006.01 )  
**G05B 23/02** ( 2006.01 )  
 (87) WO2022/031426  
 (31) 16/984,217 (32) 04.08.20 (33) US  
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 (72) CITURS, Arnel Berton; MILLER, Mark William; BARKER, Luke; PROVAZNIK, Richard Edward  
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 (21) 2021331730 (22) 09.08.2021  
 (54) Antitumor bacterial strain, and composition and method using same  
 (51) Int. Cl.  
**C12N 1/20** ( 2006.01 )  
**A23L 33/135** ( 2016.01 )  
**A61K 35/74** ( 2015.01 )  
**A61K 35/744** ( 2015.01 )  
**A61K 39/00** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**C12P 7/56** ( 2006.01 )  
**C12R 1/46** ( 2006.01 )  
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 (11) AU-A-2021332899
- (21) 2021332899 (22) 09.08.2021  
 (54) Lactobacillus plantarum microorganisms having anti-cancer activity, composition including same, and method for preventing or treating cancer using same  
 (51) Int. Cl.  
**C12N 1/20** ( 2006.01 )  
**A23L 33/135** ( 2016.01 )  
**A61K 35/747** ( 2015.01 )  
**A61P 35/00** ( 2006.01 )  
**C12R 1/25** ( 2006.01 )  
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- (71) LPS IP, LLC  
 (11) AU-A-2021321414  
 (21) 2021321414 (22) 04.08.2021  
 (54) Sealed pipeline connection, pipeline sleeve, and lockable pipeline seals and method of making same  
 (51) Int. Cl.  
**F16L 13/02** ( 2006.01 )  
**F16L 21/02** ( 2006.01 )  
 (87) WO2022/031767  
 (31) 63/061,786 (32) 05.08.20 (33) US  
 (43) 10.02.2022  
 (72) DE OLIVEIRA E SILVA, Jose Anisio; SEARS, Ryan Michael  
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- (71) Lucid Software, Inc.  
 (11) AU-A-2021358762  
 (21) 2021358762 (22) 05.10.2021  
 (54) Online collaboration platform  
 (51) Int. Cl.  
**G06Q 10/10** ( 2012.01 )  
**G06F 3/0482** ( 2013.01 )  
**G06F 3/0484** ( 2022.01 )  
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 (31) 63/087,764 (32) 05.10.20 (33) US  
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 (74) Pangaea IP Consultants
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- (71) Lucid Software, Inc.  
 (11) AU-A-2021365131  
 (21) 2021365131 (22) 20.10.2021  
 (54) Summary shapes  
 (51) Int. Cl.  
**G06F 3/0484** ( 2022.01 )  
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**G06F 8/34** ( 2018.01 )  
**G06T 11/20** ( 2006.01 )  
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 (72) ELLSWORTH, Kevin Michael; REECE, Kevin Joseph; BRONSON, Jonathan; MORE, Aditya; WILLIAMS, Alexander R.  
 (74) Pangaea IP Consultants
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- (71) Lumus Ltd.  
 (11) AU-A-2021428719  
 (21) 2021428719 (22) 20.09.2021  
 (54) Optical systems including light-guide optical elements for two-dimensional expansion with retarder element  
 (51) Int. Cl.  
**G02B 6/27** ( 2006.01 )  
**F21V 8/00** ( 2006.01 )  
**G02B 27/00** ( 2006.01 )  
**G02B 27/01** ( 2006.01 )  
**G02B 27/28** ( 2006.01 )  
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 (72) CHRIKI, Ronen; SHARLIN, Elad; EISENFELD, Tsion; GRABARNIK, Shimon  
 (74) Wallington-Dummer
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- (71) Luxembourg Institute of Science and Technology (LIST)  
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 (21) 2021334849 (22) 16.08.2021  
 (54) Magnetic sector with a shunt for a mass spectrometer  
 (51) Int. Cl.  
**H01J 49/30** ( 2006.01 )  
 (87) WO2022/043118  
 (31) LU102015 (32) 27.08.20 (33) LU  
 (43) 03.03.2022  
 (72) HOANG, Hung Quang  
 (74) Pizzey's Patent and Trade Mark Attorneys Pty Ltd
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- (71) Lyme Revive Foundation  
 (11) AU-A-2021337742  
 (21) 2021337742 (22) 03.09.2021  
 (54) Mineral cation complex compositions, formulations thereof, and methods of use thereof  
 (51) Int. Cl.  
**C08G 18/48** ( 2006.01 )  
**C08G 18/71** ( 2006.01 )  
**C08G 18/75** ( 2006.01 )  
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 (31) 63/074,982 (32) 04.09.20 (33) US  
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 (72) KENNEDY, John Wayne  
 (74) Pizzey's Patent and Trade Mark Attorneys Pty Ltd
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- (71) Manitou BF  
 (11) AU-A-2021354931  
 (21) 2021354931 (22) 29.09.2021  
 (54) Handling machine and method for managing battery charge  
 (51) Int. Cl.  
**B60L 3/12** ( 2006.01 )  
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**(43)** 07.04.2022  
**(72)** KAMBA, Elie  
**(74)** Griffith Hack
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- (71)** Marengo Therapeutics, Inc.  
**(11)** AU-A-2021331075  
**(21)** 2021331075 **(22)** 25.08.2021  
**(54)** Multifunctional molecules that bind to calreticulin and uses thereof  
**(51)** Int. Cl.  
**C07K 16/18** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**C07K 16/28** ( 2006.01 )  
**C07K 16/30** ( 2006.01 )  
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**(31)** 63/070,769 **(32)** 26.08.20 **(33)** US  
**(43)** 03.03.2022  
**(72)** LOEW, Andreas; KATRAGADDA, Madan; PARK, Saeyoung; SERVAT-TALAB, Roya  
**(74)** Spruson & Ferguson
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- (71)** Marengo Therapeutics, Inc.  
**(11)** AU-A-2021331076  
**(21)** 2021331076 **(22)** 25.08.2021  
**(54)** Antibody molecules that bind to NKp30 and uses thereof  
**(51)** Int. Cl.  
**A61P 35/00** ( 2006.01 )  
**A61P 35/02** ( 2006.01 )  
**C07K 14/71** ( 2006.01 )  
**C07K 16/32** ( 2006.01 )  
**C07K 16/40** ( 2006.01 )  
**(87)** WO2022/046922  
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**(43)** 03.03.2022  
**(72)** LOEW, Andreas; KATRAGADDA, Madan; TIFFANY, Andrea  
**(74)** Spruson & Ferguson
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- (71)** Medtronic, Inc.  
**(11)** AU-A-2021320651  
**(21)** 2021320651 **(22)** 03.08.2021  
**(54)** Implantable lead migration monitoring using ECAP  
**(51)** Int. Cl.  
**A61B 5/24** ( 2021.01 )  
**A61B 5/00** ( 2006.01 )  
**A61N 1/05** ( 2006.01 )  
**A61N 1/08** ( 2006.01 )  
**A61N 1/36** ( 2006.01 )  
**G16H 40/63** ( 2018.01 )  
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**(43)** 10.02.2022  
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**(74)** FB Rice Pty Ltd
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- (71)** Mehta, S.  
**(11)** AU-A-2021335131  
**(21)** 2021335131 **(22)** 21.08.2021  
**(54)** An automated centrifugation device and methods to continuously separate components from different mixtures  
**(51)** Int. Cl.  
**B04B 1/20** ( 2006.01 )  
**B04B 9/10** ( 2006.01 )  
**B07B 7/08** ( 2006.01 )  
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**(43)** 03.03.2022  
**(72)** MEHTA, Sunil  
**(74)** Spruson & Ferguson
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- (71)** MELD Manufacturing Corporation  
**(11)** AU-A-2021322299  
**(21)** 2021322299 **(22)** 06.08.2021  
**(54)** Accessory device for a solid-state additive manufacturing system enabling printing of large and complex parts  
**(51)** Int. Cl.  
**B29C 64/20** ( 2017.01 )  
**(87)** WO2022/032061  
**(31)** 63/062,266 **(32)** 06.08.20 **(33)** US  
**(43)** 10.02.2022  
**(72)** HARDWICK, Nanci; COX, Chase; GARGUILO, Christopher; LETTERY, Joseph; LALANDE, Frederic  
**(74)** LAMINAR IP PTY LTD
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- (71)** Merck Patent GmbH  
**(11)** AU-A-2021342333  
**(21)** 2021342333 **(22)** 10.09.2021  
**(54)** Novel treatment regimen for the treatment of autoimmune disorders  
**(51)** Int. Cl.  
**A61K 31/7076** ( 2006.01 )  
**A61P 37/00** ( 2006.01 )  
**(87)** WO2022/053608  
**(31)** 63/149,196 **(32)** 12.02.21 **(33)** US  
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**(43)** 17.03.2022  
**(72)** BOSCHERT, Ursula; WIEDERMAN, Urs  
**(74)** Griffith Hack
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**(11)** AU-A-2020465091  
**(21)** 2020465091 **(22)** 28.08.2020  
**(54)** A method and an arrangement for improving a mineral flotation process  
**(51)** Int. Cl.  
**C02F 1/24** ( 2006.01 )  
**B03D 1/001** ( 2006.01 )  
**B03D 1/02** ( 2006.01 )  
**B03D 1/14** ( 2006.01 )  
**C02F 1/52** ( 2006.01 )  
**B03D 103/02** ( 2006.01 )  
**C02F 101/10** ( 2006.01 )  
**C02F 103/10** ( 2006.01 )  
**C02F 103/16** ( 2006.01 )  
**(87)** WO2022/043601
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**(72)** JANSSON, Kaj; SAARI, Eija  
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD
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- (71)** Millicent Pharma Limited  
**(11)** AU-A-2021351921  
**(21)** 2021351921 **(22)** 24.06.2021  
**(54)** Orodispersible formulations  
**(51)** Int. Cl.  
**A61K 9/20** ( 2006.01 )  
**A61K 31/565** ( 2006.01 )  
**A61K 31/567** ( 2006.01 )  
**A61P 5/30** ( 2006.01 )  
**A61P 15/18** ( 2006.01 )  
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**(43)** 07.04.2022  
**(72)** LOUGHLIN, Ryan; BOISSONNEAULT, Roger M.  
**(74)** PHILLIPS ORMONDE FITZPATRICK
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- (71)** Mincon International Limited  
**(11)** AU-A-2021328219  
**(21)** 2021328219 **(22)** 18.08.2021  
**(54)** Flapper valve for percussion drill tools  
**(51)** Int. Cl.  
**E21B 34/08** ( 2006.01 )  
**(87)** WO2022/038188  
**(31)** S2020/0186 **(32)** 19.08.20 **(33)** IE  
**(43)** 24.02.2022  
**(72)** SEXTON, Ben; KESKINIVA, Markku  
**(74)** WRAYS PTY LTD
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- (71)** Minusplus Generáltervező Kft.  
**(11)** AU-A-2020461593  
**(21)** 2020461593 **(22)** 03.09.2020  
**(54)** Shading structure  
**(51)** Int. Cl.  
**A45B 23/00** ( 2006.01 )  
**A45B 25/02** ( 2006.01 )  
**A45B 25/18** ( 2006.01 )  
**A45B 11/00** ( 2006.01 )  
**A45B 19/00** ( 2006.01 )  
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**(87)** WO2022/029458  
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**(43)** 10.02.2022  
**(72)** ALEXA, Zsolt; CSIRE, Géza; RABB, Donát Csegő; SCHRECK, Ákos  
**(74)** FB Rice Pty Ltd
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- (71)** Mitsubishi Electric Corporation  
**(11)** AU-A-2019442941  
**(21)** 2019442941 **(22)** 25.04.2019  
**(54)** Impeller, multi-blade blower, and air-conditioning device  
**(51)** Int. Cl.  
**F04D 29/30** ( 2006.01 )  
**F04D 17/16** ( 2006.01 )  
**F04D 29/28** ( 2006.01 )  
**F04D 29/44** ( 2006.01 )  
**F04D 29/60** ( 2006.01 )  
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 (74) Griffith Hack
- 
- (71) Mitsubishi Electric Corporation  
 (11) AU-A-2020467017  
 (21) 2020467017 (22) 09.09.2020  
 (54) Rotor, electric motor, blower, and air conditioning device  
 (51) Int. Cl.  
*H02K 1/27* ( 2022.01 )  
 (87) WO2022/054149  
 (43) 17.03.2022  
 (72) WATANABE, Takanori; TSUCHIDA, Kazuchika; SHIMOKAWA, Takaya; TAKAHASHI, Ryogo; TAMURA, Naoki  
 (74) Griffith Hack
- 
- (71) Mitsubishi Electric Corporation  
 (11) AU-A-2020469336  
 (21) 2020469336 (22) 28.09.2020  
 (54) Motor, compressor, refrigeration cycle device, and method for manufacturing motor  
 (51) Int. Cl.  
*H02K 1/27* ( 2022.01 )  
 (87) WO2022/064706  
 (43) 31.03.2022  
 (72) NIGO, Masahiro  
 (74) Griffith Hack
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- (71) Mitsubishi Heavy Industries Engineering, Ltd.  
 (11) AU-A-2021356901  
 (21) 2021356901 (22) 22.09.2021  
 (54) Analysis system and management system, analysis method, and analysis program  
 (51) Int. Cl.  
*G01N 31/00* ( 2006.01 )  
*G01N 1/00* ( 2006.01 )  
*G01N 1/10* ( 2006.01 )  
*G01N 21/77* ( 2006.01 )  
*G01N 21/78* ( 2006.01 )  
*G01N 33/00* ( 2006.01 )  
*G01N 33/18* ( 2006.01 )  
 (87) WO2022/075063  
 (31) 2020-170955 (32) 09.10.20 (33) JP  
 (43) 14.04.2022  
 (72) CHIYOMARU, Masaru; KISHIMOTO, Shinya; TSUJIUCHI, Tatsuya; HIRATA, Takuya  
 (74) Davies Collison Cave Pty Ltd
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- (71) Mitsubishi Shipbuilding Co., Ltd.  
 (11) AU-A-2021367440  
 (21) 2021367440 (22) 28.10.2021  
 (54) Floating body, method for loading liquefied carbon dioxide, and method for unloading liquefied carbon dioxide  
 (51) Int. Cl.  
*B63B 25/08* ( 2006.01 )  
*B63B 25/16* ( 2006.01 )  
*B63B 27/24* ( 2006.01 )
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- (71) Mullet Tools, LLC  
 (11) AU-A-2021331475  
 (21) 2021331475 (22) 27.08.2021  
 (54) Monolithic dust separator  
 (51) Int. Cl.  
*A47L 9/16* ( 2006.01 )  
 (87) WO2022/047185  
 (31) 63/070,861 (32) 27.08.20 (33) US  
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- (71) MOBBOT SA  
 (11) AU-A-2021328100  
 (21) 2021328100 (22) 12.08.2021  
 (54) Nozzle for spraying concrete or similar material, portions of the same and structure manufacturing apparatus using the same  
 (51) Int. Cl.  
*B05B 7/00* ( 2006.01 )  
 (87) WO2022/038036  
 (31) 20191401.7 (32) 17.08.20 (33) EP  
 (43) 24.02.2022  
 (72) RIBEAUD, Thomas; GALÉ, Benjamin; PETIT, Agnès  
 (74) WRAYS PTY LTD
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- (71) Monsanto Technology LLC  
 (11) AU-A-2021338707  
 (21) 2021338707 (22) 09.09.2021  
 (54) Increasing gene editing and site-directed integration events utilizing meiotic and germline promoters  
 (51) Int. Cl.  
*A01H 1/00* ( 2006.01 )  
*A01H 1/04* ( 2006.01 )  
*C12N 9/22* ( 2006.01 )  
*C12N 15/63* ( 2006.01 )  
 (87) WO2022/056139  
 (31) 63/076,705 (32) 10.09.20 (33) US  
 (43) 17.03.2022  
 (72) BAUER, Matthew J.; KANIZAY, Lisa; LAMB, Jonathan; MARENGO, Matthew S.; O'BRIEN, Brent  
 (74) Davies Collison Cave Pty Ltd
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- (71) Nalo Therapeutics  
 (11) AU-A-2021333760  
 (21) 2021333760 (22) 25.08.2021  
 (54) Modulators of Myc family proto-oncogene protein  
 (51) Int. Cl.  
*C07D 401/14* ( 2006.01 )  
*A61K 31/4439* ( 2006.01 )  
*A61K 31/506* ( 2006.01 )  
*A61P 35/00* ( 2006.01 )  
*C07D 403/14* ( 2006.01 )  
*C07D 405/14* ( 2006.01 )  
*C07D 413/04* ( 2006.01 )  
*C07D 417/14* ( 2006.01 )  
*C07D 471/04* ( 2006.01 )  
*C07D 487/04* ( 2006.01 )  
*C07D 487/10* ( 2006.01 )  
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 (31) 63/070,753 (32) 26.08.20 (33) US  
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 (43) 03.03.2022  
 (72) GREENLEE, William; SHUTTLE-WORTH, Stephen J.; WILSON, Keith  
 (74) Spruson & Ferguson
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- (71) Nanophase Technologies Corporation  
 (11) AU-A-2021343413  
 (21) 2021343413 (22) 14.09.2021  
 (54) Magnetic beads, method of making and method of use thereof  
 (51) Int. Cl.  
*H01F 1/00* ( 2006.01 )  
 (87) WO2022/060732  
 (31) 63/079,875 (32) 17.09.20 (33) US  
 (43) 24.03.2022  
 (72) SARKAS, Harry W.; CURETON, Kevin  
 (74) Griffith Hack
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- (71) National Institutes for Quantum and Radiological Science and Technology; Eisai R&D Management Co., Ltd.; Ono Pharmaceutical Co., Ltd.; Takeda Pharmaceutical Company Limited  
 (11) AU-A-2021331023  
 (21) 2021331023 (22) 24.08.2021  
 (54) Novel compound, alpha-synuclein aggregate binder, and use thereof  
 (51) Int. Cl.  
*C07D 417/06* ( 2006.01 )  
*A61K 31/497* ( 2006.01 )  
*A61K 31/506* ( 2006.01 )  
*A61K 49/00* ( 2006.01 )  
*A61K 51/04* ( 2006.01 )  
*A61P 43/00* ( 2006.01 )  
*C07D 417/14* ( 2006.01 )  
 (87) WO2022/045093  
 (31) 2020-142080 (32) 25.08.20 (33) JP  
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 (72) HIGUCHI, Makoto; ONO, Maiko; CHO, Meiei; YAMAMOTO, Takeshi; WAKABAYASHI, Takeshi  
 (74) IP SOLVED (ANZ) PTY. LTD.



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 (11) AU-A-2021334025  
 (21) 2021334025 (22) 31.08.2021  
 (54) Hybrid materials and methods  
 (51) Int. Cl.  
*D03D 1/00* ( 2006.01 )  
*A41D 31/04* ( 2019.01 )  
*D03D 15/00* ( 2021.01 )  
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 (31) 63/072,931 (32) 31.08.20 (33) US  
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 (72) HAVERHALS, Luke Michael;  
 GHASEMI, Shokoofeh; AMSTUTZ,  
 Aaron Kenneth; FIRMAN, Margaret  
 Kathryn; NULL, Spencer Jacob; ZIKA,  
 Steven John  
 (74) Spruson & Ferguson
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- (71) Neptune Medical Inc.  
 (11) AU-A-2021336538  
 (21) 2021336538 (22) 03.09.2021  
 (54) Dynamically rigidizing guiderail and  
 methods of use  
 (51) Int. Cl.  
*A61M 25/01* ( 2006.01 )  
*A61M 25/09* ( 2006.01 )  
 (87) WO2022/051682  
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 (43) 10.03.2022  
 (72) GOMES, Garrett J.; TILSON, Alexander  
 Q.; LOVE, Charles Steele; HENDRICK-  
 SON, Deanna K.; CANTU, Alberto R.  
 (74) RnB IP Pty Ltd
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- (71) Neste Oyj  
 (11) AU-A-2021335086  
 (21) 2021335086 (22) 26.08.2021  
 (54) Octane enhanced intermediate hydro-  
 carbon composition  
 (51) Int. Cl.  
*C10L 1/16* ( 2006.01 )  
*C10L 10/10* ( 2006.01 )  
 (87) WO2022/043611  
 (31) 20205840 (32) 31.08.20 (33) FI  
 (43) 03.03.2022  
 (72) KESKIVÄLI, Juha; KARVO, Anna;  
 KIISKI, Ulla  
 (74) Spruson & Ferguson
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- (71) Neurent Medical Limited  
 (11) AU-A-2021335108  
 (21) 2021335108 (22) 31.08.2021  
 (54) Device for therapeutic sino-nasal treat-  
 ment  
 (51) Int. Cl.  
*A61N 1/36* ( 2006.01 )  
*A61B 18/14* ( 2006.01 )  
*A61N 1/05* ( 2006.01 )  
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- (71) Nippon Fiber Corporation  
 (11) AU-A-2021324599  
 (21) 2021324599 (22) 30.07.2021  
 (54) Flake-like composition and flake-like  
 composition production method  
 (51) Int. Cl.  
*B09B 3/00* ( 2022.01 )  
*B82B 1/00* ( 2006.01 )  
 (87) WO2022/034806  
 (31) 2020-137028 (32) 14.08.20 (33) JP  
 (43) 17.02.2022  
 (72) FUKAZAWA Hiroshi  
 (74) Wynnes Patent and Trade Mark Attor-  
 neys Pty Ltd
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- (71) Nohms Technologies, Inc.  
 (11) AU-A-2021353752  
 (21) 2021353752 (22) 31.03.2021  
 (54) Cyclic sulfone additives for lithium ion  
 batteries  
 (51) Int. Cl.  
*C01B 25/45* ( 2006.01 )  
*C01G 53/00* ( 2006.01 )  
*H01M 4/131* ( 2010.01 )  
*H01M 4/505* ( 2010.01 )  
 (87) WO2022/071987  
 (31) 63/084,911 (32) 29.09.20 (33) US  
 (43) 07.04.2022  
 (72) MOGANTY, Surya; VAIDYA, Rutvik;  
 SINICROPI, John  
 (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) Norgren Automation Solutions LLC  
 (11) AU-A-2021359806  
 (21) 2021359806 (22) 18.08.2021  
 (54) Fingers for workpiece holding devices  
 (51) Int. Cl.  
*B25B 1/24* ( 2006.01 )  
*B25J 15/04* ( 2006.01 )  
*B25J 15/08* ( 2006.01 )  
*B25J 15/10* ( 2006.01 )  
 (87) WO2022/078655  
 (31) 63/091,585 (32) 14.10.20 (33) US  
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 EN, Tom, T.; HALL, Nicolas Alexander;  
 MERKELBACH, Stephan; REINSCH-
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- (43) 03.03.2022  
 (72) TOWNLEY, David; MCLAUGHLIN,  
 Cathal; DE GANTE, Sofia Iniguez;  
 HORAN, Steven  
 (74) FPA Patent Attorneys Pty Ltd
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- (71) Nicoventures Trading Limited  
 (11) AU-A-2021346109  
 (21) 2021346109 (22) 15.09.2021  
 (54) Aerosol provision device  
 (51) Int. Cl.  
*A24F 40/465* ( 2020.01 )  
 (87) WO2022/058384  
 (31) 2014597.5 (32) 16.09.20 (33) GB  
 (43) 24.03.2022  
 (72) THOMAS, Michael; MCGRATH, Con-  
 or; WARREN, Luke; BUREAU, David;  
 BURGESS, Jonathan  
 (74) Spruson & Ferguson
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- (71) NuRevelation, LLC  
 (11) AU-A-2021334360  
 (21) 2021334360 (22) 27.08.2021  
 (54) Therapeutic agent and nutraceutical  
 compositions and methods for making  
 and using same  
 (51) Int. Cl.  
*A23L 33/00* ( 2016.01 )  
*A61K 9/16* ( 2006.01 )  
*A61K 31/522* ( 2006.01 )  
 (87) WO2022/047217  
 (31) 63/071,820 (32) 28.08.20 (33) US  
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 (72) LUCAS, Tolan Naomie; SEIDEL, Eric;  
 BERNARD, Mark Anthony; GELLER,  
 Robin Lee; CARRASCO-LOPEZ, Cesar  
 Andres; DEODATO, Davide  
 (74) Griffith Hack
- 
- (71) NV Bekaert SA; CCL Stressing Interna-  
 tional Ltd  
 (11) AU-A-2021339925  
 (21) 2021339925 (22) 08.09.2021  
 (54) Post-tensioned concrete with fibers for  
 slabs on supports  
 (51) Int. Cl.  
*E04B 5/04* ( 2006.01 )  
*E04B 5/32* ( 2006.01 )  
*E04C 5/08* ( 2006.01 )  
*E04C 5/01* ( 2006.01 )  
*E04C 5/07* ( 2006.01 )  
 (87) WO2022/053510  
 (31) 20250002.1 (32) 08.09.20 (33) EP  
 (43) 17.03.2022  
 (72) THOOFT, Hendrik; HAYEK, Carol  
 (74) Spruson & Ferguson
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- (71) Oak Hill Bio Limited  
 (11) AU-A-2021364523  
 (21) 2021364523 (22) 19.10.2021  
 (54) Compositions suitable for use in  
 neonates  
 (51) Int. Cl.  
*A61K 38/30* ( 2006.01 )  
*A61K 38/17* ( 2006.01 )  
*A61K 47/26* ( 2006.01 )  
*A61P 9/00* ( 2006.01 )  
*A61P 11/00* ( 2006.01 )

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**(87)** WO2022/086953  
**(31)** 63/093,696 **(32)** 19.10.20 **(33)** US  
**(43)** 28.04.2022  
**(72)** SALAMAT-MILLER, Nazila; TAYLOR, Katherine; HE, Bing; BHATTACHARYA, Indranil; HAN, Linda; AMSDEN, Benita; KRANZ, James  
**(74)** Spruson & Ferguson
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- (71)** Ohio State Innovation Foundation  
**(11)** AU-A-2021335601  
**(21)** 2021335601 **(22)** 03.09.2021  
**(54)** Novel engineered capsid serotype of recombinant adeno-associated viral vector with enhanced transduction efficiency and widespread distribution in the brain  
**(51)** Int. Cl.  
**C12N 15/861** ( 2006.01 )  
**A61K 35/761** ( 2015.01 )  
**A61K 48/00** ( 2006.01 )  
**A61P 25/28** ( 2006.01 )  
**(87)** WO2022/051633  
**(31)** 63/074,548 **(32)** 04.09.20 **(33)** US  
**(43)** 10.03.2022  
**(72)** CAO, Lei; HUANG, Wei; BANKIEWICZ, Krzysztof; HADACZEK, Piotr; SAMARANICH, Lluís  
**(74)** RnB IP
- 
- (71)** Ohio State Innovation Foundation; The Regents of the University of California  
**(11)** AU-A-2021336990  
**(21)** 2021336990 **(22)** 06.09.2021  
**(54)** Methods of using polymerized human serum albumin  
**(51)** Int. Cl.  
**A61K 38/38** ( 2006.01 )  
**A61P 7/00** ( 2006.01 )  
**C07K 14/765** ( 2006.01 )  
**(87)** WO2022/051699  
**(31)** 63/074,751 **(32)** 04.09.20 **(33)** US  
**(43)** 10.03.2022  
**(72)** PALMER, Andre; CABRALES AREVALO, Pedro J.  
**(74)** RnB IP
- 
- (71)** Onesubsea IP UK Limited  
**(11)** AU-A-2021342263  
**(21)** 2021342263 **(22)** 10.09.2021  
**(54)** Water detection and measurement system and method  
**(51)** Int. Cl.  
**E21B 47/10** ( 2012.01 )  
**E21B 47/06** ( 2012.01 )  
**G01F 1/34** ( 2006.01 )  
**G01F 1/74** ( 2006.01 )  
**(87)** WO2022/056308  
**(31)** 20306017.3 **(32)** 11.09.20 **(33)** EP  
**(43)** 17.03.2022  
**(72)** VIELLIARD, Christophe Marie Blaise  
**(74)** Griffith Hack
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- (71)** Orchard Therapeutics (Europe) Limited  
**(11)** AU-A-2021324891  
**(21)** 2021324891 **(22)** 13.08.2021
- 
- (54)** Compositions and methods for treating or preventing hereditary angioedema  
**(51)** Int. Cl.  
**A61K 48/00** ( 2006.01 )  
**A61P 7/04** ( 2006.01 )  
**C12N 5/07** ( 2010.01 )  
**(87)** WO2022/036179  
**(31)** 63/066,011 **(32)** 14.08.20 **(33)** US  
**(43)** 17.02.2022  
**(72)** WOLFE, Jia L.; GASPAR, Bobby; LEMOINE, Adrien; MARKS-BLUTH, Jonathon Simeon; SAGOO, Pervinder; PENNUCCI, Valentina  
**(74)** FPA Patent Attorneys Pty Ltd
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- (71)** P.I.F. ENTREPRENEURS LTD.  
**(11)** AU-A-2021323520  
**(21)** 2021323520 **(22)** 09.08.2021  
**(54)** Macrophage targeting drug conjugates  
**(51)** Int. Cl.  
**C07H 15/24** ( 2006.01 )  
**A61K 31/573** ( 2006.01 )  
**A61K 31/58** ( 2006.01 )  
**A61K 31/704** ( 2006.01 )  
**A61P 3/00** ( 2006.01 )  
**A61P 9/00** ( 2006.01 )  
**A61P 25/00** ( 2006.01 )  
**A61P 29/00** ( 2006.01 )  
**A61P 31/16** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**C07J 7/00** ( 2006.01 )  
**(87)** WO2022/034582  
**(31)** 63/063,486 **(32)** 10.08.20 **(33)** US  
**(31)** 63/158,892 10.03.21 US  
**(43)** 17.02.2022  
**(72)** GOLDBERG, Alec M.; GOLDBERG, Samuel H.; GOLDBERG, James I.; GOLDBERG, Isaiah Z.; GOLDBERG, Michael M.  
**(74)** SR Intellectual Property
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- (71)** Paige.AI, Inc.  
**(11)** AU-A-2021324705  
**(21)** 2021324705 **(22)** 11.08.2021  
**(54)** Systems and methods to process electronic images to provide automated routing of data  
**(51)** Int. Cl.  
**G16H 40/20** ( 2018.01 )  
**(87)** WO2022/035949  
**(31)** 63/064,714 **(32)** 12.08.20 **(33)** US  
**(43)** 17.02.2022  
**(72)** KUNZ, Jeremy Daniel; KANAN, Christopher; RACITI, Patricia; HANNA, Matthew G.  
**(74)** Davies Collison Cave Pty Ltd
- 
- (71)** Paige.AI, Inc.  
**(11)** AU-A-2021324971  
**(21)** 2021324971 **(22)** 10.08.2021  
**(54)** Systems and methods to process electronic images to provide improved visualization and rendering of histopathology slides  
**(51)** Int. Cl.  
**G16H 30/40** ( 2018.01 )  
**G06T 7/00** ( 2017.01 )  
**(87)** WO2022/035824  
**(31)** 63/064,401 **(32)** 11.08.20 **(33)** US
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- (43)** 17.02.2022  
**(72)** KIRSZENBERG, Alexandre; YOUSFI, Razik; FRESNEAU, Thomas; SCHUEFFLER, Peter  
**(74)** Davies Collison Cave Pty Ltd
- 
- (71)** Parachute Logistics, LLC  
**(11)** AU-A-2021335608  
**(21)** 2021335608 **(22)** 03.09.2021  
**(54)** Low capital and operational cost e-commerce logistics system  
**(51)** Int. Cl.  
**G06Q 50/28** ( 2012.01 )  
**(87)** WO2022/051668  
**(31)** 63/222,497 **(32)** 16.07.21 **(33)** US  
**(31)** 63/116,439 20.11.20 US  
**(31)** 63/074,842 04.09.20 US  
**(43)** 10.03.2022  
**(72)** FISCHMANN, Fernando Benjamin  
**(74)** FPA Patent Attorneys Pty Ltd
- 
- (71)** Peloton Interactive, Inc.  
**(11)** AU-A-2021337568  
**(21)** 2021337568 **(22)** 01.09.2021  
**(54)** Display mounting systems and methods  
**(51)** Int. Cl.  
**F16M 11/10** ( 2006.01 )  
**F16M 11/20** ( 2006.01 )  
**F16M 13/02** ( 2006.01 )  
**(87)** WO2022/051434  
**(31)** 17/011,751 **(32)** 03.09.20 **(33)** US  
**(43)** 10.03.2022  
**(72)** FARRELL, Heidi Serene; ALCORN, Nigel; SCHULTZ, Benjamin G.; POURE, Jason; HENDRICKSON, Lee  
**(74)** Madderns Pty Ltd
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- (71)** Pfizer Inc.  
**(11)** AU-A-2021339096  
**(21)** 2021339096 **(22)** 10.09.2021  
**(54)** Methods, therapies and uses for treating cancer  
**(51)** Int. Cl.  
**C07K 16/28** ( 2006.01 )  
**A61K 31/454** ( 2006.01 )  
**A61K 39/395** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**(87)** WO2022/053990  
**(31)** 63/078,211 **(32)** 14.09.20 **(33)** US  
**(31)** 63/106,302 27.10.20 US  
**(31)** 63/185,357 06.05.21 US  
**(43)** 17.03.2022  
**(72)** BARDY BOUXIN, Nathalie Annie; BARRY, Eloisa Virginia; BLAKE-HASKINS, John Andrew; CHAN, Geoffrey Wing-Lynn; CHOU, Jeffrey; ELMELIEGY, Mohamed A.; KRUPKA, Heike Iris; LIAO, Kai Hsin; VANDENDRIES, Erik Rene; VIQUEIRA, Andrea; WISEL, Paul Stephen; YVER, Anne  
**(74)** Davies Collison Cave Pty Ltd
- 
- (71)** Phenix Real Time Solutions, Inc.  
**(11)** AU-A-2021336524  
**(21)** 2021336524 **(22)** 03.09.2021  
**(54)** Insertion of targeted content in real-time streaming media

PCT applications which have entered the National Phase - Name Index cont'd

- (51) Int. Cl.  
**H04N 7/10** ( 2006.01 )
- (87) WO2022/051612
- (31) 63/074,902 (32) 04.09.20 (33) US  
17/465,581 02.09.21 US
- (43) 10.03.2022
- (72) BUSTAMANTE, Fabián E.; BIRRER, Stefan; LOS, Nicholas
- (74) RnB IP Pty Ltd
- 
- (71) Philip Morris Products S.A.
- (11) AU-A-2021335422
- (21) 2021335422 (22) 01.09.2021
- (54) Smoking device with heating profile based on puff frequency
- (51) Int. Cl.  
**A24F 40/57** ( 2020.01 )
- (87) WO2022/049157
- (31) 20194709.0 (32) 04.09.20 (33) EP  
(43) 10.03.2022
- (72) STEFFEN, Fabrice; STURA, Enrico; UTHURRY, Jerome
- (74) James & Wells Intellectual Property
- 
- (71) Philip Morris Products S.A.
- (11) AU-A-2021336071
- (21) 2021336071 (22) 30.08.2021
- (54) Aerosol-generating device operable in an aerosol-releasing mode and in a pause mode
- (51) Int. Cl.  
**A24F 40/57** ( 2020.01 )
- (87) WO2022/049019
- (31) 20193921.2 (32) 01.09.20 (33) EP  
(43) 10.03.2022
- (72) BUTIN, Yannick; STURA, Enrico; VALDEZ ROJAS, Ezequiel; NESOVIC, Milica; OLIANA, Valerio; HAU, Daniela
- (74) James & Wells Intellectual Property
- 
- (71) Philip Morris Products S.A.
- (11) AU-A-2021338509
- (21) 2021338509 (22) 01.09.2021
- (54) Smoking device with heating profile based on puff volume
- (51) Int. Cl.  
**A24F 40/57** ( 2020.01 )
- (87) WO2022/049158
- (31) 20194715.7 (32) 04.09.20 (33) EP  
(43) 10.03.2022
- (72) MIRONOV, Oleg; STURA, Enrico
- (74) James & Wells Intellectual Property
- 
- (71) Philip Morris Products S.A.
- (11) AU-A-2021339013
- (21) 2021339013 (22) 13.09.2021
- (54) Pharmaceutical composition comprising hydroxychloroquine and uses thereof
- (51) Int. Cl.  
**A61P 31/14** ( 2006.01 )  
**A61K 9/00** ( 2006.01 )  
**A61K 9/08** ( 2006.01 )  
**A61K 9/12** ( 2006.01 )  
**A61K 31/4706** ( 2006.01 )  
**A61K 47/10** ( 2017.01 )
- (87) WO2022/053694
- (31) 20196088.7 (32) 14.09.20 (33) EP
- (43) 17.03.2022
- (72) CALVINO, Florian Alexis; GUY, Philippe Alexandre; HOENG, Julia; KOLLI, Aditya Reddy; KUCZAJ, Arkadiusz; MAJEED, Shoaib; MAZUROV, Anatoly; PEITSCH, Manuel; SEMREN, Tanja Zivkovic; VAN DER TOORN, Marco
- (74) James & Wells Intellectual Property
- 
- (71) Philip Morris Products S.A.
- (11) AU-A-2021341517
- (21) 2021341517 (22) 13.09.2021
- (54) Pharmaceutical composition comprising chloroquine and uses thereof
- (51) Int. Cl.  
**A61K 9/08** ( 2006.01 )  
**A61K 47/10** ( 2017.01 )  
**A61P 31/14** ( 2006.01 )
- (87) WO2022/053693
- (31) 20196087.9 (32) 14.09.20 (33) EP  
(43) 17.03.2022
- (72) CALVINO, Florian Alexis; GUY, Philippe Alexandre; HOENG, Julia; KOLLI, Aditya Reddy; KUCZAJ, Arkadiusz; MAJEED, Shoaib; MAZUROV, Anatoly; PEITSCH, Manuel; SEMREN, Tanja Zivkovic; VAN DER TOORN, Marco
- (74) James & Wells Intellectual Property
- 
- (71) Picomole Inc.
- (11) AU-A-2021319376
- (21) 2021319376 (22) 28.07.2021
- (54) System and method for frequency matching a resonance cavity to a light source
- (51) Int. Cl.  
**H01S 3/13** ( 2006.01 )  
**H01S 3/136** ( 2006.01 )  
**H01S 5/0687** ( 2006.01 )  
**H01S 5/10** ( 2021.01 )
- (87) WO2022/027128
- (31) 16/984,740 (32) 04.08.20 (33) US  
(43) 10.02.2022
- (72) NOËL, Sébastien; BISSON, Jean-François; GAUVIN, Alexis; DOUCET, Alexandre; BEYDAGHYAN, Gisla
- (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) PIONEER HI-BRED INTERNATIONAL, INC.; Corteva Agriscience LLC
- (11) AU-A-2021355365
- (21) 2021355365 (22) 28.09.2021
- (54) Rapid transformation of monocot leaf explants
- (51) Int. Cl.  
**C07K 14/415** ( 2006.01 )  
**C12N 15/82** ( 2006.01 )
- (87) WO2022/072335
- (31) 63/085,588 (32) 30.09.20 (33) US  
(43) 07.04.2022
- (72) ANAND, Ajith; GORDON-KAMM, William James; RYAN, Larisa A; SARDESAI, Nagesh; WANG, Ning; WU, Huixia; WU, Xinli Emily
- (74) Oxygene IP
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- (71) Plantics Holding B.V.
- (11) AU-A-2021334110
- (21) 2021334110 (22) 24.08.2021
- (54) Process for manufacturing a shaped object through filament winding
- (51) Int. Cl.  
**B29C 70/34** ( 2006.01 )  
**B27N 5/02** ( 2006.01 )  
**B29B 11/16** ( 2006.01 )  
**B29C 53/56** ( 2006.01 )  
**B29C 53/58** ( 2006.01 )  
**B29C 70/32** ( 2006.01 )  
**B29C 70/54** ( 2006.01 )  
**C08G 18/42** ( 2006.01 )
- (87) WO2022/043330
- (31) 20192605.2 (32) 25.08.20 (33) EP  
(43) 03.03.2022
- (72) ZIEVERINK, Marinus Mathilda Pieter; HOLTHUIS, Beer; BAKKER, Wridzer Jan Willem
- (74) FPA Patent Attorneys Pty Ltd
- 
- (71) PopSockets LLC
- (11) AU-A-2021351634
- (21) 2021351634 (22) 03.09.2021
- (54) Fidget accessory and system for providing the same
- (51) Int. Cl.  
**A63H 33/26** ( 2006.01 )
- (87) WO2022/072120
- (31) 17/037,383 (32) 29.09.20 (33) US  
(43) 07.04.2022
- (72) CANTOLI-ALVES, Vanessa; WILLSON, David; CHEN, Ivan; KORY, Michael J.; CZARNECKI, David; FONG, Lawrence Herman; CHIANG, Randy Yang; BARNETT, David B.
- (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) President and Fellows of Harvard College
- (11) AU-A-2021339843
- (21) 2021339843 (22) 14.09.2021
- (54) Recombinant adeno associated virus (rAAV) encoding GJB2 and uses thereof
- (51) Int. Cl.  
**C07K 14/705** ( 2006.01 )  
**C12N 15/864** ( 2006.01 )
- (87) WO2022/056444
- (31) 63/078,233 (32) 14.09.20 (33) US  
63/161,619 16.03.21 US  
(43) 17.03.2022
- (72) COREY, David P.; BOOTH, Kevin T.; PETERS, Cole W. D.; IVANCHENKO, Maryna V.; GREENBERG, Michael E.; HRVATIN, Sinisa; NAGY, Mark Aurel; GRIFFITH, Eric C.
- (74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd
- 
- (71) Pretlove, H.
- (11) AU-A-2021350291
- (21) 2021350291 (22) 22.09.2021
- (54) Hitching apparatus and related method
- (51) Int. Cl.  
**B60D 1/07** ( 2006.01 )  
**A01B 59/00** ( 2006.01 )  
**B60D 1/36** ( 2006.01 )

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- B60D 1/42** ( 2006.01 )  
**B60D 1/52** ( 2006.01 )  
**B60D 1/58** ( 2006.01 )  
**B60R 9/06** ( 2006.01 )  
**(87)** WO2022/061404  
**(31)** 2020903486 **(32)** 28.09.20 **(33)** AU  
**(43)** 31.03.2022  
**(72)** PRETLOVE, Harrison James  
**(74)** Baxter Patent Attorneys Pty Ltd
- 
- (71)** Prevail Therapeutics, Inc.  
**(11)** AU-A-2021325891  
**(21)** 2021325891 **(22)** 10.08.2021  
**(54)** Gene therapies for neurodegenerative disorders  
**(51)** Int. Cl.  
**A61K 48/00** ( 2006.01 )  
**C12N 15/864** ( 2006.01 )  
**(87)** WO2022/035900  
**(31)** 63/063,852 **(32)** 10.08.20 **(33)** US  
**(43)** 17.02.2022  
**(72)** ABELIOVICH, Asa; SEVIGNY, Jeffrey; LEWIS, Travis; USPENSKAYA, Olga  
**(74)** FPA Patent Attorneys Pty Ltd
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- (71)** PreveCeutical Medical Inc.  
**(11)** AU-A-2021330383  
**(21)** 2021330383 **(22)** 31.08.2021  
**(54)** Cannabinoid formulations and methods of use  
**(51)** Int. Cl.  
**A61K 31/352** ( 2006.01 )  
**A61K 9/08** ( 2006.01 )  
**A61K 9/10** ( 2006.01 )  
**A61K 47/10** ( 2017.01 )  
**(87)** WO2022/043759  
**(31)** 2020903103 **(32)** 31.08.20 **(33)** AU  
**(43)** 03.03.2022  
**(72)** PANDEY, Preeti  
**(74)** Griffith Hack
- 
- (71)** PureTec Pty Ltd  
**(11)** AU-A-2021329438  
**(21)** 2021329438 **(22)** 17.08.2021  
**(54)** Enclosure for equipment  
**(51)** Int. Cl.  
**A47B 81/00** ( 2006.01 )  
**E04H 1/12** ( 2006.01 )  
**E06B 3/32** ( 2006.01 )  
**E06B 3/36** ( 2006.01 )  
**E06B 3/70** ( 2006.01 )  
**E06B 5/02** ( 2006.01 )  
**E06B 7/23** ( 2006.01 )  
**H05K 5/00** ( 2006.01 )  
**H05K 5/02** ( 2006.01 )  
**H05K 5/06** ( 2006.01 )  
**(87)** WO2022/036394  
**(31)** 2020902915 **(32)** 17.08.20 **(33)** AU  
**(43)** 24.02.2022  
**(72)** HORNSEY, Russell  
**(74)** Madderns Pty Ltd
- 
- (71)** Qingdao Haier Refrigerator Co., Ltd; Haier Smart Home Co., Ltd.  
**(11)** AU-A-2021327809  
**(21)** 2021327809 **(22)** 16.08.2021
- 
- (54)** Adjustable shelf device and refrigerator having same  
**(51)** Int. Cl.  
**F25D 25/02** ( 2006.01 )  
**(87)** WO2022/037542  
**(31)** 202010838194.8 **(32)** 19.08.20 **(33)** CN  
**(43)** 24.02.2022  
**(72)** CHENG, Xueli; ZHANG, Zhenxing; ZHU, Xiaobing  
**(74)** Madderns Pty Ltd
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- (71)** Qingdao Haier Refrigerator Co., Ltd.; Haier Smart Home Co., Ltd.  
**(11)** AU-A-2021344360  
**(21)** 2021344360 **(22)** 07.09.2021  
**(54)** Refrigerator  
**(51)** Int. Cl.  
**F25D 23/02** ( 2006.01 )  
**(87)** WO2022/057687  
**(31)** 202010969257.3 **(32)** 15.09.20 **(33)** CN  
**(43)** 24.03.2022  
**(72)** LYU, Peng; ZHANG, Hao; LI, Jiaming; CUI, Zhanpeng; MOU, Sen  
**(74)** Spruson & Ferguson
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- (71)** Qingdao Haier Special Refrigeration Electric Appliance Co., Ltd.; Haier Smart Home Co., Ltd.  
**(11)** AU-A-2021327811  
**(21)** 2021327811 **(22)** 17.08.2021  
**(54)** Adjustable shelf device and refrigerator having same  
**(51)** Int. Cl.  
**F25D 25/02** ( 2006.01 )  
**(87)** WO2022/037550  
**(31)** 202010839288.7 **(32)** 19.08.20 **(33)** CN  
**(43)** 24.02.2022  
**(72)** ZHANG, Zhenxing; CHENG, Xueli  
**(74)** Madderns Pty Ltd
- 
- (71)** Qingdao Kingdom Health Industry Co., Ltd.  
**(11)** AU-A-2022231731  
**(21)** 2022231731 **(22)** 05.01.2022  
**(54)** Adjustable dumbbell  
**(51)** Int. Cl.  
**A63B 21/075** ( 2006.01 )  
**(31)** 202111642316.7 **(32)** 09.12.21 **(33)** CN  
 202122270164.4 18.09.21 CN  
**(43)** 06.04.2023  
**(72)** WANG, Zhixiong  
**(74)** Davies Collison Cave Pty Ltd
- 
- (71)** Razer (Asia-Pacific) Pte. Ltd.  
**(11)** AU-A-2021349751  
**(21)** 2021349751 **(22)** 23.09.2021  
**(54)** System and method for synchronising lighting event among devices  
**(51)** Int. Cl.  
**A63F 13/40** ( 2014.01 )  
**A63F 13/20** ( 2014.01 )  
**G06F 3/00** ( 2006.01 )  
**(87)** WO2022/066102  
**(31)** 63/082,267 **(32)** 23.09.20 **(33)** US
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- (43)** 31.03.2022  
**(72)** GRAUPMANN, Timothy Alan; CHU, Chee Hiong; FAHUMEE, Shamhaad; SALANGA, Roy  
**(74)** FB Rice Pty Ltd
- 
- (71)** Regeneron Pharmaceuticals, Inc.  
**(11)** AU-A-2021321531  
**(21)** 2021321531 **(22)** 06.08.2021  
**(54)** Mitochondrial DNA quality control  
**(51)** Int. Cl.  
**C12Q 1/6869** ( 2018.01 )  
**C12Q 1/6888** ( 2018.01 )  
**(87)** WO2022/032052  
**(31)** 63/062,566 **(32)** 07.08.20 **(33)** US  
**(43)** 10.02.2022  
**(72)** ZHANG, Ruoyu; LIM, Wei Keat; ATW-AL, Gurinder  
**(74)** Davies Collison Cave Pty Ltd
- 
- (71)** Regeneron Pharmaceuticals, Inc.; Bayer Healthcare LLC  
**(11)** AU-A-2022275786  
**(21)** 2022275786 **(22)** 16.05.2022  
**(54)** Extended, high dose VEGF antagonist regimens for treatment of angiogenic eye disorders  
**(51)** Int. Cl.  
**A61K 38/17** ( 2006.01 )  
**A61P 27/02** ( 2006.01 )  
**(87)** WO2022/245739  
**(31)** 63/189,541 **(32)** 17.05.21 **(33)** US  
 63/235,398 20.08.21 US  
 63/297,420 07.01.22 US  
 63/306,315 03.02.22 US  
**(43)** 24.11.2022  
**(72)** VITTI, Robert L.; BERLINER, Alyson J.; CHU, Karen; ASMUS, Friedrich; DA SILVA LEAL, Sergio Casimiro  
**(74)** Griffith Hack
- 
- (71)** Rejuron Biopharm Inc.  
**(11)** AU-A-2021325233  
**(21)** 2021325233 **(22)** 10.08.2021  
**(54)** Compositions and methods for dissolving protein aggregates  
**(51)** Int. Cl.  
**C07K 14/47** ( 2006.01 )  
**A61K 38/17** ( 2006.01 )  
**A61P 25/00** ( 2006.01 )  
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**C07K 19/00** ( 2006.01 )  
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**(72)** WANG, Chenchen  
**(74)** PHILLIPS ORMONDE FITZPATRICK
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**(11)** AU-A-2021344830  
**(21)** 2021344830 **(22)** 03.09.2021  
**(54)** Use of SOS1 inhibitors to treat malignancies with SHP2 mutations  
**(51)** Int. Cl.  
**A61P 35/00** ( 2006.01 )

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- (74) Griffith Hack
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(51) Int. Cl.  
**C07D 471/22** ( 2006.01 )  
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**A61L 31/02** ( 2006.01 )  
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(54) Drinking vessel lid with magnetic sealing mechanism  
(51) Int. Cl.  
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**A47G 19/22** ( 2006.01 )  
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(54) Floating offshore structure  
(51) Int. Cl.  
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**F03D 13/25** ( 2016.01 )
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(54) Floating offshore wind turbine  
(51) Int. Cl.  
**B63B 75/00** ( 2020.01 )  
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(54) Vacuum shield assembly for attachment to medical masks and intubation assembly to protect from airborne illnesses  
(51) Int. Cl.  
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(11) AU-A-2021337480  
(21) 2021337480 (22) 20.08.2021  
(54) Connection system between hollow structural steel columns and post-tensioned concrete slabs  
(51) Int. Cl.  
**E04B 1/04** ( 2006.01 )  
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- (71) Saint-Gobain Isover  
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(21) 2021349337 (22) 23.09.2021  
(54) Preparation of a composition of raw materials  
(51) Int. Cl.  
**C03B 1/00** ( 2006.01 )  
**C03B 3/00** ( 2006.01 )  
**C03C 1/00** ( 2006.01 )  
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 (21) 2021332979 (22) 26.08.2021  
 (54) Method and apparatus for transmitting or receiving data using cooperative communication in wireless communication system  
 (51) Int. Cl.  
*H04W 72/12* ( 2009.01 )  
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 (54) Balcony developments  
 (51) Int. Cl.  
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 (51) Int. Cl.  
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*C12N 15/62* ( 2006.01 )  
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 (54) Object information management method, apparatus and device, and storage medium  
 (51) Int. Cl.  
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 (72) WU, Jinyi  
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 (54) Message processing method, apparatus and device, and storage medium  
 (51) Int. Cl.  
*H04W 72/04* ( 2023.01 )  
*A63F 13/50* ( 2014.01 )  
*G06F 11/30* ( 2006.01 )  
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 (72) SUN, Bing; WANG, Xinxin  
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 (54) Image synchronization method and apparatus, and device and computer storage medium  
 (51) Int. Cl.  
*G06V 10/00* ( 2022.01 )  
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 (72) WU, Jiacheng; SUN, Dongliang; ZHANG, Shuai  
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 (54) Data collection method and apparatus, device and storage medium  
 (51) Int. Cl.  
*G06V 20/00* ( 2022.01 )  
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 (54) Data processing methods, apparatuses and systems, media and computer devices  
 (51) Int. Cl.  
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 (21) 2021240274 (22) 24.09.2021  
 (54) Methods, apparatuses, devices, systems and storage media for detecting game items  
 (51) Int. Cl.  
*G07F 17/32* ( 2006.01 )  
*A63F 1/00* ( 2006.01 )  
*G06V 10/10* ( 2022.01 )  
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 (21) 2021323300 (22) 05.08.2021  
 (54) Complement factor B inhibitor, and pharmaceutical composition thereof, preparation method therefor and use thereof  
 (51) Int. Cl.  
*C07D 401/14* ( 2006.01 )  
*A61K 31/454* ( 2006.01 )  
*A61K 31/4545* ( 2006.01 )  
*A61P 27/00* ( 2006.01 )  
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 (21) 2021326433 (22) 05.08.2021  
 (54) Portable workstation cover  
 (51) Int. Cl.  
*G06F 1/16* ( 2006.01 )  
*G03B 15/00* ( 2021.01 )  
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*H04N 1/00* ( 2006.01 )  
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 (43) 17.02.2022  
 (72) SHEINER, Brandon  
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 (51) Int. Cl.  
*G06K 19/077* ( 2006.01 )

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 (21) 2021372803 (22) 29.10.2021  
 (54) Compositions containing nicotinamide and vitamin B6 and methods of using such compositions for treating cachexia or precachexia  
 (51) Int. Cl.  
**A61K 31/4415** ( 2006.01 )  
**A61K 31/455** ( 2006.01 )  
**A61P 21/00** ( 2006.01 )
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 (54) Method of improving the texture and functionality of a dry fractionated plant protein concentrate beverage  
 (51) Int. Cl.  
**A23J 1/14** ( 2006.01 )  
**A23C 11/00** ( 2006.01 )  
**A23C 11/10** ( 2021.01 )  
**A23J 3/14** ( 2006.01 )  
**A23L 11/50** ( 2021.01 )  
**A23L 11/60** ( 2021.01 )  
**A23L 29/00** ( 2016.01 )  
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**A23C 3/02** ( 2006.01 )
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 (21) 2021370394 (22) 29.10.2021  
 (54) Compositions containing nicotinamide and vitamin B6 and methods of using such compositions for rehabilitation  
 (51) Int. Cl.  
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 (21) 2021375458 (22) 02.11.2021  
 (54) Packaged liquid beverage  
 (51) Int. Cl.  
**A23F 5/24** ( 2006.01 )  
**A23F 5/36** ( 2006.01 )  
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**A23L 2/12** ( 2006.01 )  
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 (11) AU-A-2021322823  
 (21) 2021322823 (22) 03.08.2021  
 (54) System and methods for manufacturing a crisscross matrix of sub divided solar cells  
 (51) Int. Cl.  
**H01L 31/05** ( 2014.01 )  
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 (72) VATELMACHER, Boris  
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 (11) AU-A-2021320902  
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 (54) Plakophilin-2 (PKP2) gene therapy using AAV vector  
 (51) Int. Cl.  
**A61K 38/00** ( 2006.01 )  
**A61K 48/00** ( 2006.01 )  
**C12N 15/09** ( 2006.01 )  
**C12N 15/11** ( 2006.01 )  
**C12N 15/113** ( 2010.01 )  
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 (74) Davies Collison Cave Pty Ltd
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 (11) AU-A-2021321410  
 (21) 2021321410 (22) 03.08.2021  
 (54) CSRP3 (Cysteine and Glycine Rich Protein 3) gene therapy  
 (51) Int. Cl.  
**C12N 15/864** ( 2006.01 )  
**A61K 48/00** ( 2006.01 )  
**A61P 9/04** ( 2006.01 )  
**C07K 14/47** ( 2006.01 )  
**C12N 15/86** ( 2006.01 )
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 (31) 63/061,727 (32) 05.08.20 (33) US
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 (11) AU-A-2021321412  
 (21) 2021321412 (22) 03.08.2021  
 (54) Adeno-associated viral vector for GLUT1 expression and uses thereof  
 (51) Int. Cl.  
**C12N 15/86** ( 2006.01 )
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 (11) AU-A-2021341943  
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 (54) Fade comb for an electric hair trimmer  
 (51) Int. Cl.  
**B26B 19/20** ( 2006.01 )  
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**B26B 19/38** ( 2006.01 )  
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 (72) TOY, David Yet; FRANKLIN, Thomas Manders; DEGROOD, Michael John  
 (74) GLMR
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 (54) Blockchain-based green power certification method, apparatus, and system  
 (51) Int. Cl.  
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 (43) 06.04.2023  
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 (74) Madderns Pty Ltd

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(11) AU-A-2021353471  
(21) 2021353471 (22) 28.09.2021  
(54) A process and apparatus for preparing a purified styrene composition using a divided-wall column and a crystallization unit  
(51) Int. Cl.  
C07C 7/04 ( 2006.01 )  
B01D 3/14 ( 2006.01 )  
B01D 9/00 ( 2006.01 )  
C07C 7/14 ( 2006.01 )  
C07C 15/46 ( 2006.01 )  
C10G 67/02 ( 2006.01 )  
(87) WO2022/069479  
(31) 63/085,760 (32) 30.09.20 (33) US  
20200620.1 07.10.20 EP  
(43) 07.04.2022  
(72) KHANDELWAL, Rahul; GENTRY, Joseph C.; TEMMEL, Erik; STEPANSKI, Manfred  
(74) Spruson & Ferguson
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- (71) Suzhou Botree Cycling Sci & Tech Co., Ltd  
(11) AU-A-2021338230  
(21) 2021338230 (22) 12.07.2021  
(54) Method for recycling nickel, cobalt and manganese from feed liquid containing nickel, cobalt and manganese  
(51) Int. Cl.  
C22B 3/32 ( 2006.01 )  
(87) WO2022/048307  
(31) 202010921237.9 (32) 04.09.20 (33) CN  
(43) 10.03.2022  
(72) WANG, Xue  
(74) GLMR
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- (71) SWM Luxembourg Sarl  
(11) AU-A-2021339948  
(21) 2021339948 (22) 10.09.2021  
(54) Filter for smoking or vaping article comprising a nonwoven substrate  
(51) Int. Cl.  
A24D 3/10 ( 2006.01 )  
A24D 3/02 ( 2006.01 )  
A24D 3/14 ( 2006.01 )  
A24D 3/17 ( 2020.01 )  
D04H 1/26 ( 2012.01 )  
D04H 1/425 ( 2012.01 )  
D04H 1/4258 ( 2012.01 )  
D04H 1/4266 ( 2012.01 )  
D04H 1/58 ( 2012.01 )  
D04H 1/587 ( 2012.01 )  
D04H 1/60 ( 2006.01 )  
(87) WO2022/053625  
(31) 2009247 (32) 11.09.20 (33) FR  
(43) 17.03.2022  
(72) CHERKAS, Oxana; RAVERDY-LAMBERT, Diane  
(74) GLMR
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- (71) SWM Luxembourg Sarl  
(11) AU-A-2021341502  
(21) 2021341502 (22) 10.09.2021  
(54) Filter for smoking or vaping article comprising a nonwoven substrate  
(51) Int. Cl.  
A24D 3/10 ( 2006.01 )  
A24D 3/02 ( 2006.01 )  
A24D 3/14 ( 2006.01 )  
A24D 3/17 ( 2020.01 )  
D04H 1/26 ( 2012.01 )  
D04H 1/425 ( 2012.01 )  
D04H 1/4258 ( 2012.01 )  
D04H 1/58 ( 2012.01 )  
D04H 1/587 ( 2012.01 )  
(87) WO2022/053621  
(31) FR2009244 (32) 11.09.20 (33) FR  
(43) 17.03.2022  
(72) CHERKAS, Oxana; RAVERDY-LAMBERT, Diane  
(74) GLMR
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- (71) Syros Pharmaceuticals, Inc.  
(11) AU-A-2021322320  
(21) 2021322320 (22) 06.08.2021  
(54) Therapies for treating AML and uses of RARA agonists, hypomethylating agents, and BCL-2 inhibitors  
(51) Int. Cl.  
A61K 31/192 ( 2006.01 )  
A61K 31/496 ( 2006.01 )  
A61K 31/706 ( 2006.01 )  
A61P 35/02 ( 2006.01 )  
C12Q 1/6886 ( 2018.01 )  
G01N 33/574 ( 2006.01 )  
(87) WO2022/032185  
(31) 63/062,350 (32) 06.08.20 (33) US  
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63/121,760 04.12.20 US  
(43) 10.02.2022  
(72) KANG-FORTNER, Qing; FIORE, Christopher M.  
(74) Spruson & Ferguson
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- (71) T.J.Smith and Nephew,Limited  
(11) AU-A-2021357098  
(21) 2021357098 (22) 22.09.2021  
(54) Temperature monitoring and control for negative pressure wound therapy systems  
(51) Int. Cl.  
A61M 1/00 ( 2006.01 )  
(87) WO2022/073762  
(31) 2015747.5 (32) 05.10.20 (33) GB  
2104922.6 07.04.21 GB  
(43) 14.04.2022  
(72) LAITENBERGER, Peter Georg; OWST, Jamie; QUINTANAR, Felix Clarence; RAMSBOTTOM, Neil Andrew; RODRIGUES, Roberto Damiao Da Costa  
(74) Patent Attorney Services
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- (71) Tactogen Inc  
(11) AU-A-2021322291  
(21) 2021322291 (22) 06.08.2021  
(54) 2-aminoindane compounds for mental disorders or enhancement  
(51) Int. Cl.  
A61K 31/343 ( 2006.01 )  
A61P 25/00 ( 2006.01 )  
C07D 307/77 ( 2006.01 )  
(87) WO2022/032147  
(31) 63/062,437 (32) 06.08.20 (33) US
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- (43) 10.02.2022  
(72) BAGGOTT, Matthew  
(74) Davies Collison Cave Pty Ltd
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- (71) Tan, S.; Yu, H.  
(11) AU-A-2021317383  
(21) 2021317383 (22) 22.07.2021  
(54) Underwater robot device and underwater regulation and control management optimization system and method  
(51) Int. Cl.  
G05D 1/06 ( 2006.01 )  
A01K 61/00 ( 2017.01 )  
E02F 3/28 ( 2006.01 )  
E02F 3/36 ( 2006.01 )  
E21B 7/02 ( 2006.01 )  
G05D 1/02 ( 2020.01 )  
(87) WO2022/021804  
(31) 202010740707.1 (32) 28.07.20 (33) CN  
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(43) 03.02.2022  
(72) TAN, Sicong; YU, Hao; YU, Mengfei  
(74) SICONG TAN
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- (71) TECHNOLOGICAL RESOURCES PTY. LIMITED  
(11) AU-A-2021348164  
(21) 2021348164 (22) 20.09.2021  
(54) Biomass direct reduced iron  
(51) Int. Cl.  
C21B 13/10 ( 2006.01 )  
C21B 13/00 ( 2006.01 )  
C21B 13/14 ( 2006.01 )  
C22B 1/24 ( 2006.01 )  
C22B 5/10 ( 2006.01 )  
(87) WO2022/061398  
(31) 2020903398 (32) 22.09.20 (33) AU  
(43) 31.03.2022  
(72) DRY, Rodney James; FARR, Iain William  
(74) Griffith Hack
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- (71) Telefonaktiebolaget LM Ericsson (publ)  
(11) AU-A-2021319441  
(21) 2021319441 (22) 06.08.2021  
(54) Earth-fixed cell ID for non-terrestrial networks  
(51) Int. Cl.  
H04B 7/185 ( 2006.01 )  
(87) WO2022/029719  
(31) 63/062,045 (32) 06.08.20 (33) US  
(43) 10.02.2022  
(72) ROMMER, Stefan; MÄÄTTANEN, Helka-Liina; MASINI, Gino; SCHLIWA-BERTLING, Paul; VESELY, Alexander  
(74) FB Rice Pty Ltd
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- (71) Telefonaktiebolaget LM Ericsson (Publ)  
(11) AU-A-2021320048  
(21) 2021320048 (22) 02.08.2021  
(54) Activating positioning SRS during DRX inactive time  
(51) Int. Cl.  
H04W 48/16 ( 2009.01 )  
H04W 52/02 ( 2009.01 )  
H04W 64/00 ( 2009.01 )



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**(87)** WO2022/029607  
**(31)** 63/062,967 **(32)** 07.08.20 **(33)** US  
**(43)** 10.02.2022  
**(72)** KAZMI, Muhammad Ali; SIOMINA, Iana; FRITZE, Stefan; LARSSON, Magnus  
**(74)** FB Rice Pty Ltd

**(71)** Telefonaktiebolaget LM Ericsson (Publ)  
**(11)** AU-A-2021322816  
**(21)** 2021322816 **(22)** 09.08.2021  
**(54)** NR beam reporting with uplink power  
**(51)** Int. Cl.  
*H04B 7/06* ( 2006.01 )  
*H04B 7/08* ( 2006.01 )  
**(87)** WO2022/029738  
**(31)** 63/062,464 **(32)** 07.08.20 **(33)** US  
**(43)** 10.02.2022  
**(72)** DAVOLI, Daniele; NILSSON, Andreas; TIDESTAV, Claes  
**(74)** AJ PARK

**(71)** Telefonaktiebolaget LM Ericsson (Publ)  
**(11)** AU-A-2021323058  
**(21)** 2021323058 **(22)** 09.08.2021  
**(54)** Indication of reduced output power in beam report  
**(51)** Int. Cl.  
*H04B 17/10* ( 2015.01 )  
*H04W 52/36* ( 2009.01 )  
*H04W 52/42* ( 2009.01 )  
**(87)** WO2022/029737  
**(31)** 63/063,056 **(32)** 07.08.20 **(33)** US  
**(43)** 10.02.2022  
**(72)** NILSSON, Andreas; TIDESTAV, Claes; ZHANG, Jianwei; DAVOLI, Daniele  
**(74)** AJ PARK

**(71)** Tessengerlo Group NV  
**(11)** AU-A-2021362720  
**(21)** 2021362720 **(22)** 14.10.2021  
**(54)** Improved method for producing highly digestible hydrolyzed keratinaceous material  
**(51)** Int. Cl.  
*A23J 1/10* ( 2006.01 )  
*A23J 3/30* ( 2006.01 )  
*A23J 3/34* ( 2006.01 )  
*A23K 10/26* ( 2016.01 )  
*A23K 20/142* ( 2016.01 )  
*A23K 50/00* ( 2016.01 )  
*B02C 13/12* ( 2006.01 )  
**(87)** WO2022/079192  
**(31)** 20201894.1 **(32)** 14.10.20 **(33)** EP  
**(43)** 21.04.2022  
**(72)** FILLIÈRES, Romain  
**(74)** Spruson & Ferguson

**(71)** The Regents of the University of Michigan  
**(11)** AU-A-2021339833  
**(21)** 2021339833 **(22)** 13.09.2021  
**(54)** Transcranial MR-guided histotripsy systems and methods  
**(51)** Int. Cl.  
*A61N 7/02* ( 2006.01 )

*A61B 5/055* ( 2006.01 )  
*A61B 90/00* ( 2016.01 )  
*G01R 33/48* ( 2006.01 )  
**(87)** WO2022/056394  
**(31)** 63/077,440 **(32)** 11.09.20 **(33)** US  
 63/078,166 14.09.20 US  
**(43)** 17.03.2022  
**(72)** XU, Zhen; NOLL, Douglas; HALL, Timothy L.  
**(74)** RnB IP Pty Ltd

**(71)** Thermacell Repellents, Inc.  
**(11)** AU-A-2021325075  
**(21)** 2021325075 **(22)** 12.08.2021  
**(54)** Linkable insect repeller station and control system  
**(51)** Int. Cl.  
*A01M 29/12* ( 2011.01 )  
*A01M 7/00* ( 2006.01 )  
*A01M 29/00* ( 2011.01 )  
*A61L 9/02* ( 2006.01 )  
*A61L 9/03* ( 2006.01 )  
**(87)** WO2022/036107  
**(31)** 63/222,256 **(32)** 15.07.21 **(33)** US  
 63/064,995 13.08.20 US  
 63/064,750 12.08.20 US  
**(43)** 17.02.2022  
**(72)** CHOJNACKI, Adam; HOLMES Jr., Robert G.; BOURQUE, Steven M.; THOMAS, Justin Michael  
**(74)** Spruson & Ferguson

**(71)** The Trustees of Columbia University in the City of New York  
**(11)** AU-A-2021336912  
**(21)** 2021336912 **(22)** 03.09.2021  
**(54)** Genetic modifications for xenotransplantation  
**(51)** Int. Cl.  
*A01N 63/00* ( 2020.01 )  
*A01K 67/00* ( 2006.01 )  
*A01K 67/027* ( 2006.01 )  
*A61F 13/00* ( 2006.01 )  
*A61K 35/22* ( 2015.01 )  
*A61L 27/36* ( 2006.01 )  
*A61N 1/30* ( 2006.01 )  
**(87)** WO2022/051594  
**(31)** 63/075,285 **(32)** 07.09.20 **(33)** US  
 63/108,986 03.11.20 US  
**(43)** 10.03.2022  
**(72)** SYKES, Megan; HAWLEY, Robert J.; YAMADA, Kazuhiko; SACHS, David H.  
**(74)** WRAYS PTY LTD

**(71)** Thoughtful Pty Limited  
**(11)** AU-A-2021319948  
**(21)** 2021319948 **(22)** 04.08.2021  
**(54)** System and method for persistent contactless check-in  
**(51)** Int. Cl.  
*G07C 9/38* ( 2020.01 )  
*G06F 16/955* ( 2019.01 )  
*G06K 7/10* ( 2006.01 )  
*H04W 4/80* ( 2018.01 )  
**(87)** WO2022/027096  
**(31)** 2020902724 **(32)** 04.08.20 **(33)** AU  
**(43)** 10.02.2022  
**(72)** FRIEDMAN, Adam; TO, Kwok Kit Jamie  
**(74)** Davies Collison Cave Pty Ltd

**(71)** Tissium SA  
**(11)** AU-A-2021336634  
**(21)** 2021336634 **(22)** 26.03.2021  
**(54)** Device for applying adhesive composition to biological tissue and/or prosthetic material  
**(51)** Int. Cl.  
*A61B 17/11* ( 2006.01 )  
**(87)** WO2022/048799  
**(31)** 20305979.5 **(32)** 03.09.20 **(33)** EP  
**(43)** 10.03.2022  
**(72)** MENAND, Simon; COLLIN, Estelle; VAGUELSY, Louise; NAZ, Christophe  
**(74)** FPA Patent Attorneys Pty Ltd

**(71)** Ubicquia IQ LLC  
**(11)** AU-A-2021329638  
**(21)** 2021329638 **(22)** 21.08.2021  
**(54)** Automated virtual tripwire placement  
**(51)** Int. Cl.  
*G08G 1/01* ( 2006.01 )  
*G08G 1/04* ( 2006.01 )  
**(87)** WO2022/040611  
**(31)** 17/408,115 **(32)** 20.08.21 **(33)** US  
 63/068,864 21.08.20 US  
**(43)** 24.02.2022  
**(72)** HOLDEN, Samuel Leonard; NESER, Morné  
**(74)** PHILLIPS ORMONDE FITZPATRICK

**(71)** Ultragenyx Pharmaceutical Inc.; Saint Louis University  
**(11)** AU-A-2021337595  
**(21)** 2021337595 **(22)** 01.09.2021  
**(54)** DUX4 inhibitors and methods of use thereof  
**(51)** Int. Cl.  
*C12N 15/11* ( 2006.01 )  
*A61P 21/00* ( 2006.01 )  
*C12N 15/113* ( 2010.01 )  
**(87)** WO2022/051332  
**(31)** 63/073,304 **(32)** 01.09.20 **(33)** US  
**(43)** 10.03.2022  
**(72)** DAUGHERTY, Sean Christopher; CHEN, Lishan; SVERDRUP, Francis Michael  
**(74)** Madderens Pty Ltd

**(71)** Universidade Do Porto; FACULDADE DE FARMÁCIA DA UNIVERSIDADE DE LISBOA; UNIVERSIDADE PEDAGÓGICA; INSTITUTO DE PATOLOGIA E IMUNOLOGIA MOLECULAR DA UNIVERSIDADE DO PORTO - IP-ATIMUP  
**(11)** AU-A-2021341895  
**(21)** 2021341895 **(22)** 10.09.2021  
**(54)** New pharmaceutical compounds, methods and uses thereof  
**(51)** Int. Cl.  
*A61K 31/439* ( 2006.01 )  
*A61P 35/00* ( 2006.01 )  
**(87)** WO2022/053998  
**(31)** 116714 **(32)** 10.09.20 **(33)** PT

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 (72) ATAÍDE SARAIVA, Lucília Helena; UMBELINO FERREIRA, Maria José; MULHOVO, Silva Fabião; DA SILVA BORGES COSTA, José Luis; GOMES RAIMUNDO, Liliana Sofia; PATERNA, Angela; MEIXEDO CALHEIROS, Juliana  
 (74) Golja Haines & Friend
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- (71) Universität Zürich  
 (11) AU-A-2021327147  
 (21) 2021327147 (22) 18.08.2021  
 (54) A CD25-biased anti-IL-2 antibody  
 (51) Int. Cl.  
 A61K 39/395 ( 2006.01 )  
 A61P 37/00 ( 2006.01 )  
 A61P 37/02 ( 2006.01 )  
 C07K 16/24 ( 2006.01 )  
 (87) WO2022/038193  
 (31) 20191635.0 (32) 18.08.20 (33) EP  
 20195863.4 11.09.20 EP  
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 (43) 24.02.2022  
 (72) BOYMAN, Onur; KARAKUS, Ufuk; RAEBER, Miro; MELEDIN, Roman; MAKA, Robert  
 (74) SR Intellectual Property
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- (71) University of Georgia Research Foundation, Inc.  
 (11) AU-A-2021342576  
 (21) 2021342576 (22) 21.09.2021  
 (54) PIV5-based covid-19 vaccine  
 (51) Int. Cl.  
 A61K 39/215 ( 2006.01 )  
 (87) WO2022/061264  
 (31) 63/080,862 (32) 21.09.20 (33) US  
 63/217,361 01.07.21 US  
 (43) 24.03.2022  
 (72) HE, Biao  
 (74) Spruson & Ferguson
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- (71) University of Houston System  
 (11) AU-A-2021324899  
 (21) 2021324899 (22) 13.08.2021  
 (54) System and method for locating an implantation site in the brain  
 (51) Int. Cl.  
 A61B 5/05 ( 2021.01 )  
 A61N 1/06 ( 2006.01 )  
 A61N 1/08 ( 2006.01 )  
 A61N 1/36 ( 2006.01 )  
 (87) WO2022/036199  
 (31) 63/066,141 (32) 14.08.20 (33) US  
 63/068,186 20.08.20 US  
 17/400,306 12.08.21 US  
 (43) 17.02.2022  
 (72) INCE, Nuri F.; OZTURK, Musa; VISWANATHAN, Ashwin  
 (74) Davies Collison Cave Pty Ltd
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- (71) UPL Limited  
 (11) AU-A-2022326907  
 (21) 2022326907 (22) 12.08.2022  
 (54) A process for preparation of pyroxasulfone  
 (51) Int. Cl.  
 A61K 9/00 ( 2006.01 )  
 A61K 9/08 ( 2006.01 )  
 A61K 31/53 ( 2006.01 )  
 A61K 47/10 ( 2017.01 )  
 A61P 11/06 ( 2006.01 )  
 A61P 17/00 ( 2006.01 )  
 A61P 17/06 ( 2006.01 )  
 A61P 25/28 ( 2006.01 )  
 A61P 27/02 ( 2006.01 )  
 (87) WO2022/056265  
 (31) 63/076,774 (32) 10.09.20 (33) US
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- (71) Vanda Pharmaceuticals Inc.  
 (11) AU-A-2021338837  
 (21) 2021338837 (22) 10.09.2021  
 (54) Methods of treating PDE IV mediated diseases or conditions  
 (51) Int. Cl.  
 A61K 9/00 ( 2006.01 )  
 A61K 9/08 ( 2006.01 )  
 A61K 31/53 ( 2006.01 )  
 A61K 47/10 ( 2017.01 )  
 A61P 11/06 ( 2006.01 )  
 A61P 17/00 ( 2006.01 )  
 A61P 17/06 ( 2006.01 )  
 A61P 25/28 ( 2006.01 )  
 A61P 27/02 ( 2006.01 )  
 (87) WO2022/056265  
 (31) 63/076,774 (32) 10.09.20 (33) US
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- (71) Vertex Pharmaceuticals Incorporated  
 (11) AU-A-2021325923  
 (21) 2021325923 (22) 12.08.2021  
 (54) Crystalline forms of CFTR modulators  
 (51) Int. Cl.  
 A61P 11/00 ( 2006.01 )  
 A61K 31/4353 ( 2006.01 )  
 C07C 309/29 ( 2006.01 )  
 C07C 309/30 ( 2006.01 )  
 C07D 513/22 ( 2006.01 )  
 (87) WO2022/036060  
 (31) 63/065,057 (32) 13.08.20 (33) US  
 (43) 17.02.2022  
 (72) IYEMPERUMAL, Satish Kumar; PERESYPKIN, Andrey; SHI, Yi; SHRESTHA, Muna  
 (74) AJ PARK
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- (71) Vertex Pharmaceuticals Incorporated  
 (11) AU-A-2021342057  
 (21) 2021342057 (22) 08.09.2021  
 (54) Compositions and methods for treatment of duchenne muscular dystrophy  
 (51) Int. Cl.  
 C12N 15/113 ( 2010.01 )  
 C12N 9/22 ( 2006.01 )  
 (87) WO2022/056000  
 (31) 63/076,250 (32) 09.09.20 (33) US  
 63/152,114 22.02.21 US  
 63/166,174 25.03.21 US  
 63/179,850 26.04.21 US  
 (43) 17.03.2022  
 (72) GROMADA, Jesper; FULGA, Tudor; MCVIE-WYLIE, Alison; DOMINGUEZ GUTIERREZ, Giselle; XIN, Yurong; MIN, Yi-Li; BOLUKBASI, Fatih; ANDERSON, Eric  
 (74) Spruson & Ferguson
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- (43) 17.03.2022  
 (72) KOPRIVICA, Vuk  
 (74) ALLENS PATENT & TRADE MARK ATTORNEYS
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- (71) Vertex Pharmaceuticals Incorporated  
 (11) AU-A-2021322301  
 (21) 2021322301 (22) 06.08.2021  
 (54) Modulators of cystic fibrosis transmembrane conductance regulator  
 (51) Int. Cl.  
 C07D 413/04 ( 2006.01 )  
 A61K 31/4439 ( 2006.01 )  
 A61P 11/00 ( 2006.01 )  
 (87) WO2022/032068  
 (31) 63/063,194 (32) 07.08.20 (33) US  
 (43) 10.02.2022  
 (72) CLEMENS, Jeremy J.; BOOKSER, Brett C.; CLEVELAND, Thomas; COON, Timothy R.; GALLANT, Michel; HADIDA RUAH, Sara Sabina; LATERREUR, Julie; MELILLO, Vito; MILLER, Mark Thomas; PARASELLI, Prasuna; RAMTOHUL, Yeeman K.; REDDY, Thumkuntha Jagadeeswar; STURINO, Claudio; VALDEZ, Lino; ZHOU, Jinglan; BAEK, Minson; BECHARA, William Schulz  
 (74) AJ PARK
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- (71) Vertex Pharmaceuticals Incorporated  
 (11) AU-A-2021325923  
 (21) 2021325923 (22) 12.08.2021  
 (54) Crystalline forms of CFTR modulators  
 (51) Int. Cl.  
 A61P 11/00 ( 2006.01 )  
 A61K 31/4353 ( 2006.01 )  
 C07C 309/29 ( 2006.01 )  
 C07C 309/30 ( 2006.01 )  
 C07D 513/22 ( 2006.01 )  
 (87) WO2022/036060  
 (31) 63/065,057 (32) 13.08.20 (33) US  
 (43) 17.02.2022  
 (72) IYEMPERUMAL, Satish Kumar; PERESYPKIN, Andrey; SHI, Yi; SHRESTHA, Muna  
 (74) AJ PARK
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- (71) Vertex Pharmaceuticals Incorporated  
 (11) AU-A-2021342057  
 (21) 2021342057 (22) 08.09.2021  
 (54) Compositions and methods for treatment of duchenne muscular dystrophy  
 (51) Int. Cl.  
 C12N 15/113 ( 2010.01 )  
 C12N 9/22 ( 2006.01 )  
 (87) WO2022/056000  
 (31) 63/076,250 (32) 09.09.20 (33) US  
 63/152,114 22.02.21 US  
 63/166,174 25.03.21 US  
 63/179,850 26.04.21 US  
 (43) 17.03.2022  
 (72) GROMADA, Jesper; FULGA, Tudor; MCVIE-WYLIE, Alison; DOMINGUEZ GUTIERREZ, Giselle; XIN, Yurong; MIN, Yi-Li; BOLUKBASI, Fatih; ANDERSON, Eric  
 (74) Spruson & Ferguson

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(71) Vetco Gray Scandinavia AS  
 (11) AU-A-2021335961  
 (21) 2021335961 (22) 27.08.2021  
 (54) Multi valve electrical actuator  
 (51) Int. Cl.  
     **E21B 41/00** ( 2006.01 )  
     **F16K 31/53** ( 2006.01 )  
 (87) WO2022/048793  
 (31) 20200975 (32) 07.09.20 (33) NO  
 (43) 10.03.2022  
 (72) HESTETUN, Steinar Lindemann  
 (74) Patent Attorney Services

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(71) ViaSat, Inc.  
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 (21) 2020467488 (22) 14.09.2020  
 (54) Antenna array architecture with electrically conductive columns between substrates  
 (51) Int. Cl.  
     **H01Q 21/00** ( 2006.01 )  
     **H01L 23/00** ( 2006.01 )  
     **H01L 23/48** ( 2006.01 )  
     **H01L 23/66** ( 2006.01 )  
     **H01Q 1/22** ( 2006.01 )  
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 (43) 17.03.2022  
 (72) ASTORGA, Luis G.; FRANSON, Steven J.  
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     **H04B 7/185** ( 2006.01 )  
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 (72) O'SULLIVAN, Niall; O'BRIEN, Ultan; MURRAY, Fergal  
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     **H04B 7/204** ( 2006.01 )  
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 (11) AU-A-2021322247  
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 (51) Int. Cl.  
     **H04M 1/72436** ( 2021.01 )

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**H04M 1/72451** ( 2021.01 )  
**H04W 4/12** ( 2009.01 )  
 (87) WO2022/031916  
 (31) 16/987,040 (32) 06.08.20 (33) US  
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 (72) NEMA, Manish; HOLSCHER, David; MIRCHANDANI, Arun  
 (74) Davies Collison Cave Pty Ltd

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(71) Voith Patent GmbH  
 (11) AU-A-2021323367  
 (21) 2021323367 (22) 07.04.2021  
 (54) Redox flow battery with a measuring device  
 (51) Int. Cl.  
     **H01M 8/18** ( 2006.01 )  
 (87) WO2022/028743  
 (31) 10 2020 120 428.0 (32) 03.08.20 (33) DE  
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 (74) Spruson & Ferguson

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(71) Voith Patent GmbH  
 (11) AU-A-2021336655  
 (21) 2021336655 (22) 17.08.2021  
 (54) Method for monitoring the state of a redox flow battery system  
 (51) Int. Cl.  
     **H01M 8/18** ( 2006.01 )  
 (87) WO2022/048904  
 (31) 10 2020 123 170.9 (32) 04.09.20 (33) DE  
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 (54) Disc-type ironless permanent magnet synchronous generator powered by auxiliary power supply  
 (51) Int. Cl.  
     **H02K 21/00** ( 2006.01 )  
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 (72) WANG, Xiaoguang; YU, Renwei  
 (74) Madderns Pty Ltd

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(71) Weatherford Technology Holdings, LLC  
 (11) AU-A-2021357044  
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 (54) Fluid sampler tool and associated system and method  
 (51) Int. Cl.  
     **E21B 49/08** ( 2006.01 )  
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 (43) 14.04.2022  
 (72) ELSORSAR, Ahmed Abdalla; PINSON, Benoit; ALFSON, Blake L.; FISHEL, Gadi; INGRAM, Gary D.  
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(71) Weatherford U.K. Limited  
 (11) AU-A-2021344819  
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 (54) Method and system for remotely signalling a downhole assembly comprising one or more downhole tool  
 (51) Int. Cl.  
     **E21B 34/02** ( 2006.01 )  
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(71) Well-SENSE Technology Limited  
 (11) AU-A-2021337140  
 (21) 2021337140 (22) 13.08.2021  
 (54) Method, device and system for range finding  
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     **G01B 11/02** ( 2006.01 )  
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     **E21B 47/09** ( 2012.01 )  
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 (72) PURKIS, Daniel George  
 (74) Griffith Hack

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(71) Wing Aviation LLC  
 (11) AU-A-2021340548  
 (21) 2021340548 (22) 18.08.2021  
 (54) Landing pad with charging and loading functionality for unmanned aerial vehicle  
 (51) Int. Cl.  
     **B64F 1/22** ( 2006.01 )  
     **B60L 53/30** ( 2019.01 )  
     **B64C 39/02** ( 2006.01 )  
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 (72) LISKE, Kyle; PRAGER, André; RENOLD, Nick  
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 (54) Communication system  
 (51) Int. Cl.  
     **H04B 5/00** ( 2006.01 )  
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- (71) YOUSEFIROSHAN, H.  
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 (21) 2020467852 (22) 09.09.2020  
 (54) Method and system of simulations for personalized brain treatments  
 (51) Int. Cl.  
     **A61F 2/00** ( 2006.01 )  
     **G16H 10/60** ( 2018.01 )  
     **G16H 50/50** ( 2018.01 )  
 (87) WO2022/053850  
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 (72) YOUSEFIROSHAN, Hamed  
 (74) AJ PARK
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- (71) Zendesk, Inc.  
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 (21) 2022316517 (22) 26.07.2022  
 (54) Split triggers for executing computer operations  
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     **H04L 67/10** ( 2022.01 )  
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 (43) 06.04.2023  
 (72) BISWAS, Sanjeev Kumar; KHANH, Nguyen Truong; HONG, Ang Yi; KUMAR, Sanjaykrishnan; NAGDEVE, Arpan  
 (74) FB Rice Pty Ltd
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- (71) Zerun Co., Ltd  
 (11) AU-A-2021459219  
 (21) 2021459219 (22) 06.09.2021  
 (54) Axial diode junction box and manufacturing method therefor  
 (51) Int. Cl.  
     **H02S 40/34** ( 2014.01 )  
     **H01L 29/861** ( 2006.01 )  
 (87) WO2023/010645  
 (31) 202110881967.5 (32) 02.08.21 (33) CN  
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 (72) CHEN, Zepeng  
 (74) Spruson & Ferguson
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- (71) ZHEJIANG JUVENSIS THERAPEUTICS CO., LTD.; NANJING JUVENSIS THERAPEUTICS CO., LTD.  
 (11) AU-A-2021349825  
 (21) 2021349825 (22) 22.09.2021  
 (54) INACTIVE TELOMERASE, ADENOVIRUS ASSOCIATED VIRUS AND ARTIFICIAL MRNA HAVING SAME AND USE THEREOF  
 (51) Int. Cl.  
     **C12N 9/12** ( 2006.01 )  
     **A61K 38/45** ( 2006.01 )  
     **A61K 48/00** ( 2006.01 )  
     **A61P 9/00** ( 2006.01 )  
     **A61P 9/04** ( 2006.01 )  
     **A61P 21/00** ( 2006.01 )  
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 (31) 202010999930.8 (32) 22.09.20 (33) CN  
 (43) 31.03.2022  
 (72) ZHANG, Jiahao; ZENG, Xue  
 (74) Madderns Pty Ltd
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- (71) Ørsted Wind Power A/S  
 (11) AU-A-2022316434  
 (21) 2022316434 (22) 19.07.2022  
 (54) Floating vertical wind profile sensor device and method of determining a vertical wind profile  
 (51) Int. Cl.  
     **B63B 21/50** ( 2006.01 )  
     **B63B 22/00** ( 2006.01 )  
     **B63B 35/00** ( 2020.01 )  
 (87) WO2023/001807  
 (31) 21186814.6 (32) 20.07.21 (33) EP  
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 (72) HANSEN, Frederik Søndergaard; WEHL, Jacob Elneff; MØLLER, Jan Sloth  
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<b>2019409901</b>	Botaneco Inc.	<b>2021324445</b>	LG Energy Solution, Ltd.; RENAULT S.A.S
<b>2019419414</b>	Icahn School of Medicine at Mount Sinai	<b>2021324583</b>	Boston Scientific Neuromodulation Corporation
<b>2019442941</b>	Mitsubishi Electric Corporation	<b>2021324599</b>	Nippon Fiber Corporation
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<b>2021240199</b>	SenseTime International Pte. Ltd.	<b>2021326464</b>	Dynocardia, Inc.
<b>2021240231</b>	SenseTime International Pte. Ltd.	<b>2021326466</b>	LightForce Orthodontics, Inc.
<b>2021240232</b>	SenseTime International Pte. Ltd.	<b>2021326469</b>	Janux Therapeutics, Inc.
<b>2021240270</b>	SenseTime International Pte. Ltd.	<b>2021327147</b>	Universität Zürich
<b>2021240274</b>	SenseTime International Pte. Ltd.	<b>2021327407</b>	Kiss Nail Products, Inc.
<b>2021276921</b>	Chan, Y.; Lin, C.	<b>2021327752</b>	Runway Blue, LLC
<b>2021317383</b>	Tan, S.; Yu, H.	<b>2021327809</b>	Qingdao Haier Refrigerator Co., Ltd; Haier Smart Home Co., Ltd.
<b>2021319376</b>	Picomole Inc.	<b>2021327811</b>	Qingdao Haier Special Refrigeration Electric Appliance Co., Ltd.; Haier Smart Home Co., Ltd.
<b>2021319441</b>	Telefonaktiebolaget LM Ericsson (publ)	<b>2021328100</b>	MOBBOT SA
<b>2021319851</b>	igus GmbH	<b>2021328219</b>	Mincon International Limited
<b>2021319868</b>	B. Braun Melsungen AG	<b>2021328649</b>	ETH Zurich
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<b>2021320048</b>	Telefonaktiebolaget LM Ericsson (Publ)	<b>2021329202</b>	Global Traffic Technologies, LLC
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<b>2021320651</b>	Medtronic, Inc.	<b>2021329438</b>	PureTec Pty Ltd
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<b>2021321410</b>	Spacecraft Seven, LLC	<b>2021330383</b>	PreveCeutical Medical Inc.
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<b>2021321414</b>	LPS IP, LLC	<b>2021330784</b>	Clapshaw, C.L.
<b>2021321500</b>	Chang, Y.; Chen, G.	<b>2021330819</b>	Ergomotion, Inc.
<b>2021321514</b>	Air Company Holdings, Inc.	<b>2021331023</b>	National Institutes for Quantum and Radiological Science and Technology; Eisai R&D Management Co., Ltd.; Ono Pharmaceutical Co., Ltd.; Takeda Pharmaceutical Company Limited
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<b>2021322299</b>	MELD Manufacturing Corporation	<b>2021332899</b>	Liveome Inc.
<b>2021322301</b>	Vertex Pharmaceuticals Incorporated	<b>2021332979</b>	Samsung Electronics Co., Ltd.
<b>2021322320</b>	Syros Pharmaceuticals, Inc.	<b>2021333553</b>	Eli Lilly and Company
<b>2021322511</b>	Jain, P.; Jain, D.	<b>2021333760</b>	Nalo Therapeutics
<b>2021322594</b>	Lindsay Corporation	<b>2021333933</b>	BioConsortia, Inc.
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2021347580	F. Hoffmann-La Roche AG	2021444140	Huawei Technologies Co., Ltd.
2021347678	Boston Scientific Scimed, Inc.	2021456512	Genevoyager (Wuhan) Co., Ltd.
2021347901	Edwards Lifesciences Innovation (Israel) Ltd.	2021459219	Zerun Co., Ltd
2021348164	TECHNOLOGICAL RESOURCES PTY. LIMITED	2022207565	Huawei Technologies Co., Ltd.
2021349199	Boston Scientific SciMed, Inc.	2022208314	Casale Limited
2021349337	Saint-Gobain Isover	2022229612	LG Energy Solution, Ltd.
2021349751	Razer (Asia-Pacific) Pte. Ltd.	2022231731	Qingdao Kingdom Health Industry Co., Ltd.
2021349825	ZHEJIANG JUVENSIS THERAPEUTICS CO., LTD.; NANJING JUVENSIS THERAPEUTICS CO., LTD.	2022244599	Hitachi Construction Machinery Co., Ltd.
2021349841	Hunter Douglas, Inc.	2022275786	Regeneron Pharmaceuticals, Inc.; Bayer Healthcare LLC
2021350117	Inari Agriculture Technology, Inc.	2022312942	State Grid Corporation of China; State Grid Blockchain Technology (Beijing) Co., Ltd.; Beijing Power Exchange Center Co., Ltd.; State Grid Digital Technology Hold- ing Co., Ltd.; Jiangxi Power Exchange Center Co., Ltd.; Liaoning Power Exchange Center Co., Ltd.; East Inner Mongolia Power Exchange Center Company Ltd.
2021350291	Pretlove, H.	2022316434	Ørsted Wind Power A/S
2021350384	Ectosense NV	2022316517	Zendesk, Inc.
2021350391	Fraunhofer-Gesellschaft zur Förderung der ange- wandten Forschung E. V.	2022325173	Huawei Technologies Co., Ltd.
2021351459	Graphic Packaging International, LLC	2022326907	UPL Limited
2021351634	PopSockets LLC		
2021351645	Blue River Technology Inc.		
2021351921	Millicent Pharma Limited		
2021352417	Acucela Inc.		
2021353095	Equifax Inc.		
2021353471	Sulzer Management AG		
2021353752	Nohms Technologies, Inc.		
2021354733	IFP Energies nouvelles		
2021354916	Lexogen GmbH		
2021354931	Manitou BF		
2021355365	PIONEER HI-BRED INTERNATIONAL, INC.; Corteva Agriscience LLC		
2021355368	Boston Scientific Scimed, Inc.		
2021356030	ABUS August Bremicker Söhne KG		
2021356482	John Zink Company, LLC		
2021356627	Johnson Matthey Process Technologies, Inc		
2021356901	Mitsubishi Heavy Industries Engineering, Ltd.		
2021357044	Weatherford Technology Holdings, LLC		
2021357098	T.J.Smith and Nephew,Limited		
2021357566	Hilti Aktiengesellschaft		
2021358762	Lucid Software, Inc.		
2021359666	Electrolux Appliances Aktiebolag		
2021359806	Norgren Automation Solutions LLC		
2021360283	Alcon Inc.		
2021362720	Tessenderlo Group NV		
2021364200	AKI, Inc.		
2021364523	Oak Hill Bio Limited		
2021365131	Lucid Software, Inc.		
2021366077	Krauss-Maffei Wegmann GmbH & Co. KG		
2021366260	ENDUROSAT JOINT STOCK COMPANY		
2021366317	Boehringer Ingelheim International GmbH		
2021366642	BOSTIK, INC.		
2021367440	Mitsubishi Shipbuilding Co., Ltd.		
2021368677	E Ink Corporation		
2021368779	E Ink Corporation		
2021369256	Mitsubishi Shipbuilding Co., Ltd.		
2021370394	Société des Produits Nestlé S. A.		
2021370956	Freudenberg Medical, LLC		
2021371034	E Ink Corporation		
2021372803	Société des Produits Nestlé S.A.		
2021373314	Sapphire Balconies Limited		
2021375458	Société des Produits Nestlé S. A.		
2021378062	International Business Machines Corporation		
2021379027	Creo Medical Ltd		
2021380806	International Business Machines Corporation		
2021382325	INNOVATIVE ROBOT DELIVERY GMBH		
2021383972	International Business Machines Corporation		
2021391179	Halliburton Energy Services, Inc.		
2021394086	Formosa Saint Jose Corp.		
2021401870	Halliburton Energy Services, Inc.		
2021403968	Hitachi, Ltd.		
2021404523	Huawei Technologies Co., Ltd.		
2021418658	Huawei Technologies Co., Ltd.		
2021420803	CJ Cheiljedang Corporation		
2021427231	Wang, X.; Yu, R.		

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2021335368	<b><u>C03B 3 /-</u></b>	<b><u>C07C 255 /-</u></b>		<b><u>C07K 14 /-</u></b>	<b><u>C09D 135 /-</u></b>
<b><u>B65D 51 /-</u></b>	2021349337	2021329303	<b><u>C07D 413 /-</u></b>	2021331076 2021336990 2021337530 2021339843 2021340470 2021341221 2021355365	2020465258
2021345041 2021345042	<b><u>C03C 1 /-</u></b>	<b><u>C07C 29 /-</u></b>	2021322301 2021323300 2021333760 2022326907		<b><u>C09D 5 /-</u></b>
<b><u>B65D 71 /-</u></b>	<b><u>C03C 13 /-</u></b>	<b><u>C07C 309 /-</u></b>	<b><u>C07D 417 /-</u></b>		2021357566
2021351459	2021349337	2021325923	2021322186 2021331023 2021333760 2021339955	<b><u>C07K 16 /-</u></b>	<b><u>C09J 7 /-</u></b>
<b><u>B65D 81 /-</u></b>	<b><u>C03C 21 /-</u></b>	<b><u>C07C 319 /-</u></b>		2021325339 2021327147 2021331075 2021331076 2021332460 2021334042 2021336547	2021327407
2021345041 2021345042	2021335528 2021335530	2021339463	<b><u>C07C 323 /-</u></b>		<b><u>C10B 53 /-</u></b>
		2021339463			2021346776
					<b><u>C10G 1 /-</u></b>
					2021346776 2021354733

PCT applications which have entered the National Phase - IPC Index cont'd

<b>C10G 11 /-</b>	2021332899 2021333933	2021347292	<b>E02D 37 /-</b>	<b>E06B 9 /-</b>	<b>F16C 19 /-</b>
2021356627	<b>C12N 15 /-</b>	<b>C12Q 1 /-</b>	2021342761	2021349841	2020468127 2021337353
<b>C10G 21 /-</b>	2021320902 2021321410 2021321412 2021325891 2021331410	2021321531 2021322320 2021339956 2021345283 2021354916	<b>E02F 3 /-</b>	<b>E06C 1 /-</b>	<b>F16C 33 /-</b>
2021354733	2021334042 2021335601 2021336754 2021337530 2021337580 2021337595 2021338707 2021339463 2021339808 2021339843	<b>C12R 1 /-</b>	2021317383 2021330707	2021276921 2021394086	2020468127 2021337353
<b>C10G 25 /-</b>	2021340470 2021341221 2021342057 2021342163 2021342503 2021345187 2021347292 2021347580 2021350117 2021355365 2021456512	2021331730 2021332899 2021420803	<b>E04B 1 /-</b>	<b>E06C 7 /-</b>	<b>F16G 13 /-</b>
2021346776	<b>C10G 29 /-</b>	<b>C21B 13 /-</b>	2021337480 2021373314	2021276921	<b>F16G 13 /-</b>
<b>C10G 31 /-</b>	2021342057 2021342163 2021342503 2021345187 2021347292 2021347580 2021350117 2021355365 2021456512	2021348164	<b>E04B 5 /-</b>	<b>E21B 34 /-</b>	2021319851
2021346776	<b>C10G 45 /-</b>	<b>C22B 1 /-</b>	2021339925	2021328219 2021344819	<b>F16J 15 /-</b>
<b>C10G 47 /-</b>	2021342057 2021342163 2021342503 2021345187 2021347292 2021347580 2021350117 2021355365 2021456512	2021348164	<b>E04B 7 /-</b>	<b>E21B 41 /-</b>	<b>F16K 1 /-</b>
2021346776	<b>C10G 65 /-</b>	<b>C22B 3 /-</b>	2021342816	2021332357 2021335961 2021391179	2021345218
<b>C10G 67 /-</b>	<b>C12N 5 /-</b>	2021338230	<b>E04C 5 /-</b>	<b>E21B 43 /-</b>	<b>F16K 15 /-</b>
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<b>C10G 69 /-</b>	2021324891 2021334042 2021343479	2021348164	<b>E04G 15 /-</b>	<b>E21B 47 /-</b>	2021345218
2021346776	<b>C12N 7 /-</b>	<b>C25B 1 /-</b>	2021334404	2021337140 2021340722 2021342263 2021344819 2021401870	<b>F16K 31 /-</b>
<b>C10G 9 /-</b>	2021349825	2021344092	<b>E04H 1 /-</b>	2021335961	<b>F16L 13 /-</b>
2021346776	<b>C12N 9 /-</b>	<b>D03D 1 /-</b>	2021329438	2021321414	<b>F16L 13 /-</b>
<b>C10L 1 /-</b>	2021326469 2021338361 2021338707 2021340470 2021342057 2021345187 2021347292 2021349825 2021420803	<b>D03D 15 /-</b>	<b>E04H 15 /-</b>	<b>E21B 49 /-</b>	<b>F16L 15 /-</b>
2021335086	<b>C12N 9 /-</b>	2021334025	2021342816	2021357044	<b>F16L 15 /-</b>
<b>C10L 10 /-</b>	2021326469 2021338361 2021338707 2021340470 2021342057 2021345187 2021347292 2021349825 2021420803	<b>D04H 1 /-</b>	<b>E04H 5 /-</b>	<b>E21B 7 /-</b>	2021322850
2021335086	<b>C12P 13 /-</b>	2021334025	2021322219	2021317383 2021342761 2021391179	<b>F16L 21 /-</b>
<b>C10M 107 /-</b>	2021326469 2021338361 2021338707 2021340470 2021342057 2021345187 2021347292 2021349825 2021420803	<b>D06F 34 /-</b>	<b>E05B 63 /-</b>	<b>E21D 9 /-</b>	2021321414
2021336726	<b>C12P 17 /-</b>	<b>D06F 58 /-</b>	2021356030	2021342761	<b>F16L 29 /-</b>
<b>C10N 20 /-</b>	2021340470 2021341221	2021335846 2021336358	<b>E05B 67 /-</b>	<b>F03B 13 /-</b>	2021322850
2021336726	<b>C12P 19 /-</b>	<b>D21H 11 /-</b>	2021356030	2021331666	<b>F16L 3 /-</b>
<b>C10N 30 /-</b>	2021347292	2021321500	<b>E05B 9 /-</b>	<b>F03D 13 /-</b>	2021319851
2021336726	<b>C12P 21 /-</b>	<b>E01C 11 /-</b>	2021356030	2021330152	<b>F16L 33 /-</b>
<b>C12C 11 /-</b>	2021347292	2020461178	<b>E05F 1 /-</b>	2021340152	2021336273
2021342711	<b>C12P 21 /-</b>	<b>E02D 27 /-</b>	2020466447	<b>F04B 11 /-</b>	<b>F16L 41 /-</b>
<b>C12C 12 /-</b>	2021347580	2021342761	<b>E05F 3 /-</b>	2021341829	2021322850
2021342711	<b>C12P 7 /-</b>	<b>E02D 3 /-</b>	2020466447	<b>F04B 43 /-</b>	<b>F16M 11 /-</b>
<b>C12N 1 /-</b>	2021331730	2021342761	<b>E06B 3 /-</b>	2021341829	2021337568
2021331730	2021331730	2021342761	2021329438	<b>F04D 17 /-</b>	<b>F16M 13 /-</b>
		2021342761	<b>E06B 5 /-</b>	2019442941	2021337568
		2021342761	<b>E06B 7 /-</b>	<b>F04D 29 /-</b>	<b>F17C 1 /-</b>
		2021329438	2021329438	2019442941 2021322219	2021335915

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<b><u>F17C 13 /-</u></b>	<b><u>G01D 21 /-</u></b>	<b><u>G01V 1 /-</u></b>	<b><u>G06F 3 /-</u></b>	<b><u>G06T 19 /-</u></b>	<b><u>G16H 10 /-</u></b>
2021335915	2021336432	2021401870	2021330784	2021330784	2020467852
2021336470			2021349751		2021337236
2021367440	<b><u>G01D 5 /-</u></b>	<b><u>G01W 1 /-</u></b>	2021358762		
2021369256	2021401870	2020469132	2021365131	<b><u>G06T 3 /-</u></b>	<b><u>G16H 20 /-</u></b>
<b><u>F17C 3 /-</u></b>	<b><u>G01F 1 /-</u></b>	<b><u>G02B 1 /-</u></b>	<b><u>G06F 30 /-</u></b>	2021349199	2021340286
2021335915	2021342263	2020467829	2021336432	<b><u>G06T 5 /-</u></b>	<b><u>G16H 30 /-</u></b>
2021336470				2021333957	2021324971
<b><u>F21V 8 /-</u></b>	<b><u>G01G 13 /-</u></b>	<b><u>G02B 27 /-</u></b>	<b><u>G06F 8 /-</u></b>	<b><u>G06T 7 /-</u></b>	<b><u>G16H 40 /-</u></b>
2021428719	2021338412	2021428719	2021365131	2021324971	2021320651
<b><u>F23G 7 /-</u></b>	<b><u>G01G 17 /-</u></b>	<b><u>G02B 6 /-</u></b>	<b><u>G06K 19 /-</u></b>	2021345283	2021324705
2021356482	2021338412	2021325934	2021321929	<b><u>G06V 10 /-</u></b>	2021337236
<b><u>F25D 21 /-</u></b>	<b><u>G01J 1 /-</u></b>	2021337140	<b><u>G06K 7 /-</u></b>	2021240231	<b><u>G16H 50 /-</u></b>
2021343996	2021360283	2021428719	2021319948	2021240232	2020467852
<b><u>F25D 23 /-</u></b>	<b><u>G01M 11 /-</u></b>	<b><u>G02C 7 /-</u></b>	<b><u>G06N 10 /-</u></b>	2021240274	2021332455
2021344360	2021337140	2020467829	2021378062	<b><u>G06V 20 /-</u></b>	<b><u>H01B 17 /-</u></b>
<b><u>F25D 25 /-</u></b>	<b><u>G01M 5 /-</u></b>	<b><u>G02F 1 /-</u></b>	2021380806	2020469132	2021334404
2021327809	2021401870	2021368677	2021383972	2021240232	<b><u>H01F 1 /-</u></b>
2021327811		2021368779	<b><u>G06N 20 /-</u></b>	2021330784	2021343413
<b><u>F26B 3 /-</u></b>	<b><u>G01N 1 /-</u></b>	<b><u>G03B 15 /-</u></b>	2021380806	<b><u>G06V 30 /-</u></b>	<b><u>H01F 29 /-</u></b>
2021335846	2021356901	2021326433	<b><u>G06N 3 /-</u></b>	2021342943	2021322960
<b><u>F28C 1 /-</u></b>	<b><u>G01N 21 /-</u></b>	<b><u>G03B 17 /-</u></b>	2021353095	2021343666	<b><u>H01H 33 /-</u></b>
2021322219	2021342726	2021326433	<b><u>G06N 5 /-</u></b>	2021319948	2021337121
<b><u>F41A 17 /-</u></b>	<b><u>G01N 29 /-</u></b>	<b><u>G05B 23 /-</u></b>	<b><u>G06Q 10 /-</u></b>	<b><u>G07C 9 /-</u></b>	<b><u>H01H 9 /-</u></b>
2021350391	2021334188	2021322594	2021337857	2021337857	2021337121
2021366077	2021342726	2021344543	<b><u>G07F 13 /-</u></b>	<b><u>G07F 17 /-</u></b>	<b><u>H01J 49 /-</u></b>
<b><u>F41A 33 /-</u></b>	<b><u>G01N 31 /-</u></b>	<b><u>G05D 1 /-</u></b>	<b><u>G06Q 30 /-</u></b>	2021240270	2021334849
2021350391	2021356901	2021317383	2021358762	2021240274	<b><u>H01L 21 /-</u></b>
<b><u>F41G 3 /-</u></b>	<b><u>G01N 33 /-</u></b>	2022244599	2021382325	<b><u>G08C 17 /-</u></b>	2021322823
2021366077	2021320870	<b><u>G05F 1 /-</u></b>	2021337857	2021349841	<b><u>H01L 23 /-</u></b>
<b><u>F41G 5 /-</u></b>	2021322320	2021322960	2021353095	<b><u>G08G 1 /-</u></b>	2020467488
2021366077	2021325945	<b><u>G06F 1 /-</u></b>	<b><u>G06Q 40 /-</u></b>	2021329202	<b><u>H01L 29 /-</u></b>
<b><u>G01B 11 /-</u></b>	2021334042	2021326433	<b><u>G06Q 50 /-</u></b>	2021329638	2021459219
2021337140	2021336432	<b><u>G06F 11 /-</u></b>	2021322247	2022244599	<b><u>H01L 31 /-</u></b>
<b><u>G01B 15 /-</u></b>	2021339956	2021240199	2021335608	<b><u>G09B 19 /-</u></b>	2021322823
2021329657	2021356901	<b><u>G06F 16 /-</u></b>	2021336432	2021350391	<b><u>H01M 10 /-</u></b>
<b><u>G01C 15 /-</u></b>	<b><u>G01R 31 /-</u></b>	2021240183	2021337236	<b><u>G09B 9 /-</u></b>	2021324445
2020469132	2021334404	2021319948	2021382325	2021350391	<b><u>H01M 4 /-</u></b>
<b><u>G01C 21 /-</u></b>	<b><u>G01R 33 /-</u></b>	<b><u>G06F 17 /-</u></b>	2021403968	<b><u>G09F 3 /-</u></b>	2021353752
2020469132	2021339833	2020469132	<b><u>G06T 11 /-</u></b>	<b><u>G09G 3 /-</u></b>	<b><u>H01M 50 /-</u></b>
2020469132	<b><u>G01S 11 /-</u></b>	<b><u>G06F 21 /-</u></b>	2021365131	2021325959	2021324445
	2021329657	2021340639	<b><u>G06T 15 /-</u></b>	2021368677	2022229612
	<b><u>G01S 13 /-</u></b>	2021353095	2021330784	2021368779	
	2021329657		<b><u>G06T 17 /-</u></b>	2021371034	
			2021330784		

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<b><u>H01M 8 /-</u></b>	<b><u>H04B 5 /-</u></b>	<b><u>H04W 76 /-</u></b>
2021323367 2021336655	2021339045	2021320048 2022207565
<b><u>H01Q 1 /-</u></b>	<b><u>H04B 7 /-</u></b>	<b><u>H04W 84 /-</u></b>
2020467488	2020468135 2020469703 2021319441	2021418658 2021444140
<b><u>H01Q 21 /-</u></b>	2021322816 2021332979 2021366260	<b><u>H04W 88 /-</u></b>
2020467488		2021444140
<b><u>H01R 4 /-</u></b>	<b><u>H04L 67 /-</u></b>	<b><u>H05B 6 /-</u></b>
2021334404	2022316517	2021359666
<b><u>H01S 3 /-</u></b>	<b><u>H04L 9 /-</u></b>	<b><u>H05K 5 /-</u></b>
2021319376	2022312942	2021329438
<b><u>H01S 5 /-</u></b>	<b><u>H04M 1 /-</u></b>	
2021319376	2021322247	
<b><u>H02G 11 /-</u></b>	<b><u>H04N 1 /-</u></b>	
2021319851	2021326433 2021349199	
<b><u>H02G 3 /-</u></b>	<b><u>H04N 13 /-</u></b>	
2021319851 2021334404	2021330784	
<b><u>H02J 50 /-</u></b>	<b><u>H04N 7 /-</u></b>	
2021336223	2021336524	
<b><u>H02J 7 /-</u></b>	<b><u>H04W 16 /-</u></b>	
2021354931	2022325173	
<b><u>H02K 1 /-</u></b>	<b><u>H04W 24 /-</u></b>	
2020467017 2020469336 2021427231	2021338321	
<b><u>H02K 21 /-</u></b>	<b><u>H04W 28 /-</u></b>	
2021427231	2021404523	
<b><u>H02M 5 /-</u></b>	<b><u>H04W 4 /-</u></b>	
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2021322960	2021320048	
<b><u>H02S 40 /-</u></b>	<b><u>H04W 52 /-</u></b>	
2021459219	2021320048 2021323058 2021444140	
<b><u>H03F 3 /-</u></b>	<b><u>H04W 64 /-</u></b>	
2021360283	2021320048	
<b><u>H03K 7 /-</u></b>	<b><u>H04W 72 /-</u></b>	
2021359666	2021240199 2021332979 2021418658	
<b><u>H04B 17 /-</u></b>		
2021323058		

Applications Accepted

Name Index

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 (51) Int. Cl.  
*B60B 35/10* ( 2006.01 )  
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 (43) 14.12.2017  
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 (54) A pipe wear monitoring system and method of use thereof  
 (51) Int. Cl.  
*G01B 7/02* ( 2006.01 )  
*F16L 57/06* ( 2006.01 )  
*F17D 5/02* ( 2006.01 )  
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 (21) 2021200906 (22) 12.02.2021  
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 (51) Int. Cl.  
*C07K 14/71* ( 2006.01 )  
*A61K 38/18* ( 2006.01 )  
*A61K 39/395* ( 2006.01 )  
*A61P 3/08* ( 2006.01 )  
*A61P 7/06* ( 2006.01 )  
*A61P 9/00* ( 2006.01 )  
*A61P 13/12* ( 2006.01 )  
*A61P 21/00* ( 2006.01 )  
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 (54) Double edged blade grip assembly  
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*A61B 17/3209* ( 2006.01 )  
*A61B 17/322* ( 2006.01 )  
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 (72) Wonderley, Jeffrey W.  
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 (51) Int. Cl.  
*H04B 7/185* ( 2006.01 )  
*H03D 7/00* ( 2006.01 )  
 (87) WO2021/229023  
 (31) 20174257.4 (32) 12.05.20 (33) EP  
 20179364.3 10.06.20 EP  
 (43) 18.11.2021  
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 (54) Method for estimating collision between at least one piece of space debris and a satellite  
 (51) Int. Cl.  
*B64G 1/24* ( 2006.01 )  
*B64G 1/56* ( 2006.01 )  
*B64G 1/66* ( 2006.01 )  
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 (31) 2005477 (32) 25.05.20 (33) FR  
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 (11) AU-B-2021302784  
 (21) 2021302784 (22) 28.06.2021  
 (54) Method for orbit control and desaturation of a satellite by means of articulated arms supporting propulsion units  
 (51) Int. Cl.  
*B64G 1/24* ( 2006.01 )  
*B64G 1/26* ( 2006.01 )  
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*A61K 39/39* ( 2006.01 )  
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*B29C 48/285* ( 2019.01 )  
*B29C 48/435* ( 2019.01 )  
*B29C 48/455* ( 2019.01 )  
*B29C 48/76* ( 2019.01 )  
*B29C 48/92* ( 2019.01 )  
*B29D 99/00* ( 2010.01 )  
*B29K 67/00* ( 2006.01 )  
*B29K 105/00* ( 2006.01 )  
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*A01M 7/00* ( 2006.01 )  
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*G06N 10/00* ( 2019.01 )  
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<b>(31)</b> 1907749.4	<b>(32)</b> 31.05.19	<b>(33)</b> GB		<b>(62)</b> 2019216685
<b>(43)</b> 03.12.2020	62/352,291	20.06.16	US	<b>(72)</b> MORLEY, Dustin; GRAY, Gary; OLMS-
<b>(44)</b> 06.04.2023	1615335.5	09.09.16	GB	TED, Richard Ty
<b>(72)</b> DUSSOL, Jean-Maurice; CLOS, Mi-	1621782.0	20.12.16	GB	<b>(74)</b> Spruson & Ferguson
chael	<b>(43)</b> 28.12.2017			
<b>(74)</b> Griffith Hack	<b>(44)</b> 06.04.2023			
	<b>(72)</b> Campbell, Jamie; Sandy, Nikole; Van			
	Krinks, Cassandra; Arkininstall, Stephen			<b>(71)</b> LG Electronics Inc.
	John; Germaschewski, Volker; Kirby,			<b>(11)</b> AU-B-2018281237
	Ian; Kosmac, Miha; Gallagher, Thomas;			<b>(21)</b> 2018281237
	Deantonio, Cecilia; Gillies, Stephen			<b>(22)</b> 05.06.2018
	Douglas			<b>(54)</b> Motor driving apparatus
	<b>(74)</b> Griffith Hack			<b>(51)</b> Int. Cl.
				<b>H02P 21/00</b> ( 2016.01 )
				<b>H02P 27/08</b> ( 2006.01 )
<b>(71)</b> Kuhne Anlagenbau GmbH				<b>(87)</b> WO2018/226025
<b>(11)</b> AU-B-2020269282				<b>(31)</b> 10-2017-0104384
<b>(21)</b> 2020269282	<b>(22)</b> 30.04.2020			<b>(32)</b> 17.08.17
<b>(54)</b> Method for producing a multi-layer com-				<b>(33)</b> KR
posite film, multi-layer composite film				10-2017-0070945
and use thereof				07.06.17
				<b>(43)</b> 13.12.2018
<b>(51)</b> Int. Cl.				<b>(44)</b> 06.04.2023
<b>B32B 27/08</b> ( 2006.01 )				<b>(72)</b> KIM, Kwang Sik; LEE, Chungill; CHO,
<b>B29C 48/00</b> ( 2019.01 )				Seokhee
<b>B29C 48/21</b> ( 2019.01 )				<b>(74)</b> Dentons Patent Attorneys Australasia
<b>B29C 55/12</b> ( 2006.01 )				Limited
<b>B32B 1/08</b> ( 2006.01 )				
<b>B32B 7/027</b> ( 2019.01 )				<b>(71)</b> LG Electronics Inc.
<b>B32B 7/12</b> ( 2006.01 )				<b>(11)</b> AU-B-2019352421
<b>B32B 27/30</b> ( 2006.01 )				<b>(21)</b> 2019352421
<b>B32B 27/32</b> ( 2006.01 )				<b>(22)</b> 01.10.2019
<b>B32B 27/34</b> ( 2006.01 )				<b>(54)</b> Refrigerator
<b>B32B 27/36</b> ( 2006.01 )				<b>(51)</b> Int. Cl.
<b>B65D 37/00</b> ( 2006.01 )				<b>F25D 11/00</b> ( 2006.01 )
<b>B65D 65/40</b> ( 2006.01 )				<b>F25C 1/18</b> ( 2006.01 )
<b>C08L 27/08</b> ( 2006.01 )				<b>F25C 1/24</b> ( 2018.01 )
<b>(87)</b> WO2020/225137				<b>F25C 5/02</b> ( 2006.01 )
<b>(31)</b> 10 2019 111 440.3	<b>(32)</b> 03.05.19	<b>(33)</b> DE		<b>F25D 25/02</b> ( 2006.01 )
<b>(43)</b> 12.11.2020				<b>F25D 29/00</b> ( 2006.01 )
<b>(44)</b> 06.04.2023				<b>(87)</b> WO2020/071746
<b>(72)</b> SCHIFFMANN, Jürgen Michael				<b>(31)</b> 10-2018-0117819
<b>(74)</b> Griffith Hack				<b>(32)</b> 02.10.18
				<b>(33)</b> KR
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				10-2018-0117785
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				10-2018-0142117
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				10-2019-0081701
				06.07.19
				<b>(43)</b> 09.04.2020
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				<b>(72)</b> LEE, Donghoon; LEE, Woogyong;
				YEOM, Seungseob; LEE, Donghoon;
				BAE, Yongjun; SON, Sunggyun; PARK,
				Chongyoung
				<b>(74)</b> Dentons Patent Attorneys Australasia
				Limited
<b>(71)</b> Kyanos Biotechnologies				<b>(71)</b> LG Electronics Inc.
<b>(11)</b> AU-B-2019340582				<b>(11)</b> AU-B-2019354475
<b>(21)</b> 2019340582	<b>(22)</b> 12.09.2019			<b>(21)</b> 2019354475
<b>(54)</b> Method for cultivating a microorganism				<b>(22)</b> 01.10.2019
of interest and associated facility				<b>(54)</b> Refrigerator
				<b>(51)</b> Int. Cl.
<b>(51)</b> Int. Cl.				<b>F25D 11/00</b> ( 2006.01 )
<b>C12N 1/06</b> ( 2006.01 )				<b>F25C 1/18</b> ( 2006.01 )
<b>(87)</b> WO2020/053362				<b>F25C 1/24</b> ( 2018.01 )
<b>(31)</b> 1858285	<b>(32)</b> 14.09.18	<b>(33)</b> FR		<b>F25C 5/02</b> ( 2006.01 )
<b>(43)</b> 19.03.2020				<b>F25D 25/02</b> ( 2006.01 )
<b>(44)</b> 06.04.2023				<b>F25D 29/00</b> ( 2006.01 )
<b>(72)</b> HOFFMANN, Pierre-Alain; GLEYSSES,				<b>(87)</b> WO2020/071747
Evelyne				<b>(31)</b> 10-2018-0117819
<b>(74)</b> Griffith Hack				<b>(32)</b> 02.10.18
				<b>(33)</b> KR
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				<b>(72)</b> LEE, Donghoon; LEE, Woogyong;
				YEOM, Seungseob; LEE, Donghoon;
				BAE, Yongjun; SON, Sunggyun; PARK,
				Chongyoung
				<b>(74)</b> Dentons Patent Attorneys Australasia
				Limited
<b>(71)</b> Kymab Limited				<b>(71)</b> LG Electronics Inc.
<b>(11)</b> AU-B-2017281830				<b>(11)</b> AU-B-2019354475
<b>(21)</b> 2017281830	<b>(22)</b> 20.06.2017			<b>(21)</b> 2019354475
<b>(54)</b> Anti-PD-L1 antibodies				<b>(22)</b> 01.10.2019
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<b>(51)</b> Int. Cl.				<b>(51)</b> Int. Cl.
<b>C07K 16/28</b> ( 2006.01 )				<b>F25D 11/00</b> ( 2006.01 )
<b>A61K 38/20</b> ( 2006.01 )				<b>F25C 1/18</b> ( 2006.01 )
<b>A61K 39/395</b> ( 2006.01 )				<b>F25C 1/24</b> ( 2018.01 )
<b>C07K 14/55</b> ( 2006.01 )				<b>F25C 5/02</b> ( 2006.01 )
<b>(87)</b> WO2017/220990				<b>F25D 25/02</b> ( 2006.01 )
<b>(31)</b> 1703071.9	<b>(32)</b> 24.02.17	<b>(33)</b> GB		<b>F25D 29/00</b> ( 2006.01 )
15/480,525	06.04.17	US		<b>(87)</b> WO2020/071747
				<b>(31)</b> 10-2018-0117819
				<b>(32)</b> 02.10.18
				<b>(33)</b> KR
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				10-2018-0117822
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				10-2018-0117785
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				10-2018-0142117
				16.11.18
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				<b>(43)</b> 09.04.2020
				<b>(44)</b> 06.04.2023
				<b>(72)</b> LEE, Donghoon; LEE, Woogyong;
				YEOM, Seungseob; LEE, Donghoon;
				BAE, Yongjun; SON, Sunggyun; PARK,
				Chongyoung
				<b>(74)</b> Dentons Patent Attorneys Australasia
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<b>(21)</b> 2017308705				<b>(11)</b> AU-B-2021200326
				<b>(21)</b> 2021200326
				<b>(22)</b> 19.01.2021
				<b>(54)</b> Laser methods and systems for ad-
				dresssing conditions of the lens

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 10-2018-0117822 02.10.18 KR  
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 10-2019-0081700 06.07.19 KR  
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**(43)** 09.04.2020  
**(44)** 06.04.2023  
**(72)** LEE, Donghoon; LEE, Woogyong;  
 SON, Sunggyun; LEE, Donghoon;  
 YEOM, Seungseob; BAE, Yongjun;  
 PARK, Chongyoung  
**(74)** Dentons Patent Attorneys Australasia  
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**(11)** AU-B-2019354482  
**(21)** 2019354482 **(22)** 01.10.2019  
**(54)** Refrigerator and control method there-  
 for  
**(51)** Int. Cl.  
*F25D 11/00* ( 2006.01 )  
*F25C 1/18* ( 2006.01 )  
*F25C 1/24* ( 2018.01 )  
*F25C 5/08* ( 2006.01 )  
*F25D 25/02* ( 2006.01 )  
*F25D 29/00* ( 2006.01 )

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**(31)** 10-2018-0117819 **(32)** 02.10.18 **(33)** KR  
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 10-2019-0081714 06.07.19 KR  
**(43)** 09.04.2020  
**(44)** 06.04.2023  
**(72)** LEE, Donghoon; LEE, Woogyong;  
 YEOM, Seungseob; LEE, Donghoon;  
 BAE, Yongjun; SON, Sunggyun; PARK,  
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**(11)** AU-B-2019379045  
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**(54)** Refrigerator  
**(51)** Int. Cl.  
*F25C 1/24* ( 2018.01 )  
*F25C 1/18* ( 2006.01 )  
*F25C 1/25* ( 2018.01 )  
*F25C 5/08* ( 2006.01 )  
*F25D 23/02* ( 2006.01 )  
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**(31)** 10-2018-0142079 **(32)** 16.11.18 **(33)** KR  
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**(74)** FB Rice Pty Ltd

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**(21)** 2021201232 **(22)** 25.02.2021  
**(54)** Washing machine  
**(51)** Int. Cl.  
*D06F 39/08* ( 2006.01 )

*D06F 33/36* ( 2020.01 )  
*D06F 37/06* ( 2006.01 )  
*D06F 37/22* ( 2006.01 )  
*D06F 37/30* ( 2020.01 )  
*D06F 39/00* ( 2020.01 )  
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**(21)** 2021204016 **(22)** 17.06.2021  
**(54)** REFRIGERATOR  
**(51)** Int. Cl.  
*F25D 23/02* ( 2006.01 )  
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**(44)** 06.04.2023  
**(72)** PARK, Myeongseong; KANG, Daekil;  
 KWON, Ohchul; JUNG, Sangho; LEE,  
 Hyuncheol  
**(74)** Dentons Patent Attorneys Australasia  
 Limited

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**(21)** 2021229242 **(22)** 10.09.2021  
**(54)** Laundry treating apparatus  
**(51)** Int. Cl.  
*D06F 39/04* ( 2006.01 )  
**(43)** 07.10.2021  
**(44)** 06.04.2023  
**(62)** 2019312559  
**(72)** KIM, Beomjun; HONG, Sangwook; KIM,  
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**(54)** REFRIGERATOR  
**(51)** Int. Cl.  
*F25D 23/02* ( 2006.01 )  
*H05K 5/02* ( 2006.01 )  
**(31)** 10-2020-0046626 **(32)** 17.04.20 **(33)** KR  
**(43)** 04.11.2021  
**(44)** 06.04.2023  
**(72)** KANG, Chanuk; CHEON, Sanghyun  
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**(54)** REFRIGERATOR  
**(51)** Int. Cl.  
*F25D 23/02* ( 2006.01 )  
*H05K 5/02* ( 2006.01 )  
**(31)** 10-2020-0046631 **(32)** 17.04.20 **(33)** KR  
**(43)** 04.11.2021

**(44)** 06.04.2023  
**(72)** KANG, Chanuk; WOO, Dongrim  
**(74)** Dentons Patent Attorneys Australasia  
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**(11)** AU-B-2021203600  
**(21)** 2021203600 **(22)** 02.06.2021  
**(54)** MOTOR AND MANUFACTURING  
 METHOD OF THE SAME  
**(51)** Int. Cl.  
*F04D 29/056* ( 2006.01 )  
*F16C 19/54* ( 2006.01 )  
*F16C 33/10* ( 2006.01 )  
**(43)** 01.07.2021  
**(44)** 06.04.2023  
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 Changlae  
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 for extraction of precious, base and rare  
 elements  
**(51)** Int. Cl.  
*C22B 11/06* ( 2006.01 )  
*C22B 3/10* ( 2006.01 )  
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**(72)** LIDDELL, Keith Stuart; ADAMS, Mi-  
 chael David  
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 Optics  
**(11)** AU-B-2018219865  
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**(54)** Laser diode reticule illumination  
**(51)** Int. Cl.  
*F41G 1/32* ( 2006.01 )  
*F41G 1/34* ( 2006.01 )  
*G02B 27/34* ( 2006.01 )  
**(87)** WO2018/148384  
**(31)** 62/456,858 **(32)** 09.02.17 **(33)** US  
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**(74)** Madderns Pty Ltd

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**(11)** AU-B-2020270482  
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**(54)** METHODS AND SYSTEMS FOR  
 PROVIDING OR MAINTAINING FLUID  
 FLOW THROUGH BODY PASSAGES  
**(51)** Int. Cl.  
*A61F 2/82* ( 2006.01 )

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 (54) Dynamic communications routing to disparate endpoints  
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 H04L 51/046 ( 2022.01 )  
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 C09K 8/50 ( 2006.01 )  
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 (51) Int. Cl.  
 A23C 3/04 ( 2006.01 )  
 F28D 7/10 ( 2006.01 )  
 (87) WO2020/240287  
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 E04F 10/10 ( 2006.01 )  
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 (74) P.L. Berry & Associates Ltd

(71) Medical Corporation Ichikawa Clinic  
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 (54) Method for preparing cell extract component or composition exhibiting cytosidal activity  
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 C12P 1/00 ( 2006.01 )  
 A61K 35/13 ( 2015.01 )  
 A61P 35/00 ( 2006.01 )  
 C12N 5/09 ( 2010.01 )  
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 (54) METHOD OF PURIFYING ALBUMIN-FUSION PROTEINS  
 (51) Int. Cl.  
 C07K 14/765 ( 2006.01 )  
 C07K 1/14 ( 2006.01 )  
 C07K 1/16 ( 2006.01 )  
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 F16G 11/14 ( 2006.01 )  
 B60D 1/18 ( 2006.01 )  
 B63B 21/04 ( 2006.01 )  
 F16G 11/12 ( 2006.01 )  
 F16G 15/06 ( 2006.01 )  
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 B07B 1/46 ( 2006.01 )  
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 (74) IP Gateway Patent and Trade Mark Attorneys Pty Ltd

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 (54) Determining a vapor pressure of a fluid in a meter assembly  
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 G01F 1/84 ( 2006.01 )  
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 (74) Phillips Ormonde Fitzpatrick

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 (54) Method of determining total prove time  
 (51) Int. Cl.  
 G01F 25/00 ( 2006.01 )  
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 (87) WO2021/006934  
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*F02P 13/00* ( 2006.01 )

*H01T 13/24* ( 2006.01 )

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 F03D 1/02 ( 2006.01 )  
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**(51)** Int. Cl.

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**C22C 38/22** ( 2006.01 )  
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**C21D 8/00** ( 2006.01 )  
**C21D 10/00** ( 2006.01 )  
**C22C 38/24** ( 2006.01 )  
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 building database for harvesting-dilution  
 tasks using aerial drones  
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**G01V 3/00** ( 2006.01 )  
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**(54)** Apparatus, system and method for per-  
 forming automated finishing operations  
 on a workpiece  
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**B23P 9/00** ( 2006.01 )  
**B41F 23/00** ( 2006.01 )  
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**(54)** Hybrid tool pins  
**(51)** Int. Cl.  
**F16B 19/02** ( 2006.01 )  
**B25B 27/00** ( 2006.01 )  
**B29C 45/00** ( 2006.01 )  
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**(51)** Int. Cl.  
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**(21)** 2021286312 ( **(22)** 15.12.2021  
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 four-wheel drive vehicle  
**(51)** Int. Cl.  
**B60K 23/08** ( 2006.01 )  
**B60K 17/02** ( 2006.01 )  
**B60K 23/06** ( 2006.01 )  
**F16H 48/16** ( 2006.01 )  
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 Ithaca College  
**(11)** AU-B-2021203726  
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**(54)** MEDIUM CHAIN FATTY ACID ESTERS  
 OF BETA-HYDROXYBUTYRATE AND  
 BUTANEDIOL AND COMPOSITIONS  
 AND METHODS FOR USING SAME  
**(51)** Int. Cl.  
**C07C 69/34** ( 2006.01 )  
**G02B 1/08** ( 2006.01 )  
**G02B 5/30** ( 2006.01 )  
**G02F 1/1335** ( 2006.01 )  
**G02F 1/13363** ( 2006.01 )  
**G02F 1/1368** ( 2006.01 )  
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**(54)** Semiconductor device, printed circuit  
 board (PCB), and method of interfac-  
 ing control pin (gate pin) of a power  
 semiconductor device (MOSFET) to a  
 printed circuit board (PCB) in a battery  
 management system (BMS)  
**(51)** Int. Cl.  
**H01R 4/2406** ( 2018.01 )

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**(43)** 03.06.2021  
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**Theraclone Sciences, Inc. see International  
 AIDS Vaccine Initiative**  
**(21)** 2020210242

**The Regents of the University of California  
 see Spinnaker Biosciences, Inc.**  
**(21)** 2017250300

**The Regents of the University of California  
 see The J. David Gladstone Institutes**  
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**The Scripps Research Institute see Inter-  
 national AIDS Vaccine Initiative**  
**(21)** 2020210242

**(71)** The Trustees of Columbia University in  
 the City of New York  
**(11)** AU-B-2021203801  
**(21)** 2021203801 **(22)** 09.06.2021  
**(54)** ALDOSE REDUCTASE INHIBITORS  
 AND METHODS OF USE THEREOF  
**(51)** Int. Cl.  
**C07D 235/06** ( 2006.01 )  
**A61K 31/415** ( 2006.01 )  
**A61K 31/4162** ( 2006.01 )  
**A61K 31/4184** ( 2006.01 )  
**C07D 417/06** ( 2006.01 )  
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**(21)** 2020280117 **(22)** 20.05.2020  
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**(51)** Int. Cl.  
**A61M 5/315** ( 2006.01 )  
**A61J 7/00** ( 2006.01 )  
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 Philip; SCHNEIDER, Carl; CHEN,  
 Timothy; TREVENA, Lyndal; PLEASS,  
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**(74)** FPA Patent Attorneys Pty Ltd

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**(11)** AU-B-2019339095  
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**(54)** Pneumatic tire  
**(51)** Int. Cl.  
**B60C 13/00** ( 2006.01 )  
**B60C 11/01** ( 2006.01 )  
**B60C 11/03** ( 2006.01 )  
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 Noboru  
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**(54)** Pneumatic tire  
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**B60C 13/00** ( 2006.01 )  
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**B60C 11/01** ( 2006.01 )  
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**(74)** FB Rice Pty Ltd

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**A42B 3/30** ( 2006.01 )  
**F21S 9/02** ( 2006.01 )  
**F21V 23/04** ( 2006.01 )  
**F21V 33/00** ( 2006.01 )  
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**G06Q 20/22** ( 2012.01 )  
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**G06Q 20/42** ( 2012.01 )  
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 Tim; CHADWICK, Sam  
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**A61K 9/127** ( 2006.01 )  
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 vehicle  
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 Vallejo, Carlos; Cillessen, Sean; Bench,  
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**G06F 18/00** ( 2023.01 )  
**G06V 10/20** ( 2022.01 )  
**G06V 30/16** ( 2022.01 )  
**H04N 7/00** ( 2011.01 )  
**H04N 7/18** ( 2006.01 )  
**H04N 17/00** ( 2006.01 )  
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**A23L 33/13** ( 2016.01 )  
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**E21B 7/02** ( 2006.01 )  
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**F16L 55/1645** ( 2006.01 )  
**F16L 55/11** ( 2006.01 )  
**F16L 55/128** ( 2006.01 )  
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**F16L 55/179** ( 2006.01 )  
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**A61K 51/04** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )

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**C07K 5/062** ( 2006.01 )  
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**F03D 1/06** ( 2006.01 )  
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**A61K 31/443** ( 2006.01 )

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**A61P 11/12** ( 2006.01 )  
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- 
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**(11)** AU-B-2021211993  
**(21)** 2021211993 **(22)** 03.08.2021  
**(54)** MODULATOR OF CYSTIC FIBROSIS  
 TRANSMEMBRANE CONDUCTANCE  
 REGULATORY, PHARMACEUTIC-  
 AL COMPOSITIONS, METHODS OF  
 TREATMENT, AND PROCESS FOR  
 MAKING THE MODULATOR  
**(51)** Int. Cl.  
**C07D 401/14** ( 2006.01 )  
**A61K 31/455** ( 2006.01 )  
**A61P 11/00** ( 2006.01 )  
**C07D 231/20** ( 2006.01 )  
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 CIO, Timothy; ANDERSON, Corey;  
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 LAND, Thomas; FERRIS, Lori Ann;  
 GROOTENHUIS, Peter Diederik  
 Jan; GROSS, Raymond Stanley;  
 GULEVICH, Anton; HADIDA RUAH,  
 Sara Sabina; HSIA, Clara Kuang-Ju;  
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**C07K 14/415** ( 2006.01 )  
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**H04N 19/33** ( 2014.01 )  
**H04N 19/91** ( 2014.01 )  
**H04N 19/93** ( 2014.01 )  
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**(31)** 1812708.4 **(32)** 03.08.18 **(33)** GB  
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**B60L 15/20** ( 2006.01 )  
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 and associated systems and methods  
**(51)** Int. Cl.  
**A61F 2/24** ( 2006.01 )  
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 HILTON, Andrew P.; BAYKOVA, Olga;  
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**C12M 1/00** ( 2006.01 )  
**C12N 5/00** ( 2006.01 )  
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**C12Q 1/00** ( 2006.01 )  
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**F16M 13/02** ( 2006.01 )  
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**(54)** Seal  
**(51)** Int. Cl.  
**F16J 15/18** ( 2006.01 )  
**F04D 29/12** ( 2006.01 )  
**F16J 15/3204** ( 2016.01 )  
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*E02D 29/045* ( 2006.01 )  
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 (51) Int. Cl.  
*E06C 1/12* ( 2006.01 )  
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 TYPE TRIPLE VALVE  
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*B60T 13/66* ( 2006.01 )  
*B60T 17/04* ( 2006.01 )  
*F16K 31/40* ( 2006.01 )  
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 Ltd.  
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(71) Xunteng (GUANGDONG) Technology  
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 and nano-bubble generator using same  
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 (74) Davies Collison Cave Pty Ltd

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 (11) AU-B-2022200483  
 (21) 2022200483 (22) 26.01.2022  
 (54) METHOD FOR RECOVERING VALU-  
 ABLE METAL FROM HIGH-ZINC AND  
 HIGH-LEAD SMELTING SLAG  
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*C22B 7/04* ( 2006.01 )  
*C21B 3/04* ( 2006.01 )  
*C21B 11/08* ( 2006.01 )  
*C22B 1/00* ( 2006.01 )  
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**C22B 1/24** ( 2006.01 )  
**C22B 1/243** ( 2006.01 )  
**C22B 5/00** ( 2006.01 )  
**C22B 5/18** ( 2006.01 )  
**C22B 13/00** ( 2006.01 )  
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- (71)** Yu Yee Engineering Pte Ltd  
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**(21)** 2020357475    **(22)** 29.09.2020  
**(54)** A cable trough system  
**(51)** Int. Cl.  
**H02G 9/06** ( 2006.01 )  
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**H02G 9/02** ( 2006.01 )  
**(87)** WO2021/066745  
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**(43)** 08.04.2021  
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**(72)** TOH, Thiam Seah Victor  
**(74)** A.P.T. Patent and Trade Mark Attorneys
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- (71)** Zhong Jing Wei Shi (Suzhou) Optical Technology Ltd; Nthalmic Holding Pty Ltd  
**(11)** AU-B-2021218773  
**(21)** 2021218773    **(22)** 06.02.2021  
**(54)** Apparatus and methods of ancillary spectacle kit solution for myopia management  
**(51)** Int. Cl.  
**G02C 7/08** ( 2006.01 )  
**(87)** WO2021/159168  
**(31)** 2020900413    **(32)** 14.02.20 **(33)** AU  
**(43)** 19.08.2021  
**(44)** 06.04.2023  
**(72)** BAKARAJU, Ravi Chandra  
**(74)** FPA Patent Attorneys Pty Ltd
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- (71)** ZTE Corporation  
**(11)** AU-B-2020279263  
**(21)** 2020279263    **(22)** 14.05.2020  
**(54)** Transmission configuration method and apparatus, communication node and communication device  
**(51)** Int. Cl.  
**H04B 7/185** ( 2006.01 )  
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**(31)** 201910413433.2    **(32)** 17.05.19 **(33)** CN  
**(43)** 26.11.2020  
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- (71)** Zucker, J.; Brades, J.  
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**(21)** 2017351985    **(22)** 30.10.2017

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<b>2016228279</b>	Metso Sweden AB	<b>2017344053</b>	Kaus Borealis Pty Ltd
<b>2016250451</b>	S.P.C.M. SA	<b>2017345384</b>	International Flavors & Fragrances Inc
<b>2016273835</b>	Ningbo Fujia Industrial Co., Ltd.	<b>2017346515</b>	Colebrook Bosson Saunders (Products) Limited
<b>2016304585</b>	Children's Medical Center Corporation; Massachusetts Institute of Technology	<b>2017348111</b>	Progenics Pharmaceuticals, Inc.
<b>2016340819</b>	Wake Forest University Health Sciences	<b>2017351985</b>	Zucker, J.; Brades, J.
<b>2016343887</b>	Sangamo Therapeutics, Inc.	<b>2017353698</b>	Transportation IP Holdings, LLC
<b>2016361350</b>	Sangamo Therapeutics, Inc.	<b>2017355386</b>	Duracell U.S. Operations, Inc.
<b>2016377701</b>	Memorial Sloan-Kettering Cancer Center	<b>2017356302</b>	AccuTec, Inc.
<b>2016380351</b>	Monsanto Technology LLC	<b>2017357327</b>	Beijing Protgen Ltd.
<b>2016409613</b>	100% Useful Pty. Ltd.	<b>2017359585</b>	Rentokil Initial 1927 plc
<b>2016413897</b>	Electrolux Appliances Aktiebolag	<b>2017359597</b>	Norton (Waterford) Limited
<b>2016422146</b>	Vaz, G.	<b>2017360126</b>	Rentokil Initial 1927 plc
<b>2017201086</b>	ESS Engineering Services & Supplies Pty Limited	<b>2017373483</b>	DELTA BLOC International GmbH
<b>2017203290</b>	DGB THERAPEUTICS INC.	<b>2017378140</b>	Caterpillar Inc.
<b>2017205329</b>	University of Tennessee Research Foundation	<b>2017379067</b>	Johnson & Johnson Consumer Inc.
<b>2017208715</b>	Commonwealth Scientific and Industrial Research Organisation; Fisheries Research and Development Corporation	<b>2017380379</b>	Samsung Electronics Co., Ltd.
<b>2017228251</b>	Powercan Holding, LLC	<b>2017382322</b>	R.P. Scherer Technologies, LLC
<b>2017235955</b>	The Boeing Company	<b>2017383100</b>	NewSouth Innovations Pty Limited
<b>2017236050</b>	Wang, A.	<b>2017387972</b>	Ynsect
<b>2017250300</b>	Spinnaker Biosciences, Inc.; The Regents of the University of California; Massachusetts Institute of Technology	<b>2017391308</b>	Knox Associates, Inc. DBA Knox Company
<b>2017254431</b>	Stryker Corporation	<b>2017395165</b>	Alcon Inc.
<b>2017257598</b>	Applied Medical Resources Corporation	<b>2017401885</b>	Kimberly-Clark Worldwide, Inc.
<b>2017260425</b>	Galera Labs, LLC	<b>2017413682</b>	Halliburton Energy Services, Inc.
<b>2017261363</b>	MURTHY, S.; GIRALDO, E.; GOEL, R.; WETT, B.; D.C Water & Sewer Authority	<b>2017426877</b>	Razer (Asia-Pacific) Pte. Ltd.
<b>2017261515</b>	The Boeing Company	<b>2017427609</b>	BAE Systems Information and Electronic Systems Integration Inc.
<b>2017261797</b>	Alert Innovation Inc.	<b>2017430821</b>	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
<b>2017265148</b>	TerraPower, LLC	<b>2017434661</b>	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
<b>2017269730</b>	Nuovo Pignone Tecnologie SRL	<b>2017436113</b>	GCL International Sarl
<b>2017272239</b>	Poseidon Nickel Limited	<b>2017437863</b>	Huawei Technologies Co., Ltd.
<b>2017274065</b>	Vehicle Development Corporation Pty Ltd	<b>2017442107</b>	Halliburton Energy Services, Inc.
<b>2017276171</b>	PGS Geophysical AS	<b>2017444147</b>	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
<b>2017277757</b>	Octapharma AG	<b>2018200521</b>	McKechnie, L.
<b>2017279781</b>	K2M, Inc.	<b>2018201885</b>	Whirlpool Corporation
<b>2017280100</b>	Dawson, L.	<b>2018204491</b>	Lifezone Limited
<b>2017281497</b>	ProQR Therapeutics II B.V.	<b>2018207981</b>	Rabhi, V.
<b>2017281830</b>	Kymab Limited	<b>2018209401</b>	Alcon Inc.
<b>2017282030</b>	MTD Products Inc	<b>2018210835</b>	Becton Dickinson and Company Limited
<b>2017285425</b>	Georgia-Pacific Gypsum LLC	<b>2018211929</b>	Axxiom Manufacturing, Inc.
<b>2017287786</b>	Kongsberg Maritime AS	<b>2018212423</b>	EJOT AUSTRIA GmbH & Co KG
<b>2017289299</b>	Probalco BVBA	<b>2018212971</b>	Aladdin Manufacturing Corporation
<b>2017289300</b>	Probalco BVBA	<b>2018213406</b>	Global Physical Asset Management, Inc.
<b>2017290519</b>	Kyoto University; Nipro Corporation	<b>2018215520</b>	Alcon Inc.
<b>2017291422</b>	Applied Medical Resources Corporation	<b>2018217319</b>	Rohm and Haas Company
<b>2017301928</b>	Corium, LLC.	<b>2018218670</b>	Bob Service Srl
<b>2017302735</b>	National Oilwell Varco Denmark I/S	<b>2018219852</b>	Cryovac, LLC
<b>2017304110</b>	Guala Pack S.p.A.	<b>2018219865</b>	Lightforce USA, Inc., D/B/A/ Nightforce Optics
<b>2017307602</b>	JUUL Labs, Inc.	<b>2018221251</b>	Soliton, Inc.
<b>2017308489</b>	F. Smit Holding B.V.	<b>2018224346</b>	Deb IP Limited
<b>2017308705</b>	Baur, F.; Haser, F.J.; Lamello AG	<b>2018224736</b>	Philip Morris Products S.A.
<b>2017308825</b>	Hytorc Division Unex Corporation	<b>2018226112</b>	Philip Morris Products S.A.
<b>2017310041</b>	DSIGNTANK, S.L.	<b>2018226490</b>	NetScout Systems, Inc.
<b>2017314186</b>	Fisher & Paykel Healthcare Limited	<b>2018229685</b>	Aus Group Alliance Pty Ltd
<b>2017314221</b>	TEVEL AEROBOTICS TECHNOLOGIES LTD	<b>2018231010</b>	Evoqua Water Technologies LLC
<b>2017316505</b>	Dometic Sweden AB	<b>2018231044</b>	CinRx Pharma, LLC
<b>2017328469</b>	GEMA S.r.l.	<b>2018231232</b>	Piper Access, LLC.
<b>2017338922</b>	Voltu Motor, Inc.	<b>2018233960</b>	Societe des Produits Nestle S.A.
<b>2017339562</b>	Fresenius Kabi Deutschland GmbH	<b>2018234638</b>	Ancestry.com DNA, LLC
<b>2017339763</b>	Fontana Fasteners R.d. S.r.l.	<b>2018235056</b>	Technip France
<b>2017341065</b>	GlycoMimetics, Inc.	<b>2018249909</b>	Universal Achemetal Titanium, LLC
<b>2017341673</b>	Commonwealth Scientific and Industrial Research Organisation	<b>2018257600</b>	Hoeller Electrolyzer GmbH
<b>2017343635</b>	K2M, Inc.	<b>2018260818</b>	Westinghouse Air Brake Technologies Corporation
		<b>2018262068</b>	Sony Corporation
		<b>2018267244</b>	De La Rue International Limited

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2018270018	NYK Trading Corporation; Idemitsu Kosan Co., Ltd.; Nippon Yusen Kabushiki Kaisha	2019372250	Amicro Semiconductor Co., Ltd.
2018270943	Research Development Foundation	2019372600	Nippon Telegraph and Telephone Corporation
2018271198	Samsung Electronics Co., Ltd.	2019379045	LG Electronics Inc.
2018275781	Third Eye Design, Inc.	2019385688	Cambi Technology AS
2018276985	Huawei Digital Power Technologies Co., Ltd.	2019389903	Novocure GmbH
2018279646	Vertex Pharmaceuticals Incorporated	2019390215	Huawei Technologies Co., Ltd.
2018281237	LG Electronics Inc.	2019394227	Remegen Co., Ltd.
2018283967	Qualcomm Incorporated	2019397167	RMH Tech LLC
2018288437	Costruzioni Meccaniche Luigi Bandera S.p.A.	2019398314	Howmedica Osteonics Corp.
2018289545	L'Isolante K-Flex S.p.A.	2019402087	Eli Lilly and Company
2018298422	CureVac SE	2019409705	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
2018304469	Spogen Biotech Inc.	2019411398	Guangzhou Shiyuan Electronics Co., Ltd.; Guangzhou Shirui Electronics Co., Ltd.
2018319214	FRAMEABLE INC.	2019413799	Chairman, Defence Research and Development Organisation (DRDO)
2018320418	Sprint Bioscience AB	2019415474	Xunteng (GUANGDONG) Technology Co., Ltd.
2018322776	Akamis Bio Limited	2019416589	Wuhan LL Science and Technology Development Co., Ltd.
2018328202	Shaw Industries Group, Inc.	2019428668	Soler & Palau Research, S.L.
2018328233	Sato Holdings Kabushiki Kaisha	2019439324	Wen, Y.
2018330423	BlackThorn Therapeutics, Inc.	2019439454	Micro Motion, Inc.
2018332539	Thomson Reuters Enterprise Centre GmbH	2019447734	Telefonaktiebolaget LM Ericsson (Publ)
2018339076	XSB, Inc.	2019448791	National Institute of Biological Sciences, Beijing
2018344749	Medical Corporation Ichikawa Clinic	2019451511	Jilin Asymchem Laboratories Co., Ltd.
2018357926	Vilmorin & Cie; Limagrain Europe	2019452705	Jinan Rail Transit Group Co., Ltd; China Railway 18 Bureau Group Co., Ltd.
2018360586	Kimberly-Clark Worldwide, Inc.	2019457781	Nippon Telegraph and Telephone Corporation
2018360855	Calico Life Sciences LLC; AbbVie Inc.	2019462145	Sound Fun Corporation
2018365331	Hegenbergerspeculum ApS	2019467669	Southeast University
2018367378	Microsoft Technology Licensing LLC	2020203065	I-Mab Biopharma US Limited
2018372529	Tumi Contratistas Mineros SAC; BLATTNER, M.	2020203591	Nanobacterie
2018372645	MIR - MEDICAL INTERNATIONAL RESEARCH S.P.A.	2020204946	China Mobile Communication Co., Ltd Research Institute; China Mobile Communications Group Co., Ltd.
2018384100	Stoko Design Inc.	2020206970	Schreder S.A.
2018390423	Preload Cryogenics, LLC	2020207837	President and Fellows of Harvard College
2018392008	USA Industries, LLC	2020210242	International AIDS Vaccine Initiative; The Scripps Research Institute; Theraclone Sciences, Inc.
2018401855	Qualcomm Incorporated	2020210306	Solidvac Pty Ltd
2018444545	Integra LifeSciences Corporation	2020212251	Nuovo Pignone Tecnologie - S.r.l.
2018448862	Cleveland Range, LLC	2020213351	Oyster Point Pharma, Inc.
2019201723	ALSTOM Transport Technologies	2020220957	Novartis AG
2019203080	ALSTOM Transport Technologies	2020221953	Saint-Gobain Isover
2019213694	PI Industries Ltd.	2020222295	Novartis AG
2019217094	Korea Research Institute of Chemical Technology; Industry-Academic Cooperation Foundation, Yonsei University	2020222296	Novartis AG
2019222537	Qualcomm Incorporated	2020226863	Corcept Therapeutics Incorporated
2019222897	FTC Solar, Inc.	2020227736	Nextracker LLC
2019232209	CJ Cheiljedang Corporation	2020229117	Mitsubishi Power, Ltd.; Mitsubishi Heavy Industries Engineering, Ltd.
2019244030	Nippon Paper Industries Co., Ltd.	2020232743	Korea Institute of Machinery & Materials
2019246989	Sharp Kabushiki Kaisha; FG Innovation Company Limited	2020233516	Kim, E.B.
2019252569	Bayer Aktiengesellschaft	2020239680	Reve Architecture Limited
2019255515	Immvira Co., Limited	2020240873	Daikin Industries, Ltd.
2019262848	Breakthrough Performancetech, LLC	2020241055	Avation Medical, Inc.
2019269615	Recognition AnalytiX, Inc.	2020244433	The Flinders University of South Australia
2019280696	Nicolon Corporation D/B/A Teniccate Geosynthetics North America	2020255132	International Business Machines Corporation
2019289216	Heptares Therapeutics Limited	2020257096	Nevro Corp.
2019296308	Huawei Technologies Co., Ltd.	2020257580	Nicoventures Trading Limited
2019303720	Huawei Technologies Co., Ltd.	2020261941	Eli Lilly and Company
2019315657	Schreder S.A.	2020263491	W. L. Gore & Associates, Inc.
2019315758	V-Nova International Ltd	2020266058	Inventage lab Inc.
2019315764	BARATAM, P.	2020267346	Innovative Water Care, LLC
2019316654	Healthall Laboratory, Inc.	2020267498	Apple Inc.
2019320964	hydrograv GmbH	2020267743	Bio-Rad Laboratories, Inc.
2019330558	Holder Industries Limited	2020269265	Techtronic Cordless GP
2019335834	Angel Group Co., Ltd.	2020269282	Kuhne Anlagenbau GmbH
2019339095	The Yokohama Rubber Co., Ltd.	2020270482	Limflow GmbH
2019339359	The Yokohama Rubber Co., Ltd.	2020273149	Steris Inc.
2019340582	Kyanos Biotechnologies	2020277209	AMARIN PHARMACEUTICALS IRELAND LIMITED
2019352421	LG Electronics Inc.	2020277213	Nunhems B.V.
2019354475	LG Electronics Inc.	2020278116	International Business Machines Corporation
2019354482	LG Electronics Inc.	2020279263	ZTE Corporation
2019354911	CMR Surgical Limited		
2019355385	Fujikura Ltd.		
2019363230	Novartis AG		



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2020279857	Baker Hughes Oilfield Operations LLC	2021201003	Harpoon Therapeutics, Inc.
2020280117	The University of Sydney	2021201189	2C Holdings Pty Ltd
2020281854	Kraft Foods Schweiz Holding GmbH	2021201232	LG Electronics Inc.
2020283215	Yoo, Y.	2021201805	Telefonaktiebolaget LM Ericsson (publ)
2020283882	Howe & Howe Inc.	2021201816	Alcohol Monitoring Systems, Inc.
2020285590	Massey University	2021201824	Rare Element Resources Ltd
2020287847	Lyondellbasell Advanced Polymers Inc.	2021201918	Novartis AG
2020288027	Mitsubishi Power, Ltd.	2021201974	AWS Ocean Energy Limited
2020289727	City of Hope	2021201976	Illinois Tool Works Inc.
2020291917	PayPal, Inc.	2021202029	InfraBuild Wire Pty Limited
2020294209	Stryker Corporation	2021202056	Immatics Biotechnologies GmbH
2020294219	Cosmax NBT, Inc.; Cosmax NS, Inc.	2021202121	Smith & Nephew, Inc.; Smith & Nephew Orthopaedics AG; Smith & Nephew Asia Pacific Pte. Limited
2020294228	Oxford Nanopore Technologies plc	2021202128	Intuit Inc.
2020296050	Guangzhou Ocusun Ophthalmic Biotechnology Co., Ltd.	2021202145	ClearStream Technologies Limited
2020300841	Barrick Gold Corporation	2021202214	Xiamen Aquasu Electric Shower Co., Ltd.
2020304355	Bio-Rad Laboratories, Inc.	2021202277	IdentiFlight International, LLC
2020307144	QFE Holdings Pty. Ltd.	2021202353	LG ELECTRONICS INC.
2020309071	Ecolab USA Inc.	2021202356	LG ELECTRONICS INC.
2020309470	Micro Motion, Inc.	2021202427	Cavity Sliders Limited
2020310601	Weir Minerals Europe Limited	2021202533	Werner Co.
2020311175	Daikin Industries, Ltd.	2021202672	Delta Electronics (Shanghai) CO., LTD.
2020311602	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung E. V.	2021202745	Northrop Grumman Systems Corporation
2020314513	Chengdu Yefan Science and Technology Co., Ltd.	2021202844	Intuit Inc.
2020314553	Capital One Services, LLC	2021202884	Avellino Lab USA, Inc.
2020325127	Nippon Light Metal Company, Ltd.; National Institute of Advanced Industrial Science and Technology	2021203342	Nicoventures Trading Limited
2020325191	Becton, Dickinson and Company	2021203600	LG ELECTRONICS INC.
2020329833	Tencent America LLC	2021203654	Dexcom, Inc.
2020335393	Dairycs Automatic Milking Ltd	2021203674	FISHER & PAYKEL HEALTHCARE LIMITED
2020341603	Hisense Ronshen (Guangdong) Refrigerator Co., Ltd.	2021203726	The J. David Gladstone Institutes; The Regents of the University of California; Ithaca College
2020350819	Siemens Aktiengesellschaft	2021203801	The Trustees of Columbia University in the City of New York
2020354339	SIGOS GmbH	2021204016	LG Electronics Inc.
2020354640	Ecolab USA Inc.	2021204095	Dziekonski, M.
2020355845	Jumbo Drug Bank Co., Ltd.	2021204105	Fisher & Paykel Healthcare Limited
2020356269	Apple Inc.	2021204152	Caterpillar Underground Mining Pty Ltd
2020357475	Yu Yee Engineering Pte Ltd	2021204208	Modulate Containers Pty Ltd
2020359430	E Ink Corporation	2021204424	Pratt Retail Specialties, LLC
2020376819	LivePerson, Inc.	2021204425	CubicPV Inc.
2020380107	Envision Digital International Pte. Ltd.; Shanghai Envision Digital Co., Ltd.	2021204438	PHARMAQ AS
2020384311	Equinix, Inc.	2021204704	Genentech, Inc.
2020386867	Trigo Vision Ltd.	2021205002	Prologium Technology Co., Ltd.; Prologium Holding Inc.
2020393921	The NOCO Company	2021205071	Technological Resources Pty. Limited
2020410300	International Business Machines Corporation	2021206780	Trilink BioTechnologies, LLC
2020413529	Capital Normal University	2021206863	Daios, A.
2020414359	Capital One Services, LLC	2021210221	International Business Machines Corporation
2020415386	Streamlight, Inc.	2021211993	VERTEX PHARMACEUTICALS INCORPORATED
2020416625	Herrenknecht AG	2021212024	Daios, A.
2020423805	Nippon Telegraph and Telephone Corporation	2021212156	W. L. Gore & Associates, Inc.
2020424992	Nippon Telegraph and Telephone Corporation	2021213358	Siemens Gamesa Renewable Energy A/S
2020437817	Tencent America LLC	2021217008	Fenix Group, Inc.
2020449438	Shenzhen Greenjoy Technology Co., Ltd.	2021218010	Glaukos Corporation
2020449440	Shenzhen Greenjoy Technology Co., Ltd.	2021218773	Zhong Jing Wei Shi (Suzhou) Optical Technology Ltd;
2020458210	China Electric Power Research Institute Company Limited	2021221923	Nthalmic Holding Pty Ltd
2020466064	BGI Genomics Co., Ltd.; BGI Health (HK) Company Limited	2021225172	BSMART DIGITAL LIMITED
2020471211	Guangdong Midea White Home Appliance Technology Innovation Center Co., Ltd.; GD Midea Heating & Ventilating Equipment Co., Ltd.; Midea Group Co., Ltd.	2021225227	Confluence Pharmaceuticals, LLC
2021200326	Lensar, Inc.	2021225227	Goldcorp Inc.
2021200359	Fisher & Paykel Healthcare Limited	2021227858	Northrop Grumman Systems Corporation
2021200408	Illumina, Inc.	2021229132	Elanco US Inc.; Ambrx, Inc.
2021200423	MedImmune, LLC	2021229242	LG Electronics Inc.
2021200478	Aqua Group Limited	2021229248	Daikin Industries, Ltd.
2021200483	Translate Bio, Inc.	2021229904	Nthalmic Holding Pty Ltd
2021200584	Opex Corporation	2021232758	GE Oil & Gas, Inc.
2021200665	Assure Tech. (Hangzhou) Co., Ltd	2021232789	NAVICO HOLDING AS
2021200816	Monsanto Technology LLC	2021234990	Fronius International GmbH
2021200906	Acceleron Pharma Inc.	2021236509	Bayer HealthCare LLC
		2021240155	Beijing Baidu Netcom Science Technology Co., Ltd.
		2021240156	Beijing Baidu Netcom Science Technology Co., Ltd.
		2021240332	Tencent Technology (Shenzhen) Company Limited
		2021240769	Biosion Inc.
		2021248368	Ustav Organicke Chemie A Biochemie AV CR, V. V. I.

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2021250902	SPR Therapeutics, Inc.
2021250945	Becton, Dickinson and Company
2021251304	International Business Machines Corporation
2021251670	Tencent America LLC
2021257907	Tencent America LLC
2021261058	Sepro Mineral Systems Corp.
2021261841	Halliburton Energy Services, Inc.
2021271179	Airbus Defence and Space Limited
2021273585	State Grid East Inner Mongolia Electric Power Research Institute; State Grid Corporation of China
2021273594	Angel Group Co., Ltd.
2021273628	Halliburton Manufacturing and Services Limited
2021273648	Clover Network, LLC
2021273655	Beihang University
2021279256	Airbus Defence and Space SAS
2021282517	Ricoh Company, Ltd.
2021286312	The Hilliard Corporation
2021286358	Invinity Energy Systems (Canada) Corporation
2021286626	Novoset, LLC
2021302784	Airbus Defence and Space SAS
2021330477	Motorola Solutions, Inc.
2021331687	Echion Technologies Limited
2021348717	Ustav Organické Chemie A Biochemie AV CR, V. V. I.
2021356735	MercuryPM Pty Ltd
2021398596	Ekona Power Inc.
2022200034	Gentex Corporation
2022200367	Apple Inc.
2022200411	SAMSUNG ELECTRONICS CO., LTD.
2022200483	Yunnan Huading Regenerated Resources Development Co., Ltd
2022200601	PME IP PTY LTD
2022200706	NAVICO HOLDING AS
2022200795	NUTS HOLDINGS, LLC
2022201107	Daon Enterprises Limited
2022201170	E-Chem Technologies Ltd
2022201261	Dolby Laboratories Licensing Corporation
2022202192	Dolby International AB
2022203068	Sony Corporation
2022203259	Immatics Biotechnologies GmbH
2022203666	Tableau Software, LLC
2022205186	Geothermic Solution, LLC
2022218547	MIS.CARBONART PTY LTD (a subsidiary of Mineral Resources Limited)
2022218549	MIS.CARBONART PTY LTD (a subsidiary of Mineral Resources Limited)
2022218557	Breville Pty Limited
2022218579	Jetti Resources, LLC
2022224713	Incitec Pivot Limited
2022231742	USA Industries, LLC
2022252706	Studman Innovations Pty Ltd
2023200478	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
2023200781	Amarin Pharmaceuticals Ireland Limited
2023201206	Unicharm Corporation

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2021200816	2018304469	2017254431	2018270943	2020294209	2017357327
<b><u>A01D 34 /-</u></b>	<b><u>A01N 43 /-</u></b>	2018384100	2018365331		2018304469
2017282030	2019213694	<b><u>A41D 31 /-</u></b>	<b><u>A61B 10 /-</u></b>	<b><u>A61J 1 /-</u></b>	2019394227
2019252569	2021200816	2019413799	2018231232	2017339562	2020261941
<b><u>A01F 25 /-</u></b>	<b><u>A01N 63 /-</u></b>	<b><u>A42B 3 /-</u></b>	2018234638	2018210835	2020266058
2020311175	2020244433	2017254431	2021200665		2021200906
<b><u>A01G 13 /-</u></b>	2021200816	2018275781	<b><u>A61B 17 /-</u></b>	2017290519	2021201918
2021206863	<b><u>A23B 7 /-</u></b>	2018444545	2017279781	2017382322	2021229132
2021212024	2020311175	<b><u>A44C 21 /-</u></b>	2017343635	<b><u>A61J 3 /-</u></b>	<b><u>A61K 39 /-</u></b>
<b><u>A01G 9 /-</u></b>	<b><u>A23C 3 /-</u></b>	2019335834	2017356302	2017290519	2018298422
2021206863	2020285590	<b><u>A45D 44 /-</u></b>	2018209401	2017382322	2018322776
<b><u>A01H 6 /-</u></b>	<b><u>A23G 1 /-</u></b>	2017379067	2018231232	<b><u>A61J 7 /-</u></b>	2019255515
2020277213	2020281854	<b><u>A47B 9 /-</u></b>	2018231232	2020280117	2020203065
<b><u>A01J 5 /-</u></b>	<b><u>A23G 3 /-</u></b>	2017236050	2019398314	<b><u>A61K 31 /-</u></b>	2020210242
2020335393	2020281854	<b><u>A47B 91 /-</u></b>	<b><u>A61B 18 /-</u></b>	2016304585	2020222295
<b><u>A01J 7 /-</u></b>	<b><u>A23K 10 /-</u></b>	2017236050	2018215520	2017290519	2020289727
2020335393	2017387972	<b><u>A47C 7 /-</u></b>	2020203591	2017382322	2021200906
<b><u>A01J 9 /-</u></b>	<b><u>A23K 40 /-</u></b>	2017308489	<b><u>A61B 3 /-</u></b>	<b><u>A61J 7 /-</u></b>	2021201003
2020335393	2017387972	<b><u>A47G 19 /-</u></b>	2018215520	2020280117	2021202056
<b><u>A01K 1 /-</u></b>	<b><u>A23L 19 /-</u></b>	2017289299	<b><u>A61B 34 /-</u></b>	<b><u>A61K 31 /-</u></b>	2021240769
2020335393	2018233960	2017289300	2019398314	2016304585	2022203259
<b><u>A01K 61 /-</u></b>	<b><u>A23L 27 /-</u></b>	<b><u>A47J 27 /-</u></b>	<b><u>A61B 5 /-</u></b>	2017203290	<b><u>A61K 45 /-</u></b>
2021204438	2018233960	2022218557	2018221251	2017250300	2017260425
<b><u>A01K 67 /-</u></b>	<b><u>A23L 33 /-</u></b>	<b><u>A47J 31 /-</u></b>	2018270943	2017260425	2017301928
2016361350	2020281854	2018201885	2018372645	2017301928	2017383100
<b><u>A01M 1 /-</u></b>	<b><u>A23L 5 /-</u></b>	2021201976	2019372600	2018231044	2018279646
2017341673	2018233960	2021202214	2019389903	2018231044	2018320418
2017359585	<b><u>A23L 7 /-</u></b>	<b><u>A47J 36 /-</u></b>	2019398314	2018330423	2019217094
2017360126	2020281854	2018448862	2020241055	2019217094	2019289216
<b><u>A01M 21 /-</u></b>	2020281854	2022218557	2020241055	2019316654	2019316654
2019252569	<b><u>A23P 10 /-</u></b>	<b><u>A47J 39 /-</u></b>	2021200665	2019402087	2019416589
<b><u>A01M 7 /-</u></b>	2020281854	2018448862	2021201816	2019416589	2020213351
2019252569	<b><u>A24F 40 /-</u></b>	<b><u>A47L 11 /-</u></b>	2021203654	2020220957	2020220957
<b><u>A01N 1 /-</u></b>	2020257580	2016273835	<b><u>A61B 90 /-</u></b>	2020222295	2020222295
2017290519	<b><u>A24F 47 /-</u></b>	2019372250	2018444545	2020222296	2020222296
<b><u>A01N 25 /-</u></b>	2017307602	2020269265	<b><u>A61F 13 /-</u></b>	2020226863	2020226863
2021200816	2018224736	<b><u>A47L 15 /-</u></b>	2017401885	2020277209	2020277209
	2018226112	2016413897	<b><u>A61F 2 /-</u></b>	2020296050	2020296050
	2021203342	2020273149	2017260425	2020355845	2020355845
		2021201976	<b><u>A61K 33 /-</u></b>	2021203801	2021203801
			2017260425	2021204704	2021204704
			<b><u>A61K 35 /-</u></b>	2021206780	2021206780
			2016340819	2021211993	2021211993
			2016361350	2021225172	2021225172
			2017208715	2023200781	2023200781
			2018322776	<b><u>A61K 8 /-</u></b>	<b><u>A61K 8 /-</u></b>
			2018344749	2017345384	2017345384
			2019394227	2017379067	2017379067
			<b><u>A61K 36 /-</u></b>	2018224346	2018224346
			2020294219	<b><u>A61K 9 /-</u></b>	<b><u>A61K 9 /-</u></b>
			<b><u>A61K 38 /-</u></b>	2017277757	2017277757
			2016304585	2017301928	2017301928
				2018231044	2018231044
				2019402087	2019402087
				2020220957	2020220957
				2020261941	2020261941
				2020266058	2020266058
				2021200483	2021200483
				<b><u>A61M 11 /-</u></b>	<b><u>A61M 11 /-</u></b>
				2017307602	2017307602
				<b><u>A61M 15 /-</u></b>	<b><u>A61M 15 /-</u></b>
				2016304585	2016304585

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2017307602		<b><u>A63B 71 /-</u></b>		<b><u>B26D 11 /-</u></b>	<b><u>B32B 1 /-</u></b>
2017359597	<b><u>A61P 29 /-</u></b>	2018384100	<b><u>B07B 1 /-</u></b>	2021204208	2020239680
<b><u>A61M 16 /-</u></b>	2017208715		2016228279		2020269282
	2019416589	<b><u>A63F 1 /-</u></b>	2022218547	<b><u>B26D 3 /-</u></b>	
2017307602	2020294219	2021273594	2022218549	2021204208	<b><u>B32B 15 /-</u></b>
2017314186					2020239680
2017359597	<b><u>A61P 3 /-</u></b>	<b><u>A63F 13 /-</u></b>	<b><u>B09B 3 /-</u></b>	<b><u>B26D 7 /-</u></b>	<b><u>B32B 27 /-</u></b>
2021200359		2017426877	2016250451	2021204208	2020239680
2021203674	2019316654		<b><u>B09B 5 /-</u></b>	<b><u>B29B 13 /-</u></b>	2020269282
2021204105	2020277209	<b><u>A63F 9 /-</u></b>	2023201206	2018288437	<b><u>B32B 3 /-</u></b>
<b><u>A61M 39 /-</u></b>	2021200906	2019335834	<b><u>B23P 9 /-</u></b>	<b><u>B29B 17 /-</u></b>	2020239680
	<b><u>A61P 35 /-</u></b>		2017235955	2018212971	<b><u>B32B 37 /-</u></b>
2017339562	2017341065	<b><u>B01D 11 /-</u></b>		2018288437	2018360586
2018210835	2017357327	2020267346	<b><u>B24C 1 /-</u></b>		<b><u>B32B 5 /-</u></b>
2020325191	2018320418	2020300841	2018211929	<b><u>B29C 39 /-</u></b>	2020239680
2021250945	2018322776		<b><u>B24C 3 /-</u></b>	2018229685	<b><u>B32B 7 /-</u></b>
<b><u>A61M 5 /-</u></b>	2018344749	<b><u>B01D 21 /-</u></b>	2018211929	<b><u>B29C 41 /-</u></b>	2020269282
	2019217094	2019320964	<b><u>B24C 5 /-</u></b>	2018229685	<b><u>B32B 5 /-</u></b>
2018231232	2020222295	2021261058	2018211929	<b><u>B29C 45 /-</u></b>	2020239680
2020280117	2020222296		<b><u>B24C 7 /-</u></b>	2018211929	<b><u>B41F 23 /-</u></b>
<b><u>A61N 1 /-</u></b>	2020355845	<b><u>B01F 23 /-</u></b>	2018211929	<b><u>B24C 9 /-</u></b>	<b><u>B41M 3 /-</u></b>
	2021202056	2020283215	<b><u>B24C 9 /-</u></b>	2018211929	2018267244
2019389903	2021240769	<b><u>B01F 25 /-</u></b>	<b><u>B24C 7 /-</u></b>	<b><u>B29C 48 /-</u></b>	<b><u>B42D 25 /-</u></b>
2020241055	2021248368		2018211929	2018212971	2018267244
2020257096	2022203259	2020283215	<b><u>B25B 21 /-</u></b>	2020239680	<b><u>B41M 3 /-</u></b>
2021250902	<b><u>A61P 5 /-</u></b>	2020283215	2017308825	2020239680	2018267244
<b><u>A61P 11 /-</u></b>	2020226863		<b><u>B25B 23 /-</u></b>	2021202145	<b><u>B60B 35 /-</u></b>
	<b><u>A61P 7 /-</u></b>	<b><u>B01J 12 /-</u></b>	2018211929	<b><u>B29C 53 /-</u></b>	2016409613
2018279646	2017208715	2021398596	<b><u>B24C 9 /-</u></b>	2020221953	<b><u>B60C 11 /-</u></b>
2019416589	2020296050		2018211929	<b><u>B29C 55 /-</u></b>	2019339095
2020294219	2021200906	<b><u>B01J 19 /-</u></b>	<b><u>B25B 21 /-</u></b>	2020269282	2019339359
2021211993	<b><u>A61P 9 /-</u></b>	2018218670	2017308825	<b><u>B29C 71 /-</u></b>	<b><u>B60C 13 /-</u></b>
<b><u>A61P 13 /-</u></b>	2017383100	2019269615	<b><u>B25B 27 /-</u></b>	2018219852	2019339095
	2018330423	2021286358	2017308825	<b><u>B29D 99 /-</u></b>	2019339359
2021200906	2020296050	<b><u>B01J 20 /-</u></b>	<b><u>B25H 1 /-</u></b>	2018212971	<b><u>B60C 5 /-</u></b>
<b><u>A61P 15 /-</u></b>	2021200906	2021225227	2021204208	<b><u>B29K 105 /-</u></b>	2019339359
	<b><u>A61Q 19 /-</u></b>	<b><u>B01J 8 /-</u></b>	<b><u>B25J 19 /-</u></b>	2018212971	<b><u>B60D 1 /-</u></b>
2020266058	2017345384	2018218670	2020416625	2018288437	2020283882
<b><u>A61P 17 /-</u></b>	2017379067	<b><u>B01L 1 /-</u></b>	<b><u>B25J 9 /-</u></b>		2021356735
	2017383100	2020466064	2020416625	<b><u>B29C 67 /-</u></b>	<b><u>B60G 17 /-</u></b>
<b><u>A61P 19 /-</u></b>	2018224346	<b><u>B01L 3 /-</u></b>	2017261515	2018212971	2017378140
	<b><u>A62B 17 /-</u></b>	2020304355	<b><u>B25F 5 /-</u></b>	<b><u>B29L 23 /-</u></b>	<b><u>B60G 7 /-</u></b>
2021240769	2017254431	2021200665	2017308825	2020221953	2020283882
<b><u>A61P 21 /-</u></b>	2019413799	<b><u>B02C 18 /-</u></b>	<b><u>B25H 1 /-</u></b>	<b><u>B29L 31 /-</u></b>	2021356735
	<b><u>A62B 18 /-</u></b>	2023201206	2021204208	2018212971	<b><u>B60J 11 /-</u></b>
2017383100	2021200359	<b><u>B05B 7 /-</u></b>	<b><u>B26B 21 /-</u></b>	2018288437	2017280100
2021200906	2021200359	2020416625	2017356302		
<b><u>A61P 25 /-</u></b>	<b><u>A62B 9 /-</u></b>	<b><u>B05D 1 /-</u></b>	<b><u>B26D 1 /-</u></b>	<b><u>B29L 31 /-</u></b>	
	2017203290	2021202029	2021204208	2018212971	
2017301928	2017301928	<b><u>B05D 7 /-</u></b>		2018212971	
2018330423	2018330423		<b><u>B26D 1 /-</u></b>	2018288437	
2019289216	<b><u>A63B 21 /-</u></b>	2023201206	2020416625		
2019363230	2019289216	<b><u>B05B 7 /-</u></b>	<b><u>B25J 9 /-</u></b>	<b><u>B29K 105 /-</u></b>	
2019402087	2020233516	2018211929	2020416625	2018212971	
2021225172	2021200478	<b><u>B05D 1 /-</u></b>	<b><u>B26B 21 /-</u></b>	2018288437	
<b><u>A61P 27 /-</u></b>	<b><u>A63B 23 /-</u></b>	2021202029	2017356302	<b><u>B29L 23 /-</u></b>	
	2020233516	<b><u>B05D 7 /-</u></b>	<b><u>B26D 1 /-</u></b>	2020221953	
2019394227	2021200478		2021204208	<b><u>B29L 31 /-</u></b>	
2020220957		2021202029		2018212971	
2020296050					

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<b><u>B60J 5 /-</u></b>	<b><u>B60W 40 /-</u></b>	<b><u>B65D 39 /-</u></b>	<b><u>C01B 17 /-</u></b>	<b><u>C04B 38 /-</u></b>	<b><u>C07D 401 /-</u></b>
2017328469	2017353698	2017228251	2022218579	2019467669	2018320418
<b><u>B60K 17 /-</u></b>	<b><u>B61K 13 /-</u></b>	<b><u>B65D 41 /-</u></b>	<b><u>C01B 3 /-</u></b>	<b><u>C04B 41 /-</u></b>	2019213694
2021286312	2019252569	2017304110	2020325127	2022201170	2020296050
<b><u>B60K 23 /-</u></b>	<b><u>B61L 15 /-</u></b>	<b><u>B65D 55 /-</u></b>	<b><u>C01B 32 /-</u></b>	<b><u>C05C 1 /-</u></b>	2021211993
2021286312	2019252569	2017304110	2020311602	2022224713	2021248368
<b><u>B60K 28 /-</u></b>	<b><u>B62D 1 /-</u></b>	<b><u>B65D 65 /-</u></b>	<b><u>C01B 6 /-</u></b>	<b><u>C05G 5 /-</u></b>	<b><u>C07D 405 /-</u></b>
2021201816	2017274065	2020269282	2020325127	2022224713	2019213694
<b><u>B60K 35 /-</u></b>	<b><u>B62D 3 /-</u></b>	<b><u>B65D 75 /-</u></b>	<b><u>C01G 11 /-</u></b>	<b><u>C07C 1 /-</u></b>	<b><u>C07D 413 /-</u></b>
2019330558	2017274065	2017304110	2022218579	2019451511	2019289216
<b><u>B60K 37 /-</u></b>	<b><u>B62D 33 /-</u></b>	<b><u>B65D 81 /-</u></b>	<b><u>C01G 23 /-</u></b>	<b><u>C07C 13 /-</u></b>	<b><u>C07D 417 /-</u></b>
2019330558	2017328469	2017290519	2021204425	2019451511	2021203801
<b><u>B60L 15 /-</u></b>	<b><u>B62D 55 /-</u></b>	<b><u>B65D 83 /-</u></b>	<b><u>C01G 3 /-</u></b>	<b><u>C07C 219 /-</u></b>	<b><u>C07D 451 /-</u></b>
2017338922	2020283882	2021236509	2022218579	2021348717	2019289216
<b><u>B60L 50 /-</u></b>	<b><u>B63B 21 /-</u></b>	<b><u>B65D 88 /-</u></b>	<b><u>C01G 33 /-</u></b>	<b><u>C07C 233 /-</u></b>	<b><u>C07D 453 /-</u></b>
2017338922	2017287786	2018390423	2021331687	2018360855	2019289216
<b><u>B60M 5 /-</u></b>	2017302735	2020311175	<b><u>C01G 39 /-</u></b>	2021348717	<b><u>C07D 471 /-</u></b>
2019203080	2021356735	2021204208	2021331687	<b><u>C07C 235 /-</u></b>	2018360855
<b><u>B60P 3 /-</u></b>	<b><u>B63B 27 /-</u></b>	<b><u>B65G 1 /-</u></b>	<b><u>C01G 41 /-</u></b>	2018360855	2019289216
2021204152	2017302735	2017261797	2021331687	<b><u>C07C 237 /-</u></b>	2019416589
<b><u>B60R 11 /-</u></b>	<b><u>B63B 35 /-</u></b>	2021200584	<b><u>C01G 53 /-</u></b>	2018360855	2020213351
2021204152	2017287786	<b><u>B65G 21 /-</u></b>	2022218579	<b><u>C07C 69 /-</u></b>	2020355845
<b><u>B60R 21 /-</u></b>	<b><u>B64G 1 /-</u></b>	<b><u>B65G 53 /-</u></b>	<b><u>C02F 1 /-</u></b>	<b><u>C07D 213 /-</u></b>	<b><u>C07D 487 /-</u></b>
2017328469	2021279256	2020210306	2016250451	2018360855	2018330423
<b><u>B60S 9 /-</u></b>	2021302784	<b><u>B66D 1 /-</u></b>	2017261363	<b><u>C07D 231 /-</u></b>	2019289216
2020283882	<b><u>B65B 51 /-</u></b>	2017287786	2018231010	2018360855	2019289216
<b><u>B60T 13 /-</u></b>	2017290519	<b><u>B67D 3 /-</u></b>	2019320964	2019217094	2021204704
2018260818	<b><u>B65B 7 /-</u></b>	2021202214	2019385688	2021211993	<b><u>C07D 519 /-</u></b>
<b><u>B60T 17 /-</u></b>	2017290519	<b><u>B67D 7 /-</u></b>	2020267346	<b><u>C07D 235 /-</u></b>	2018330423
2018260818	<b><u>B65D 1 /-</u></b>	2021202214	<b><u>C02F 101 /-</u></b>	2021203801	<b><u>C07H 15 /-</u></b>
<b><u>B60T 3 /-</u></b>	2017310041	2021236509	2019385688	<b><u>C07D 241 /-</u></b>	2017341065
2021204152	<b><u>B65D 17 /-</u></b>	<b><u>B81B 1 /-</u></b>	2016250451	2018360855	<b><u>C07H 21 /-</u></b>
<b><u>B60T 8 /-</u></b>	2017228251	2021286358	2019385688	<b><u>C07D 261 /-</u></b>	2020207837
2019330558	2017310041	<b><u>B82Y 10 /-</u></b>	<b><u>C02F 3 /-</u></b>	2018360855	2021206780
<b><u>B60W 10 /-</u></b>	<b><u>B65D 23 /-</u></b>	<b><u>B82Y 30 /-</u></b>	2017261363	<b><u>C07D 263 /-</u></b>	<b><u>C07K 1 /-</u></b>
2017353698	2021236509	2018367378	<b><u>C02F 9 /-</u></b>	2018360855	2020207837
<b><u>B60W 30 /-</u></b>	<b><u>B65D 35 /-</u></b>	<b><u>B82Y 5 /-</u></b>	2019385688	<b><u>C07D 271 /-</u></b>	2021200423
2017353698	2020269282	2017250300	<b><u>C04B 28 /-</u></b>	2018360855	<b><u>C07K 14 /-</u></b>
			2019467669		2017281830
					2018298422

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2018304469	2021202029	2020207837	<b><u>C22B 3 /-</u></b>	2017380379	<b><u>E02F 9 /-</u></b>
2018322776		2021201918		2020273149	
2018357926	<b><u>C09D 5 /-</u></b>		2018204491	2021201232	2021236509
2019255515		<b><u>C12P 1 /-</u></b>	2020300841	2021229242	
2021200423	2021202029		2021201824		<b><u>E04B 1 /-</u></b>
2021200906		2018344749	2021205071	<b><u>D21H 11 /-</u></b>	2018212423
2021201918	<b><u>C09K 5 /-</u></b>		2022218579		2020239680
2021202056		<b><u>C12P 13 /-</u></b>		2019244030	2021204208
2021229132	2021229248		<b><u>C22B 5 /-</u></b>	<b><u>D21H 17 /-</u></b>	
2022203259		2019232209			<b><u>E04B 2 /-</u></b>
<b><u>C07K 16 /-</u></b>	<b><u>C09K 8 /-</u></b>		2022200483	2019244030	2020239680
	2020287847	<b><u>C12Q 1 /-</u></b>	<b><u>C22B 59 /-</u></b>	2021204424	
2016361350		2016340819		<b><u>D21H 21 /-</u></b>	<b><u>E04B 5 /-</u></b>
2017281830	<b><u>C10J 3 /-</u></b>	2021201918	2021201824		
2018322776		2021202884	<b><u>C22B 7 /-</u></b>	2021204424	2020239680
2019255515	2020288027			<b><u>D21H 25 /-</u></b>	<b><u>E04B 7 /-</u></b>
2019363230		<b><u>C12R 1 /-</u></b>	2022200483		
2020210242	<b><u>C10K 1 /-</u></b>		<b><u>C22C 38 /-</u></b>	2021204424	2020239680
2020289727		2020244433		<b><u>D21H 27 /-</u></b>	<b><u>E04C 2 /-</u></b>
2021201003	2020288027	<b><u>C21B 11 /-</u></b>	2017265148		
2021240769			<b><u>C23F 13 /-</u></b>	2021204424	2020239680
2022203259	<b><u>C10K 3 /-</u></b>	2022200483		<b><u>D21J 1 /-</u></b>	<b><u>E04F 10 /-</u></b>
	2020288027	<b><u>C21B 3 /-</u></b>	2022201170		
<b><u>C07K 19 /-</u></b>	<b><u>C11D 1 /-</u></b>		<b><u>C25B 1 /-</u></b>	2021204424	2018200521
		2022200483		<b><u>E01B 37 /-</u></b>	<b><u>E04F 13 /-</u></b>
2019394227	2020309071	<b><u>C21D 10 /-</u></b>	2018231010		
2021200906			<b><u>C25B 11 /-</u></b>	2019252569	2018212423
<b><u>C07K 4 /-</u></b>	<b><u>C11D 11 /-</u></b>	2017265148		2018229685	
		<b><u>C21D 6 /-</u></b>	2021286358	<b><u>E01C 19 /-</u></b>	<b><u>E04G 25 /-</u></b>
2020289727	2020309071		<b><u>C25B 15 /-</u></b>	2020307144	2021204208
<b><u>C07K 5 /-</u></b>	<b><u>C11D 3 /-</u></b>	2017265148		<b><u>E01F 15 /-</u></b>	<b><u>E04H 1 /-</u></b>
		<b><u>C21D 8 /-</u></b>	2018231010		
2021248368	2020309071		2018257600	2017373483	2021204208
<b><u>C07K 7 /-</u></b>	2020354640	<b><u>C21D 8 /-</u></b>	2021286358	<b><u>E01F 5 /-</u></b>	<b><u>E04H 7 /-</u></b>
			<b><u>C25B 9 /-</u></b>		
2018304469	2019269615	<b><u>C22B 1 /-</u></b>	2018257600	2019280696	2018390423
<b><u>C08F 232 /-</u></b>	2020263491		<b><u>C25C 3 /-</u></b>	<b><u>E01H 11 /-</u></b>	<b><u>E05B 47 /-</u></b>
	2020267743	2022200483		2019252569	2021202427
2021286626		<b><u>C22B 11 /-</u></b>	2018249909	<b><u>E02D 17 /-</u></b>	<b><u>E05B 55 /-</u></b>
<b><u>C08J 9 /-</u></b>	<b><u>C12N 1 /-</u></b>		<b><u>C25C 5 /-</u></b>		
		2018204491	2018249909	2019439324	2021202427
2018289545	2019340582	2020300841		2019452705	<b><u>E05B 61 /-</u></b>
<b><u>C08K 5 /-</u></b>	<b><u>C12N 15 /-</u></b>	<b><u>C22B 13 /-</u></b>	<b><u>D03D 15 /-</u></b>	<b><u>E02D 19 /-</u></b>	<b><u>E05B 61 /-</u></b>
2021286626	2016343887	2022200483	2019280696	2019439324	2021202427
<b><u>C08L 27 /-</u></b>	2016361350	<b><u>C22B 15 /-</u></b>	<b><u>D03D 25 /-</u></b>	<b><u>E02D 27 /-</u></b>	<b><u>E05C 1 /-</u></b>
	2016380351				
2020269282	2017281497	2021205071	2019280696	2019452705	2021202427
<b><u>C08L 9 /-</u></b>	2018322776	2022218579	<b><u>D06F 31 /-</u></b>	<b><u>E02D 29 /-</u></b>	<b><u>E05C 7 /-</u></b>
	2018357926	<b><u>C22B 17 /-</u></b>			
2021286626	2019232209		2017380379	2019439324	2021202427
<b><u>C09C 1 /-</u></b>	2019394227	2022218579	<b><u>D06F 33 /-</u></b>	<b><u>E02D 5 /-</u></b>	<b><u>E05D 15 /-</u></b>
	2020207837	<b><u>C22B 19 /-</u></b>			
2020311602			2021201232	2019452705	2017316505
<b><u>C09D 127 /-</u></b>	2016340819	2022200483	<b><u>D06F 37 /-</u></b>	<b><u>E02F 3 /-</u></b>	2017328469
	2016377701				<b><u>E05F 1 /-</u></b>
2021202029	2017205329	<b><u>C22B 23 /-</u></b>	2021201232	2021236509	2021202427
<b><u>C09D 147 /-</u></b>	2018344749		<b><u>D06F 39 /-</u></b>		
	2020263491	2022218579			
2018217319	<b><u>C12N 9 /-</u></b>	<b><u>C22B 26 /-</u></b>			
<b><u>C09D 167 /-</u></b>					
	2016380351	2017272239			
	2018298422				
	2019232209				

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<b><u>E05F 7/-</u></b>	<b><u>F01K 17/-</u></b>	2017308705	<b><u>F16M 11/-</u></b>	<b><u>F24S 30/-</u></b>	2019352421
2021202427	2020229117	<b><u>F16B 19/-</u></b>	2017346515	2019222897	2019354475
<b><u>E06B 3/-</u></b>	<b><u>F01K 23/-</u></b>	2017261515	<b><u>F16M 13/-</u></b>	<b><u>F24S 50/-</u></b>	<b><u>F25J 1/-</u></b>
2017351985	2020229117	<b><u>F16B 23/-</u></b>	2017236050	2019222897	2018235056
<b><u>E06C 1/-</u></b>	<b><u>F02B 19/-</u></b>	2017339763	2017346515	<b><u>F24S 80/-</u></b>	2021232758
2021202533	2018207981	<b><u>F16B 33/-</u></b>	<b><u>F17D 5/-</u></b>	2019222897	<b><u>F25J 5/-</u></b>
<b><u>E06C 7/-</u></b>	<b><u>F02C 3/-</u></b>	2017285425	2021201189	<b><u>F24T 10/-</u></b>	2018235056
2021202533	2018235056	<b><u>F16B 35/-</u></b>	<b><u>F21L 4/-</u></b>	2022205186	<b><u>F26B 17/-</u></b>
2020229117	2020229117	2017285425	2018444545	<b><u>F24V 40/-</u></b>	2018288437
<b><u>E21B 17/-</u></b>	<b><u>F02M 63/-</u></b>	<b><u>F16B 45/-</u></b>	<b><u>F21S 8/-</u></b>	2022205186	<b><u>F26B 3/-</u></b>
2017344053	2018207981	2021212024	2020206970	<b><u>F25B 1/-</u></b>	2018288437
2021204095	<b><u>F02P 13/-</u></b>	<b><u>F16B 5/-</u></b>	<b><u>F21S 9/-</u></b>	2021229248	<b><u>F27D 17/-</u></b>
2021261841	2018207981	2017261515	2018275781	<b><u>F25B 11/-</u></b>	2021398596
<b><u>E21B 19/-</u></b>	<b><u>F03B 13/-</u></b>	2017285425	<b><u>F21V 14/-</u></b>	2018235056	<b><u>F27D 7/-</u></b>
2017344053	2021201974	2021212024	2019315657	<b><u>F25B 49/-</u></b>	2021398596
2018372529	<b><u>F03D 1/-</u></b>	<b><u>F16C 11/-</u></b>	<b><u>F21V 15/-</u></b>	2020240873	<b><u>F28B 1/-</u></b>
2021261841	2016422146	2020206970	2019315657	<b><u>F25C 1/-</u></b>	2018235056
<b><u>E21B 33/-</u></b>	2022252706	<b><u>F16C 19/-</u></b>	<b><u>F21V 21/-</u></b>	2018271198	<b><u>F28D 20/-</u></b>
2020279857	<b><u>F03D 13/-</u></b>	2021203600	2018444545	2019352421	2017289299
<b><u>E21B 34/-</u></b>	2016422146	<b><u>F16C 33/-</u></b>	2020206970	2019354475	2017289300
2017442107	2022252706	2021203600	<b><u>F21V 23/-</u></b>	2019354482	<b><u>F28D 5/-</u></b>
2020279857	<b><u>F03D 7/-</u></b>	<b><u>F16G 11/-</u></b>	2018275781	2019379045	2018235056
2021273628	2021202277	2021356735	<b><u>F21V 33/-</u></b>	<b><u>F25C 5/-</u></b>	<b><u>F28D 7/-</u></b>
<b><u>E21B 4/-</u></b>	2022252706	<b><u>F16G 15/-</u></b>	2018275781	2018271198	2020285590
2018372529	<b><u>F03D 9/-</u></b>	2021356735	<b><u>F21W 131/-</u></b>	2019352421	<b><u>F41A 17/-</u></b>
<b><u>E21B 43/-</u></b>	2022252706	<b><u>F16H 48/-</u></b>	2018444545	2019354475	2021202745
2021273628	<b><u>F03G 4/-</u></b>	2021286312	2020206970	2019354482	<b><u>F41G 1/-</u></b>
2022205186	2022252706	<b><u>F16J 15/-</u></b>	<b><u>F21Y 115/-</u></b>	2019354482	2018219865
<b><u>E21B 47/-</u></b>	<b><u>F03G 7/-</u></b>	2020310601	2018444545	2020311175	2020415386
2017413682	2022205186	<b><u>F16K 31/-</u></b>	<b><u>F22B 35/-</u></b>	<b><u>F25D 11/-</u></b>	<b><u>F41G 11/-</u></b>
<b><u>E21B 7/-</u></b>	<b><u>F04D 17/-</u></b>	2018260818	2018270018	2017316505	2020415386
2018372529	2019428668	<b><u>F16L 23/-</u></b>	<b><u>F24F 1/-</u></b>	2018271198	<b><u>F41G 7/-</u></b>
<b><u>E21D 11/-</u></b>	<b><u>F04D 29/-</u></b>	2017344053	2020471211	2019379045	2017427609
2020416625	2019428668	<b><u>F16L 55/-</u></b>	<b><u>F24F 11/-</u></b>	2020311175	<b><u>F41H 11/-</u></b>
<b><u>E21D 9/-</u></b>	2019428668	2018392008	2020240873	2020341603	2021202745
2018372529	2020310601	2022231742	<b><u>F24F 13/-</u></b>	2021202353	<b><u>F41H 5/-</u></b>
<b><u>F01D 11/-</u></b>	2021203600	<b><u>F16L 57/-</u></b>	2020471211	2021202356	2019413799
2020212251	<b><u>F04F 1/-</u></b>	2021201189	<b><u>F24S 25/-</u></b>	2021204016	<b><u>G01B 7/-</u></b>
<b><u>F01D 25/-</u></b>	2020210306	<b><u>F16L 59/-</u></b>	2019397167	<b><u>F25D 29/-</u></b>	2021201189
2020212251	<b><u>F04F 5/-</u></b>	2018289545			

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<b><u>G01C 21 /-</u></b>		2019330558	<b><u>G06K 7 /-</u></b>	2017257598	2021205002
2017427609	<b><u>G01S 7 /-</u></b>			2017291422	
	2021232789	<b><u>G05G 5 /-</u></b>	2018328233		<b><u>H01M 4 /-</u></b>
<b><u>G01F 1 /-</u></b>		2017426877	<b><u>G06N 10 /-</u></b>	<b><u>G09B 29 /-</u></b>	2021331687
2019439454	<b><u>G01V 1 /-</u></b>		2020255132	2022200706	
2020309470	2017276171	<b><u>G06F 1 /-</u></b>	2021240155	<b><u>G09C 1 /-</u></b>	<b><u>H01M 50 /-</u></b>
		2017430821	2021240156		2021286358
<b><u>G01F 15 /-</u></b>	<b><u>G01V 3 /-</u></b>		<b><u>G06N 20 /-</u></b>	2020423805	<b><u>H01M 6 /-</u></b>
2020273149	2017314221	<b><u>G06F 11 /-</u></b>	2020291917	2020424992	
	2017413682	2021217008	2020384311	<b><u>G09G 5 /-</u></b>	2017355386
<b><u>G01F 23 /-</u></b>	<b><u>G02B 1 /-</u></b>	2022200795		2022201261	<b><u>H01M 8 /-</u></b>
2020273149	2021203726	<b><u>G06F 12 /-</u></b>	<b><u>G06N 3 /-</u></b>	<b><u>G10K 11 /-</u></b>	2020232743
		2022200795	2021251304	2021286358	
<b><u>G01F 25 /-</u></b>	<b><u>G02B 19 /-</u></b>		<b><u>G06N 99 /-</u></b>	2022200034	<b><u>H01R 13 /-</u></b>
2020309470	2019315657	<b><u>G06F 13 /-</u></b>	2018367378	<b><u>G10L 19 /-</u></b>	2020393921
		2018328202		2022202192	2021227858
<b><u>G01L 5 /-</u></b>	<b><u>G02B 26 /-</u></b>	<b><u>G06F 16 /-</u></b>	<b><u>G06Q 10 /-</u></b>	<b><u>G16H 10 /-</u></b>	<b><u>H01R 4 /-</u></b>
2021273655	2018215520	2020291917	2021202128	2022200601	2020393921
<b><u>G01M 13 /-</u></b>	2019315657	2021202844	2021236509		
2018213406	<b><u>G02B 27 /-</u></b>	2021210221	<b><u>G06Q 20 /-</u></b>	<b><u>G16H 15 /-</u></b>	<b><u>H01T 13 /-</u></b>
	2018219865	2022203666		2022200601	2018207981
<b><u>G01M 99 /-</u></b>	2019315657	<b><u>G06F 17 /-</u></b>	2018332539	<b><u>G16H 30 /-</u></b>	<b><u>H02G 3 /-</u></b>
2021273655		2018319214	2019315764		
<b><u>G01N 1 /-</u></b>	<b><u>G02B 5 /-</u></b>	2021251304	2020414359	2017348111	2019355385
2021200665	2021203726	<b><u>G06F 18 /-</u></b>	2021273648	2022200601	2020357475
		2020386867	2022200367	<b><u>G16H 40 /-</u></b>	<b><u>H02G 9 /-</u></b>
<b><u>G01N 21 /-</u></b>	<b><u>G02B 6 /-</u></b>		<b><u>G06Q 40 /-</u></b>	2019354911	2020357475
2018270943	2018215520	<b><u>G06F 21 /-</u></b>	2021202844	<b><u>G16H 50 /-</u></b>	<b><u>H02H 7 /-</u></b>
2021200408	2019355385	2019415474	<b><u>G06T 5 /-</u></b>	2017348111	2021273585
		2020278116	2022201261	2018372645	
<b><u>G01N 27 /-</u></b>	<b><u>G02C 7 /-</u></b>	2020384311	<b><u>G06T 7 /-</u></b>	2019398314	<b><u>H02J 15 /-</u></b>
2018213406	2021218773	2020414359		<b><u>G16Y 30 /-</u></b>	2021213358
2019269615	2021229904	<b><u>G06F 3 /-</u></b>	2020314553	2020380107	<b><u>H02J 3 /-</u></b>
		2018448862	2020413529	<b><u>H01H 19 /-</u></b>	2018276985
<b><u>G01N 33 /-</u></b>	<b><u>G02F 1 /-</u></b>	2020267498	2020449438	2019330558	2020350819
2017205329	2019411398	2020356269	2020449440		2021202672
2020294228	2020359430	2021202128	2021202277	<b><u>H01H 9 /-</u></b>	2021213358
2020304355	2021203726	2021240332		2019330558	
2021201816	<b><u>G03B 15 /-</u></b>	2022200367	<b><u>G06V 10 /-</u></b>		<b><u>H02J 7 /-</u></b>
	2021330477	2022201261	2020386867	<b><u>H01L 23 /-</u></b>	2017355386
<b><u>G01R 15 /-</u></b>	<b><u>G03B 17 /-</u></b>	<b><u>G06F 8 /-</u></b>	2022201107	2019201723	2020257096
2021234990	2021330477	2020291917	<b><u>G06V 30 /-</u></b>	<b><u>H01L 29 /-</u></b>	<b><u>H02M 3 /-</u></b>
			2020386867	2018367378	2020227736
<b><u>G01R 27 /-</u></b>	<b><u>G03G 15 /-</u></b>	<b><u>G06F 9 /-</u></b>		2020410300	<b><u>H02P 21 /-</u></b>
2017341673	2021282517	2018339076	<b><u>G07C 3 /-</u></b>	<b><u>H01L 31 /-</u></b>	2018281237
2021234990		2019262848	2017269730	2020314513	<b><u>H02P 27 /-</u></b>
	<b><u>G03G 21 /-</u></b>	2020291917	<b><u>G07C 9 /-</u></b>	2021204425	2018281237
<b><u>G01S 15 /-</u></b>	2021282517	2021273648		<b><u>H01M 10 /-</u></b>	<b><u>H02P 9 /-</u></b>
2021232789		<b><u>G06K 17 /-</u></b>	2017391308		
2022200706	<b><u>G05D 1 /-</u></b>	2021221923	<b><u>G08B 13 /-</u></b>	<b><u>G09B 23 /-</u></b>	2020458210
	2017287786	<b><u>G06K 19 /-</u></b>	2021330477		
<b><u>G01S 3 /-</u></b>	2017427609	2017436113			
2018226490					
2022200706	<b><u>G05G 1 /-</u></b>				
	2017426877				
<b><u>G01S 5 /-</u></b>					
2018226490					



Applications Accepted - IPC Index cont'd

<b><u>H02S 20 /-</u></b>	<b><u>H04M 1 /-</u></b>	<b><u>H04W 8 /-</u></b>
2019222897 2019397167	2020356269	2020354339 2021201805
<b><u>H02S 40 /-</u></b>	<b><u>H04N 13 /-</u></b>	<b><u>H04W 88 /-</u></b>
2018276985	2021202277	2019447734
<b><u>H03D 7 /-</u></b>	<b><u>H04N 17 /-</u></b>	<b><u>H05K 5 /-</u></b>
2021271179	2020386867	2021202353 2021202356
<b><u>H03F 3 /-</u></b>	<b><u>H04N 19 /-</u></b>	
2022200034	2018283967 2019296308 2019303720 2019315758 2019390215 2020329833 2020437817 2021251670 2021257907 2022203068 2023200478	
<b><u>H03G 1 /-</u></b>		
2022200034		
<b><u>H03G 3 /-</u></b>		
2022200034		
<b><u>H04B 5 /-</u></b>	<b><u>H04N 21 /-</u></b>	
2021273648	2019262848	
<b><u>H04B 7 /-</u></b>	<b><u>H04N 23 /-</u></b>	
2019222537 2019447734 2020279263 2021271179	2021330477	
	<b><u>H04N 7 /-</u></b>	
<b><u>H04L 1 /-</u></b>	2020386867 2021330477	
2017434661 2018401855	<b><u>H04R 1 /-</u></b>	
<b><u>H04L 12 /-</u></b>	2019462145 2022200034	
2019457781 2020380107	<b><u>H04R 7 /-</u></b>	
<b><u>H04L 25 /-</u></b>	2019462145	
2017434661	<b><u>H04S 7 /-</u></b>	
<b><u>H04L 5 /-</u></b>	2019409705	
2017434661	<b><u>H04W 24 /-</u></b>	
<b><u>H04L 51 /-</u></b>	2020354339 2022200411	
2020376819	<b><u>H04W 36 /-</u></b>	
<b><u>H04L 67 /-</u></b>	2018262068 2021217008	
2020380107	<b><u>H04W 4 /-</u></b>	
<b><u>H04L 69 /-</u></b>	2020380107	
2020380107	<b><u>H04W 72 /-</u></b>	
<b><u>H04L 7 /-</u></b>	2017434661 2019246989	
2017437863	<b><u>H04W 74 /-</u></b>	
<b><u>H04L 9 /-</u></b>	2017444147	
2020204946 2020423805 2020424992		

**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) Schwartz, A.  
 (11) AU-B-2018102101  
 (21) 2018102101 (22) 20.12.2018  
 (54) Improved baby nest  
 (51) Int. Cl.  
     **A47D 13/08** ( 2006.01 )  
 (31) 2018900021 (32) 04.01.18 (33) AU  
 (45) 06.04.2023  
 (72) Schwartz, Astrid  
 (74) FOUNDRY INTELLECTUAL PROP-  
     ERTY PTY LTD

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(71) Tsinghua University  
 (11) AU-B-2022100175  
 (21) 2022100175 (22) 31.10.2022  
 (54) PRECISE MAGNETIC FIELD DETEC-  
     TION METHOD AND SYSTEM BASED  
     ON OPTICAL CAVITY OF MAGNETO-  
     STRICTIVE MATERIAL  
 (51) Int. Cl.  
     **G01R 33/032** ( 2006.01 )  
     **G01R 33/24** ( 2006.01 )  
 (45) 06.04.2023  
 (62) 2018422091  
 (72) LIU, Yongchun; LI, Yifan; YOU, Li; LIU,  
     Bei  
 (74) Madderns Pty Ltd

**Numerical Index**

2018102101 Schwartz, A.  
2022100175 Tsinghua University

IPC Index

A47D 13 /-

2018102101

G01R 33 /-

2022100175

**Patents Granted**

**Standard Patents**

2016204766	2016286898	2016312909	2016335248
2016335572	2016341304	2016349391	2016353133
2016355547	2016355975	2016362875	2016369524
2016370726	2016372575	2016379399	2016382932
2016396055	2016400405	2016406104	2016416782
2016417377	2016429744	2017200574	2017202448
2017208218	2017211270	2017214668	2017215476
2017218170	2017220774	2017223261	2017224136
2017231095	2017233850	2017235665	2017237187
2017238512	2017246999	2017247530	2017247954
2017248040	2017248848	2017256735	2017256864
2017258896	2017264836	2017268644	2017268865
2017269411	2017276351	2017278154	2017278955
2017283742	2017290387	2017297280	2017297358
2017301047	2017301456	2017302593	2017303834
2017304229	2017304286	2017306657	2017307366
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2017320349	2017320642	2017321113	2017321818
2017323398	2017323451	2017323562	2017326179
2017328283	2017330251	2017332031	2017336310
2017342522	2017344355	2017345017	2017347219
2017347854	2017348422	2017349190	2017351986
2017354038	2017355460	2017358578	2017360823
2017362071	2017362968	2017363204	2017363484
2017363548	2017366165	2017366896	2017368562
2017369517	2017370466	2017371109	2017372070
2017377068	2017378203	2017379410	2017382624
2017383430	2017384442	2017388356	2017418057
2017419032	2017433746	2018200096	2018201281
2018201655	2018204048	2018205755	2018207069
2018207075	2018209477	2018212953	2018215203
2018216240	2018217877	2018218189	2018221458
2018222346	2018224032	2018224194	2018224292
2018226820	2018228451	2018228511	2018235079
2018237366	2018240832	2018241289	2018247704
2018250144	2018251878	2018255043	2018255430
2018260500	2018266357	2018274468	2018276069
2018280186	2018280347	2018289116	2018289218
2018290360	2018294439	2018302739	2018307726
2018307928	2018309085	2018309166	2018312836
2018312941	2018313118	2018313669	2018313910
2018314269	2018320552	2018322456	2018324421
2018326573	2018332887	2018333272	2018333845
2018333848	2018334842	2018336815	2018343339
2018343981	2018344825	2018345211	2018347870
2018350846	2018353342	2018354342	2018368724
2018373464	2018379824	2018381338	2018384069
2018384223	2018388676	2018389173	2018392794
2018401518	2018401520	2018408878	2018425856
2018433363	2018444444	2018446174	2018446335
2018446538	2018448263	2019200790	2019207591
2019209114	2019209164	2019213311	2019217635
2019218638	2019219123	2019221496	2019227521
2019229371	2019240755	2019245602	2019246952
2019247064	2019252944	2019255717	2019262483
2019264860	2019266511	2019274473	2019275479
2019280049	2019282318	2019285393	2019292271
2019297198	2019297562	2019297982	2019298091
2019300188	2019312668	2019314452	2019315355
2019319767	2019321429	2019326291	2019327038
2019327288	2019328516	2019332110	2019332700
2019333116	2019335977	2019337282	2019342918
2019345538	2019353424	2019353969	2019353970
2019355035	2019356644	2019356964	2019369207
2019370131	2019372330	2019373296	2019373598
2019374291	2019374770	2019376799	2019376834
2019387842	2019394476	2019397164	2019400110

**Patents Granted**

**Standard Patents**

2019402151	2019402854	2019404016	2019409329
2019416609	2019416623	2019418419	2019419580
2019422391	2019423109	2019430859	2019431661
2019432579	2019436796	2019438545	2019438806
2019447727	2019452405	2019453400	2019454314
2020202147	2020202570	2020202855	2020206388
2020206398	2020206566	2020206707	2020211733
2020212400	2020214091	2020214916	2020215098
2020215187	2020219714	2020219814	2020220185
2020223775	2020224457	2020224663	2020226356
2020227005	2020232777	2020234957	2020237451
2020239676	2020239744	2020240106	2020244388
2020244415	2020244500	2020244561	2020244584
2020244932	2020249745	2020250303	2020252184
2020252758	2020253232	2020254549	2020256326
2020257129	2020259633	2020260382	2020261676
2020262297	2020264679	2020265522	2020267215
2020267241	2020267276	2020267295	2020270463
2020272127	2020272410	2020272737	2020273317
2020277093	2020281107	2020286340	2020287947
2020289757	2020290407	2020292763	2020294239
2020294356	2020297006	2020301123	2020308316
2020311289	2020331883	2020334822	2020372600
2020376100	2020378661	2020403713	2020404453
2020410913	2020412459	2020439553	2021200020
2021200090	2021200129	2021200169	2021200529
2021200543	2021200651	2021200745	2021200915
2021201057	2021201061	2021201305	2021201419
2021201535	2021201713	2021201720	2021201743
2021201765	2021201826	2021201846	2021202034
2021202349	2021202403	2021202594	2021202759
2021202923	2021202967	2021203003	2021203138
2021203395	2021203402	2021203524	2021203602
2021203618	2021203769	2021203859	2021204357
2021204412	2021204728	2021204999	2021205033
2021206776	2021212009	2021212111	2021212126
2021215145	2021215153	2021218037	2021218062
2021218118	2021218156	2021218176	2021218204
2021221403	2021221904	2021225098	2021225167
2021229228	2021229238	2021232678	2021232744
2021232848	2021236534	2021236569	2021236580
2021245187	2021245243	2021250851	2021254590
2021254653	2021257903	2021257974	2021257993
2021261261	2021261958	2021266339	2021281698
2021300880	2021307473	2021318396	2021332085
2021333741	2021338581	2021340764	2021377723
2022200001	2022200224	2022200628	2022202745
2022204231	2022204619	2022204897	2022206468
2022206717			

**Innovation Patents**

2017101942

**Offer to Surrender**

It is hereby notified that **Russell, M.J. c/- Michael Buck IP PO BOX 4361, St Lucia QLD 4067**, the Patentee of Patent 2013201792 dated 28.07.2017 for an invention titled 'A LOCK APPARATUS' 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.

**Assignments Registered**

2006325083 Castellana, Rossana The patent has been assigned to **GPQ S.R.L.**

2007357571 Palaterra Betriebs- und Beteiligungsgesellschaft mbH The patent has been assigned to **ricion AG**

**Assignments Registered**

2008258222 BOLDstreet Inc. The patent has been assigned to **DATAVALET TECHNOLOGIES**

2010225088 Rhodia Operations The patent has been assigned to **Energy Solutions (US) LLC**

2011340268 Rhodia Operations The patent has been assigned to **Energy Solutions (US) LLC**

2012226602 Rhodia Operations The patent has been assigned to **Energy Solutions (US) LLC**

2012228447 Rhodia Operations The patent has been assigned to **Energy Solutions (US) LLC**

2012236205 EMERGE, LLC The patent has been assigned to **Brijjit Medical, Inc.**

2012307089 O'Connor, Lee The patent has been assigned to **Ant Proof Products Pty Ltd**

2012316878 Invert Robotics Limited The patent has been assigned to **Invert Robotics Global Solutions Limited**

2012325922 EMERGE, LLC. The patent has been assigned to **Brijjit Medical, Inc.**

2012331118 Rhodia Operations The patent has been assigned to **Energy Solutions (US) LLC**

2013214288 Rhodia Operations The patent has been assigned to **Energy Solutions (US) LLC**

2013265327 Rhodia Operations The patent has been assigned to **Energy Solutions (US) LLC**

2013265411 Rhodia Operations The patent has been assigned to **Energy Solutions (US) LLC**

2013345041 EMERGE, LLC. The patent has been assigned to **Brijjit Medical, Inc.**

2014213004 RFM AG Pty Ltd The patent has been assigned to **RY-AN NT INTERNATIONAL PTY LTD**

2014253058 Rhodia Operations The patent has been assigned to **Energy Solutions (US) LLC**

2014331058 Rhodia Operations The patent has been assigned to **Energy Solutions (US) LLC**

2015231317 DENSO CORPORATION The patent has been assigned to **TOYOTA JIDOSHA KABUSHIKI KAISHA**

2015252705 Vineland Research and Innovations Centre The patent has been assigned to **Mycionics Inc.**

2016245911 Rhodia Operations The patent has been assigned to **Energy Solutions (US) LLC**

2016245912 Rhodia Operations The patent has been assigned to **Energy Solutions (US) LLC**

2016261315 Rhodia Operations The patent has been assigned to **Energy Solutions (US) LLC**

2016262734 EMERGE, LLC The patent has been assigned to **Brijjit Medical, Inc.**

2016287641 Solvay USA Inc. The patent has been assigned to **Energy Solutions (US) LLC**

**Assignments Registered**

2017208314 EMERGE, LLC The patent has been assigned to **Brijjit Medical, Inc.**

2017263183 Moudgil, Rajeev The patent has been assigned to **DPI Daylighting Private Limited**

2018201484 Rhodia Operations The patent has been assigned to **Energy Solutions (US) LLC**

2018203448 DENSO CORPORATION The patent has been assigned to **TOYOTA JIDOSHA KABUSHIKI KAISHA**

2018227567 Locus Oil IP Company, LLC The patent has been assigned to **LOCUS SOLUTIONS IPCO, LLC**

2018253564 EMERGE, LLC. The patent has been assigned to **Brijjit Medical, Inc.**

2019328154 Shenzhen Bo Li Jian Medicine Co., Ltd. The patent has been assigned to **Artivila (ShenZhen) Innovation Center, Ltd.**

2020202103 Farmobile LLC The patent has been assigned to **AGI SureTrack LLC**

2020277307 Farmobile LLC The patent has been assigned to **AGI SureTrack LLC**

2021232730 Farmobile LLC The patent has been assigned to **AGI SureTrack LLC**

**Discharge of a Mortgage**

2007229420 Discharge of a Mortgage was made in the Register on 20.03.2023 .

2008291818 Discharge of a Mortgage was made in the Register on 20.03.2023 .

2012251471 Discharge of a Mortgage was made in the Register on 20.03.2023 .

2015258706 Discharge of a Mortgage was made in the Register on 20.03.2023 .

**Extensions of Term of Standard Patents**

Extension of Term of a Standard Patent relating to Pharmaceutical Substances

**Applications Filed**

The following application(s) for Extension of Term under Section 70 have been made and are open for public inspection.

2016205435 **Eli Lilly and Company**

The earliest first regulatory approval date provided by the patentee 23 Dec 2022

For the goods MOUNJARO tirzepatide

**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.

2014318025 **Peloton Therapeutics, Inc.**

The earliest first regulatory approval date provided by the patentee 22 Dec 2022

For the goods WELIREG belzutifan

Address for service : Spruson & Ferguson Level 24, Tower 2 Darling Park, 201 Sussex Street Sydney NSW 2000 AU

**Extensions of Term of Standard Patents**

Extension of Term of a Standard Patent relating to Pharmaceutical Substances

**Applications Accepted**

2020277123 **Acerta Pharma B.V.**

The earliest first regulatory approval date provided by the patentee 13 Oct 2022

For the goods CALQUENCE acalabrutinib (as maleate)

Address for service : Davies Collison Cave Pty Ltd Level 10 301 Coronation Drive MILTON QLD 4064 AU

**Extensions granted**

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

2020201314 **Vertex Pharmaceuticals Incorporated**

The earliest first regulatory approval date provided by the patentee 09 Jul 2022

For the goods KALYDECO ivacaftor

Extension of Term of patent pursuant to Section 77 expires on 09 Jul 2028

**Corrigenda**

In Vol 36 , No 48 , Page(s) 6575 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Infinium Technologies, LLC, Application No. 2021268531, under INID (71) correct the applicant name to Infinium Technology, 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 Robert Brian Hall, Application No. 2021311089, under INID (71) correct the applicant name to STUDIO VANS LTD

In Vol 57 , No 12 , Page(s) 1737 under the heading **Amendments - Application for Amendments** Under the name NovaSignal Corp., Application No. 2019210133 correct the date of the statements filed to read 10 Feb 2023 and 10 Mar 2023

In Vol 57 , No 12 , Page(s) 1770 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name NEC Corporation, Application No. 2020460952, under INID (72) add the co-inventor WANG, Da

In Vol 57 , No 12 , Page(s) 1778 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Zico, S., Application No. 2020471946, under INID (71) correct the co-applicant name to Zuo, S.

In Vol 57 , No 8 , Page(s) 1237 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Merck Sharp & Dohme Corp.; Cocrystal Pharma, Inc., Application No. 2021315475, under INID (71) correct the applicant name to Merck Sharp & Dohme LLC; Cocrystal Pharma, Inc

In Vol 57 , No 9 , Page(s) 1396 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Prime Vector Technologies GmbH, Application No. 2021328653, under INID (54) correct the title to read Recombinant Poxviridae vector expressing co-stimulatory molecules

**Specifications Republished**

The following specifications contained errors when advertised OPI, Accepted or Certified. They have been reissued on the date of this Journal.

2021240130 **Apple Inc.**