Canadian Intellectual Property Office
An Agency of Industry Canada

Office de la propriété intellectuelle du Canada
Un organisme d'Industrie Canada

ISSN-1712-4034

The Patent Office Record

La Gazette du Bureau des brevets

Vol. 150 No. 45 November 8, 2022 Vol. 150 No. 45 le 8 novembre 2022

Canada

CIPO OPIC

THE CANADIAN PATENT OFFICE RECORD
LA GAZETTE DU BUREAU DES BREVETS

The Canadian Patent Office Record is published on Tuesday of each week under the authority of the Commissioner of Patents, Ottawa-Gatineau, Canada, to whom all communications should be addressed.

La Gazette du Bureau des brevets paraît le mardi de chaque semaine sous l'autorité du Commissaire aux brevets, Ottawa-Gatineau, Canada, à qui doit être adressée toute correspondance.

Table of Contents
Table des matières

Notices

1. Dates and Code Numerals Appearing in Patent Headings

Dates
All dates appearing in the patent headings of this publication follow the form recommended by the International Standards Organization. The four digits on the left represent the years followed by two digits each for the months and the days. For example, January 02, 1999 will be shown as 1999-01-02.

Code Numerals
The numerals within the brackets in the patent headings are INID codes. "INID" is an acronym for "Internationally agreed Numbers for the Identification of Data". These codes are utilized to identify patent bibliography as recommended by the Permanent Committee on Industrial Property Information (PCIPI) under the administration of the World Intellectual Property Organization (WIPO) based in Geneva, Switzerland.

The INID Codes and their corresponding definitions of bibliographic data elements are as follows:

[11] - Number of Patent document
[13] - Kind-of-document code
[21] - Number assigned to the Application
[22] - Date of Filing Application or
[22] - Date of filing of related divisional application
[25] - Language in which the published application was originally filed
[30] - Data relating to priority under the Paris Convention

[41] - Open to Public Inspection Date
[45] - Date of Issue
[48] - Correction Date (Re-Issued, Re-Examined)
[51] - International Classification
[52] - Domestic Classification
[54] - Title of Invention
[60] - Related by Supplementary Disclosure
[62] - Related by Division
[64] - Related by Reissue
[71] - Name(s) of Applicant(s)
[72] - Name(s) of Inventor(s)
[73] - Name(s) of Grantee(s)
[85] - National Entry Date
[86] - PCT International Filing Data
[87] - PCT International Publication data

Avis

1. Dates et chiffres de code figurant à l'entête des brevets

Dates
Toutes dates figurant aux entêtes des brevets de cette publication suivent la forme recommandée par l'Organisation des normes internationales. Les quatre chiffres de gauche représentent les années et sont suivis, vers la droite, de deux autres chiffres chacun, pour les mois et les jours. Le 2 janvier 1999, par exemple, sera représenté par 1999-01-02.

Chiffres de code
Les chiffres à l'intérieur des parenthèses aux entêtes des brevets sont des codes INID. Le sigle « INID » signifie « Identification numérique internationale des données bibliographiques » Ces codes sont utilisés pour l'indentification de la bibliographie de brevets, tel que recommandé par le Comité permanent chargé de l'information en matière de propriété industrielle (PCIPI), sous l'administration de l'Organisation mondiale de la propriété intellectuelle (OMPI), sise à Genève, Suisse.

Les codes INID accompagnés des définitions des données bibliographiques correspondantes sont comme suit :

[11] - Numéro du brevet
[13] - Désignation du type de document
[21] - Numéro attribué à la demande
[22] - Date du dépôt de la demande ou
[22] - Date du dépôt de la demande divisionnaire apparentée
[25] - Langue dans laquelle la demande publiée a été initialement déposée
[30] - Données relatives à la priorité selon la Convention de Paris
[41] - Date de mise à la disponibilité du public
[45] - Date de délivrance
[48] - Date de correction (Redélivrance, Réexamen)
[51] - Classification internationale
[52] - Classification nationale
[54] - Titre de l'invention
[60] - Apparenté par divulgation supplémentaire
[62] - Apparenté par division
[64] - Apparenté par redélivrance
[71] - Nom(s) du (des) demandeur(s)
[72] - Nom(s) de(s) l'inventeur(s)
[73] - Nom(s) du (des) titulaire(s)
[85] - Date d'entrée en phase nationale
[86] - Données du dépôt international selon le PCT
[87] - Données de publication internationale selon le PCT

2. Country Code

The Country Codes appearing in this publication conform to those contained in annex A of the *Handbook on Industrial Property Information and Documentation* published by the World Intellectual Property Organization (WIPO). This document is accessible from a link entitled Standards ST-3 on the List of WIPO Standards, Recommendations and Guidelines (Abbreviated Titles) located on the WIPO Web site: (**www.wipo.int/scit/en/standards/standards.htm**).

2. Code des pays

Les Codes des pays qui se trouvent dans cette publication sont conformes à ceux dans l'annexe A du *Manuel sur l'information et la documentation en matière de propriété industrielle* publié par l'Organisation Mondiale de la Propriété Intellectuelle (OMPI). Ce document est accessible à partir de l'hyperlien intitulé Normes ST-3 dans la Liste des normes, recommandations et principes directeurs de l'OMPI (Titres abrégés) qui se trouve au site Web de l'OMPI: (**www.wipo.int/scit/fr/standards/standards.htm**).

3. How to Purchase Paper Copies of Canadian Patents and Canadian Applications Open to Public Inspection

Paper copies of all other Canadian Patents and Canadian applications open to public inspection may be purchased at the cost of $1 per page by visiting (**www.strategis.ic.gc.ca/patentsorder**) or by writing to the Commissioner of Patents, Ottawa-Gatineau, K1A 0C9.

Item 25.1* On requesting copy in electronic form of a document:	N/A
a) for each request	$10
b) plus, for each patent or application to which the request relates	$10
c) plus, if the copy is requested on a physical medium, for each physical medium requested in addition to the first	$10
d) plus, for each additional 10 megabytes or part of them exceeding 7 megabytes	$10

3. Comment acheter des copies sur papier de brevets canadiens et de demandes canadiennes mises à la disponibilité du public

Les copies sur papier de tous les autres brevets canadiens et des demandes canadiennes mises à la disponibilité du public peuvent être achetées au coût de 1 $ par page en visitant notre site Web (**www.strategis.ic.gc.ca/brevetscommande**) ou en écrivant au Commissaire aux brevets, Ottawa-Gatineau, K1A 0C9.

Article 25.1* Demande d'une copie d'un document sous forme électronique :	S.O.
a) pour chaque demande	10 $
b) pour chaque demande de brevet ou brevet visé par la demande	10 $
c) dans le cas où le document doit être copié sur plus d'un support matériel, pour chaque support matériel additionnel	10 $
d) pour chaque tranche de 10 méga-octets qui excède 7 méga-octets, l'excédant étant arrondi au multiple supérieur	10 $

4. Orders for Patents by Class or Sub-Class

A listing of all patents that have issued in each class or sub-class including both patents in force and expired patents, may be ordered at a price of $1 per page from the Patent Office.

4. Commande de brevets par classe ou sous-classe

Les listes de brevets délivrés dans chaque classe ou sous-classe, incluant les brevets en vigueur et ceux ayant expiré, peuvent être commandées auprès du Bureau des brevets au prix de 1 $ la page.

5. Advice on Making a Patent Application

Any person intending to file a patent application may obtain an information kit upon request from the Commissioner of Patents, Ottawa-Gatineau, Canada K1A 0C9. It is recommended that applicants make use of the services of a registered Patent Agent. A list of Patent Agents in any area of Canada will also be supplied upon request.

5. Conseils relatifs à la préparation de demandes de brevets

Toute personne qui a l'intention de déposer une demande de brevet peut obtenir une trousse d'information sur demande faite au Commissaire aux brevets, Ottawa-Gatineau, Canada K1A 0C9. On recommande aux demandeurs d'avoir recours aux services d'un agent de brevets inscrit au registre. Une liste des agents de brevets dans n'importe quelle région du Canada sera également fournie sur demande.

6. Licensing of Patents

Voluntary Licences
Persons desiring to use, make or sell an invention patented in Canada should negotiate terms with the patent owner. The address of the patentee may be obtained by writing to the Commissioner of Patents, Ottawa-Gatineau, Canada, K1A 0C9. If a voluntary licence cannot be arranged, a compulsory licence may be possible.

Compulsory Licences
Three years after a patent has been granted, one may request a compulsory licence to use the patent if there has been an abuse of the exclusive right. See Sections 65 to 71 of the *Patent Act.* Applications for a compulsory licence are made to the Commissioner of Patents.

6. Octroi de licences en vertu des brevets

Licences librement accordées
Les personnes désirant utiliser, fabriquer ou vendre une invention brevetée au Canada doivent en négocier les conditions avec le titulaire du brevet. L'adresse du titulaire peut être obtenue en écrivant au Commissaire aux brevets, Ottawa-Gatineau, Canada, K1A 0C9. S'il est impossible d'obtenir une licence résultant d'un libre accord, il est peut être possible d'obtenir une licence obligatoire.

Licences obligatoires
Il est possible de faire la demande d'une licence obligatoire trois ans après l'octroi d'un brevet si les droits exclusifs qui en dérivent ont donné lieu à un abus. Voir les articles 65 à 71 de la *Loi sur les brevets*. Les demandes de licence obligatoire doivent être présentées au Commissaire aux brevets.

7. Patents Available for Licence or Sale

An asterisk (*) placed beside any patent listed in this issue of the *Canadian Patent Office Record* indicates that as of the date of grant the said patent is available for licence or sale. These and other patents now made available for licensing are included in the listing in part 8 of these notices.

7. Brevets disponibles pour licence ou vente

Un astérisque (*) marqué à côté de tout brevet inscrit dans le présent numéro de la *Gazette du bureau des brevets*, signale qu'à compter de la date de la présente publication, ledit brevet est disponible pour octroi de licence ou vente. Une liste de ces brevets et d'autres mis en disponibilité pour octroi de licence, est publiée au no. 8 des présents avis.

8. List of Patents Available for Licence or Sale

The following Canadian patents have been made available this week for sale or licensing:

None

8. Liste des brevets disponibles pour octroi de licence ou vente

Les brevets canadiens suivants ont été mis en disponibilité cette semaine pour vente ou octroi de licence :

Aucun

9. Applications Open to Public Inspection

All patent applications filed since October 1, 1989 and documents filed in connection therewith are open to public inspection at the Patent Office after the expiration of a confidentiality period of eighteen months beginning on the filing date of the application, or where a request for priority has been made in respect to the application, beginning on the priority date claimed. An application may become open to public inspection sooner at the request or with the approval of the applicant (Section 10(2) of the *Patent Act*). However, an application shall not be open for public inspection if it is withdrawn within the time set out in Section 92 of the *Patent Rules*. This time limit is two months before the expiry of the confidentiality period or where the Commissioner is able to stop technical preparations to open the application to the public at a subsequent date.

9. Demandes mises à la disponibilité du public

Toutes les demandes de brevet et documents relatifs à ceux-ci, déposés au Bureau des brevets depuis le 1er octobre 1989, peuvent y être consultées après l'expiration de la période de confidentialité de dix-huit mois à compter de la date de dépôt de la demande de brevet ou, si une demande de priorité a été présentée à l'égard de celle-ci, de la date de dépôt sur laquelle la demande de priorité est fondée. Une demande de brevet peut être consultée avant l'expiration de la période, à la requête ou sur autorisation du demandeur (article 10(2) de la *Loi sur les brevets*). Toutefois, une demande de brevet ne pourra être consultée si celle-ci est retirée à l'intérieur du délai prévu à l'article 92 des *Règles sur les brevets*. Le délai prévu est de deux mois précédant la date d'expiration de la période de confidentialité ou, lorsque le commissaire est en mesure, à une date ultérieure, d'arrêter les préparatifs techniques en vue de la consultation de cette demande.

10. Language of Published Documents

When ordering a published patent, please note that the language of the document can be identified by the language code (INID [25]) EN (English) or FR (French).

10. Langue du document publié

Toute personne intéressée à obtenir une copie d'un brevet publié doit prendre note que les codes suivants EN (Anglais) ou FR (Français) représentent (INID [25]) la langue de la copie du brevet publié.

11. Patent Cooperation Treaty (PCT) Schedule of Fees Applicable for Applications Filed on or After June 3, 2020

1. Transmittal Fee (Rule 14)	**$300**
2. International Filing Fee	**$1961***
For each additional sheet over 30	**$22**
3. International Search Fee	**$1600**

The above mentioned fees are due at time of filing of the international application, or within one month from the international filing date (date of receipt of the international application by the receiving office). These fees are to be paid in Canadian dollars and cheques should be made payable to the Receiver General for Canada.

If the fees are not paid within one month from the international filing date, the receiving office shall invite the applicant to pay the amount required, together with a late payment fee under

11. Traité de coopération en matière de brevets (PCT) barème de taxes à partir du 3 juin 2020

1. Taxe de transmission (Règle 14)	**300 $**
2. Taxe de dépôt internationale	**1961 $***
Pour chaque feuille au delà de 30	**22 $**
3. Taxe de recherche internationale	**1600 $**

Les taxes mentionnées ci-haut sont payables au moment du dépôt de la demande internationale, ou dans un délai d'un mois à compter de la date de dépôt international, (soit la date de réception de la demande internationale par l'office récepteur). Les taxes doivent être payées en dollars canadiens et les chèques sont payables au receveur général du Canada.

Si les taxes n'ont pas été payées dans un délai d'un mois à compter de la date de dépôt international, l'office récepteur invitera le demandeur à payer le montant dû, accompagné de la

Rule 16bis.2, within one month from the date of the invitation. Failure to pay the fees will result in the withdrawal of the application by the receiving office.

4. Late payment fee
50% of the fees that are due, or,
Minimum: Transmittal fee
Maximum: 50% of the international filing fee

Preliminary Examination

5. Handling fee (Rule 57.2(*a*)) **$295**

6. Preliminary examination fee (Rule 58) **$800**

* International fees will be reduced by:

- **$295** for all applications filed electronically using PCT-SAFE or ePCT (The request in character coded format).
- **$442** for all applications filed electronically using PCT-SAFE or ePCT (The request, description, claims and abstract in character coded format).

taxe pour le paiement tardif visée à la règle 16bis.2, dans un délai d'un mois à compter de l'invitation. Si vous omettez de payer les taxes, l'office récepteur retirera votre demande.

4. Taxe pour paiement tardif
50% du montant impayé, ou,
Minimum : taxe de transmission
Maximum : 50% de la taxe de dépôt international

Examen préliminaire

5. Taxe de traitement (Règle 57.2*a*)) **295 $**

6. Taxe d'examen préliminaire (Règle 58) **800 $**

* Les frais seront réduits de:

- **295 $** pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête étant en format à codage de caractères).
- **442 $** pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête, la description, les revendications et l'abrégé étant en format à codage de caractères).

12. PCT Notices

Patent Cooperation Treaty (PCT)

Copies of the *Patent Cooperation Treaty Applicants Guide* and the *Patent Cooperation Treaty & Regulations* are available from WIPO - World Intellectual Property Organization at a cost of 200 Swiss Francs and 18 Swiss Francs, respectively.

Those wishing for further information including prices for both previous and current subscriptions should contact WIPO at:

Information Products Section
Post Office Box 18
1211 Geneva 20 Switzerland
Telephone (011 41 22) 338-9618
Facsimile (011 41 22) 740-1812

or by "E-mail" (**publications.mail@wipo.int**) or visit their Web site (**www.wipo.int**).

12. Avis PCT

Traité de Coopération en matière de brevets (PCT)

Des copies du *Guide du déposant du PCT* ainsi que du *Traité et des Règlements* sont disponibles auprès de l'OMPI - Organisation mondiale de la propriété intellectuelle au coût de 200 francs suisses et 18 francs suisses, respectivement.

Les personnes qui désirent obtenir de plus amples renseignements, notamment sur le prix des abonnements antérieurs et courants, sont priées de s'adresser directement à :

l'OMPI à la Section des produits d'information
Boîte postale 18
1211 Genève 20 Suisse
Téléphone (011 41 22) 338-9618
Télécopieur (011 41 22) 740-1812

ou par courriel (**publications.mail@wipo.int**) ou visiter leur site Web (**www.wipo.int**).

13. Practice Notice

LIMITED PARTNERSHIPS CAN BE ENTERED ON THE REGISTER OF AGENTS AND ON THE LIST OF TRADE-MARK AGENTS

Note: *This practice notice is intended to provide guidance on current Patent and Trade-marks Office practice and interpretation of relevant legislation. However, in the event of any inconsistency between this notice and the applicable legislation, the legislation must be followed.*

The Patent Office and the Trade-marks Office (hereinafter jointly referred to as "the Offices") have been receiving inquiries as to whether limited partnerships are entitled to act as patent and trade-mark agents before the Offices.

With respect to the register of patent agents, section 15 of the *Patent Act* provides that a register of patent agents shall be kept in the Patent Office on which shall be entered the names of all persons and firms entitled to represent applicants in the presentation and prosecution of applications for patents or in other business before the Patent Office. Section 2 of the *Patent Rules* stipulates that the expression "patent agent" means any person or firm whose name is entered on the register of patent agents pursuant to section 15. Paragraph 15(c) of the *Patent Rules* provides that the Commissioner shall enter on the register of patent agents, on payment of the fee set out in item 33 of Schedule II, the name of **any firm, if the name of at least one member of the firm is entered on the register.**

With respect to the list of trade-mark agents, subsection 28(2) of the *Trade-marks Act* provides that the list of trade-mark agents shall include the names of all persons and firms entitled to represent applicants in the presentation and prosecution of applications for the registration of a trade-mark or in other business before the Trade-marks Office. Paragraph 21(d) of the *Trade-mark Regulations* (1996) stipulates that the Registrar shall, on written request and payment of the fee set out in item 19 of the schedule, enter on a list of trade-mark agents the name of **any firm having the name of at least one of its members entered on the list as a trade-mark agent.**

Both the patent and trade-mark legislation therefore provide that firms may act as agents before the Offices, as long as one of their members is entered on the register or list of agents. It is generally recognised that the term "firm" includes partnerships, and the Offices have already allowed general partnerships and limited liability partnerships to be entered on the register or list of agents. The Offices consider that limited partnerships are also firms, and that they are entitled to act as agents before the

13. Énoncé de pratique

LES SOCIÉTÉS EN COMMANDITE PEUVENT ÊTRE INSCRITES AU REGISTRE DES AGENTS DE BREVETS ET SUR LA LISTE DES AGENTS DE MARQUES DE COMMERCE

Nota : *Le présent énoncé de pratique a pour but de préciser les pratiques actuelles du Bureau des brevets et du Bureau des marques de commerce et l'interprétation faite par ces derniers de certaines dispositions législatives. Toutefois, en cas de divergence entre le présent énoncé et la législation applicable, c'est la législation qui prévaudra.*

Le Bureau des brevets et le Bureau des marques de commerce (ci-après appelés conjointement « les Bureaux ») ont reçu des questions à savoir si les sociétés en commandite (en anglais « limited partnerships ») ont le droit d'agir en tant qu'agents de brevets et de marques de commerce auprès des Bureaux.

En ce qui concerne le registre des agents de brevets, l'article 15 de la *Loi sur les brevets* prévoit qu'un registre des agents de brevets est tenu au Bureau des brevets sur lequel sont inscrits les noms de toutes les personnes et entreprises ayant le droit de représenter les demandeurs dans la présentation et la poursuite des demandes de brevet ou dans toute autre affaire devant le Bureau des brevets. Aux termes de l'article 2 des *Règles sur les brevets*, « agent de brevets » s'entend de toute personne ou maison d'affaires dont le nom est inscrit au registre des agents de brevets aux termes de l'article 15. L'alinéa 15c) des *Règles sur les brevets* prévoit que le commissaire inscrit au registre des agents de brevets, moyennant paiement de la taxe prévue à l'article 33 de l'annexe II, le nom de **toute maison d'affaires dont le nom d'au moins un membre est inscrit au registre des agents de brevets**.

En ce qui concerne la liste des agents de marques de commerce, le paragraphe 28(2) de la *Loi sur les marques de commerce* prévoit que la liste des agents de marques de commerce comporte les noms des personnes et études habilitées à représenter les intéressés dans la présentation et la poursuite des demandes d'enregistrement des marques de commerce et de toute affaire devant le Bureau des marques de commerce. Aux termes de l'alinéa 21d) du *Règlement sur les marques de commerce* (1996), le registraire, sur demande écrite et sur paiement du droit prévu à l'article 19 de l'annexe, inscrit sur la liste des agents de marques de commerce le nom de **toute firme dont le nom d'au moins un membre est inscrit sur la liste à titre d'agent de marques de commerce.**

La législation actuelle sur les brevets et celle sur les marques de commerce prévoient donc que des firmes peuvent agir en tant qu'agents auprès des Bureaux, à condition que l'un de leurs membres soit inscrit au registre ou à la liste des agents. Il est généralement admis que le terme « firme » inclut les sociétés (en anglais «partnerships ») et les Bureaux ont déjà autorisé des sociétés en nom collectif (en anglais « general partnerships») ainsi que des sociétés à responsabilité limitée

Offices.

Therefore, commencing immediately, the Offices will enter upon request, on the register or list of agents, limited partnerships that otherwise meet the requirements set out in the patent and trade-mark legislation.

The Offices, however, continue to consider that the current patent and trade-mark legislation do not allow corporations to be entered on the register or list of agents, since corporations do not have members and therefore cannot meet the requirements set out in paragraph 15(c) of the *Patent Rules* and paragraph 21(d) of the *Trade-mark Regulations* (1996).

(en anglais « limited liability partnerships ») à être inscrites au registre ou à la liste des agents. Les Bureaux considèrent que les sociétés en commandite sont aussi des firmes et qu'elles ont le droit d'agir en tant qu'agents auprès des Bureaux.

En conséquence, sur demande, les Bureaux inscriront désormais au registre, ou à la liste des agents, les sociétés en commandite qui répondent aux exigences de la *Loi sur les brevets et de la Loi sur les marques de commerce.*

Les Bureaux continuent toutefois de considérer que la législation actuelle sur les brevets et les marques de commerce ne permet pas aux compagnies (en anglais « corporations ») d'être inscrites au registre ou à la liste des agents, étant donné que les compagnies n'ont pas de membres et ne peuvent donc pas satisfaire aux exigences de l'alinéa 15c) des *Règles sur les brevets* et de l'alinéa 21d) du *Règlement sur les marques de commerce* (1996).

14. Correspondence Procedures

The correspondence procedures and the related practice for written communications to the Commissioner of Patents and the Patent Office under the Patent Act and the Patent Rules is outlined in Chapter 2 of the Manual of Patent Office Practice (MOPOP).

Web Link for MOPOP:
http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/h_wr00720.html

The correspondence procedures and the related practice of written communications with respect to Trademarks and to Industrial Design can be found in the Practice Notice entitled *Correspondence Procedures*, available on CIPO's website.

CIPO Web Link for correspondence procedures pertaining to Trademarks and Industrial Design:
https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/wr00633.html

Publication date: May 10, 2017
Amendment date: June 17, 2019

On this page:

14. Procédures de correspondance

Les procédures de correspondance et les pratiques connexes de communication écrite au commissaire aux brevets ou au Bureau des brevets en vertu de la Loi sur les brevets et des Règles sur les brevets seront exposées dans le chapitre 2 du Recueil des pratiques du Bureau des brevets (RPBB).

Lien Web pour le RPBB :
http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/h_wr00720.html

Les procédures de correspondance et les pratiques connexes de communication écrite concernant les marques de commerce et les dessins industriels se trouvent dans le document intitulé *Procédures de correspondance*, consultable sur le site Web de l'OPIC.

Lien Web de l'OPIC pour les procédures de correspondance relatives aux marques de commerce et aux dessins industriels :
https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/wr00633.html

Date de publication : 10 mai 2017
Date de modification : 17 juin 2019

Sur cette page :

7. Procedures when CIPO is Open to the Public but Clients are Unable to Communicate with the Office
8. Intellectual Property Acts, Rules and Regulation

7. Procédures à suivre lorsque l'Office est ouvert au public, mais les clients sont incapables de communiquer avec l'Office
8. Lois, règles et règlements sur la propriété intellectuelle

This notice is intended to clarify the practice of the Canadian Intellectual Property Office with respect to correspondence procedures and written communications and replaces all previous notices.

Le présent énoncé de pratique a pour but de préciser la pratique de l'Office de la propriété intellectuelle du Canada relativement aux procédures de correspondance et de communications écrites et remplace tout avis antérieur.

1. Physical Delivery of Correspondence and Written Communications to CIPO

For the purposes of sections 5 and 54 of the Patent Rules, subsection 10(1) of the Trademarks Regulations, section 2 of the Copyright Regulations, section 4 of the Industrial Design Regulations and section 3 of the Integrated Circuit Topography Regulations, the address of the Patent Office, the Office of the Registrar of Trademarks, the Copyright Office, the Industrial Design Office, and the Office of the Registrar of Topographies (hereinafter sometimes collectively referred to as "CIPO") is:

Canadian Intellectual Property Office
Place du Portage I
50 Victoria Street, Room C-114
Gatineau QC K1A 0C9

In accordance with subsections 5(2), 5(3), 54(1) and 54(2) of the Patent Rules, subsection 10(2) of the Trademarks Regulations, subsections 2(2) and (3) of the Copyright Regulations, subsection 5(1) of the Industrial Design Regulations and subsections 3(2) and (3) of the Integrated Circuit Topography Regulations, correspondence and written communications delivered to the above address between 8:30 a.m. to 4:30 p.m. (Eastern Time) Monday to Friday is deemed to have been received on the actual date of their delivery if they are delivered when CIPO is open to the public.

Correspondence delivered at a time when CIPO is closed to the public will be deemed or considered to have been received on the day on which CIPO is next open to the public.

Please be advised that once correspondence is received by CIPO it cannot be returned to the sender, even if the sender states that the correspondence was sent by mistake. Exceptionally, in cases where correspondence is related to a patent application that does not meet the requirements under subsection 27.1(1) of the Patent Act for obtaining a filing date, the documents will be returned to the sender.

The Fee Payment Form should always be submitted as a covering document and should be the only document submitted

1. Remise physique de correspondance et communications écrites à l'OPIC

Pour l'application des articles 5 et 54 des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, de l'article 2 du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et de l'article 3 du Règlement sur les topographies de circuits intégrés, l'adresse du Bureau des brevets, du Bureau du registraire des marques de commerce, du Bureau du droit d'auteur, du Bureau des dessins industriels, et du Bureau du registraire des topographies (ci-après parfois collectivement appelés « OPIC ») est la suivante :

Office de la propriété intellectuelle du Canada
Place du Portage I
50, rue Victoria, pièce C-114
Gatineau (Québec) K1A 0C9

Conformément aux paragraphes 5(2), 5(3), 54(1) et 54(2) des Règles sur les brevets, du paragraphe 10(2) du Règlement sur les marques de commerce, des paragraphes 2(2) et (3) du Règlement sur le droit d'auteur, du paragraphe 5(1) du Règlement sur les dessins industriels et des paragraphes 3(2) et (3) du Règlement sur les topographies de circuits intégrés, la correspondance et les communications écrites ayant été remises à l'adresse ci-dessus entre 8h30 et 16h30 (Heure de l'Est) du lundi au vendredi seront réputées avoir été reçues le jour de leur remise, si elles sont remises alors que l'OPIC est ouvert au public.

La correspondance remise lorsque les bureaux de l'OPIC sont fermés au public sera réputée avoir été reçue le jour de la réouverture de l'OPIC au public.

Veuillez prendre note qu'une fois que l'OPIC reçoit de la correspondance, celle-ci ne peut pas être retournée à l'expéditeur, même si l'expéditeur indique que la correspondance a été envoyée par erreur. Exceptionnellement, dans le cas où la correspondance vise une demande de brevet qui ne rencontre pas les exigences du paragraphe 27.1(1) de la Loi sur les brevets pour l'obtention d'une date de dépôt, les documents seront retournés à l'expéditeur.

Le formulaire de paiements des frais devrait toujours être

to CIPO that contains financial information, such as credit card numbers.

Download the Fee Payment Form.

fourni comme page couverture et devrait être le seul document soumis à l'OPIC contenant de l'information financière telle que les numéros de carte de crédit.

Téléchargez le formulaire de paiement des frais.

1.1 Designated Establishments

For the purposes of subsections 5(4) and 54(3) of the Patent Rules, subsection 10(1) of the Trademarks Regulations, subsection 2(4) of the Copyright Regulations, section 4 of the Industrial Design Regulations and subsection 3(4) of the Integrated Circuit Topography Regulations, the following are the designated establishments or designated offices to which correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be delivered **in person**. Please note that documents, payments and payment instructions delivered to the addresses listed below **must be enclosed in a sealed envelope** and that **no in person payment transactions** are processed on site. The ordinary business hours for each designated establishment are listed below.

- Innovation, Science and Economic Development Canada
  C.D. Howe Building
  235 Queen Street, Room S-143
  Ottawa ON K1A 0H5
  Tel.: 343-291-3436

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

- Innovation, Science and Economic Development Canada
  Sun Life Building
  1155 Metcalfe Street, Room 950
  Montreal QC H3B 2V6
  Tel.: 514-496-1797
  Toll-free: 1-888-237-3037

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

- Innovation, Science and Economic Development Canada
  151 Yonge Street, 4th Floor
  Toronto ON M5C 2W7
  Tel.: 416-973-5000

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday,

1.1 Établissements désignés

Pour l'application des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et du paragraphe 3(4) du Règlement sur les topographies de circuits intégrés, la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être remise **en personne** aux établissements ou bureaux désignés suivants. Veuillez prendre note que les documents, paiements et instructions de paiements remis aux adresses énumérées ci-dessous doivent être **inclus dans une enveloppe scellée** et qu'**aucune transaction de paiement en personne** n'est traitée sur place. Les heures normales d'ouverture pour chaque établissement désigné sont indiquées ci-dessous.

- Innovation, Sciences et Développement économique Canada
  Édifice C.D. Howe
  235, rue Queen, pièce S-143
  Ottawa (Ontario) K1A 0H5
  Tél. : 343-291-3436

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  Édifice Sun Life
  1155, rue Metcalfe, bureau 950
  Montréal (Québec) H3B 2V6
  Tél. : 514-496-1797
  Sans frais : 1-888-237-3037

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  151, rue Yonge, 4e étage
  Toronto (Ontario) M5C 2W7
  Tél. : 416-973-5000

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à

except statutory holiday

- Innovation, Science and Economic Development Canada
  Canada Place
  9700 Jasper Avenue, Suite 725
  Edmonton AB T5J 4C3
  Tel.: 780-495-4782
  Toll-free: 1-800-461-2646

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

- Innovation, Science and Economic Development Canada
  Library Square
  300 West Georgia Street, Suite 2000
  Vancouver BC V6B 6E1
  Tel.: 604-666-5000

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  Canada Place
  9700, avenue Jasper, pièce 725
  Edmonton (Alberta) T5J 4C3
  Tél. : 780-495-4782
  Sans frais : 1-800-461-2646

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  Library Square
  300, rue Georgia Ouest, pièce 2000
  Vancouver (C.-B.) V6B 6E1
  Tél. : 604-666-5000

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

In accordance with subsections 5(4), 5(5), 54(3) and 54(4) of the Patent Rules, subsection 10(3) of the Trademarks Regulations, subsections 2(4) and (5) of the Copyright Regulations, subsection 5(2) of the Industrial Design Regulations and subsections 3(4) and (5) of the Integrated Circuit Topography Regulations, correspondence delivered to a designated establishment on a day when CIPO is open to the public will be deemed or considered to be received on the day on which they are delivered to that designated establishment. If CIPO is closed to the public, correspondence will be deemed or considered to be received on the day on which CIPO is next open to the public. For example, if correspondence intended for CIPO is delivered to the designated establishment in Toronto on June 24, it will not be considered to be received on June 24 as CIPO is closed on that day (St-Jean-Baptiste Holiday in Quebec). It will be deemed received on the day on which CIPO is next open to the public.

Conformément aux paragraphes 5(4), 5(5), 54(3) et 54(4) des Règles sur les brevets, au paragraphe 10(3) du Règlement sur les marques de commerce, aux paragraphes 2(4) et (5) du Règlement sur le droit d'auteur, au paragraphe 5(2) du Règlement sur les dessins industriels et aux paragraphes 3(4) et (5) du Règlement sur les topographies de circuits intégrés, la correspondance remise à l'un des établissements désignés susmentionnés lorsque les bureaux de l'OPIC sont ouverts au public sera réputée ou considérée avoir été reçue le jour de leur remise à cet établissement désigné. Si les bureaux de l'OPIC sont fermés au public, la correspondance sera réputée ou considérée avoir été reçue à le jour de la réouverture de l'OPIC au public. Par exemple, la correspondance adressée à l'OPIC remise à l'établissement désigné de Toronto le 24 juin ne sera pas considérée avoir été reçue le 24 juin puisque les bureaux de l'OPIC sont fermés ce jour-là (la Saint-Jean Baptiste est un jour férié au Québec). La correspondance sera alors réputée avoir été reçue le jour de la réouverture des bureaux de l'OPIC au public.

1.2. Registered Mail™ and Xpresspost™ services of Canada Post

For the purposes of subsections 5(4) and 54(3) of the Patent Rules, subsection 3(4) of the Trade-marks Regulations, subsection 2(4) of the Copyright Regulations, subsection 3(4) of the Industrial Design Regulations and subsection 3(4) of the Integrated Circuit Topography Regulations, the Registered Mail™ and Xpresspost™ services of Canada Post are designated establishments or designated offices to which

1.2. Services Courrier recommandé^MC et Xpresspost^MC de Postes Canada

Pour l'application des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et du paragraphe 3(4) du Règlement sur les topographies de circuits intégrés, les services Courrier recommandé^MC et Xpresspost^MC de Postes Canada sont des établissements ou des

correspondence addressed to the Commissioner of Patents, the Registrar of Trade-marks, the Copyright Office or the Registrar of Topographies may be delivered.

CIPO considers that correspondence delivered through the Registered Mail™ and Xpresspost™ services of Canada Post is received by CIPO on the day indicated on the mailing receipt provided by Canada Post, or if CIPO is closed for business on that day, on the day when CIPO is next open for business.

bureaux désignés auxquels la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être remise.

L'OPIC considère que la correspondance remise par l'entremise des services Courrier recommandé^MC et Xpresspost^MC de Postes Canada sont reçus par l'OPIC le jour indiqué sur le reçu de confirmation de Postes Canada, en autant que l'OPIC soit ouvert au public ce jour-là. Si l'OPIC est fermé au public ce jour-là, la correspondance sera réputée ou considérée avoir été reçue le jour de réouverture de l'OPIC au public.

2. Electronic Correspondence

For the purposes of section 8.1 of the Patent Act, subsection 64(1) of the Trademarks Act, subsection 24.1(1) of the Industrial Design Act and in accordance with subsections 5(6), 54(5), and 68(3) of the Patent Rules, subsection 10(4) of the Trademarks Regulations, subsection 2(6) of the Copyright Regulations, subsection 10(3) of the Industrial Design Regulations, and subsection 3(6) of the Integrated Circuit Topography Regulations, correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be sent by facsimile, online or on an electronic medium only as provided in the current notice.

In accordance with subsection 54(5) of the Patent Rules, the request for national entry is the only correspondence addressed to the Commissioner in respect of an international application that can be submitted online or on an electronic medium with the exception of sequence listings, applications prepared using the PCT-SAFE software or prepared using WIPO's ePCT online service as specified in the current notice. Other correspondence submitted online or on an electronic medium in respect of international applications that have not entered the national phase will not be accepted.

Subsection 10(5) of the Trademarks Regulations specifies certain categories of correspondence to which the provisions of subsection 10(4) do not apply.

Correspondence sent by facsimile or online to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies constitutes the original, therefore a duplicate paper copy should not be forwarded.

Correspondence delivered to the Commissioner of Patents by electronic means of transmission, including facsimile, will be considered to be received on the day that it is transmitted if delivered and received before midnight local time at CIPO on a day when CIPO is open for business. When CIPO is closed for business, correspondence delivered on that day will be considered to be received on the next day on which CIPO is

2. Correspondance électronique

Pour l'application de l'article 8.1 de la Loi sur les brevets, du paragraphe 64(1) de la Loi sur les marques de commerce, du paragraphe 24.1(1) de la Loi sur les dessins industriels, et conformément aux paragraphes 5(6), 54(5) et 68(3) des Règles sur les brevets, au paragraphe 10(4) du Règlement sur les marques de commerce, au paragraphe 2(6) du Règlement sur le droit d'auteur, au paragraphe 10(3) du Règlement sur les dessins industriels et au paragraphe 3(6) du Règlement sur les topographies de circuits intégrés, la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être transmise par télécopieur, en ligne ou à l'aide d'un support électronique et ce, seulement de la manière indiquée dans le présent énoncé.

Conformément au paragraphe 54(5) des Règles sur les brevets, la demande d'entrée en phase nationale d'une demande internationale est la seule correspondance adressée au commissaire qui peut être présentée en ligne ou sur support électronique, à l'exception des listages de séquences, des demandes préparées à l'aide du logiciel PCT-SAFE ou préparées à l'aide du service en ligne ePCT de l'OMPI, tel qu'indiqué dans le présent avis. Toute autre correspondance présentée en ligne ou sur support électronique relativement à des demandes internationales qui ne sont pas entrées dans la phase nationale ne sera pas acceptée.

Le paragraphe 10(5) du Règlement sur les marques de commerce prévoit certaines catégories de correspondance auxquelles les dispositions du paragraphe 10(4) ne s'appliquent pas.

La correspondance envoyée par télécopieur ou en ligne au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies constitue une version originale. Par conséquent, un duplicata sur support papier ne devrait pas être expédié.

La correspondance livrée au commissaire aux brevets et reçue par voie électronique, y compris par télécopieur, est considérée comme ayant été reçue à l'OPIC le jour même de sa transmission, si elle est livrée avant minuit, heure locale,

open for business.

Correspondence delivered to the Registrar of Trademarks or the Industrial Design Office by electronic means of transmission, including facsimile, is deemed to have been received on the day on which CIPO receives it (Eastern Time).

lorsque les bureaux de l'OPIC sont ouverts au public. Si elle est transmise un jour où les bureaux de l'OPIC sont fermés au public, elle est considérée comme ayant été reçue à la date du jour d'ouverture suivant de l'OPIC.

La correspondance fournie au registraire des marques de commerce ou transmise au Bureau des dessins industriels par voie électronique, y compris par télécopieur, est réputée avoir été reçue le jour ou l'OPIC l'a reçue (Heure de l'Est).

2.1 Facsimile

Black and white facsimile correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be sent to the following facsimile numbers:

(819) 953-CIPO (2476) or (819) 953-OPIC (6742)

Colour facsimile correspondence addressed to the Registrar of Trademarks or the Industrial Design Office **must** be sent to the following facsimile number:

(819) 934-3833

Note that the model of facsimile is a Xerox C505/X and that this information may be needed to ensure a successful colour transmission.

Facsimile correspondence that is sent to any facsimile number other than those indicated above, including those of a designated establishment, will be considered not to have been received.

Evidence submitted by facsimile in respect of an opposition or section 45 proceeding **will not be accepted** due to issues such as the often-poor quality of transmission, the risk of incomplete transmission and the voluminous nature of the documents.

The electronic transmittal report returned to you following your facsimile transmission will constitute your acknowledgment receipt. Confidentiality of the facsimile transmission process cannot be guaranteed. Please note that CIPO strongly discourages the use of a computer facsimile interface or internet-based facsimile services due to technical issues with reception.

When submitting by facsimile a document that also has a fee requirement, notification of the preferred mode of payment to be applied must be prominently displayed on the Fee Payment Form to ensure expedient processing.

2.1 Correspondance par télécopieur

La correspondance en noir et blanc par télécopieur adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être transmise aux numéros ci-dessous :

819-953-OPIC (6742) ou 819-953-CIPO (2476)

La correspondance en couleur par télécopieur (modèle **:** Xerox C505/X) adressée au registraire des marques de commerce ou au Bureau des dessins industriels doit être transmise au numéro ci-dessous :

(819) 934-3833

À noter que le modèle de télécopieur est un Xerox C505/X; information qui peut être nécessaire afin de compléter une transmission en couleur.

La correspondance qui est transmise par télécopieur à tout autre numéro de télécopieur que ceux qui sont indiqués ci-dessus, y compris ceux d'établissements désignés, sera considérée comme n'ayant pas été reçue.

Les éléments de preuve présentés par télécopieur dans le cadre d'une procédure d'opposition ou de radiation en vertu de l'article 45 de la Loi **ne seront pas acceptés** en raison des inconvénients reliés à la mauvaise qualité de la transmission, au risque que la transmission soit incomplète et à la nature volumineuse de ces documents.

Le rapport de transmission électronique que vous recevrez après votre transmission par télécopieur constituera votre accusé de réception. La confidentialité du processus de transmission électronique ne peut pas être garantie. Veuillez noter que l'OPIC décourage fortement l'utilisation d'une interface de télécopie par ordinateur ou de services de télécopie par le biais d'internet étant donné les problèmes techniques probables avec la réception.

Lors de la transmission par télécopieur d'un document comprenant une demande d'acquittement de droit ou taxe, il faut clairement indiquer le mode de paiement préféré sur le formulaire de paiements des frais afin d'assurer un traitement rapide.

Patents

The document presentation requirements set out in sections 69 and 70 of the Patent Rules apply to facsimile correspondence.

Brevets

Les exigences relatives à la présentation des documents énoncées aux articles 69 et 70 des Règles sur les brevets s'appliquent à la correspondance par télécopieur.

2.2 Online

Correspondence addressed to the Commissioner of Patents, the Registrar of Trade-marks, the Copyright Office or the Registrar of Topographies may be sent electronically using the relevant links below.

2.2 En ligne

La correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur ou au registraire des topographies peut être transmise par voie électronique.

Patents

For the purpose of subsection 5(6) of the Patent Rules, correspondence addressed to the Commissioner may be sent electronically by accessing the following pages:

- filing an application (regular application);
- filing a request for national entry;
- filing an international application (PCT Safe or ePCT);
- general correspondence relating to applications and patents;
- maintaining the name of a patent agent on the register of patent agents; and
- ordering copies in paper, or electronic form of a document.

Brevets

Pour l'application du paragraphe 5(6) des Règles sur les brevets, la correspondance adressée au commissaire peut être envoyée par voie électronique, notamment en accédant aux pages suivantes :

- déposer une demande (demande régulière);
- déposer une demande d'entrée dans la phase nationale;
- déposer une demande internationale (PCT Safe ou ePCT);
- correspondance générale concernant des demandes et des brevets;
- maintien du nom d'un agent de brevets dans le registre des agents de brevets;
- commande de copies papier ou d'un document sous forme électronique.

Canada as Receiving Office Under the PCT: PCT-SAFE

Pursuant to PCT Rule 89bis, CIPO, in its role as a receiving Office, accepts the electronic filing of an international application prepared using the latest version of the WIPO's PCT-Safe software and applications prepared using WIPO's ePCT online service. Filing in both cases must be done using CIPO's International Filing e-service, called PCT E-Filing.

Note: Correspondence related to PCT international applications can not be sent electronically to CIPO. Correspondence may be sent by mail, by facsimile or delivered by hand to CIPO or to a designated establishment.

Le Canada comme office récepteur au titre du PCT : PCT-SAFE et ePCT

Conformément à la Règle 89bis du PCT, l'OPIC, à titre d'office récepteur, accepte le dépôt d'une demande internationale préparée à l'aide de la plus récente version du logiciel PCT-SAFE de l'OMPI, et d'une demande préparée à l'aide du service en ligne ePCT de l'OMPI. Dans les deux cas, le dépôt doit se faire à l'aide du service électronique de dépôt de demandes internationales de l'OPIC, appelé Dépôt en ligne de demandes PCT.

Note: La correspondance liée aux demandes internationales PCT ne peut être envoyée par voie électronique à l'OPIC. La correspondance peut être envoyée par courrier, par télécopieur ou remis en mains à l'OPIC ou à un établissement désigné.

Trademarks

For the purpose of subsection 10(4) of the Trademarks Regulations, the following correspondence addressed to the Registrar of Trademarks may be sent electronically by

Marques de commerce

Pour l'application du paragraphe 10(4) du Règlement sur les marques de commerce, la correspondance adressée au registraire des marques de commerce peut être envoyés par voie électronique, notamment en accédant aux pages suivantes

accessing the following pages:

- filing a new or revised trademark application;
- renewal of a trademark registration;
- request to enter a name on the list of trademark agents;
- annual renewal of a trademark agent;
- requesting copies of trademark documents;
- registration of a trademark application;

For the purpose of subsection 10(4) of the Trademarks Regulations, correspondence addressed to the Registrar of Trademarks in the context of opposition and section 45 proceedings may be sent electronically by accessing the Trademarks Opposition Board's online web application:

Opposition proceedings before the Trademarks Opposition Board

- filing a statement of opposition;
- filing of a counter statement;
- submission of the opponent's evidence, or statement;
- submission of the applicant's evidence, or statement;
- submission of the opponent's reply evidence;
- submission of the opponent's written representations, or statement;
- submission of the applicant's written representations, or statement;
- filing a request for a hearing; and
- requesting an extension of time.

Section 45 proceedings before the Trademarks Opposition Board

- filing a request for a section 45 notice;
- submission of the registered owner's evidence;
- submission of the requesting party's written representations, or statement;
- submission of the registered owner's written representations, or statement;
- filing a request for a hearing; and
- requesting an extension of time.

:

- nouvelle demande ou demande modifiée d'enregistrement de marque de commerce;
- renouvellement de l'enregistrement d'une marque de commerce;
- demande d'inscription d'un nom à la liste des agents de marques de commerce;
- renouvellement annuel d'un agent de marques de commerce;
- commande de copies de documents de marques de commerce,
- l'enregistrement d'une marque de commerce

Pour l'application du paragraphe 10(4) du Règlement sur les marques de commerce, la correspondance adressée au registraire des marques de commerce dans le cadre des procédures d'opposition ou de radiation en vertu de l'article 45 peut être envoyée par voie électronique en accédant à l'application web en ligne de la Commission des oppositions des marques de commerce.

Procédures d'opposition devant la Commission des oppositions des marques de commerce

- production d'une déclaration d'opposition;
- Production d'une contre-déclaration d'opposition;
- Production de la preuve de l'opposant, ou d'une déclaration;
- Production de la preuve du requérant, ou d'une déclaration;
- Production de la contre-preuve de l'opposant;
- Production des arguments écrits de l'opposant, ou déclarations;
- Soumission des arguments écrits du requérant, ou déclarations;
- Produire une demande pour une audience; et
- demande de prolongation de délai.

Procédures en vertu de l'article 45 devant la Commission des oppositions des marques de commerce

- Production d'une demande pour un avis en vertu de l'article 45;
- Production de la preuve du propriétaire inscrit;
- Production des arguments écrits de la demanderesse, ou déclaration;
- Production des arguments écrits du propriétaire inscrit, ou déclaration;
- Produire une demande pour une audience; et
- Demande de prolongation de délai.

For the purpose of subsection 2(6) of the Copyright Regulations, the following correspondence addressed to the Copyright Office may be sent electronically, by accessing the following pages:

- application for registration of a copyright in a work,
- application for registration of a copyright in a performer's performance, sound recording or a communication signal;
- filing a grant of interest;
- request for certificate of correction;
- ordering copies in paper, or electronic form of a document; and
- general correspondence relating to copyright.

Pour l'application du paragraphe 2(6) du Règlement sur le droit d'auteur, la correspondance indiquée ci-dessous qui est adressée au Bureau du droit d'auteur peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- demande d'enregistrement d'un droit d'auteur sur une œuvre,
- demande d'enregistrement d'un droit d'auteur sur une prestation, un enregistrement sonore ou un signal de communication;
- dépôt d'une concession d'intérêt;
- demande de certificat de correction;
- commande de copies des documents papier ou électroniques et
- correspondance générale relative aux droits d'auteur.

Industrial Designs

For the purpose of subsection 24.1(1) of the Industrial Design Act, the following correspondence addressed to the Industrial Design Office may be sent electronically, by accessing the following pages:

- application for registration of an industrial design;
- ordering copies in paper, or electronic form of a document;
- general correspondence relating to industrial designs; and
- payment of industrial design maintenance fees.

Dessins industriels

Pour l'application du paragraphe 24.1(1) de la Loi sur les dessins industriels, la correspondance indiquée ci-dessous qui est adressée au Bureau des dessins industriels peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- demande d'enregistrement d'un dessin industriel;
- commande de copies de documents papier ou électroniques;
- correspondance générale relative aux dessins industriels; et
- paiement des droits de maintien des dessins industriels.

Integrated Circuit Topographies

For the purpose of subsection 3(6) of the Integrated Circuit Topography Regulations, the following correspondence addressed to the Registrar of Topographies may be sent electronically, by accessing the following page:

- general correspondence relating to integrated circuit topographies.

Topographies de circuits intégrés

Pour l'application du paragraphe 3(6) du Règlement sur les topographies de circuits intégrés, la correspondance indiquée ci-dessous qui est adressée au registraire des topographies peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- correspondance générale relative aux topographies de circuits intégrés.

2.3 Electronic medium

Note: all electronic media must be free of worms, viruses or other malicious content. Files with malicious content will be deleted.

2.3 Supports électroniques

Note : Les supports électroniques doivent être exempts de ver informatique, de virus, ou de tout autre contenu malveillant. Les fichiers qui comprennent du contenu malveillant seront supprimés.

Brevets

Patents

The Patent Office will accept correspondence on various types of electronic medium as specified below. The electronic medium should contain a table of contents and be provided with a cover letter, which will be date stamped by CIPO and placed in the application file. Filing date requirements prescribed in the Patent Rules still remain.

When submitted on an electronic medium, the parts of the application must be logically broken down in files, which are no larger than 25 megabytes.

With regards to sequence listings under Rule 111 of the Patent Rules, the electronic medium must be separate from any electronic medium which may be filed containing parts of the application itself or amendment(s) thereof.

Le Bureau des brevets acceptera la correspondance transmise à l'aide de divers supports électroniques, tel qu'indiqué ci-dessous. Le support électronique devrait contenir une table des matières et être accompagné d'une lettre explicative, laquelle sera datée par l'OPIC et placée dans le dossier de la demande. Les exigences relatives à la date de dépôt énoncées dans les Règles sur les brevets resteront applicables.

Les parties d'une demande qui sont présentées sur support électronique doivent être logiquement réparties en fichiers de 25 mégaoctets au maximum.

En ce qui concerne les listages des séquences prévus à l'article 111 des Règles sur les brevets, le support électronique doit être distinct de tout support électronique qui peut être déposé et qui contient des parties de la demande elle-même ou des modifications relatives à la demande.

Canada as Receiving Office Under the PCT: Electronic Filing of Sequence Listings

Pursuant to PCT Rules 89bis and 89ter, and in accordance with Part 7 of the PCT Administrative Instructions, where an international application contains disclosure of one or more nucleotide and/or amino acid sequence listings, CIPO, in its role as a receiving Office, accepts that the sequence listing part of the description and/or any table related to the sequence listing(s) be filed, at the option of the applicant:

i. only on an electronic medium in electronic form in accordance with section 702 of Part 7 of the PCT Administrative Instructions; or
ii. both on an electronic medium in electronic form and on paper in accordance with section 702 of Part 7 of the PCT Administrative Instructions;

provided that the other elements of the international application are filed as otherwise provided for under the PCT.

The sequence listing part of an international application filed in electronic form and related tables filed in electronic form shall comply with the relevant provisions of Annex C and C-bis of the PCT Administrative Instructions respectively.

For this purpose the Canadian receiving Office will accept any electronic media specified in Annex F of the PCT Administrative Instructions. Where both the sequence listing and the tables are filed in electronic form, the listing and the tables shall be contained on separate electronic media, which shall contain no other programs or files.

For the purpose of processing the international application, the Canadian receiving Office requires two (2) additional copies of

Le Canada comme office récepteur au titre du PCT : Dépôt électronique des listages de séquences

Conformément aux Règles 89bis et 89ter du PCT et à la Partie 7 des Instructions administratives du PCT, lorsqu'une demande internationale contient la divulgation d'un ou de plusieurs listages des séquences de nucléotides et/ou d'acides aminés, à titre d'office récepteur l'OPIC accepte le dépôt de la partie de la description contenant les listages des séquences et/ou de tout tableau relatif aux listages des séquences et ce, à la discrétion du requérant :

i. seulement sous forme électronique et sur support électronique, conformément à l'article 702 de la Partie 7 des Instructions administratives du PCT, ou

ii. sur support papier et sur support électronique sous forme électronique, conformément à l'article 702 de la Partie 7 des Instructions administratives du PCT,

à condition que les autres éléments de la demande internationale soient déposés conformément aux dispositions du PCT.

Dans une demande internationale déposée sous forme électronique, la partie qui contient le listage des séquences et les tableaux connexes seront conformes aux dispositions pertinentes de l'Annexe C et de l'Annexe C-bis des Instructions administratives du PCT, respectivement.

À cette fin, l'office récepteur canadien acceptera tout support électronique prévu à l'Annexe F des Instructions administratives du PCT. Lorsque le listage des séquences et les tableaux sont déposés sous forme électronique, ils le seront sur des supports électroniques distincts ne contenant pas d'autres programmes ni fichiers.

the electronic media containing the sequence listing and/or tables in electronic form, accompanied by a statement that the sequence listings and/or tables contained in the copies are identical to those in electronic form as filed.

For further details concerning the filing of sequence listings and/or tables in electronic form, including the labeling of the electronic media and the calculation of the international filing fee, refer to section 7 of the PCT Administrative Instructions.

Aux fins du traitement de la demande internationale, l'office récepteur canadien exige deux (2) copies supplémentaires du support électronique contenant le listage de séquences et/ou les tableaux sous forme électronique, accompagnées d'une déclaration indiquant que le listage des séquences et/ou les tableaux contenus dans les copies sont identiques à ceux qui ont été déposés sous forme électronique.

On trouvera à l'article 7 des Instructions administratives du PCT des détails supplémentaires sur le dépôt de listages des séquences et/ou de tableaux sous forme électronique, notamment sur l'étiquetage des supports électroniques et le calcul de la taxe de dépôt internationale.

Electronic Media accepted by the Patent Office

The Patent Office will accept 3.5 inch diskette, CD-ROM, CD-R, DVD, DVD-R and any format as specified in Annex F of the PCT Administration Instructions.

Trademarks and Industrial Design

The Office of the Registrar of Trademarks and the Industrial Design Office will accept the following types of electronic media: CD-ROM, CD-R, DVD, DVD-R, and USB stick.

Supports électroniques acceptés par le Bureau des brevets

Le Bureau de brevets acceptera des disquettes 3,5 pouces, CD-ROM, CD-R, DVD, DVD-R et tout format spécifié à l'Annexe F des Instructions administratives du PCT.

Marques de commerce et dessins industriels

Le Bureau du registraire des marques de commerce et le Bureau des dessins industriels acceptent les supports électroniques suivants : CD ROM, CD-R, DVD, DVD-R, et clé USB.

3. Details Concerning the Electronic Formats Accepted

Patents

In accordance with section 8.1 of the Patent Act, and for the purposes of subsections 5(6), 54(5), and 68(3) of the Patent Rules, the acceptable file formats for documents submitted electronically site using the relevant links set out in section 2.2 of these correspondence procedures or on electronic media are TIFF and PDF. In order to get a correspondence date, the office will accept documents initially filed in other formats provided they are viewable with the software "Stellent Quick View Plus 8.0.0". In these cases, the office will request the documents to be replaced by documents in PDF or TIFF and the submission of a statement to the effect that the replacement documents are the same as the documents initially filed.

Sequence listings can be initially provided in TIFF, PDF or in ASCII file formats. However, as a completion requirement according to section 94 of the Patent Rules, a sequence listing in the ASCII format compliant with the "PCT sequence listing standard" has to be submitted. Therefore, CIPO encourages applicants to submit the sequence listings in the ASCII format in the first place.

When applicable, the Patent Office will accept files in the

3. Précisions concernant les formats électroniques acceptés

Brevets

Conformément à l'article 8.1 de la Loi sur les brevets et aux fins des paragraphes 5(6), 54(5) et 68(3) des Règles sur les brevets, les formats de fichiers acceptables pour les documents présentés par voie électronique en utilisant les liens spécifiés à l'article 2.2 des présentes procédures de correspondance ou sur support électronique sont les formats TIFF et PDF. Pour qu'une date de correspondance soit attribuée, le Bureau acceptera des documents initialement déposés dans d'autres formats à condition qu'ils soient consultables à l'aide du logiciel « Stellent Quick View Plus 8.0.0 ». Dans de tels cas, le Bureau exigera le remplacement des documents par des fichiers en format PDF ou TIFF, ainsi qu'une déclaration indiquant que ces fichiers sont identiques aux documents initialement déposés.

Les listages des séquences peuvent être initialement déposés sous forme de fichiers TIFF, PDF ou ASCII. Toutefois, afin de compléter la demande, conformément à l'article 94 des Règles sur les brevets, un listage des séquences en format ASCII conforme à la Norme PCT de listage des séquences devra être présenté. L'OPIC encourage donc les demandeurs à déposer les listages de séquences en format ASCII dès le départ.

TIFF, PDF and ASCII format when they comply with the following specifications:

TIFF Format:

- TIFF CCITT Group 4, single or multi-page, black and white;
- Resolution of either 300 or 400 dpi;
- The dimensions of the scanned/stored images should match that of the paper requirements, namely 8 ½" by 11" or A4.

PDF Format:

- Adobe Portable Document Format Version 1.4 compatible;
- Non-compressed text to facilitate searching;
- Unencrypted text;
- No embedded OLE objects;
- All fonts must be embedded and licensed for distribution.

ASCII

- Shall be encoded using IBM Code Page 437, IBM Code Page 932 or a compatible code page.

Le cas échéant, le Bureau des brevets acceptera des fichiers en format TIFF, PDF et ASCII s'ils sont conformes aux spécifications suivantes :

Format TIFF

- TIFF CCITT Groupe 4, une ou plusieurs pages, noir et blanc
- Résolution : 300 ou 400 ppp
- Les dimensions des images balayées par scanner ou mémorisées doivent être compatibles avec celles qui sont requises pour les papiers, soit 8 1/2 po par 11 po ou A4.

Format PDF

- Compatible avec Adobe Portable Document Format Version 1.4
- Texte non comprimé, pour faciliter la recherche
- Texte non chiffré
- Pas d'objets OLE incorporés
- Toutes les polices de caractère doivent être incorporées et leur distribution doit être autorisée.

ASCII

- Le texte sera encodé à l'aide des pages de codes IBM 437 ou IBM 932 ou d'une page de codes compatible.

Trademarks

For the purposes of subsection 64(1) of the Trademarks Act, the acceptable file formats for documents submitted electronically using the relevant links set out in section 2.2 of these correspondence procedures are: PNG, TIFF, JPEG, GIF, MP3, MP4, PDF, BMP and Doc.

Industrial Design

For the purposes of subsection 24.1(1) of the Industrial Design Act, the acceptable file formats for documents, other than a representation of a design, submitted electronically are WPD, DOC, DOCX and PDF. The acceptable file formats for the representation of a design are PDF, JPEG, TIFF and GIF. The file size limit is of 60MB for PDF, 10MB for the other file formats. The scanned/stored images should be of a resolution of at least 300 dpi and the dimensions must be of 21.59 cm by 27.94 cm (8.5 in by 11 in).

Note that the conversion of files to an acceptable format may result in a change to the quality of the drawings.

Marques de commerce

Pour l’application du paragraphe 64(1) de la Loi sur les marques de commerce, les formats de fichiers acceptables pour les documents fournis par un moyen électronique énoncé à la section 2.2 des présentes procédures de correspondance sont : PNG, TIFF, JPEG, GIF, MP3, MP4, PDF, BMP et Doc.

Dessins industriels

Pour l’application du paragraphe 24.1(1) de la Loi sur les dessins industriels, les formats de fichiers acceptables pour les documents autres que la représentation d’un dessin, transmis par voie électronique sont : WPD, DOC, DOCX, PDF. Les formats de fichiers acceptables pour la représentation d’un dessin sont PDF, JPEG, TIFF, et GIF. La taille maximale est de 60MB pour le format PDF et de 10MB pour tout autre format. L’image numérisée/stockée devrait être dans une résolution d’au moins 300 dpi et les dimensions doivent être de 21,59 cm par 27,94 cm (8,5 po par 11po)

Veuillez noter que la conversion de fichiers vers un format acceptable pourrait résulter en un changement à la qualité des dessins.

4. General Information

General information may be obtained by communicating with CIPO's Client Service Centre.

4. Renseignements généraux

Des renseignements généraux peuvent être obtenus en communiquant avec le Centre de services à la clientèle de l'OPIC.

5. Time Period Extensions

- Time period extensions under the Patent, Trademarks and Industrial Design Acts
- Time period extensions under the Copyright and Integrated Circuit Topography Acts
- Time period extensions under the Patent Cooperation Treaty
- Time period extensions under the Madrid Protocol and the Hague Agreement

5. Prorogation des délais

- Prorogation des délais en vertu des les Lois sur les brevets, les marques de commerce, et les dessins industriels
- Prorogation des délais en vertu des les Lois sur le droit d'auteur et les topographies de circuits intégrés
- Prorogation des délais en vertu du le Traité de coopération en matière de brevets
- Prorogation des délais en vertu du Protocole de Madrid et de l'Arrangement de La Haye

Time period extensions under the Patent, Trademarks and Industrial Design Acts

For the purposes of subsection 78(1) of the Patent Act, subsection 66(1) of the Trademarks Act, and subsection 21(1) of the Industrial Design Act, any time period fixed under those Acts and ending on 1) a **prescribed day** set out in the list below or 2) a **designated day** on account of unforeseen circumstances, will be extended to the next day that is not a prescribed day or a designated day and where CIPO is open to the public.

Designated days are those days that are designated by the Commissioner, the Registrar, or the Minister, on account of unforeseen circumstances and if they are satisfied that it is in the public interest to do so. If a day is designated, the public will be informed of that fact on CIPO's website.

Prescribed days under the Patent Act, Trademarks Act and Industrial Design Act are as follows:

- Every Saturday and Sunday;
- New Year's Day (January 1)*;
- Good Friday;
- Easter Monday;
- Victoria Day: First Monday immediately preceding May 25;
- St. Jean Baptiste Day (June 24)*;
- Canada Day (July 1)*;
- The first Monday in August;***
- Labour Day: First Monday in September;
- Thanksgiving Day: Second Monday in October;

Prorogation des délais prévus par les Lois sur les brevets, les marques de commerce, et les dessins industriels

Pour l'application du paragraphe 78(1) de la Loi sur les brevets, du paragraphe 66(1) de la Loi sur les marques de commerce, et du paragraphe 21(1) de la Loi sur les dessins industriels, tout délai fixé sous le régime de ces lois et qui expire 1) un **jour prescrit ou règlementaire** tel qu'indiqué dans la liste ci-dessous, ou 2) un **jour désigné** en raison de circonstances imprévues, sera prorogé jusqu'au jour suivant qui n'est ni un jour prescrit ni un jour désigné et où l'OPIC est ouvert au public.

Les **jours désignés** sont les jours désignés par le commissaire, le registraire, ou le ministre, où, en raison de circonstances imprévues, s'il est dans l'intérêt public de le faire. Si un jour est désigné, le public en sera informé sur le site web de l'OPIC.

Les **jours prescrits ou règlementaires** en vertu de la Loi sur les brevets, de la Loi sur les marques de commerce et de la Loi sur les dessins industriels sont les suivants :

- Tous les samedis et dimanches;
- Nouvel An (1er janvier)*;
- Vendredi Saint;
- Lundi de Pâques;
- Fête de la Reine ou Journée nationale des patriotes : Premier lundi immédiatement avant le 25 mai;
- Saint-Jean-Baptiste (24 juin)*;
- Fête du Canada (1er juillet)*;
- Le premier lundi du mois d'août***;
- Fête du travail : Premier lundi du mois de septembre;

- Remembrance Day (November 11)*;
- Christmas Day (December 25)**;
- Boxing Day (December 26)** ;
- Any day on which CIPO is closed to the public for all or part of that day during ordinary business hours.

*In the case of New Year's Day, St. Jean Baptiste Day, Canada Day and Remembrance Day, if the day falls on a Saturday or Sunday, deadlines will be extended to the following Tuesday.

**If December 25 falls on a Friday, deadlines will be extended to the following Tuesday. If December 25 falls on a Saturday or Sunday, any time periods ending on December 25 or December 26 will be extended to the following Wednesday.

***Please note that the Office is open to the public on the first Monday in August. Any time period which expires on that day will be extended to the next day the Office is open to the public (first Tuesday in August). However, any correspondence or fees submitted to the Office on that day will be deemed or considered received on that day.

Extensions for prescribed days occur regardless of place of residence or of the establishment to which documents are delivered.

Please be aware that not all provincial and territorial holidays are days where deadlines are extended. It is recommended that clients be mindful and ensure that all deadlines are respected.

- Action de Grâce : Deuxième lundi du mois d'octobre;
- Jour du Souvenir (11 novembre)*;
- Jour de Noël (25 décembre)**;
- Lendemain de Noël** ;
- Tout jour où l'OPIC est fermé au public pendant tout ou une partie des heures normales d'ouverture de l'OPIC au public.

*Si le Nouvel An, la Saint-Jean-Baptiste, la Fête du Canada, ou le Jour du Souvenir est un samedi ou un dimanche, les délais seront prorogés au mardi suivant.

**Si le 25 décembre est un vendredi, les délais seront prorogés au mardi suivant. Si le 25 décembre est un samedi ou un dimanche, les délais seront prorogés au mercredi suivant.

***Veuillez noter que les Bureaux sont ouverts au public le premier lundi du mois d'août. Tout délai qui expire ce jour-là sera prorogé au prochain jour ouvrable (premier mardi du mois d'août). Cependant, toute correspondance, droits ou taxes fournis au Bureau ce jour-là seront réputés ou considéré avoir été reçus à cette date.

La prorogation de délai concernant les jours prescrits ou règlementaires s'appliquent nonobstant du lieu de résidence ou du lieu de l'établissement auquel les documents ont été remis.

Veuillez noter que ce ne sont pas tous les jours fériés provinciaux ou territoriaux qui sont des jours prescrits ou règlementaires pour lesquels un délai peut être prorogé. Il est recommandé que les clients soient attentifs et s'assurent que tout délai soit respecté.

Time period extensions under the Copyright and Integrated Circuit Topography Acts

In accordance with section 26 of the Interpretation Act, any person choosing to deliver a document to CIPO or a designated establishment (including the Registered Mail™ and Xpresspost™ services of Canada Post) where a federal, provincial or territorial holiday exists, is entitled to an extension of any time limit for the filing of the document that expires on the holiday, until the next day that is not a holiday. It is to be noted, in respect of provincial and territorial holidays, that the entitlement to the extension is dependent on the establishment to which the document is delivered and not on the place of residence of the person for whom the document is filed or of their agent. For this purpose, documents transmitted to CIPO by electronic means, including by facsimile, would be considered to be delivered to CIPO's offices in Gatineau, Quebec.

CIPO has no practical way of keeping track of the establishment to which documents are delivered. Accordingly,

Prorogation des délais prévus par les Lois sur le droit d'auteur et sur les topographies de circuits

Selon l'article 26 de la Loi d'interprétation, lorsqu'une personne choisit de livrer un document à l'OPIC ou à un établissement désigné (y compris un bureau régional d'Innovation, Sciences et Développement économique Canada ou le service Courrier recommandé℠, ou par Xpresspost℠ de Postes Canada) dans une province où il y a un jour férié fédéral, provincial ou territorial, tout délai fixé pour le dépôt du document, qui expire un jour férié peut être prorogé jusqu'au jour non férié suivant. Dans le cas d'un jour férié provincial ou territorial, il convient de souligner que le droit à la prorogation dépend de l'établissement auquel le document est livré et non du lieu de résidence de la personne pour laquelle le document est déposé ou de son agent. À cet égard, les documents envoyés à l'OPIC par un moyen électronique, y compris par télécopieur, sont réputés être livrés aux bureaux de l'OPIC à Gatineau, au Québec.

En pratique, l'OPIC n'a aucun moyen de faire le suivi relativement aux établissements auxquels des documents sont

where a person has a time limit for the filing of a document that expires on a provincial or territorial holiday but only delivers the document on the next day that is not a holiday, CIPO will assume that the document was delivered to an establishment that would justify an extension of the time limit. In such circumstances, it will be the responsibility of the person filing the document to ensure that he or she is properly entitled to any needed extension of the time limit.

Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

If the expiration of any period during which any document or fee must reach a national Office or intergovernmental organization falls on a day:

i. on which such Office or organization is not open to the public for the purposes of the transaction of official business;

ii. on which ordinary mail is not delivered in the locality in which such Office or organization is situated;

iii. which, where such Office or organization is situated in more than one locality, is an official holiday in at least one of the localities in which such Office or organization is situated, and in circumstances where the national law applicable by that Office or organization provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day; or

iv. which, where such Office is the government authority of a Contracting State entrusted with the granting of patents, is an official holiday in part of that Contracting State, and in circumstances where the national law applicable by that Office provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day;

the period shall expire on the next subsequent day on which none of the said four circumstances exists.

Time period extensions under the Madrid Protocol and the Hague Agreement

If a period within which a communication must be received by the International Bureau of the World Intellectual Property Office would expire on a day on which the International

livrés. Par conséquent, si le délai pour le dépôt d'un document tombe un jour férié provincial ou territorial et qu'une personne le livre seulement le jour non férié suivant, l'OPIC tiendra pour acquis que le document a été livré à un établissement qui justifierait une prorogation du délai. Dans de telles circonstances, il incombe au déposant de s'assurer qu'il a droit à une telle prorogation.

Prolongations de délais prévus au Traité de coopération en matière de brevets

La règle 80.5 du Règlement d'exécution du PCT prévoit ce qui suit :

Si un délai quelconque pendant lequel un document ou une taxe doit parvenir à un office national ou à une organisation intergouvernementale expire un jour :

i. où cet office ou cette organisation n'est pas ouvert au public pour traiter d'affaires officielles;

ii. où le courrier ordinaire n'est pas délivré dans la localité où cet office ou cette organisation est situé;

iii. qui, lorsque cet office ou cette organisation est situé dans plus d'une localité, est un jour férié dans au moins une des localités dans lesquelles cet office ou cette organisation est situé, et dans le cas où la législation nationale applicable par cet office ou cette organisation prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant; ou

iv. qui, lorsque cet office est l'administration gouvernementale d'un État contractant chargée de délivrer des brevets, est un jour férié dans une partie de cet État contractant, et dans le cas où la législation nationale applicable par cet office prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant;

Le délai prend fin le premier jour suivant auquel aucune de ces quatre circonstances n'existe plus.

Prorogation des délais en vertu du Protocole de Madrid et de l’Arrangement de La Haye

Si un délai à l’intérieur duquel une communication doit être reçue par le Bureau international de l’Organisation mondiale de propriété intellectuelle expire un jour où le Bureau international n’est pas ouvert au public, le délai expirera lors du

Bureau is not open to the public, it will expire on the next subsequent day on which the International Bureau is open. Likewise, if the period within which a communication (such as a notification of refusal of protection) must be sent by CIPO to the International Bureau would expire on a day on which CIPO is not open to the public, it will expire on the next subsequent day on which CIPO is open.

A list of the days on which the International Bureau is closed to the public during the current and the following calendar year is available on the WIPO website.

premier jour suivant où le Bureau international est ouvert au public. Similairement, si un délai à l'intérieur duquel une communication (tel qu'une notification de refus de la protection) doit être envoyée par l'OPIC au Bureau international expire un jour où les bureaux de l'OPIC sont fermés au public, ce délai expirera lors du premier jour suivant la réouverture de l'OPIC.

Une liste des jours pendant lesquels le Bureau international est fermé au public pendant l'année civile en cours et à venir est disponible sur le site web de l'OMPI.

6. Procedures in Case of an Unexpected Office Closure at CIPO

In case of unforeseen circumstances, CIPO will attempt to remain open to the public and ensure that essential service to our clients continues with the least possible disruption or delay.

In accordance with paragraph 27.01(n) of the Patent Rules, paragraph 15(n) of the Trademarks Regulations and paragraph 36(n) of the Industrial Design Regulations, whenever CIPO is closed to the public, for all or part of a day during ordinary business hours, including closures due to extraordinary circumstances, time periods will be extended to the next day that is not a prescribed or a designated day and where CIPO is open to the public.

For Copyright and Integrated Circuit Topography, if CIPO is closed to the public due to extraordinary circumstances, CIPO considers all time limits to be extended until the next day that it is open to the public. In such situations, mail delivered to CIPO or to designated establishments will be considered to be received on the date that CIPO re-opens to the public, with the exception of correspondence addressed to the Registrar of Topographies.

In view of the date-sensitive nature of intellectual property (IP), clients are advised to address important deadlines ahead of time to minimize the risk of affecting their IP rights. For the purposes of such deadlines, unless otherwise notified, clients should assume that all due dates remain in effect.

When possible during an emergency, information and search systems will continue to be available on our website; however, services provided through the Client Service Centre and other support areas within CIPO may be temporarily unavailable. Should an emergency occur, CIPO will post information with respect to service interruptions on our website as it becomes available and as circumstances permit.

Clients are **strongly encouraged** to send date-sensitive material through Canada Post by Registered Mail™ or Xpresspost™ or to use electronic means using the relevant links set out in section 2.2 of these correspondence procedures. Documents may continue to be faxed to CIPO at 819-953-CIPO (953-2476). Date-sensitive material requiring fee

6. Procédures en cas de fermeture des bureaux

Lors de circonstances imprévues, l'OPIC s'efforcera de demeurer ouvert au public et d'assurer un service essentiel à ses clients, et ce, avec le moins d'interruption ou de retard possible.

Conformément à l'alinéa 27.01n) des Règles sur les Brevets, l'alinéa 15n) du Règlement sur les marques de commerce et de l'alinéa 36n) du Règlement sur les dessins industriels, lorsque les bureaux de l'OPIC sont fermés au public pendant toute ou une partie des heures normales d'ouverture, y compris une fermeture en raison de circonstances extraordinaires, les délais seront prorogés au jour suivant qui ne sera pas un jour prescrit ou un jour désigné et où l'OPIC est ouvert au public .

Pour les droits d'auteur et les topographies de circuits intégrés, si les bureaux de l'OPIC sont fermés au public en raison de circonstances extraordinaires, l'OPIC considère que tous les délais sont prorogés au prochain jour d'ouverture au public. Dans de telles circonstances, le courrier livré à l'OPIC ou à des établissements désignés sera considéré avoir été reçu à la date du jour de la réouverture de l'OPIC au public, à l'exception de la correspondance adressée au registraire des topographies.

Étant donné **l'importance que revêtent les délais** en matière de propriété intellectuelle (PI), il est recommandé aux clients de minimiser les risques pouvant nuire à leurs droits en matière de PI en tenant compte à l'avance des dates limites importantes. En ce qui a trait aux délais prescrits, les clients doivent respecter toutes les dates d'échéance, à moins d'avis contraire.

En situation d'urgence, les systèmes d'information et de recherche resteront, dans la mesure du possible, accessibles à partir de notre site Web. Toutefois, les services fournis par le Centre de services à la clientèle et les autres services de soutien de l'OPIC pourraient temporairement ne pas être offerts. En situation d'urgence, l'OPIC va publier les renseignements nécessaires sur notre page d'interruptions des services, lorsque ceux-ci seront disponibles et les circonstances le permettront.

Les clients sont **fortement encouragés** de faire parvenir les documents assujettis à des délais précis par Postes Canada par Courrier recommandé[MC], par Xpresspost[MC] ou par voie électronique en utilisant les liens spécifiés à l'article 2.2 des présentes procédures de correspondance. Il est toujours

payment that is sent by fax must be accompanied by a VISA™, MasterCard™, or American Express™ credit card number, or CIPO deposit account number.

Please note that there may also be instances in which the designated offices may be temporarily closed, yet CIPO remains open to the public. In such situations, it remains **the responsibility of CIPO's clients** to ensure that all deadlines are respected.

possible de transmettre par télécopieur des documents à l'OPIC en composant le 819-953-OPIC (953-6742). Cependant, les documents assujettis à des délais pour lesquels des droits ou taxes sont exigés, qui sont envoyés par télécopieur, doivent être accompagnés d'un numéro de carte VISA[MC], Mastercard[MC] ou American Express[MC] ou d'un numéro de compte de dépôt à l'OPIC.

Veuillez noter qu'il pourrait y avoir des cas où les bureaux régionaux seraient fermés temporairement, mais où l'OPIC resterait ouvert au public. Le cas échéant, **les clients de l'OPIC demeurent responsables** du respect de tous les échéanciers.

7. Procedures when CIPO is Open to the Public but Clients are Unable to Communicate with the Office

Patents, Industrial Design, Copyright and Integrated Circuit Topography

The legislative framework in relation with the abovementioned types of intellectual property does not provide CIPO with the flexibility to extend deadlines when it is open to the public but clients are unable to communicate with the Office.

In these situations it remains the responsibility of clients to ensure that all deadlines are respected.

Trademarks

The Trademarks Act and Regulations allow clients to request a retroactive extension of time when a due date has been missed due to a force majeure type situation. In order for a retroactive extension of time to be granted, the Registrar of Trademarks must be satisfied that the failure to do the act or apply for an extension of time before the original due date was not reasonably avoidable. A prescribed fee is required in certain cases.

7. Procédures à suivre lorsque l'Office est ouvert au public, mais les clients sont incapables de communiquer avec l'Office

Brevets, dessins industriels, droit d'auteur et topographies de circuits intégrés

Le cadre législatif en rapport aux types de propriété intellectuelle mentionnés ci-haut ne donne pas à l'OPIC la flexibilité de proroger les délais lorsque l'Office est ouvert au public, mais les clients sont dans l'impossibilité de communiquer avec le l'Office.

Dans une telle situation, les clients demeurent tenus de veiller à ce que les échéances soient respectées.

Marques de commerce

La Loi sur les marques de commerce et le Règlement sur les marques de commerce permettent aux clients de demander une prolongation rétroactive lorsqu'un délai n'a pas été respecté en raison d'un cas de force majeure. Pour qu'une prolongation de délai rétroactive soit accordée, le registraire des marques de commerce doit être convaincu que l'omission d'accomplir l'acte ou de demander la prorogation avant la date initiale d'échéance n'était pas raisonnablement évitable. Un droit prescrit est exigé dans certains cas.

8. Intellectual property acts, rules and regulations

- Copyright Act
- Copyright Regulations
- Industrial Design Act
- Industrial Design Regulations
- Integrated Circuit Topography Act
- Integrated Circuit Topography Regulations
- Interpretation Act
- Patent Act

8. Lois, règles et règlements sur la propriété intellectuelle

- Loi sur le droit d'auteur
- Règlement sur le droit d'auteur
- Loi sur les dessins industriels
- Règlement sur les dessins industriels
- Loi sur les topographies de circuits intégrés
- Règlement sur les topographies de circuits intégrés
- Loi d'interprétation
- Loi sur les brevets
- Règles sur les brevets

- Patent Rules
- Regulations under the PCT
- Trademarks Act
- Trademarks Regulations

- Règlement d'exécution du PCT
- Loi sur les marques de commerce
- Règlement sur les marques de commerce

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of November 8, 2022 contains applications open to public inspection from October 23, 2022 to October 29, 2022.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 8 novembre 2022 contient les demandes disponibles au public pour consultation pour la période du 23 octobre 2022 au 29 octobre 2022.

16. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent **No.** 2815689
Issued: 2016-11-22
Present Owner: ABBVIE BIOTECHNOLOGY LTD.

Title: **IMPROVED HIGH CONCENTRATION ANTI-TNF.ALPHA. ANTIBODY LIQUID FORMULATIONS**

Subject to the terms of this document, ABBVIE BIOTECHNOLOGY LTD., as the owner of Canadian Patent No. 2,815,689, entitled "IMPROVED HIGH CONCENTRATION ANTI-TNF.ALPHA. ANTIBODY LIQUID FORMULATIONS" (inventors FEICK, ALEXANDER; FRAUNHOFER, WOLFGANG; GASTENS, MARTIN; NEU, MICHAEL; PAULSON, SUSAN K.; REDDEN, LAURA; TSCHOEPE, MARKUS; WEBER, CARSTEN; ZHU, TONG) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,815,689 for the entirety of the term of the Patent.
The present dedication of the Canadian Patent No. 2,815,689 is made without any prejudice to the rights of ABBVIE BIOTECHNOLOGY LTD. in and to any other patent or pending patent applications.
The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,815,689and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,815,689.
The patentee, ABBVIE BIOTECHNOLOGY LTD., also requests that this dedication be registered and recorded in all relevant places in the Patent Office, to provide notice of its dedication to the public, including its attachment to any printed copies of the Canadian patent which may hereinafter be distributed to the public.

SIGNED at Toront, Ontario, Canada, this 9th day of September, 2022.
[signature]
Name: Eileen McMahon at Torys LLP
Title: Agent for the Patentee

16. Cession au Domaine Public

Le Commissaire des brevets
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien **no:** 2815689
Delivré : 2016-11-22
Titulaire actuel : ABBVIE BIOTECHNOLOGY LTD.

Titre : **FORMULATION LIQUIDE D'ANTICORPS ANTI-TNF.ALPHA. HAUTEMENT CONCENTREE AMELIOREE**

Par la présente et sous réserve des dispositions du présent document, ABBVIE BIOTECHNOLOGY LTD., à titre de propriétaire du brevet canadien no 2,815,689, intitulé «FORMULATION LIQUIDE D'ANTICORPS ANTI-TNF.ALPHA. HAUTEMENT CONCENTREE AMELIOREE» (inventeurs FEICK, ALEXANDER; FRAUNHOFER, WOLFGANG; GASTENS, MARTIN; NEU, MICHAEL; PAULSON, SUSAN K.; REDDEN, LAURA; TSCHOEPE, MARKUS; WEBER, CARSTEN; ZHU, TONG) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,815,689 pour toute la durée du brevet.
La présente cession du brevet canadien no 2,815,689 se fait sans préjudice des droits ABBVIE BIOTECHNOLOGY LTD. sur l'ensemble des brevets et des demandes de brevet en instance.
La présente cession s'applique à tous les titulaires subséquents du brevet canadien no 2,815,689 et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no 2,815,689.
Le breveté, ABBVIE BIOTECHNOLOGY LTD. demande également que la présente cession soit enregistrée et inscrite dans tous les lieux et registres pertinents du Bureau des brevets, afin qu'un avis public soit donné de la cession du brevet, en englobant tout lien avec des copies papier du brevet canadien qui pourraient être transmises au public après cette date.

SIGNÉ à Toronto, en Ontario, au Canada, ce 9e jour de septembre 2022.
[signature]
Nom : Eileen McMahon à Torys LLP
Titre : Agente du breveté

Canadian Patents Issued

November 8, 2022

Brevets canadiens délivrés

8 novembre 2022

---

[11] **2,766,600**
[13] C
[51] **Int.Cl. C12Q 1/04 (2006.01) C12N 1/00 (2006.01)**
[25] EN
[54] **METHOD FOR NEUTRALIZATION OF ANTIBIOTICS IN A CULTURE MEDIUM**
[54] **PROCEDE DE NEUTRALISATION D'ANTIBIOTIQUES DANS UN MILIEU DE CULTURE**
[72] LOVERN, DOUGLAS, US
[73] BIOMERIEUX, INC., US
[85] 2011-12-22
[86] 2010-06-30 (PCT/US2010/040552)
[87] (WO2011/002856)
[30] US (61/269,953) 2009-07-01

---

[11] **2,769,182**
[13] C
[51] **Int.Cl. A01H 1/02 (2006.01) A01H 1/04 (2006.01) C12N 15/29 (2006.01)**
[25] EN
[54] **METHODS FOR PRODUCING A PLANT WITH ENHANCED VIGOR**
[54] **PROCEDES DE PRODUCTION D'UNE PLANTE A VIGUEUR AMELIOREE**
[72] LONG, BRYANT JEROME, US
[73] SYNGENTA CROP PROTECTION AG, CH
[85] 2012-01-25
[86] 2009-08-12 (PCT/US2009/004623)
[87] (WO2011/019331)

---

[11] **2,807,342**
[13] C
[51] **Int.Cl. C12N 5/073 (2010.01) C12N 5/071 (2010.01) C12N 5/0735 (2010.01) A61K 35/545 (2015.01)**
[25] EN
[54] **DEFINITIVE ENDODERM**
[54] **ENDODERME DEFINITIF**
[72] D'AMOUR, KEVIN ALLEN, US
[72] AGULNICK, ALAN D., US
[72] BAETGE, EMMANUEL E., US
[73] VIACYTE, INC., US
[86] (2807342)
[87] (2807342)
[22] 2004-12-23
[62] 2,549,605
[30] US (60/532,004) 2003-12-23
[30] US (60/586,566) 2004-07-09
[30] US (60/587,942) 2004-07-14

---

[11] **2,812,297**
[13] C
[51] **Int.Cl. G01N 33/48 (2006.01)**
[25] EN
[54] **IMPROVED ELECTRONIC ANALYTE ASSAYING DEVICE**
[54] **DISPOSITIF DE TEST D'ANALYTE ELECTRONIQUE AMELIORE**
[72] STURMAN, ANDY, US
[72] ZIN, BENEDICT, US
[72] NAZARETH, ALBERT, US
[72] BELL, HENRY, US
[73] CHURCH & DWIGHT CO., INC., US
[85] 2013-03-21
[86] 2011-09-23 (PCT/US2011/052958)
[87] (WO2012/044530)
[30] US (61/389,050) 2010-10-01
[30] US (12/967,971) 2010-12-14

---

[11] **2,813,743**
[13] C
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 491/048 (2006.01) C12N 9/00 (2006.01) C12N 9/99 (2006.01)**
[25] EN
[54] **SELECTIVE PROTON COUPLED FOLATE TRANSPORTER AND FOLATE RECEPTOR, AND GARFTASE AND/OR OTHER FOLATE METABOLIZING ENZYMES INHIBITOR COMPOUNDS AND METHODS OF USING THE SAME**
[54] **TRANSPORTEUR SELECTIF DE FOLATES COUPLES AUX PROTONS ET RECEPTEUR DES FOLATES, ET GARFTASE ET/OU AUTRES COMPOSES INHIBITEURS D'ENZYMES METABOLISANT LES FOLATES ET PROCEDES D'UTILI SATION DE CEUX-CI**
[72] GANGJEE, ALEEM, US
[72] MATHERLY, LARRY H., US
[73] DUQUESNE UNIVERSITY OF THE HOLY SPIRIT, US
[73] WAYNE STATE UNIVERSITY, US
[85] 2013-04-04
[86] 2011-10-10 (PCT/US2011/055584)
[87] (WO2012/051105)
[30] US (12/902,310) 2010-10-12

[11] **2,826,714**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6897 (2018.01) A01K 67/027 (2006.01) C12N 5/10 (2006.01) C12N 15/27 (2006.01) C12N 15/85 (2006.01) C12Q 1/00 (2006.01)**
[25] EN
[54] **HUMANIZED M-CSF MICE**
[54] **SOURIS M-CSF HUMANISEES**
[72] MURPHY, ANDREW J., US
[72] STEVENS, SEAN, US
[72] RATHINAM, CHOZHAVENDAN, US
[72] EYNON, ELIZABETH, US
[72] MANZ, MARKUS, CH
[72] FLAVELL, RICHARD, US
[72] YANCOPOULOS, GEORGE D., US
[73] REGENERON PHARMACEUTICALS, INC., US
[73] YALE UNIVERSITY, US
[73] INSTITUTE FOR RESEARCH IN BIOMEDICINE (IRB), CH
[85] 2013-08-06
[86] 2012-02-14 (PCT/US2012/025040)
[87] (WO2012/112544)
[30] US (61/442,946) 2011-02-15

[11] **2,828,487**
[13] C
[51] **Int.Cl. C12M 1/34 (2006.01) C12Q 1/02 (2006.01) C12Q 1/04 (2006.01) G01N 15/00 (2006.01) G01N 15/10 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PORTABLE CELL DETECTION AND ANALYSIS USING MICROFLUIDIC TECHNOLOGY**
[54] **PROCEDE ET SYSTEME DE DETECTION ET D'ANALYSE CELLULAIRE**
[72] AITCHISON, JAMES STEWART, CA
[72] CHEN, LU, CA
[72] DOU, JAMES JIAHUA, CA
[72] NAYYAR, RAKESH KUMAR, CA
[73] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[85] 2013-08-28
[86] 2012-03-07 (PCT/CA2012/000227)
[87] (WO2012/119243)
[30] US (61/449,840) 2011-03-07

[11] **2,837,710**
[13] C
[51] **Int.Cl. A61K 47/60 (2017.01) A61K 38/22 (2006.01) A61K 38/26 (2006.01) A61P 3/08 (2006.01) C07K 14/575 (2006.01) C07K 17/08 (2006.01)**
[25] EN
[54] **PEGYLATED OXYNTOMODULIN CONJUGATES WITH IMPROVED LINKERS**
[54] **AGONISTES DE RECEPTEUR DU GLP-1/GLUCAGON A ACTION LONGUE**
[72] FIMA, UDI EYAL, IL
[72] HERSHKOVITZ, OREN, IL
[73] OPKO BIOLOGICS LTD, IL
[85] 2013-11-28
[86] 2012-06-04 (PCT/US2012/040744)
[87] (WO2012/167251)
[30] US (61/492,448) 2011-06-02
[30] US (61/624,589) 2012-04-16

[11] **2,846,374**
[13] C
[51] **Int.Cl. F02C 9/18 (2006.01) F01D 9/02 (2006.01)**
[25] EN
[54] **COMPRESSOR BLEED SELF-RECIRCULATING SYSTEM**
[54] **SYSTEME A RECIRCULATION AUTOMATIQUE DE PRELEVEMENT SUR COMPRESSEUR**
[72] DUONG, HIEN, CA
[72] NICHOLS, JASON, CA
[72] TOWNSEND, PETER, CA
[72] KANDASAMY, VIJAY, IN
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2846374)
[87] (2846374)
[22] 2014-03-13
[30] US (13/803,418) 2013-03-14

[11] **2,848,054**
[13] C
[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/05 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS TO PLACE ONE OR MORE LEADS IN TISSUE TO ELECTRICALLY STIMULATE NERVES OF PASSAGE TO TREAT PAIN**
[54] **SYSTEMES ET PROCEDES POUR PLACER UNE OU PLUSIEURS DERIVATIONS DANS UN TISSU POUR STIMULER ELECTRIQUEMENT DES NERFS DE PASSAGE POUR TRAITER LA DOULEUR**
[72] BOGGS, JOSEPH W., II, US
[72] ZANG, ROSEMARY H., US
[73] SPR THERAPEUTICS, INC., US
[85] 2014-03-06
[86] 2012-09-06 (PCT/US2012/053952)
[87] (WO2013/036630)
[30] US (61/531,462) 2011-09-06

[11] **2,853,589**
[13] C
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/12 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01) C13K 1/00 (2006.01) C13K 3/00 (2006.01) C08B 30/04 (2006.01)**
[25] EN
[54] **PLANTS AND SEEDS OF CORN VARIETY CV132428**
[54] **PLANTES ET SEMENCES DE VARIETE CV132428 DE MAIS**
[72] PAGE, NATHANIEL J., US
[73] MONSANTO TECHNOLOGY LLC, US
[86] (2853589)
[87] (2853589)
[22] 2014-06-05
[30] US (14/225,044) 2014-03-25

[11] **2,853,691**
[13] C
[51] **Int.Cl. H02B 5/00 (2006.01) H02B 1/54 (2006.01) H01G 4/38 (2006.01) H02J 3/16 (2006.01) H02J 3/36 (2006.01)**
[25] EN
[54] **CARRIER PLATFORM**
[54] **PLATE-FORME DE SUPPORT**
[72] VON SECK, ACHIM, DE
[72] KUHN, GERMAN, DE
[73] SIEMENS AKTIENGESELLSCHAFT, DE
[85] 2014-04-28
[86] 2011-10-31 (PCT/EP2011/069133)
[87] (WO2013/064167)

---

[11] **2,854,575**
[13] C
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/12 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01) C13K 1/00 (2006.01) C13K 3/00 (2006.01) C08B 30/04 (2006.01)**
[25] EN
[54] **PLANTS AND SEEDS OF CORN VARIETY CV163018**
[54] **PLANTES ET SEMENCES DE VARIETE CV163018 DE MAIS**
[72] POPI, JON, US
[73] MONSANTO TECHNOLOGY LLC, US
[86] (2854575)
[87] (2854575)
[22] 2014-06-18
[30] US (14/225,273) 2014-03-25

---

[11] **2,854,577**
[13] C
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/12 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01) C13K 1/00 (2006.01) C13K 3/00 (2006.01) C08B 30/04 (2006.01)**
[25] EN
[54] **PLANTS AND SEEDS OF CORN VARIETY CV247671**
[54] **PLANTES ET SEMENCES DE VARIETE CV247671 DE MAIS**
[72] BOERBOOM, MARVIN L., US
[73] MONSANTO TECHNOLOGY LLC, US
[86] (2854577)
[87] (2854577)
[22] 2014-06-18
[30] US (14/225,297) 2014-03-25

---

[11] **2,854,586**
[13] C
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/02 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/12 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01) C13K 1/00 (2006.01) C13K 3/00 (2006.01) C08B 30/04 (2006.01)**
[25] EN
[54] **PLANTS AND SEEDS OF CORN VARIETY CV934423**
[54] **PLANTES ET SEMENCES DE VARIETE CV934423 DE MAIS**
[72] KRIVANEK, ALAN, US
[73] MONSANTO TECHNOLOGY LLC, US
[86] (2854586)
[87] (2854586)
[22] 2014-06-18
[30] US (14/225,305) 2014-03-25

---

[11] **2,861,816**
[13] C
[51] **Int.Cl. C07K 16/46 (2006.01) A61K 39/395 (2006.01) C07K 16/18 (2006.01)**
[25] EN
[54] **LIGHT CHAIN-BRIDGED BISPECIFIC ANTIBODY**
[54] **ANTICORPS BISPECIFIQUE A CHAINE LEGERE PONTEE**
[72] HSU, YU-SHEN, TW
[72] SHEU, SHOW-SHAN, TW
[72] CHANG, MING-I, TW
[72] LO, CHENG-KAI, TW
[73] DEVELOPMENT CENTER FOR BIOTECHNOLOGY, TW
[85] 2014-06-26
[86] 2012-12-27 (PCT/US2012/071780)
[87] (WO2013/101909)
[30] US (61/580,491) 2011-12-27

---

[11] **2,862,225**
[13] C
[51] **Int.Cl. H04W 48/16 (2009.01)**
[25] EN
[54] **HIGHER PRIORITY NETWORK SCANNING**
[54] **BALAYAGE DE RESEAU A PRIORITE ELEVEE**
[72] WIRTANEN, JEFFREY WILLIAM, CA
[72] ISLAM, MUHAMMAD KHALEDUL, CA
[73] BLACKBERRY LIMITED, CA
[86] (2862225)
[87] (2862225)
[22] 2014-09-08
[30] US (14/023,646) 2013-09-11

---

[11] **2,867,723**
[13] C
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/437 (2006.01) A61K 45/06 (2006.01)**
[25] EN
[54] **TREATMENT OF BRAIN CANCER**
[54] **TRAITEMENT DU CANCER DU CERVEAU**
[72] LEE, PATRICE A., US
[72] WINSKI, SHANNON L., US
[72] KOCH, KEVIN, US
[73] ARRAY BIOPHARMA INC., US
[85] 2014-09-17
[86] 2013-03-25 (PCT/US2013/033751)
[87] (WO2013/142875)
[30] US (61/615,082) 2012-03-23

[11] **2,869,377**
[13] C
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/565 (2006.01) A61K 47/10 (2017.01) A61K 47/14 (2017.01) A61K 47/20 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **FULVESTRANT FORMULATIONS**
[54] **FORMULATIONS DE FULVESTRANT**
[72] TEJA, BULUSU BHANU, IN
[72] PALEPU, NAGESH R., US
[73] EAGLE PHARMACEUTICALS, INC., US
[85] 2014-10-02
[86] 2013-04-09 (PCT/IN2013/000235)
[87] (WO2013/153559)
[30] IN (1418/CHE/2012) 2012-04-09

[11] **2,874,587**
[13] C
[51] **Int.Cl. C12N 9/52 (2006.01) A61K 38/48 (2006.01) C07K 14/33 (2006.01) C12N 15/57 (2006.01)**
[25] EN
[54] **ENGINEERED BOTULINUM NEUROTOXIN**
[54] **NEUROTOXINE BOTULIQUE GENETIQUEMENT MODIFIEE**
[72] STENMARK, PAL ERIK GUSTAV, SE
[72] BERNTSSON, RONNIE PER-ARNE, SE
[72] DONG, MIN, US
[72] PENG, LISHENG, US
[73] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[85] 2014-11-24
[86] 2013-03-13 (PCT/US2013/030737)
[87] (WO2013/180799)
[30] US (61/653,214) 2012-05-30

[11] **2,879,271**
[13] C
[51] **Int.Cl. G06F 17/00 (2019.01) G06F 11/36 (2006.01)**
[25] EN
[54] **AUTOMATED FORM TESTING**
[54] **ESSAI DE FORMULAIRE AUTOMATIQUE**
[72] ZHANG, JIE, US
[73] BCC SOFTWARE, LLC, US
[86] (2879271)
[87] (2879271)
[22] 2015-01-21
[30] US (14/160,647) 2014-01-22

[11] **2,880,841**
[13] C
[51] **Int.Cl. A61K 35/74 (2015.01) A61K 31/122 (2006.01) A61K 31/355 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING BIFIDOBACTERIUM, LACTOBACILLUS AND NAD+ FOR REDUCING BLOOD ALCOHOL CONTENT**
[54] **COMPOSITIONS COMPRENANT UNE BIFIDOBACTERIE, UN LACTOBACILLE ET UN NAD+ POUR REDUIRE L'ALCOOLEMIE**
[72] SMITH, ROXANNE, US
[72] RINKER, JONATHAN, US
[72] HOWARD, KENT, US
[73] LIFE WELL LIVED, LLC, US
[85] 2015-01-30
[86] 2013-07-29 (PCT/US2013/052500)
[87] (WO2014/022279)
[30] US (61/679,308) 2012-08-03
[30] US (61/691,900) 2012-08-22
[30] US (13/796,692) 2013-03-12

[11] **2,884,465**
[13] C
[51] **Int.Cl. C21D 9/30 (2006.01) B23K 26/08 (2014.01) C21D 1/06 (2006.01) C21D 1/09 (2006.01) C21D 1/34 (2006.01) F16C 3/06 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR LASER HARDENING OF A SURFACE OF A WORKPIECE**
[54] **PROCEDE ET SYSTEME DE DURCISSEMENT LASER D'UNE SURFACE D'UNE PIECE A USINER**
[72] GABILONDO, AMAIA, ES
[72] DOMINGUEZ, JESUS, ES
[72] SORIANO, CARLOS, ES
[72] OCANA, JOSE LUIS, ES
[73] ETXE-TAR, S.A., ES
[85] 2015-03-06
[86] 2013-08-29 (PCT/EP2013/067949)
[87] (WO2014/037281)
[30] EP (12382343.7) 2012-09-06
[30] EP (13177323.6) 2013-07-19

[11] **2,884,713**
[13] C
[51] **Int.Cl. C02F 3/30 (2006.01) C02F 3/02 (2006.01) C02F 3/28 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR NITROGEN REMOVAL IN WASTEWATER TREATMENT**
[54] **PROCEDE ET APPAREIL POUR L'ELIMINATION D'AZOTE DANS UN TRAITEMENT D'EAUX USEES**
[72] WETT, BERNHARD, AT
[72] REGMI, PUSKER, US
[72] OMARI, AHMED, US
[72] MILLER, MARK, US
[72] BOTT, CHARLES B., US
[72] MURTHY, SUDHIR N., US
[73] D.C. WATER & SEWER AUTHORITY, US
[73] HAMPTON ROADS SANITATION DISTRICT, US
[85] 2015-03-11
[86] 2013-09-13 (PCT/US2013/059775)
[87] (WO2014/043547)
[30] US (61/700,717) 2012-09-13
[30] US (61/708,498) 2012-10-01
[30] US (61/783,232) 2013-03-14

[11] **2,885,995**
[13] C
[51] **Int.Cl. G06T 11/00 (2006.01) G06T 1/20 (2006.01)**
[25] EN
[54] **A HYBRID ENGINE FOR CENTRAL PROCESSING UNIT AND GRAPHICS PROCESSOR**
[54] **MOTEUR HYBRIDE POUR PROCESSEUR CENTRAL ET PROCESSEUR GRAPHIQUE**
[72] SOUM, CHRISTOPHE, FR
[72] BATUT, ERIC, FR
[73] ALLEGORITHMIC, FR
[85] 2015-03-23
[86] 2013-09-12 (PCT/IB2013/002005)
[87] (WO2014/045094)
[30] FR (12/02528) 2012-09-24

[11] **2,888,864**
[13] C
[51] **Int.Cl. G01N 37/00 (2006.01) G01M 99/00 (2011.01) G01N 27/9013 (2021.01) F16L 55/00 (2006.01) G01N 23/04 (2018.01) G01N 29/265 (2006.01) G21C 17/017 (2006.01)**
[25] EN
[54] **INSPECTION SYSTEM FOR INSPECTING IN-SERVICE PIPING OR TUBING**
[54] **DISPOSITIF D'INSPECTION SERVANT A INSPECTER DES TUYAUX OU DES TUBAGES EN SERVICE**
[72] FISHER, BENJAMIN D., US
[73] BWXT INTECH, INC., US
[86] (2888864)
[87] (2888864)
[22] 2015-04-24
[30] US (61/984,717) 2014-04-25
[30] US (62/002,372) 2014-05-23
[30] US (14/695,497) 2015-04-24

[11] **2,888,935**
[13] C
[51] **Int.Cl. H04L 9/40 (2022.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR PROTECTING A SECURED NETWORK**
[54] **PROCEDES ET SYSTEMES PERMETTANT DE PROTEGER UN RESEAU SECURISE**
[72] ROGERS, STEVEN, US
[72] MOORE, SEAN, US
[73] CENTRIPETAL NETWORKS, INC., US
[85] 2015-04-21
[86] 2013-08-30 (PCT/US2013/057502)
[87] (WO2014/065943)
[30] US (13/657,010) 2012-10-22

[11] **2,892,113**
[13] C
[51] **Int.Cl. H04L 9/32 (2006.01) G08B 13/00 (2006.01) G08C 17/02 (2006.01) H04B 1/59 (2006.01) H04B 5/00 (2006.01)**
[25] EN
[54] **DUAL ACCESS LEVEL SECURITY SYSTEM AND METHOD**
[54] **SYSTEME DE SECURITE A NIVEAU D'ACCES DOUBLE ET METHODE**
[72] COJOCARU, AUREL, CA
[72] NISHIDA, GLENN, CA
[72] YU, PHILIP YAN WONG, CA
[73] JOHNSON CONTROLS TYCO IP HOLDINGS LLP, US
[86] (2892113)
[87] (2892113)
[22] 2015-05-20
[30] US (62/000,603) 2014-05-20

[11] **2,892,482**
[13] C
[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/50 (2006.01) G01N 33/569 (2006.01)**
[25] EN
[54] **METHODS FOR DETERMINING THE RISK OF ACUTE GRAFT VERSUS HOST DISEASE**
[54] **PROCEDES POUR DETERMINER LE RISQUE D'UNE MALADIE AIGUE DU GREFFON CONTRE L'HOTE**
[72] HERMINE, OLIVIER, FR
[72] RUBIO, MARIE THERESE, FR
[72] BOUILLIE, MARIE, FR
[72] LEITE DE MORAES, MARIA, FR
[73] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR
[73] ASSISTANCE PUBLIQUE - HOPITAUX DE PARIS, FR
[73] IMAGINE INSTITUT DES MALADIES GENETIQUES NECKER ENFANTS MALADES, FR
[73] UNIVERSITE PARIS CITE, FR
[85] 2015-05-21
[86] 2013-11-21 (PCT/EP2013/074407)
[87] (WO2014/079946)
[30] EP (12306445.3) 2012-11-21

[11] **2,892,962**
[13] C
[51] **Int.Cl. A01N 63/00 (2020.01) A01P 21/00 (2006.01) C05F 5/00 (2006.01) C05F 11/10 (2006.01) C09K 17/14 (2006.01) C12P 1/00 (2006.01) C12N 1/14 (2006.01) C12N 1/16 (2006.01)**
[25] EN
[54] **FERMENTED SOIL ADDITIVE**
[54] **ADDITIF FERMENTE POUR LES SOLS**
[72] KEATING, PETER JAMES, AU
[73] LIQUID FERTILISER SYSTEMS PTY LTD, AU
[85] 2015-05-28
[86] 2013-11-29 (PCT/AU2013/001383)
[87] (WO2014/082130)
[30] AU (2012905205) 2012-11-29
[30] AU (2013901319) 2013-04-16

[11] **2,893,767**
[13] C
[51] **Int.Cl. C07K 16/22 (2006.01) A61K 39/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR ANTIBODIES TARGETING EPO**
[54] **COMPOSITIONS ET PROCEDES POUR DES ANTICORPS CIBLANT EPO**
[72] GHOSH, JOY, US
[72] RUTZ, MARK ANTHONY, DE
[72] TISSOT-DAGUETTE, KATRIN ULRIKE, DE
[72] SPLAWSKI, IGOR, US
[72] ROGUSKA, MICHAEL, US
[73] NOVARTIS AG, CH
[85] 2015-06-03
[86] 2013-12-03 (PCT/US2013/072915)
[87] (WO2014/089111)
[30] US (61/733,566) 2012-12-05

[11] **2,895,562**
[13] C
[51] **Int.Cl. A61L 2/04 (2006.01) A23L 3/16 (2006.01) A61K 8/02 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR THE PREPARATION AND STERILIZATION OF VISCOUS PRODUCTS CONTAINING TEMPERATURE SENSITIVE COMPOUNDS**
[54] **APPAREIL ET METHODE DE PREPARATION ET STERILISATION DE PRODUITS VISQUEUX RENFERMENT DES COMPOSES SENSIBLES A LA TEMPERATURE**
[72] MARES, PHILIPPE, FR
[72] COELHO, GIL, FR
[73] SPX APV DANMARK A/S, DK
[86] (2895562)
[87] (2895562)
[22] 2015-06-23
[30] EP (14 306 004.4) 2014-06-25

[11] **2,899,344**
[13] C
[51] **Int.Cl. C07K 16/24 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS FOR INCREASING IMMUNOGLOBULIN A LEVELS**
[54] **METHODES POUR ACCROITRE LES NIVEAUX D'IMMUNOGLOBULINES A**
[72] ZAUDERER, MAURICE, US
[72] YOSHIDA, MASARU, JP
[72] YAMAMOTO, KOJI, JP
[72] SMITH, ERNEST S., US
[73] VACCINEX, INC., US
[85] 2015-07-24
[86] 2014-01-31 (PCT/US2014/014107)
[87] (WO2014/121053)
[30] US (61/759,108) 2013-01-31

[11] **2,901,738**
[13] C
[51] **Int.Cl. G06F 16/21 (2019.01) G06F 16/22 (2019.01) G06F 16/28 (2019.01)**
[25] EN
[54] **VERSATILE DATA MODEL**
[54] **MODELE DE DONNEES POLYVALENT**
[72] CARROLL, DENNIS, US
[72] LYNCH, CECIL, US
[72] ACUNA, GERMAN, US
[72] VO, ANH-HOANG, US
[72] PERRY, THOMAS D., US
[73] ACCENTURE GLOBAL SERVICES LIMITED, IE
[86] (2901738)
[87] (2901738)
[22] 2015-08-26
[30] US (14/472,932) 2014-08-29

[11] **2,907,175**
[13] C
[51] **Int.Cl. A61K 31/6615 (2006.01) A61K 9/00 (2006.01) A61K 9/127 (2006.01) A61P 7/06 (2006.01) A61P 9/10 (2006.01) A61P 17/02 (2006.01) A61P 31/00 (2006.01) A61P 33/00 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR ENHANCING OXYGEN LEVELS IN TISSUES**
[54] **METHODES ET COMPOSITIONS PERMETTANT D'AMELIORER LE TAUX D'OXYGENE DANS DES TISSUS**
[72] FEIN, HOWARD, US
[72] BERLIN, JOSHUA M., US
[73] M. ALPHABET 3, L.L.C., US
[85] 2015-09-15
[86] 2014-03-14 (PCT/US2014/029676)
[87] (WO2014/145037)
[30] US (61/801,587) 2013-03-15

[11] **2,908,004**
[13] C
[51] **Int.Cl. F16L 59/18 (2006.01) E21B 17/00 (2006.01) F16L 59/14 (2006.01) F16L 59/147 (2006.01) F16L 59/15 (2006.01)**
[25] EN
[54] **PIPE SECTION**
[54] **SECTION DE TUYAU**
[72] MARCHAL, PHILIPPE, FR
[72] DAMOUR, JEAN, FR
[72] OLLIER, PIERRE, FR
[73] MAJUS LIMITED, GB
[86] (2908004)
[87] (2908004)
[22] 2015-10-08
[30] GB (GB1418386.7) 2014-10-16

[11] **2,909,114**
[13] C
[51] **Int.Cl. B65D 25/04 (2006.01)**
[25] EN
[54] **FIBER-BASED SEPARATOR FOR COMPARTMENTALIZED CONTAINER**
[54] **SEPARATEUR A FIBRES DESTINE A UN CONTENANT COMPARTIMENTE**
[72] THORNTON, MICHAEL L., US
[72] SCHOCK, R. MICHAEL, US
[73] SONOCO DEVELOPMENT INCORPORATED, US
[86] (2909114)
[87] (2909114)
[22] 2015-10-16
[30] US (14/518275) 2014-10-20

[11] **2,911,241**
[13] C
[51] **Int.Cl. A61L 15/18 (2006.01) A61L 15/46 (2006.01)**
[25] EN
[54] **FEMALE SANITARY AND URINARY INCONTINENCE TOWELS, GAUZE/BANDAGES AND SURGICAL DRESSINGS FOR TREATING WOUNDS BASED ON TOURMALINE**
[54] **SERVIETTES HYGIENIQUES POUR FEMMES ET PROTECTIONS POUR L'INCONTINENCE URINAIRE, GAZES/BANDES ET PANSEMENTS CHIRURGICAUX POUR LE TRAITEMENT DE BLESSURES, A BASE DE TOURMALINE**
[72] DAMIAN, GABRIEL C., US
[72] ZAVALA, JOSE, US
[73] DAMIAN, GABRIEL C., US
[73] ZAVALA, JOSE, US
[85] 2015-11-02
[86] 2013-12-19 (PCT/MX2013/000194)
[87] (WO2014/178700)
[30] MX (MX/a/2013/004986) 2013-05-02

[11] **2,912,199**
[13] C
[51] **Int.Cl. E04G 3/28 (2006.01) E04G 3/22 (2006.01) E04G 3/30 (2006.01)**
[25] EN
[54] **SUSPENDED SCAFFOLDING STRUCTURE AND CONNECTOR THEREFOR**
[54] **STRUCTURE D'ECHAFAUDAGE SUSPENDU ET CONNECTEUR CORRESPONDANT**
[72] SHAW, NICHOLAS MARK, CA
[73] SHAW, NICHOLAS MARK, CA
[85] 2015-11-10
[86] 2014-05-14 (PCT/CA2014/050451)
[87] (WO2014/183215)
[30] US (61/823,290) 2013-05-14

[11] **2,912,484**
[13] C
[51] **Int.Cl. B29C 44/34 (2006.01) B29C 44/50 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A FOAM BODY BY MEANS OF AN EXTRUSION PROCESS, AND EXTRUSION DEVICE FOR PRODUCING A FOAM BODY**
[54] **PROCEDE DE FABRICATION D'UN CORPS ALVEOLAIRE PAR EXTRUSION ET DISPOSITIF D'EXTRUSION POUR FABRIQUER UN CORPS ALVEOLAIRE**
[72] VAN LUCK, FRANK, DE
[73] VAN LUCK, FRANK, DE
[73] GNEUSS GMBH, DE
[85] 2015-11-13
[86] 2014-04-28 (PCT/EP2014/058634)
[87] (WO2014/183985)
[30] DE (10 2013 008 202.1) 2013-05-14

[11] **2,912,697**
[13] C
[51] **Int.Cl. A61K 9/50 (2006.01) A61K 9/51 (2006.01)**
[25] EN
[54] **A SOLID NANOPARTICLE WITH INORGANIC COATING**
[54] **NANOPARTICULE SOLIDE A REVETEMENT INORGANIQUE**
[72] CARLSSON, JAN-OTTO, SE
[72] JOHANSSON, ANDERS, SE
[72] ROOTH, MARTEN, SE
[73] NANEXA AB, SE
[85] 2015-11-16
[86] 2014-05-23 (PCT/EP2014/060746)
[87] (WO2014/187995)
[30] EP (13169219.6) 2013-05-24

[11] **2,914,354**
[13] C
[51] **Int.Cl. C08L 23/08 (2006.01) B29C 65/70 (2006.01) B65B 7/28 (2006.01)**
[25] EN
[54] **HOT FILL PROCESS WITH CLOSURES MADE FRM BIMODAL POLYETHYLENE COMPOSITIONS**
[54] **PROCEDE DE REMPLISSAGE A CHAUD COMPORTANT DES FERMETURES FAITES DE COMPOSITIONS DE POLYETHYLENE BIMODAL**
[72] WANG, XIAOCHUAN, CA
[73] NOVA CHEMICALS CORP., CA
[86] (2914354)
[87] (2914354)
[22] 2015-12-10

[11] **2,915,849**
[13] C
[51] **Int.Cl. C10G 3/00 (2006.01) C10L 1/08 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING HYDROCARBONS**
[54] **PROCEDE DE PRODUCTION D'HYDROCARBURES**
[72] VILONEN, KATI, FI
[72] EILOS, ISTO, FI
[72] KOTONEVA, JARI, FI
[72] NOUSIAINEN, JAAKKO, FI
[73] UPM-KYMMENE CORPORATION, FI
[86] (2915849)
[87] (2915849)
[22] 2015-12-18
[30] FI (20146127) 2014-12-19

[11] **2,916,963**
[13] C
[51] **Int.Cl. A61K 36/537 (2006.01) A61K 9/10 (2006.01) A61K 9/20 (2006.01) A61K 31/045 (2006.01) A61K 31/11 (2006.01) A61K 31/192 (2006.01) A61K 31/343 (2006.01) A61K 31/704 (2006.01) A61K 36/258 (2006.01)**
[25] EN
[54] **TRADITIONAL CHINESE MEDICINE COMPOSITION, AND PREPARATION AND APPLICATION THEREOF**
[54] **COMPOSITION DE MEDECINE TRADITIONNELLE CHINOISE, PREPARATION ET APPLICATION DE CELLE-CI**
[72] YAN, XIJUN, CN
[72] WU, NAIFENG, CN
[72] YAN, KAIJING, CN
[72] YE, ZHENGLIANG, CN
[72] ZHANG, SHUNNAN, CN
[72] ZHOU, LIHONG, CN
[72] ZHANG, WENSHENG, CN
[72] DONG, HAI'OU, CN
[73] TASLY PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2015-12-29
[86] 2014-07-11 (PCT/CN2014/082102)
[87] (WO2015/003659)
[30] CN (201310290968.8) 2013-07-11
[30] CN (201310384234.6) 2013-08-29
[30] CN (201410044675.6) 2014-01-30
[30] CN (201410085152.6) 2014-03-10

[11] **2,920,427**
[13] C
[51] **Int.Cl. H05K 5/02 (2006.01) H02G 3/08 (2006.01)**
[25] EN
[54] **ELECTRICAL HOUSING**
[54] **COFFRET ELECTRIQUE**
[72] PARFETT, HAROLD, CA
[73] ACE MANUFACTURING METALS LTD., CA
[86] (2920427)
[87] (2920427)
[22] 2016-02-10

[11] **2,922,493**
[13] C
[51] **Int.Cl. G06F 3/01 (2006.01) G06F 3/04883 (2022.01)**
[25] EN
[54] **PRESENTATION OF A CONTROL INTERFACE ON A TOUCH-ENABLED DEVICE BASED ON A MOTION OR ABSENCE THEREOF**
[54] **PRESENTATION D'UNE INTERFACE DE COMMANDE SUR UN DISPOSITIF TACTILE SUR LA BASE D'UN MOUVEMENT OU D'UNE ABSENCE DE CE DERNIER**
[72] HWANG, DANIEL, J., US
[72] DAI, JUAN (LYNN), US
[72] VISWANATHAN, SHARATH, US
[72] TOBENS, JOSEPH, B., US
[72] RODRIGUEZ, JOSE, A., US
[72] DAVIS, PETER, G., US
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2016-02-25
[86] 2014-09-19 (PCT/US2014/056423)
[87] (WO2015/047880)
[30] US (14/035,888) 2013-09-24

[11] **2,924,327**
[13] C
[51] **Int.Cl. E06B 9/02 (2006.01) E06C 9/10 (2006.01)**
[25] EN
[54] **SECURITY AND ESCAPE APPARATUS FOR USE WITH A WINDOW**
[54] **APPAREIL DE SECURITE ET D'EVACUATION DESTINE A ETRE UTILISE DANS UNE FENETRE**
[72] ROWLEY, DEAN, CA
[72] DEVLOO, BRYAN, CA
[73] ROWLEY, DEAN, CA
[73] DEVLOO, BRYAN, CA
[86] (2924327)
[87] (2924327)
[22] 2016-03-21
[30] US (62/159,698) 2015-05-11

[11] **2,925,275**
[13] C
[51] **Int.Cl. G06V 40/10 (2022.01) G06V 10/141 (2022.01) G06V 10/147 (2022.01)**
[25] EN
[54] **APPARATUS AND METHOD OF ANIMAL RECOGNITION USING NOSE PATTERNS**
[54] **APPAREIL ET METHODE DE RECONNAISSANCE D'ANIMAL AU MOYEN DE MOTIFS DU NEZ**
[72] WEE, NAM SOOK, KR
[72] CHOI, SU JIN, KR
[72] KIM, HAENG MOON, KR
[73] ISCILAB CORPORATION, KR
[85] 2016-03-23
[86] 2014-05-20 (PCT/KR2014/004487)
[87] (WO2014/189250)
[30] KR (10-2013-0057667) 2013-05-22

[11] **2,929,327**
[13] C
[51] **Int.Cl. A61M 3/02 (2006.01) A61H 35/04 (2006.01) B05B 1/30 (2006.01) B05B 9/08 (2006.01) B05B 11/00 (2006.01) F16K 3/26 (2006.01) F16K 31/126 (2006.01)**
[25] EN
[54] **NASAL DOUCHE WITH VALVE THAT CAN BE ACTUATED BY RESPIRATORY AIR**
[54] **DOUCHE NASALE AVEC VALVE POUVANT ETRE ACTIONNEE PAR L'AIR RESPIRATOIRE**
[72] GERBER, BENEDICT, CH
[73] GERBER, BENEDICT, CH
[85] 2016-05-02
[86] 2014-09-06 (PCT/EP2014/002423)
[87] (WO2015/067332)
[30] EP (13005214.5) 2013-11-05

[11] **2,931,046**
[13] C
[51] **Int.Cl. B32B 7/06 (2019.01) B32B 3/14 (2006.01) B32B 3/18 (2006.01) B32B 3/26 (2006.01) B32B 7/12 (2006.01)**
[25] FR
[54] **SHIM FOR INSERTION BETWEEN THE FACING SURFACES OF TWO PARTS.**
[54] **CALE D'EPAISSEUR D'INTERPOSITION ENTRE LES SURFACES EN REGARD DE DEUX PIECES.**
[72] GASTEL, DANIEL ANDRE, FR
[73] GASTEL, DANIEL ANDRE, FR
[85] 2016-05-18
[86] 2014-12-02 (PCT/FR2014/053123)
[87] (WO2015/082826)
[30] FR (1362251) 2013-12-06

[11] **2,931,233**
[13] C
[51] **Int.Cl. C12P 7/6434 (2022.01) C11B 1/00 (2006.01) C12N 1/12 (2006.01)**
[25] FR
[54] **METHOD FOR ENRICHING THE BIOMASS OF THRAUSTOCHYTRIUM GENUS MICROALGAE WITH DHA**
[54] **PROCEDE D'ENRICHISSEMENT EN DHA DE LA BIOMASSE DE MICROALGUES DU GENRE TRAUSTOCHYTRIUM**
[72] CAULIER, BERNARD, FR
[73] ROQUETTE FRERES, FR
[85] 2016-05-19
[86] 2014-12-18 (PCT/FR2014/053430)
[87] (WO2015/092301)
[30] FR (13 62962) 2013-12-19

[11] **2,932,546**
[13] C
[51] **Int.Cl. C23C 22/00 (2006.01) C23F 11/00 (2006.01)**
[25] EN
[54] **METHOD FOR INNER-CONTOUR PASSIVATION OF STEEL SURFACES OF A NUCLEAR REACTOR**
[54] **PROCEDE DE PASSIVATION INTRA-CIRCUIT DE SURFACE EN ACIER D'UN REACTEUR NUCLEAIRE**
[72] MARTYNOV, PETR NIKIFOROVICH, RU
[72] ASKHADULLIN, RADOMIR SHAMILIEVICH, RU
[72] STOROZHENKO, ALEKSEY NIKOLAEVICH, RU
[72] IVANOV, KONSTANTIN DMITRIEVICH, RU
[72] LEGKIH, ALEKSANDR URIEVICH, RU
[72] SHARIKPULOV, SAID MIRFAISOVICH, RU
[72] FILIN, ALEKSANDR IVANOVICH, RU
[72] BULAVKIN, SERGEY VIKTOROVICH, RU
[73] JOINT STOCK COMPANY "AKME-ENGINEERING", RU
[85] 2016-06-02
[86] 2014-12-08 (PCT/RU2014/000915)
[87] (WO2015/088389)
[30] RU (2013154531) 2013-12-10

[11] **2,933,006**
[13] C
[51] **Int.Cl. E04G 5/12 (2006.01)**
[25] EN
[54] **ON-SITE MOBILE FACILITY**
[54] **INSTALLATION MOBILE POUR CHANTIER**
[72] MAINTZ, JACOB, DK
[72] HANSEN, CLAUS, DK
[73] SITECOVER APS, DK
[85] 2016-06-07
[86] 2014-12-19 (PCT/EP2014/078630)
[87] (WO2015/091896)
[30] EP (13199074.9) 2013-12-20
[30] EP (14153073.3) 2014-01-29
[30] EP (14153075.8) 2014-01-29
[30] EP (14153082.4) 2014-01-29

[11] **2,934,444**
[13] C
[51] **Int.Cl. A61K 31/10 (2006.01) A61K 8/24 (2006.01) A61K 8/36 (2006.01) A61K 8/41 (2006.01) A61K 8/46 (2006.01) A61K 8/49 (2006.01) A61K 31/198 (2006.01) A61K 31/4706 (2006.01) A61K 31/65 (2006.01) A61K 33/42 (2006.01) A61P 1/02 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ANTI-PLAQUE ORAL COMPOSITIONS**
[54] **COMPOSITIONS ORALES ANTI-PLAQUE DENTAIRE**
[72] BHUSHAN, RAJIV, US
[72] GIN, JERRY, US
[72] GOSWAMY, AMIT, US
[73] BHUSHAN, RAJIV, US
[73] GIN, JERRY, US
[73] GOSWAMY, AMIT, US
[85] 2016-06-17
[86] 2013-12-20 (PCT/US2013/077330)
[87] (WO2014/100775)
[30] US (61/740,391) 2012-12-20

[11] **2,934,684**
[13] C
[51] **Int.Cl. B62D 55/104 (2006.01) B62D 55/12 (2006.01) B62D 55/14 (2006.01) B62D 55/24 (2006.01)**
[25] EN
[54] **CRAWLER VEHICLE SUPPORTING DEVICE AND CRAWLER VEHICLE COMPRISING SUCH A SUPPORTING DEVICE**
[54] **DISPOSITIF DE SUPPORT DE VEHICULE A CHENILLES ET VEHICULE A CHENILLES COMPRENANT UN TEL DISPOSITIF DE SUPPORT**
[72] KIRCHMAIR, MARTIN, AT
[72] MAURER, GREGOR, LU
[72] RUNGGALDIER, MARTIN, IT
[73] PRINOTH S.P.A., IT
[85] 2016-06-20
[86] 2014-12-19 (PCT/IB2014/067171)
[87] (WO2015/092767)
[30] IT (MI2013A002179) 2013-12-20

[11] **2,934,801**
[13] C
[51] **Int.Cl. F16M 11/00 (2006.01) B64G 1/66 (2006.01) E02B 17/04 (2006.01) F16F 7/00 (2006.01) F16M 13/00 (2006.01) G01C 19/72 (2006.01) G02B 27/64 (2006.01)**
[25] EN
[54] **PLATFORM STABILIZATION SYSTEM**
[54] **SYSTEME DE STABILISATION DE PLATE-FORME**
[72] LEWIS, MICHAEL D., CA
[73] PV LABS LTD., CA
[85] 2016-06-22
[86] 2014-12-23 (PCT/CA2014/000912)
[87] (WO2015/095951)
[30] US (14/140,130) 2013-12-24

[11] **2,935,713**
[13] C
[51] **Int.Cl. B29C 63/14 (2006.01) E21B 33/10 (2006.01) E21B 43/12 (2006.01) F04B 47/06 (2006.01) F04C 13/00 (2006.01) F04D 13/10 (2006.01) H02K 5/124 (2006.01) H02K 5/132 (2006.01) B29C 65/48 (2006.01)**
[25] EN
[54] **METHOD FOR REDUCING PERMEABILITY OF DOWNHOLE MOTOR PROTECTOR BAGS**
[54] **PROCEDE DE REDUCTION DE LA PERMEABILITE DE SACS DE PROTECTION DE MOTEURS DE FOND DE TROU**
[72] REEVES, BRIAN, US
[72] WANG, CHENGBAO, US
[72] HOWELL, STEVEN ALAN, US
[73] BAKER HUGHES ESP, INC., US
[85] 2016-06-30
[86] 2014-12-11 (PCT/US2014/069713)
[87] (WO2015/094897)
[30] US (14/135,366) 2013-12-19

[11] **2,937,388**
[13] C
[51] **Int.Cl. F03D 9/00 (2016.01) F03D 13/20 (2016.01) F03D 5/04 (2006.01) F03D 7/00 (2006.01)**
[25] EN
[54] **APPARATUS FOR EXTRACTING POWER FROM FLUID FLOW**
[54] **APPAREIL D'EXTRACTION D'ENERGIE D'UN ECOULEMENT DE FLUIDE**
[72] LUMLEY, ROBERT, US
[73] AIRLOOM ENERGY, INC., US
[85] 2016-07-19
[86] 2015-01-26 (PCT/US2015/012931)
[87] (WO2015/116542)
[30] US (14/170,255) 2014-01-31

[11] **2,938,227**
[13] C
[51] **Int.Cl. G06V 20/52 (2022.01) G06T 7/73 (2017.01) F41H 13/00 (2006.01) G01J 5/48 (2006.01)**
[25] EN
[54] **METHOD FOR DETECTING AND CLASSIFYING EVENTS OF A SCENE**
[54] **PROCEDE DE DETECTION ET DE CLASSIFICATION D'EVENEMENTS D'UNE SCENE**
[72] MIDAVAINE, THIERRY, FR
[72] GARIN, OLIVIER, FR
[73] THALES, FR
[85] 2016-07-28
[86] 2015-02-05 (PCT/EP2015/052430)
[87] (WO2015/118075)
[30] FR (1400350) 2014-02-07

[11] **2,939,541**
[13] C
[51] **Int.Cl. C07K 19/00 (2006.01) C07K 14/025 (2006.01) C07K 14/16 (2006.01) C07K 14/435 (2006.01) C12N 1/21 (2006.01) C12N 5/10 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01) C12N 15/85 (2006.01) C12N 15/87 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **HYBRID PROTEINS AND USES THEREOF**
[54] **PROTEINES HYBRIDES ET LEURS UTILISATIONS**
[72] GRAVES, HERBERT ALEXANDER, CA
[72] FOX, MARK ANDREW, CA
[73] SYMVIVO CORPORATION, CA
[85] 2016-08-12
[86] 2015-02-12 (PCT/CA2015/000084)
[87] (WO2015/120542)
[30] US (61/940,274) 2014-02-14
[30] US (61/940,258) 2014-02-14
[30] US (62/013,852) 2014-06-18

[11] **2,940,167**
[13] C
[51] **Int.Cl. A61M 39/22 (2006.01) A61J 1/10 (2006.01) A61J 1/14 (2006.01)**
[25] EN
[54] **ASPIRATING VALVE DEVICE**
[54] **DISPOSITIF DE VANNE D'ASPIRATION**
[72] RAINES, KENNETH C., US
[73] B.BRAUN MEDICAL INC., US
[85] 2016-08-18
[86] 2015-02-20 (PCT/US2015/016930)
[87] (WO2015/127286)
[30] US (61/943,023) 2014-02-21

[11] **2,940,494**
[13] C
[51] **Int.Cl. A61K 8/34 (2006.01) A61K 8/30 (2006.01) A61K 8/41 (2006.01) A61K 8/66 (2006.01) A61K 8/67 (2006.01) A61K 8/87 (2006.01) A61L 2/18 (2006.01) A61Q 19/10 (2006.01) C11D 7/26 (2006.01) C11D 7/32 (2006.01) C11D 17/08 (2006.01)**
[25] EN
[54] **HAND SANITIZERS WITH IMPROVED AESTHETICS AND SKIN-CONDITIONING TO ENCOURAGE COMPLIANCE WITH HAND HYGIENE GUIDELINES**
[54] **DESINFECTANTS POUR LES MAINS A CARACTERISTIQUES AMELIOREES DE L'ESTHETIQUE ET DE SOINS DE LA PEAU POUR ENCOURAGER LE RESPECT DES INSTRUCTIONS D'HYGIENE DES MAINS**
[72] COPELAND, AMANDA J., US
[72] TITTL, JESSICA RAE, US
[72] SAUD, ABEL, US
[73] GOJO INDUSTRIES, INC., US
[85] 2016-08-22
[86] 2015-03-13 (PCT/US2015/020481)
[87] (WO2015/138926)
[30] US (61/953,034) 2014-03-14

[11] **2,941,726**
[13] C
[51] **Int.Cl. G08C 17/02 (2006.01) H04W 84/20 (2009.01) G05B 19/042 (2006.01)**
[25] EN
[54] **NETWORKING SYSTEMS, PROTOCOLS, AND METHODS FOR CONTROLLING TARGET DEVICES**
[54] **SYSTEMES, PROTOCOLES ET PROCEDES DE MISE EN RESEAU PERMETTANT DE COMMANDER DES DISPOSITIFS CIBLES**
[72] MILLER, ERIC L., US
[73] AVI-ON LABS, LLC, US
[85] 2016-09-06
[86] 2015-03-03 (PCT/US2015/018481)
[87] (WO2015/134493)
[30] US (61/947,122) 2014-03-03
[30] US (62/017,961) 2014-06-27
[30] US (62/086,975) 2014-12-03

[11] **2,941,965**
[13] C
[51] **Int.Cl. F24F 11/871 (2018.01) F24F 11/70 (2018.01) F24F 3/14 (2006.01) F24F 7/08 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR REHEAT DEHUMIDIFICATION WITH VARIABLE SPEED OUTDOOR FAN**
[54] **METHODE ET APPAREIL DE DESHUMIDIFICATION PAR RECHAUFFAGE DOTE D'UN VENTILATEUR EXTERIEUR A VITESSE VARIABLE**
[72] GOEL, RAKESH, US
[72] BERG, ERIC, US
[73] LENNOX INDUSTRIES LLC, US
[86] (2941965)
[87] (2941965)
[22] 2016-09-14
[30] US (14/954,558) 2015-11-30

[11] **2,942,165**
[13] C
[51] **Int.Cl. C07K 16/18 (2006.01) A61P 29/00 (2006.01) A61P 37/06 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **ANTI-C5 ANTIBODIES HAVING IMPROVED PHARMACOKINETICS**
[54] **ANTICORPS ANTI-C5 PRESENTANT UNE PHARMACOCINETIQUE AMELIOREE**
[72] ANDRIEN, BRUCE A., JR., US
[72] SHERIDAN, DOUGLAS L., US
[72] TAMBURINI, PAUL P., US
[73] ALEXION PHARMACEUTICALS, INC., US
[85] 2016-09-06
[86] 2015-03-06 (PCT/US2015/019225)
[87] (WO2015/134894)
[30] US (61/949,932) 2014-03-07

[11] **2,942,206**
[13] C
[51] **Int.Cl. G06F 9/44 (2018.01) G06F 8/30 (2018.01) G06F 9/445 (2018.01) H04H 60/87 (2009.01) H04N 21/2381 (2011.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DYNAMIC RUNTIME GENERATION OF CUSTOMIZED APPLICATIONS**
[54] **PROCEDES ET SYSTEMES DE GENERATION DYNAMIQUE D'EXECUTIONS D'APPLICATIONS PERSONNALISEES**
[72] TORGEMANE, HENRI, US
[72] HALSTED, BENJAMIN, US
[72] UNTER ECKER, OLIVER, US
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2016-09-09
[86] 2015-03-10 (PCT/IB2015/051740)
[87] (WO2015/136445)
[30] US (61/951,514) 2014-03-11
[30] US (14/287,904) 2014-05-27

[11] **2,942,835**
[13] C
[51] **Int.Cl. F02C 7/26 (2006.01) F02C 7/228 (2006.01) F02C 7/232 (2006.01) F02C 7/236 (2006.01) F02C 7/264 (2006.01) F02C 9/28 (2006.01) F02C 9/32 (2006.01)**
[25] EN
[54] **METHOD FOR STARTING A GAS TURBINE**
[54] **PROCEDE DE DEMARRAGE D'UNE TURBINE A GAZ**
[72] D'ALESSANDRO, GIUSEPPE, IT
[72] MAMPRESO, MARTA, IT
[73] NUOVO PIGNONE SRL, IT
[85] 2016-09-15
[86] 2015-03-18 (PCT/EP2015/055647)
[87] (WO2015/140200)
[30] IT (CO2014A000007) 2014-03-18

[11] **2,943,204**
[13] C
[51] **Int.Cl. C07D 498/16 (2006.01) A01N 43/90 (2006.01) A01P 1/00 (2006.01) A61K 31/4745 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR TREATMENT OF FLUOROQUINOLONE-RESISTANT BACTERIA**
[54] **COMPOSES POUR LE TRAITEMENT DE BACTERIES RESISTANTES A LA FLUORQUINOLONE**
[72] HERGENROTHER, PAUL J., US
[72] PARKINSON, ELIZABETH I., US
[72] BAIR, JOSEPH S., US
[73] THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, US
[85] 2016-09-19
[86] 2015-03-17 (PCT/US2015/021104)
[87] (WO2015/142952)
[30] US (61/954,141) 2014-03-17

[11] **2,943,667**
[13] C
[51] **Int.Cl. C12N 5/02 (2006.01) C12N 5/071 (2010.01) C07K 16/18 (2006.01)**
[25] EN
[54] **METHOD FOR MODULATING GALACTOSYLATION OF RECOMBINANT PROTEIN THROUGH OPTIMIZATION OF CULTURE MEDIUM**
[54] **METHODE SERVANT A MODULER LA GALACTOSYLATION DE PROTEINE RECOMBINANTE AU MOYEN DE L'OPTIMISATION D'UN SUBSTRAT DE CULTURE**
[72] JUNG, JUN, KR
[72] SONG, WON SEOK, KR
[72] LEE, JUN EOK, KR
[72] KIM, YEON CHUL, KR
[73] LG CHEM, LTD., KR
[85] 2016-07-28
[86] 2015-01-29 (PCT/KR2015/000997)
[87] (WO2015/115849)
[30] KR (10-2014-0011229) 2014-01-29

[11] **2,944,725**
[13] C
[51] **Int.Cl. G01S 19/34 (2010.01)**
[25] EN
[54] **POSITION TRACKING METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE SUIVI DE POSITION**
[72] LIU, JIAJUN, AU
[72] SOMMER, PHILIPP, AU
[72] JURDAK, RAJA, AU
[72] ZHAO, KUN, AU
[72] KUSY, BRANISLAV, AU
[73] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[85] 2016-10-03
[86] 2015-04-02 (PCT/AU2015/050150)
[87] (WO2015/149132)
[30] AU (2014901230) 2014-04-04

[11] **2,947,153**
[13] C
[51] **Int.Cl. G01V 5/04 (2006.01)**
[25] EN
[54] **GAMMA DETECTOR PROTECTION FOR DOWNHOLE OPERATIONS**
[54] **PROTECTION DE DETECTEUR DE RAYONNEMENT GAMMA POUR OPERATIONS DE FOND DE TROU**
[72] DEERE, R. PAUL, US
[72] CHANDOS, DAVID, US
[72] THOMAS, JACOB, US
[73] TOLTEQ GROUP, LLC, US
[85] 2016-10-26
[86] 2015-04-29 (PCT/US2015/028323)
[87] (WO2015/171402)
[30] US (61/988,197) 2014-05-03

[11] **2,949,156**
[13] C
[51] **Int.Cl. G01N 3/00 (2006.01) G01N 3/08 (2006.01)**
[25] EN
[54] **METHOD FOR TEST DATA REDUCTION OF COMPOSITE INTRALAMINAR FAILURE MODE**
[54] **METHODE DE REDUCTION DE DONNEES DE TEST D'UN MODE D'ECHEC INTRALAMINAIRE COMPOSITE**
[72] GU, HAOZHONG, US
[73] THE BOEING COMPANY, US
[86] (2949156)
[87] (2949156)
[22] 2016-11-22
[30] US (15/009777) 2016-01-28

[11] **2,950,042**
[13] C
[51] **Int.Cl. B66B 29/00 (2006.01)**
[25] EN
[54] **MOVING WALKWAY SAFETY SYSTEM**
[54] **SYSTEME DE SECURITE DE TROTTOIR ROULANT**
[72] NELSON, STEPHEN, GB
[73] KERETT ELECTRONIC SERVICES LTD, GB
[85] 2016-11-23
[86] 2015-05-21 (PCT/GB2015/051499)
[87] (WO2015/177560)
[30] GB (1409235.7) 2014-05-23

[11] **2,950,628**
[13] C
[51] **Int.Cl. C09D 11/52 (2014.01) H01Q 9/04 (2006.01) H05K 1/09 (2006.01) H05K 3/12 (2006.01)**
[25] EN
[54] **MOLECULAR INKS**
[54] **ENCRES MOLECULAIRES**
[72] KELL, ARNOLD, CA
[72] LAFRENIERE, SYLVIE, CA
[72] PAQUET, CHANTAL, CA
[72] MALENFANT, PATRICK, CA
[72] MOZENSON, OLGA, CA
[73] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[73] E2IP TECHNOLOGIES INC., CA
[85] 2016-11-29
[86] 2015-06-19 (PCT/CA2015/050568)
[87] (WO2015/192248)
[30] US (62/014,360) 2014-06-19

[11] **2,950,667**
[13] C
[51] **Int.Cl. C08G 18/76 (2006.01) C08G 18/08 (2006.01) C08G 18/38 (2006.01) C08L 75/12 (2006.01)**
[25] EN
[54] **SILYLATED POLYURETHANES**
[54] **POLYURETHANES SILYLES**
[72] HOLVOET, SERVAAS, BE
[72] PHANOPOULOS, CHRISTOPHER, BE
[72] DESESQUELLES, FABRICE, BE
[73] HUNTSMAN INTERNATIONAL LLC, US
[85] 2016-11-29
[86] 2015-06-10 (PCT/EP2015/062907)
[87] (WO2015/193146)
[30] EP (14173096.0) 2014-06-19

[11] **2,950,688**
[13] C
[51] **Int.Cl. G06F 11/30 (2006.01) G06F 11/34 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR RECORDING THE BEGINNING AND ENDING OF JOB LEVEL ACTIVITY IN A MAINFRAME COMPUTING ENVIRONMENT**
[54] **SYSTEME ET PROCEDE POUR ENREGISTRER LE DEBUT ET LA FIN D'UNE ACTIVITE DE NIVEAU DE TRAVAIL DANS UN ENVIRONNEMENT INFORMATIQUE D'ORDINATEUR CENTRAL**
[72] ECKERT, PAUL J., US
[73] TERACLOUD APS, DK
[85] 2016-11-29
[86] 2015-05-27 (PCT/IB2015/000753)
[87] (WO2015/181613)
[30] US (62/005,218) 2014-05-30
[30] US (14/716,029) 2015-05-19

[11] **2,951,581**
[13] C
[51] **Int.Cl. B30B 9/12 (2006.01) B30B 9/26 (2006.01)**
[25] EN
[54] **SCREW PRESS FOR COMPRESSING AND DEWATERING A SUSPENSION**
[54] **PRESSE A VIS SANS FIN POUR COMPRIMER ET DESHYDRATER UNE SUSPENSION**
[72] OERTIG, MICHAEL, CH
[72] GSPONER, PATRIK DANIEL, CH
[72] SCHMIDT, DANIEL, CH
[73] HITACHI ZOSEN INOVA AG, CH
[85] 2016-12-08
[86] 2015-06-10 (PCT/EP2015/062937)
[87] (WO2015/189271)
[30] CH (00881/14) 2014-06-11

[11] **2,952,225**
[13] C
[51] **Int.Cl. H04N 21/441 (2011.01) H04N 21/40 (2011.01) H04N 21/442 (2011.01)**
[25] EN
[54] **METHOD, SYSTEM AND MACHINE-READABLE MEDIUM FOR USER INTERACTION ASSOCIATION**
[54] **METHODE, SYSTEME ET SUPPORT EXPLOITABLE PAR UNE MACHINE POUR L'ASSOCIATION UTILISATEUR-INTERACTION**
[72] MENAND, JEAN-RENE, US
[72] HENSGEN, DEBRA, US
[72] MORTEN, GLENN, US
[73] OPENTV, INC., US
[85] 2016-12-13
[86] 2015-06-12 (PCT/US2015/035670)
[87] (WO2015/195489)
[30] US (14/308,545) 2014-06-18

[11] **2,952,709**
[13] C
[51] **Int.Cl. C12N 1/19 (2006.01) C12N 1/15 (2006.01) C12N 1/21 (2006.01) C12N 9/04 (2006.01) C12N 15/53 (2006.01) C12P 7/18 (2006.01)**
[25] EN
[54] **PRODUCTION OF XYLITOL FROM GLUCOSE BY A RECOMBINANT STRAIN**
[54] **PRODUCTION DE XYLITOL A PARTIR DE GLUCOSE PAR UNE SOUCHE RECOMBINEE**
[72] SCHAEFER, ASTRID, DE
[72] DIEFENBACHER, MELANIE, CH
[72] CHANG, YIMING, CH
[72] HONDA MALCA, SUMIRE, DE
[72] SCHWAB, MARKUS, DE
[72] DEFRETIN, SOPHIE, FR
[72] GERARD, TANIA, FR
[72] HEYSEN, ARNAUD, FR
[72] THOR, FRIEDERIKE, CH
[73] ROQUETTE FRERES, FR
[85] 2016-12-16
[86] 2015-06-17 (PCT/EP2015/063549)
[87] (WO2015/193350)
[30] EP (14305934.3) 2014-06-18

[11] **2,952,794**
[13] C
[51] **Int.Cl. H04W 24/10 (2009.01)**
[25] EN
[54] **METHOD FOR COLLECTING AND AGGREGATING NETWORK QUALITY DATA**
[54] **PROCEDE POUR COLLECTER ET REGROUPER DES DONNEES DE QUALITE DE RESEAU**
[72] CHU, MELODIE, US
[72] BRUNSMAN, LAWRENCE JONATHAN, US
[72] SONNTAG, CHRISTIAN, US
[72] WILLIAMMEE, BRIAN CLAIR, US
[72] WILLIAMS, TYLER, US
[73] GOOGLE LLC, US
[85] 2016-12-16
[86] 2015-05-14 (PCT/US2015/030775)
[87] (WO2015/195235)
[30] US (14/308,341) 2014-06-18

[11] **2,953,036**
[13] C
[51] **Int.Cl. A61K 8/49 (2006.01) A61K 8/44 (2006.01) A61Q 5/00 (2006.01) A61Q 7/00 (2006.01) A61Q 19/00 (2006.01)**
[25] EN
[54] **COMPOSITION SUITABLE TO PRESERVE THE PHYSIOLOGICAL CONDITION OF SKIN AND HAIR AND REESTABLISH THEIR REGENERATIVE FUNCTIONS**
[54] **COMPOSITION APPROPRIEE POUR PRESERVER L'ETAT PHYSIOLOGIQUE DE LA PEAU ET DES CHEVEUX ET RETABLIR LEURS FONCTIONS REGENERATIVES**
[72] GIULIANI, GIAMMARIA, IT
[72] BENEDUSI, ANNA, IT
[72] MARZANI, BARBARA, IT
[72] MASCOLO, ANTONIO, IT
[72] LIMITONE, ANTONIO, IT
[73] GIULIANI S.P.A., IT
[85] 2016-12-20
[86] 2015-06-25 (PCT/EP2015/064362)
[87] (WO2015/197759)
[30] IT (MI2014A001161) 2014-06-26

[11] **2,953,368**
[13] C
[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6851 (2018.01) C12Q 1/6876 (2018.01) A61K 31/4418 (2006.01) A61K 38/17 (2006.01) A61K 38/18 (2006.01) A61K 38/22 (2006.01)**
[25] EN
[54] **METHODS FOR DIAGNOSING RISK OF RENAL ALLOGRAFT FIBROSIS AND REJECTION**
[54] **PROCEDES DE DIAGNOSTIC DU RISQUE DE FIBROSE ET DE REJET D'UNE ALLOGREFFE RENALE**
[72] MURPHY, BARBARA, US
[72] ZHANG, WEIJIA, US
[73] ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI, US
[85] 2016-12-21
[86] 2015-06-26 (PCT/US2015/038147)
[87] (WO2015/200873)
[30] US (62/017,803) 2014-06-26

[11] **2,953,396**
[13] C
[51] **Int.Cl. A61K 9/46 (2006.01) A61K 31/485 (2006.01) A61K 47/30 (2006.01)**
[25] EN
[54] **ABUSE DETERRENT IMMEDIATE RELEASE FORMULATIONS COMPRISING NON-CELLULOSE POLYSACCHARIDES**
[54] **FORMULATIONS A LIBERATION IMMEDIATE DE DISSUASION D'ABUS COMPRENANT DES POLYSACCHARIDES NON CELLULOSIQUES**
[72] MICKA, ALEX, US
[72] FENG, KAI, US
[72] LAI, TSZ CHUNG, US
[72] GAIK, JONATHAN, US
[73] SPECGX LLC, US
[85] 2016-12-21
[86] 2015-07-01 (PCT/US2015/038774)
[87] (WO2016/004170)
[30] US (62/020,726) 2014-07-03

[11] **2,953,891**
[13] C
[51] **Int.Cl. B01J 37/08 (2006.01) B01J 38/04 (2006.01) C07C 5/48 (2006.01) C07C 11/04 (2006.01)**
[25] EN
[54] **TREATMENT OF A MIXED METAL OXIDE CATALYST CONTAINING MOLYBDENUM, VANADIUM, NIOBIUM AND OPTIONALLY TELLURIUM**
[54] **TRAITEMENT D'UN CATALYSEUR D'OXYDES METALLIQUES MIXTES CONTENANT DU MOLYBDENE, DU VANADIUM, DU NIOBIUM ET EVENTUELLEMENT DU TELLURE**
[72] SCHOONEBEEK, RONALD JAN, NL
[72] VERHAAK, MICHIEL JOHANNES FRANCISCUS MARIA, NL
[73] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2016-12-29
[86] 2015-06-29 (PCT/EP2015/064639)
[87] (WO2016/001112)
[30] EP (14174922.6) 2014-06-30

[11] **2,954,081**
[13] C
[51] **Int.Cl. B66C 7/14 (2006.01)**
[25] EN
[54] **SECURED ARRANGEMENT OF RAILS FOR A TRAVELLING TROLLEY**
[54] **CONFIGURATION SECURITAIRE DE RAILS POUR UN CHARIOT DE DEPLACEMENT**
[72] BOGH-SORENSEN, OLE, DK
[72] STRÆDE, JOHNNI, DK
[72] PLOUGSGAARD, HOLGER SOE, DK
[73] V. GULDMANN A/S, DK
[85] 2017-01-03
[86] 2015-07-02 (PCT/DK2015/050200)
[87] (WO2016/004953)
[30] DK (PA 2014 70432) 2014-07-10

[11] **2,954,344**
[13] C
[51] **Int.Cl. A23L 3/365 (2006.01) A23L 5/00 (2016.01) A23B 4/07 (2006.01) A23B 7/04 (2006.01) A47J 39/00 (2006.01) F24C 7/02 (2006.01) F25D 17/00 (2006.01) F25D 21/00 (2006.01) F25D 31/00 (2006.01)**
[25] FR
[54] **FACILITY FOR THAWING OR TEMPERING FROZEN FOOD PRODUCTS**
[54] **INSTALLATION DE DECONGELATION OU DE TEMPERAGE DE PRODUITS ALIMENTAIRES CONGELES**
[72] DEUMIER, FRANCOIS, FR
[72] CECILIA, FREDERIC, FR
[72] LONGO, PHILIPPE, FR
[73] LUTETIA, FR
[85] 2017-01-05
[86] 2015-07-06 (PCT/EP2015/065341)
[87] (WO2016/005319)
[30] FR (1456533) 2014-07-07

[11] **2,955,029**
[13] C
[51] **Int.Cl. B65B 29/00 (2006.01) A23K 10/20 (2016.01) A23K 40/00 (2016.01) A23L 13/60 (2016.01) A23P 20/20 (2016.01) B65B 25/22 (2006.01) B65B 29/08 (2006.01) B65B 39/12 (2006.01)**
[25] EN
[54] **APPARATUSES AND METHODS FOR ENCLOSING A FILLING IN A FOOD PRODUCT**
[54] **APPAREILS ET PROCEDES POUR ENFERMER UN FOURRAGE DANS UN PRODUIT ALIMENTAIRE**
[72] JENSEN, MALLORY, US
[72] DUPUIS, JOEL, US
[72] LOBAR, PETER, CH
[72] ROIG, FRANCISCO, FR
[72] DALLATURCA, GIANNI, IT
[72] SIRONI, MASSIMO, IT
[73] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2017-01-10
[86] 2015-07-23 (PCT/IB2015/055603)
[87] (WO2016/016784)
[30] US (62/030,666) 2014-07-30

[11] **2,955,166**
[13] C
[51] **Int.Cl. B07B 13/065 (2006.01)**
[25] EN
[54] **ADJUSTMENT MECHANISM FOR GRADING SYSTEMS**
[54] **MECANISME DE REGLAGE POUR SYSTEMES DE CLASSIFICATION**
[72] RAGNARSSON, EGILL THOR, IS
[73] STYLE EHF., IS
[85] 2017-01-13
[86] 2015-07-16 (PCT/IS2015/050013)
[87] (WO2016/009452)
[30] IS (050087) 2014-07-16

---

[11] **2,956,308**
[13] C
[51] **Int.Cl. A01N 33/20 (2006.01) A01N 33/04 (2006.01) A01P 1/00 (2006.01)**
[25] EN
[54] **SYNERGISTIC ANTIMICROBIAL COMPOSITION**
[54] **COMPOSITION ANTIMICROBIENNE SYNERGIQUE**
[72] SIANAWATI, EMERENTIANA, US
[72] SINGLETON, FREDDIE L., US
[72] NAIR, SUBHASH, AE
[73] DOW CHEMICAL IMEA GMBH, CH
[73] NUTRITION & BIOSCIENCES USA 1, LLC, US
[85] 2017-01-25
[86] 2015-07-23 (PCT/US2015/041770)
[87] (WO2016/018718)
[30] US (62/030,842) 2014-07-30

---

[11] **2,956,664**
[13] C
[51] **Int.Cl. A61M 1/16 (2006.01)**
[25] EN
[54] **MEDICAL APPARATUS FOR THE PREPARATION OF MEDICAL FLUID**
[54] **APPAREIL MEDICAL POUR LA PREPARATION D'UN FLUIDE MEDICAL**
[72] PARALUPPI, MARCO, IT
[72] MICCO, STEFANO, IT
[73] GAMBRO LUNDIA AB, SE
[85] 2017-01-27
[86] 2015-07-31 (PCT/EP2015/067667)
[87] (WO2016/016429)
[30] EP (14179361.2) 2014-07-31

---

[11] **2,956,947**
[13] C
[51] **Int.Cl. A61K 9/18 (2006.01) A61K 31/192 (2006.01) A61K 47/02 (2006.01)**
[25] EN
[54] **CORE COMPOSITIONS**
[54] **COMPOSITIONS DE NOYAU**
[72] LEE, DER-YANG, US
[72] KUTCH, TIMOTHY, US
[73] JOHNSON & JOHNSON CONSUMER INC., US
[85] 2017-01-31
[86] 2015-07-31 (PCT/US2015/043127)
[87] (WO2016/019252)
[30] US (62/032,029) 2014-08-01

---

[11] **2,957,473**
[13] C
[51] **Int.Cl. C07C 303/44 (2006.01) C12P 7/10 (2006.01) C13K 1/00 (2006.01) C13K 1/02 (2006.01) C07C 309/02 (2006.01)**
[25] EN
[54] **IMPROVED PROCESS FOR TREATING BIOMASS TO PRODUCE MATERIALS USEFUL FOR BIOFUELS**
[54] **PROCEDE PERFECTIONNE POUR LE TRAITEMENT DE BIOMASSE POUR PRODUIRE DES MATERIAUX UTILES POUR DES BIOCARBURANTS**
[72] BLACKBOURN, ROBERT LAWRENCE, US
[72] WEIDER, PAUL RICHARD, US
[72] BORISKI, DENNIS SHANE, US
[73] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2017-02-06
[86] 2015-08-13 (PCT/US2015/045014)
[87] (WO2016/025689)
[30] US (62/037,198) 2014-08-14

---

[11] **2,957,631**
[13] C
[51] **Int.Cl. E21B 33/03 (2006.01) E21B 43/01 (2006.01) E21B 43/013 (2006.01)**
[25] EN
[54] **WELLHEAD ASSEMBLY**
[54] **ENSEMBLE TETE DE PUITS**
[72] BJORKHAUG, MAGNE, NO
[73] EQUINOR ENERGY AS, NO
[85] 2017-02-08
[86] 2015-08-17 (PCT/NO2015/050135)
[87] (WO2016/028158)
[30] GB (1414733.4) 2014-08-19

---

[11] **2,958,743**
[13] C
[51] **Int.Cl. B60L 7/28 (2006.01) H02K 49/04 (2006.01)**
[25] EN
[54] **AUTONOMOUS RETARDER SYSTEM FOR A VEHICLE, AND VEHICLE INCLUDING SAME**
[54] **SYSTEME RETARDATEUR AUTONOME POUR UN VEHICULE ET VEHICULE LE COMPRENANT**
[72] CARBALLO RODRIGUEZ, PABLO, ES
[73] RALENTIZADORES Y TRANSFORMACIONES, S.A., ES
[85] 2017-02-14
[86] 2014-08-14 (PCT/ES2014/070655)
[87] (WO2016/024030)

---

[11] **2,958,845**
[13] C
[51] **Int.Cl. G06Q 40/04 (2012.01)**
[25] EN
[54] **DYNAMIC PEG ORDERS IN AN ELECTRONIC TRADING SYSTEM**
[54] **ORDRES A FIXATION DYNAMIQUE DANS UN SYSTEME DE NEGOCIATION ELECTRONIQUE**
[72] KATSUYAMA, BRADLEY TOSHIO, US
[72] TRUDEAU, MATTHEW NORBERT, US
[72] SOKOLOFF, CONSTANTINE, US
[72] SMALL, BENJAMIN AARON, US
[72] PARK, ROBERT, US
[72] AISEN, DANIEL, US
[72] FACINI, ADRIAN BRANKO, US
[72] BOLLERMAN, DONALD, US
[72] CHUNG, FRANCIS, US
[73] IEX GROUP, INC., US
[85] 2017-02-21
[86] 2015-07-15 (PCT/US2015/040540)
[87] (WO2016/028416)
[30] US (62/040,493) 2014-08-22

[11] **2,959,700**
[13] C
[51] **Int.Cl. B01D 53/14 (2006.01) C10L 3/10 (2006.01)**
[25] EN
[54] **ABSORBENT FOR SELECTIVE REMOVAL OF HYDROGEN SULFIDE FROM A FLUID STREAM**
[54] **PRODUIT ABSORBANT POUR L'ELIMINATION SELECTIVE DU SULFURE D'HYDROGENE DANS UN COURANT DE FLUIDE**
[72] VORBERG, GERALD, DE
[72] NOTZ, RALF, DE
[72] INGRAM, THOMAS, DE
[72] SIEDER, GEORG, DE
[72] KATZ, TORSTEN, DE
[73] BASF SE, DE
[85] 2017-02-23
[86] 2015-08-20 (PCT/EP2015/069109)
[87] (WO2016/030262)
[30] EP (14182112.4) 2014-08-25

[11] **2,960,494**
[13] C
[51] **Int.Cl. A61K 31/203 (2006.01) A61P 35/04 (2006.01) C07K 16/28 (2006.01) C07K 16/40 (2006.01)**
[25] EN
[54] **COMBINATION THERAPIES WITH ANTI-CD38 ANTIBODIES**
[54] **POLYTHERAPIES AVEC DES ANTICORPS ANTI-CD38**
[72] LOKHORST, HENK M., NL
[72] MUTIS, TUNA, NL
[72] NIJHOF, INGER S., NL
[72] VAN DE DONK, NIELS W., NL
[73] JANSSEN BIOTECH, INC., US
[85] 2017-03-07
[86] 2015-09-08 (PCT/US2015/048899)
[87] (WO2016/040294)
[30] US (62/047,877) 2014-09-09
[30] US (62/087,287) 2014-12-04

[11] **2,960,931**
[13] C
[51] **Int.Cl. G01N 9/00 (2006.01) G01N 27/02 (2006.01) G01N 37/00 (2006.01)**
[25] EN
[54] **DENSITY MEASUREMENT SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE MESURE DE LA DENSITE**
[72] QIU, CHANGHUA, GB
[72] PRIMROSE, KENNETH, GB
[73] INDUSTRIAL TOMOGRAPHY SYSTEMS LTD, GB
[85] 2017-03-10
[86] 2015-09-11 (PCT/GB2015/052643)
[87] (WO2016/038391)
[30] GB (1416182.2) 2014-09-12

[11] **2,961,026**
[13] C
[51] **Int.Cl. B21F 45/16 (2006.01)**
[25] EN
[54] **GRATING CONNECTOR AND SPACER APPARATUS, SYSTEM, AND METHODS OF USING THE SAME**
[54] **APPAREIL DE RACCORDEMENT ET D'ESPACEMENT DE GRILLAGES DE FIL, SYSTEME, ET PROCEDES D'UTILISATION ASSOCIES**
[72] STILES, ALEXANDER, US
[73] HOLLAND LP, US
[85] 2017-03-10
[86] 2015-09-24 (PCT/US2015/051970)
[87] (WO2016/049330)
[30] US (62/054,432) 2014-09-24

[11] **2,961,819**
[13] C
[51] **Int.Cl. C07H 9/04 (2006.01) A61K 31/7048 (2006.01) A61K 47/12 (2006.01) A61K 47/26 (2006.01) A61P 3/10 (2006.01) C07D 207/16 (2006.01) C07D 493/08 (2006.01) C07H 1/00 (2006.01)**
[25] EN
[54] **L-PROLINE COMPOUND OF SODIUM-GLUCOSE COTRANSPORTER 2 INHIBITOR, AND MONOHYDRATE AND CRYSTAL OF L-PROLINE COMPOUND**
[54] **COMPOSE L-PROLINE D'UN INHIBITEUR DU COTRANSPORTEUR SODIUM-GLUCOSE DE TYPE 2, AINSI QUE MONOHYDRATE ET CRISTAL DU COMPOSE L-PROLINE**
[72] SUN, PIAOYANG, CN
[72] WU, GUAILI, CN
[72] GUO, CHANGSHAN, CN
[72] LU, YUN, CN
[72] WU, YUXIA, CN
[72] SHEN, LINGJIA, CN
[73] JIANGSU HENGRUI MEDICINE CO., LTD., CN
[85] 2017-03-20
[86] 2015-09-08 (PCT/CN2015/089128)
[87] (WO2016/050134)
[30] CN (201410523436.9) 2014-09-30

[11] **2,962,135**
[13] C
[51] **Int.Cl. B42D 25/40 (2014.01) B42D 25/369 (2014.01) B42D 25/378 (2014.01) B42D 25/41 (2014.01) B05D 3/00 (2006.01) B05D 5/06 (2006.01) G03F 7/00 (2006.01) H01F 7/02 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR ORIENTING PLATELET-SHAPED MAGNETIC OR MAGNETIZABLE PIGMENT PARTICLES**
[54] **DISPOSITIFS ET PROCEDES D'ORIENTATION DE PARTICULES DE PIGMENT MAGNETIQUES OU MAGNETISABLES EN FORME DE PLAQUETTE**
[72] MULLER, EDGAR, CH
[73] SICPA HOLDING SA, CH
[85] 2017-03-22
[86] 2015-11-20 (PCT/EP2015/077220)
[87] (WO2016/083259)
[30] EP (14195159.0) 2014-11-27

[11] **2,963,994**
[13] C
[51] **Int.Cl. B26D 1/00 (2006.01) B26D 1/06 (2006.01) B26D 1/42 (2006.01)**
[25] EN
[54] **CUTTING KNIFE**
[54] **COUTEAU DE COUPE**
[72] CALVERT, SEAN G., US
[72] JONES, ROBERT E., US
[72] LOVGREN, BRIAN D., US
[72] JAUSORO, LOUIS D., US
[73] KEY TECHNOLOGY, INC., US
[85] 2017-04-06
[86] 2015-10-21 (PCT/US2015/056604)
[87] (WO2016/081135)
[30] US (14/543,449) 2014-11-17

[11] **2,965,106**
[13] C
[51] **Int.Cl. A01K 13/00 (2006.01)**
[25] EN
[54] **TEAT PACK MATERIAL FOR LACTATING LIVESTOCK, KIT FOR FORMING TEAT PACK FOR LACTATING LIVESTOCK, AND METHOD FOR PREVENTING MASTITIS IN LACTATING LIVESTOCK**
[54] **MATERIAU COUVRE-TRAYON POUR LE BETAIL EN LACTATION, TROUSSE DE FORMATION DU COUVRE TRAYON POUR LE BETAIL EN LACTATION ET METHODE DE PREVENTION DE LA MAMMITE DANS LE BETAIL EN LACTATION**
[72] KONDO, HITOSHI, JP
[72] INUI, YOJI, JP
[72] KAZAMA, HIDEKI, JP
[73] TOKUYAMA CORPORATION, JP
[85] 2017-04-19
[86] 2015-11-12 (PCT/JP2015/081905)
[87] (WO2016/080286)
[30] JP (2014-232988) 2014-11-17
[30] JP (2015-103455) 2015-05-21
[30] JP (2015-104432) 2015-05-22

[11] **2,965,962**
[13] C
[51] **Int.Cl. B01J 29/072 (2006.01) B01D 53/56 (2006.01) B01D 53/94 (2006.01) B01J 29/70 (2006.01)**
[25] EN
[54] **MIXED METAL LARGE CRYSTAL MOLECULAR SIEVE CATALYST COMPOSITIONS, CATALYTIC ARTICLES, SYSTEMS AND METHODS**
[54] **COMPOSITIONS DE CATALYSEUR DE TAMIS MOLECULAIRE A GRANDS CRISTAUX DE METAUX MIXTES, ARTICLES CATALYTIQUES, SYSTEMES ET PROCEDE**
[72] MOHANAN, JAYA L., US
[72] YANG, JEFF, US
[72] BURK, PATRICK, US
[72] VOSS, KENNETH E., US
[73] BASF CORPORATION, US
[85] 2017-04-26
[86] 2015-10-30 (PCT/US2015/058393)
[87] (WO2016/070090)
[30] US (62/072,687) 2014-10-30

[11] **2,966,290**
[13] C
[51] **Int.Cl. B67D 7/82 (2010.01) B67D 7/02 (2010.01) A47L 13/26 (2006.01) F24H 1/06 (2006.01)**
[25] EN
[54] **LIQUID DISPENSING APPARATUS**
[54] **APPAREIL DE DISTRIBUTION DE LIQUIDE**
[72] WHITBREAD, MARTIN, GB
[72] BRADING, JARED, GB
[73] STEAM E HOLDINGS LIMITED, GB
[85] 2017-04-28
[86] 2015-10-29 (PCT/GB2015/053241)
[87] (WO2016/067031)
[30] GB (1419365.0) 2014-10-30
[30] GB (1510744.4) 2015-06-18

[11] **2,968,242**
[13] C
[51] **Int.Cl. C07D 253/08 (2006.01) A61K 31/53 (2006.01)**
[25] EN
[54] **4-OXO-3,4-DIHYDRO-1,2,3-BENZOTRIAZINES AS MODULATORS OF GPR139**
[54] **4-OXO-3,4-DIHYDRO-1,2,3-BENZOTRIAZINES UTILISEES EN TANT QUE MODULATEURS DE GPR139**
[72] HITCHCOCK, STEPHEN, US
[72] LAM, BETTY, US
[72] MONENSCHEIN, HOLGER, US
[72] REICHARD, HOLLY, US
[73] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP
[85] 2017-05-17
[86] 2015-11-19 (PCT/US2015/061607)
[87] (WO2016/081736)
[30] US (62/082,539) 2014-11-20
[30] US (62/184,729) 2015-06-25

[11] **2,970,361**
[13] C
[51] **Int.Cl. G01N 1/22 (2006.01) G08B 21/12 (2006.01)**
[25] EN
[54] **MODULAR GAS MONITORING SYSTEM**
[54] **SYSTEME MODULAIRE POUR LA SURVEILLANCE DE GAZ**
[72] BELSKI, TIMOTHY J., US
[72] BRENSTUHL, RODNEY DAVID, US
[72] FUTRELL, JOSHUA ALLEN, US
[72] HUGHES, CHARLES DENNIS, US
[72] MIKULIN, THOMAS MICHAEL, US
[72] SUWALSKI, HENRY J., US
[72] TIMCO, DANIEL JAMES, US
[73] INDUSTRIAL SCIENTIFIC CORPORATION, US
[85] 2017-06-08
[86] 2016-01-15 (PCT/US2016/013558)
[87] (WO2016/115438)
[30] US (62/104,194) 2015-01-16

[11] **2,970,757**
[13] C
[51] **Int.Cl. A61B 5/291 (2021.01) A61B 5/25 (2021.01) A61B 5/31 (2021.01) H05K 9/00 (2006.01)**
[25] EN
[54] **AN ACTIVE ELECTRODE HAVING A CLOSED-LOOP UNIT-GAIN AMPLIFIER WITH CHOPPER MODULATION**
[54] **ELECTRODE ACTIVE COMPRENANT UN AMPLIFICATEUR A GAIN UNITAIRE EN BOUCLE FERMEE A MODULATION A HACHEUR**
[72] KIDMOSE, PREBEN, DK
[72] ZHOU, XIONG, DK
[72] KILSGAARD, SOREN, DK
[72] LI, QIANG, DK
[73] T&W ENGINEERING A/S, DK
[85] 2017-06-13
[86] 2014-12-19 (PCT/EP2014/078651)
[87] (WO2016/096030)

[11] **2,970,780**
[13] C
[51] **Int.Cl. B64C 1/40 (2006.01) B64C 21/02 (2006.01)**
[25] EN
[54] **SOUND ABSORBERS FOR AIRFRAME COMPONENTS**
[54] **ABSORBANTS ACOUSTIQUES POUR PIECES DE CELLULE D'AERONEF**
[72] WONG, RAYMOND LEE MAN, CA
[73] BOMBARDIER INC., CA
[85] 2017-06-13
[86] 2015-12-09 (PCT/IB2015/059473)
[87] (WO2016/097939)
[30] US (62/093,458) 2014-12-18

[11] **2,971,465**
[13] C
[51] **Int.Cl. B25C 1/00 (2006.01) B25C 1/04 (2006.01) B25C 1/06 (2006.01) B25C 5/00 (2006.01) B25C 5/10 (2006.01)**
[25] EN
[54] **GAS SPRING FASTENER DRIVER**
[54] **ENTRAINEUR D'AGRAFEUSE A RESSORT ENTRAINE PAR UN GAZ**
[72] NAMOUZ, ESSAM, US
[73] TTI (MACAO COMMERCIAL OFFSHORE) LIMITED, CN
[86] (2971465)
[87] (2971465)
[22] 2017-06-21
[30] US (62/352,630) 2016-06-21

[11] **2,974,157**
[13] C
[51] **Int.Cl. A01K 61/00 (2017.01) A01K 79/00 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR TAKING UP FISH FROM A BODY OF WATER**
[54] **PROCEDE ET DISPOSITIF PERMETTANT DE PRELEVER DES POISSONS DEPUIS UNE ETENDUE D'EAU**
[72] EGGE, MATS ABRAHAM, NO
[72] WILLASSEN, TORE, NO
[73] SEA SOUL AS, NO
[85] 2017-07-18
[86] 2015-01-21 (PCT/EP2015/051052)
[87] (WO2015/110441)
[30] NO (20140066) 2014-01-21

[11] **2,974,596**
[13] C
[51] **Int.Cl. C07D 277/46 (2006.01) A61K 31/426 (2006.01) A61K 31/427 (2006.01) A61K 31/4535 (2006.01) C07D 417/12 (2006.01)**
[25] EN
[54] **MODULATORS OF THE ADENOSINE A3 RECEPTORS**
[54] **MODULATEURS DES RECEPTEURS D'ADENOSINE A3**
[72] CASTRO-PALOMINO LARIA, JULIO, ES
[72] CAMACHO GOMEZ, JUAN, ES
[73] PALOBIOFARMA, S.L., ES
[85] 2017-07-21
[86] 2016-01-22 (PCT/ES2016/070032)
[87] (WO2016/116652)
[30] ES (P201530085) 2015-01-22

[11] **2,974,748**
[13] C
[51] **Int.Cl. F15D 1/10 (2006.01) B64C 21/02 (2006.01)**
[25] EN
[54] **PHASE TAILORING FOR RESONANT FLOW DEVICES**
[54] **ADAPTATION DE PHASE DE DISPOSITIFS A FLUX RESONANTS**
[72] BRZOZOWSKI, DANIEL PAUL, US
[72] GRIFFIN, STEVEN FULTON, US
[73] THE BOEING COMPANY, US
[86] (2974748)
[87] (2974748)
[22] 2017-07-26
[30] US (15/344,520) 2016-11-06

[11] **2,975,051**
[13] C
[51] **Int.Cl. E21B 44/00 (2006.01) E21B 44/02 (2006.01)**
[25] EN
[54] **METHOD, SYSTEM AND COMPUTER-READABLE MEDIUM FOR AUTOMATICALLY CONTROLLING A DRILLING OPERATION**
[54] **PROCEDE, SYSTEME ET SUPPORT LISIBLE PAR ORDINATEUR SERVANT COMMANDER AUTOMATIQUEMENT UNE OPERATION DE FORAGE**
[72] WILSON, THOMAS WILLIAM CHARLES, CA
[72] NEUFELDT, ADAM CHASE, CA
[72] HARRISON, ERNEST WADE, CA
[72] SCOTVOLD, SEAN WILLIAM, CA
[73] PASON SYSTEMS CORP., CA
[86] (2975051)
[87] (2975051)
[22] 2017-07-28

[11] **2,980,249**
[13] C
[51] **Int.Cl. G21C 1/32 (2006.01) G21C 15/28 (2006.01)**
[25] EN
[54] **NUCLEAR REACTOR, IN PARTICULAR LIQUID-METAL-COOLED COMPACT NUCLEAR REACTOR**
[54] **REACTEUR NUCLEAIRE, EN PARTICULIER UN REACTEUR NUCLEAIRE COMPACT REFROIDI PAR METAL LIQUIDE**
[72] CINOTTI, LUCIANO, IT
[73] HYDROMINE NUCLEAR ENERGY S.A.R.L., LU
[85] 2017-09-19
[86] 2016-03-17 (PCT/IB2016/051503)
[87] (WO2016/147139)
[30] IT (GE2015A000036) 2015-03-19

[11] **2,980,350**
[13] C
[51] **Int.Cl. F02N 11/08 (2006.01) F02N 11/10 (2006.01) G08C 17/02 (2006.01)**
[25] EN
[54] **WORK VEHICLE START SYSTEM AND METHOD WITH VIRTUAL WALK-AROUND FOR AUTHORIZING REMOTE START**
[54] **SYSTEME DE DEMARRAGE DE VEHICULE ET METHODE DE TOURNEE VIRTUELLE VISANT A AUTORISER LE DEMARRAGE A DISTANCE**
[72] BREINER, SCOTT J., US
[72] HUBER, RONALD J., US
[72] WUISAN, GIOVANNI A., US
[73] DEERE & COMPANY, US
[86] (2980350)
[87] (2980350)
[22] 2017-09-26
[30] US (15/597,466) 2017-05-17

[11] **2,983,182**
[13] C
[51] **Int.Cl. B01J 19/20 (2006.01) C10J 3/82 (2006.01) C10L 5/40 (2006.01) C10L 9/08 (2006.01)**
[25] EN
[54] **PYROLYSIS APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE PYROLYSE**
[72] STANLEY, IAN, AU
[72] BURGESS, PETER, AU
[73] RAINBOW BEE EATER IP PTY LTD, AU
[85] 2017-10-18
[86] 2016-04-20 (PCT/AU2016/050286)
[87] (WO2016/168894)
[30] AU (2015901409) 2015-04-20

[11] **2,984,181**
[13] C
[51] **Int.Cl. H04W 72/04 (2009.01) H04W 84/12 (2009.01)**
[25] EN
[54] **WIRELESS LOCAL AREA NETWORK (WLAN) SYSTEM RESOURCE INDICATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL D'INDICATION DE RESSOURCES DE SYSTEME DE RESEAU LOCAL SANS FIL (WLAN)**
[72] LUO, JUN, CN
[72] ZHANG, JIAYIN, CN
[72] PANG, JIYONG, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2017-10-27
[86] 2015-11-12 (PCT/CN2015/094493)
[87] (WO2016/173239)
[30] CN (PCT/CN2015/077912) 2015-04-30
[30] CN (PCT/CN2015/081859) 2015-06-18

[11] **2,984,743**
[13] C
[51] **Int.Cl. E21B 34/14 (2006.01) E21B 23/00 (2006.01)**
[25] EN
[54] **ACTUATABLE SEAT VALVE AND ACTUATORS FOR USE THEREWITH**
[54] **VANNE A SIEGE ACTIONNABLE ET ACTIONNEURS ASSOCIES**
[72] HOLLAN, JEREMY CHARLES COLLIE, CA
[72] HOLLAN, IAIN DOLPHE COLLIE, CA
[73] MOUNTAINVIEW TESTING & CONSULTING LTD., CA
[86] (2984743)
[87] (2984743)
[22] 2017-11-03
[30] US (62/417,422) 2016-11-04

[11] **2,985,847**
[13] C
[51] **Int.Cl. A61N 1/18 (2006.01) A61N 1/05 (2006.01) A61N 1/20 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **INTRATUMORAL MODULATION THERAPY**
[54] **THERAPIE DE MODULATION INTRATUMORALE**
[72] HEBB, MATTHEW OLDING, CA
[72] SCHMID, SUSANNE, CA
[73] LONDON HEALTH SCIENCES CENTRE RESEARCH INC., CA
[85] 2017-11-14
[86] 2016-05-16 (PCT/CA2016/050556)
[87] (WO2016/179712)
[30] US (62/161,481) 2015-05-14

[11] **2,985,918**
[13] C
[51] **Int.Cl. G01B 17/00 (2006.01) F16B 29/00 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS TO ALIGN THREADED FASTENERS**
[54] **METHODES ET APPAREILS D'ALIGNEMENT DE FIXATIONS FILETEES**
[72] GRAY, EVERETTE DESMOND, US
[73] THE BOEING COMPANY, US
[86] (2985918)
[87] (2985918)
[22] 2017-11-15
[30] US (15/415,521) 2017-01-25

[11] **2,985,952**
[13] C
[51] **Int.Cl. H04L 12/16 (2006.01) G06F 16/95 (2019.01) G06F 3/14 (2006.01) G06F 17/00 (2019.01) G06Q 50/00 (2012.01)**
[25] EN
[54] **VIEW ORIENTED SOCIAL NETWORK**
[54] **RESEAU SOCIAL ORIENTE SUR LA VISUALISATION**
[72] KARPENKO, OLEG, CA
[73] KARPENKO, OLEG, CA
[85] 2017-10-31
[86] 2014-06-05 (PCT/CA2014/050520)
[87] (WO2015/184522)

[11] **2,986,417**
[13] C
[51] **Int.Cl. B01D 67/00 (2006.01) B01D 69/12 (2006.01)**
[25] EN
[54] **SUPPORTED WATER VAPOR TRANSPORT MEMBRANE COMPRISING POLYETHYLENE OXIDE COPOLYMER**
[54] **MEMBRANE DE TRANSPORT DE VAPEUR D'EAU SOUTENUE COMPRENANT UN COPOLYMERE D'OXYDE DE POLYETHYLENE**
[72] HUIZING, RYAN NICHOLAS, CA
[72] CHEN, HAO, CA
[72] WONG, FRANKIE KIN BONG, CA
[73] CORE ENERGY RECOVERY SOLUTIONS INC., CA
[85] 2017-11-17
[86] 2016-05-30 (PCT/CA2016/050610)
[87] (WO2016/191868)
[30] US (62/168,724) 2015-05-30

[11] **2,990,298**
[13] C
[51] **Int.Cl. A61K 31/44 (2006.01) A61P 31/12 (2006.01) C07D 213/73 (2006.01)**
[25] EN
[54] **AGENTS FOR THE TREATMENT OF RETROVIRAL INFECTIOUS DISEASES**
[54] **AGENTS DE TRAITEMENT DE MALADIES INFECTIEUSES RETROVIRALES**
[72] SCHUBERT, ULRICH, DE
[72] SETZ, CHRISTIAN, DE
[72] BRYSCH, WOLFGANG, DE
[72] VON WEGERER, JORG, DE
[73] IMMUNOLOGIK GMBH, DE
[85] 2017-12-20
[86] 2015-07-10 (PCT/DE2015/000357)
[87] (WO2016/004917)
[30] DE (10 2014 010 220.3) 2014-07-10

[11] **2,991,384**
[13] C
[51] **Int.Cl. C07C 59/76 (2006.01) A61K 47/54 (2017.01) A61K 47/68 (2017.01) A61K 49/00 (2006.01) A61K 51/04 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **BRIDGE LINKERS FOR CONJUGATION OF A CELL-BINDING MOLECULE**
[54] **LIANTS DE PONT SERVANT A LA CONJUGAISON D'UNE MOLECULE LIANT UNE CELLULE**
[72] ZHAO, ROBERT YONGXIN, US
[73] HANGZHOU DAC BIOTECH CO., LTD, CN
[85] 2018-01-04
[86] 2015-07-04 (PCT/IB2015/055051)
[87] (WO2015/151080)

[11] **2,994,532**
[13] C
[51] **Int.Cl. E21B 33/06 (2006.01) E21B 34/16 (2006.01) F15B 3/00 (2006.01)**
[25] EN
[54] **FLOW RESPONSIVENESS ENHANCER FOR A BLOWOUT PREVENTER**
[54] **DISPOSITIF D'AMELIORATION DE LA REACTIVITE A L'ECOULEMENT POUR UN OBTURATEUR ANTI-ERUPTION**
[72] STEFFENHAGEN, TIMOTHY, US
[73] NATIONAL OILWELL VARCO, L.P., US
[85] 2018-02-01
[86] 2016-02-03 (PCT/US2016/016321)
[87] (WO2017/023362)
[30] US (62/202,131) 2015-08-06

[11] **2,997,435**
[13] C
[51] **Int.Cl. C12M 1/42 (2006.01) C12N 13/00 (2006.01) G01N 15/08 (2006.01) G01N 27/02 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **HIGH THROUGHPUT, FEEDBACK-CONTROLLED ELECTROPORATION MICRODEVICE FOR EFFICIENT MOLECULAR DELIVERY INTO SINGLE CELLS**
[54] **MICRODISPOSITIF D'ELECTROPORATION A DEBIT ELEVE ET A COMMANDE DE RETROACTION POUR L'ADMINISTRATION MOLECULAIRE EFFICACE A DES CELLULES UNIQUES**
[72] ZAHN, JEFFREY, US
[72] ZHENG, MINGDE, US
[72] SHREIBER, DAVID I., US
[72] LIN, HAO, US
[72] SHAN, JERRY W., US
[73] RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY, US
[85] 2018-03-02
[86] 2016-09-02 (PCT/US2016/050201)
[87] (WO2017/040995)
[30] US (62/214,665) 2015-09-04

[11] **2,998,205**
[13] C
[51] **Int.Cl. A63B 23/02 (2006.01)**
[25] EN
[54] **MANUAL BACK TRACTION DEVICE**
[54] **DISPOSITIF MANUEL DE PROPULSION**
[72] SWEENEY, MICHAEL J., CA
[73] SWEENEY, MICHAEL J., CA
[86] (2998205)
[87] (2998205)
[22] 2018-03-15

[11] **2,998,688**
[13] C
[51] **Int.Cl. H05K 3/28 (2006.01) B05D 1/00 (2006.01) C23C 14/50 (2006.01) C23C 14/56 (2006.01)**
[25] EN
[54] **POLYMER COATINGS AND METHODS FOR DEPOSITING POLYMER COATINGS**
[54] **REVETEMENTS EN POLYMERE ET PROCEDES POUR DEPOSER DES REVETEMENTS EN POLYMERE**
[72] LOULIDI, SAMIR, BE
[72] ROGGE, EVA, BE
[72] LEGEIN, FILIP, BE
[73] EUROPLASMA NV, BE
[85] 2018-03-14
[86] 2016-09-23 (PCT/EP2016/072774)
[87] (WO2017/051019)
[30] EP (15186771.0) 2015-09-24

[11] **2,999,151**
[13] C
[51] **Int.Cl. B64D 43/00 (2006.01) B64D 47/00 (2006.01) G07C 5/00 (2006.01)**
[25] EN
[54] **AUTOMATED LOGGING OF AIRCRAFT OOOI TIMES USING MOBILE DEVICE**
[54] **ENREGISTREMENT AUTOMATISE D'HEURES OOOI D'UN AERONEF AU MOYEN D'UN APPAREIL MOBILE**
[72] LONSKI, THOMAS EDWARD, US
[72] ARDREY, MATTHEW J., US
[72] BEST, WILLIAM PAUL, US
[73] THE BOEING COMPANY, US
[86] (2999151)
[87] (2999151)
[22] 2018-03-22
[30] US (15/598874) 2017-05-18

[11] **3,004,394**
[13] C
[51] **Int.Cl. G01D 5/353 (2006.01) G01B 11/16 (2006.01)**
[25] EN
[54] **OPTOELECTRONIC DISTRIBUTED MEASURING DEVICE BASED ON BRILLOUIN SCATTERING**
[54] **DISPOSITIF OPTOELECTRONIQUE DE MESURE REPARTIE PAR DIFFUSION BRILLOUIN**
[72] LANTICQ, VINCENT, FR
[73] FEBUS OPTICS, FR
[85] 2018-05-04
[86] 2016-11-04 (PCT/FR2016/052870)
[87] (WO2017/077257)
[30] FR (1560681) 2015-11-06

[11] **3,005,788**
[13] C
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/50 (2020.01)**
[25] EN
[54] **ELECTRICALLY-POWERED AEROSOL DELIVERY SYSTEM**
[54] **SYSTEME DE DISTRIBUTION D'AEROSOL ELECTRIQUE**
[72] SEARS, STEPHEN BENSON, US
[72] TALUSKIE, KAREN V., US
[72] DAVIS, MICHAEL F., US
[72] ADEME, BALAGER, US
[72] HUBBARD, SAWYER AUSTIN, US
[73] R. J. REYNOLDS TOBACCO COMPANY, US
[85] 2018-05-18
[86] 2016-11-18 (PCT/IB2016/056979)
[87] (WO2017/089939)
[30] US (14/950,724) 2015-11-24

[11] **3,006,728**
[13] C
[51] **Int.Cl. H02M 7/04 (2006.01) H02J 50/12 (2016.01) H02M 5/42 (2006.01)**
[25] EN
[54] **CURRENT TRANSFORMER DEVICE UNIT AND MAGNETIC INDUCTION POWER SUPPLYING DEVICE FOR LINEARLY CONTROLLING OUTPUT POWER BY USING THE SAME**
[54] **MODULE DE DISPOSITIF TRANSFORMATEUR DE COURANT ET DISPOSITIF D'ALIMENTATION PAR INDUCTION MAGNETIQUE DE PUISSANCE DE SORTIE DE COMMANDE LINEAIRE AU MOYEN DUDIT MODULE**
[72] KOO, JA-IL, US
[73] FERRARISPOWER CO., LTD., KR
[86] (3006728)
[87] (3006728)
[22] 2014-11-19
[62] 2,941,529
[30] KR (10-2014-0025317) 2014-03-04

[11] **3,007,210**
[13] C
[51] **Int.Cl. C08F 220/14 (2006.01) C08F 220/10 (2006.01) C08F 220/12 (2006.01) C09D 113/02 (2006.01)**
[25] EN
[54] **EMULSION POLYMERS AND STAIN RESISTANT COATING COMPOSITIONS MADE THEREFROM**
[54] **POLYMERES EN EMULSION ET COMPOSITIONS DE REVETEMENT RESISTANT AUX TACHES OBTENUES A PARTIR DESDITS POLYMERES**
[72] WU, WENJUN, US
[73] ARKEMA INC., US
[85] 2018-06-01
[86] 2016-11-30 (PCT/US2016/064149)
[87] (WO2017/095881)
[30] US (62/261,952) 2015-12-02

[11] **3,008,090**
[13] C
[51] **Int.Cl. B64C 1/06 (2006.01) B64F 5/10 (2017.01) B64C 3/18 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS TO INCREASE STRENGTH AND TOUGHNESS OF AIRCRAFT STRUCTURAL COMPONENTS**
[54] **METHODES ET APPAREILS PERMETTANT D'AUGMENTER LA SOLIDITE ET LA RESISTANCE DES COMPOSANTES STRUCTURALES D'AERONEF**
[72] CHENG, JIANGTIAN, US
[72] BEHZADPOUR, FOROUZAN, US
[73] THE BOEING COMPANY, US
[86] (3008090)
[87] (3008090)
[22] 2018-06-12
[30] US (15/676,047) 2017-08-14

[11] **3,010,306**
[13] C
[51] **Int.Cl. B01J 20/28 (2006.01) B01D 15/36 (2006.01)**
[25] EN
[54] **OPEN CELL OR RETICULATED FOAM FUNCTIONALIZED OPEN-NETWORK STRUCTURE FOR SELECTIVE SEPARATION OF MINERAL PARTICLES IN AN AQUEOUS SYSTEM**
[54] **STRUCTURE A RESEAU OUVERT FONCTIONNALISEE A MOUSSE RETICULEE OU CELLULE OUVERTE PERMETTANT LA SEPARATION SELECTIVE DE PARTICULES MINERALES DANS UN SYSTEME AQUEUX**
[72] BAILEY, TIMOTHY J., US
[72] FERNALD, MARK R., US
[72] DOLAN, PAUL, US
[72] GREENE, ALISON K., US
[72] RYAN, MICHAEL, US
[72] COPPOLA, MICHAEL D., US
[72] LASSILA, KEVIN RODNEY, US
[72] ROTHMAN, PAUL J., US
[73] CIDRA CORPORATE SERVICES LLC, US
[85] 2018-06-29
[86] 2017-01-09 (PCT/US2017/012689)
[87] (WO2017/120569)
[30] US (62/276,051) 2016-01-07
[30] US (62/405,569) 2016-10-07

[11] **3,013,060**
[13] C
[51] **Int.Cl. B02C 1/10 (2006.01) B02C 1/02 (2006.01) B02C 1/06 (2006.01) B23D 31/00 (2006.01) B23D 35/00 (2006.01) E02F 3/36 (2006.01)**
[25] EN
[54] **PULVERIZER ATTACHMENT WITH TOOTH RAILS**
[54] **ACCESSOIRE PULVERISATEUR MUNI DE RAILS POUR DENTS**
[72] RAIHALA, DANIEL, US
[72] JOHNSON, ROGER, US
[73] GENESIS ATTACHMENTS, LLC, US
[85] 2018-07-27
[86] 2017-01-31 (PCT/US2017/015910)
[87] (WO2017/132705)
[30] US (62/289,294) 2016-01-31

[11] **3,013,653**
[13] C
[51] **Int.Cl. G01W 1/14 (2006.01) E05F 15/71 (2015.01) E05F 15/79 (2015.01) B60W 40/06 (2012.01) G01C 21/32 (2006.01) G01C 21/34 (2006.01)**
[25] EN
[54] **DISDROMETER HAVING ACOUSTIC TRANSDUCER AND METHODS THEREOF**
[54] **DISDROMETRE COMPORTANT UN TRANSDUCTEUR ACOUSTIQUE ET PROCEDES ASSOCIES**
[72] WOLF, LAWRENCE ADAM, US
[72] SIEGFRIED, BENJAMIN JOSEPH, US
[72] SMITH, ADAM LEE, US
[73] ARABLE LABS, INC., US
[85] 2018-08-02
[86] 2017-03-08 (PCT/US2017/021447)
[87] (WO2017/156187)
[30] US (62/305,211) 2016-03-08
[30] US (15/452,457) 2017-03-07

[11] **3,015,484**
[13] C
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **NOVEL CONDENSED PYRIMIDINE COMPOUND OR SALT THEREOF**
[54] **NOUVEAU COMPOSE PYRIMIDINE CONDENSE OU SEL DE CELUI-CI**
[72] MIYAZAKI, ISAO, JP
[72] SHIMAMURA, TADASHI, JP
[72] KATO, MASANORI, JP
[72] FUJITA, HIDENORI, JP
[72] IGUCHI, SATORU, JP
[73] TAIHO PHARMACEUTICAL CO., LTD., JP
[85] 2018-08-22
[86] 2017-02-22 (PCT/JP2017/006672)
[87] (WO2017/146116)
[30] JP (2016-031919) 2016-02-23
[30] JP (2016-140801) 2016-07-15

[11] **3,016,929**
[13] C
[51] **Int.Cl. B30B 15/02 (2006.01) B30B 9/30 (2006.01) B30B 15/06 (2006.01) F16J 1/12 (2006.01)**
[25] EN
[54] **PRESS RAM FASTENING SYSTEM**
[54] **SYSTEME DE FIXATION DE VERIN DE PRESSE**
[72] OUDE GROTEBEVELSBORG, WILLEM JAN, NL
[72] GONELLA, CARLO, IT
[73] ANAERGIA B.V., NL
[85] 2018-09-07
[86] 2017-03-15 (PCT/EP2017/056087)
[87] (WO2017/158000)
[30] US (62/310,327) 2016-03-18

[11] **3,017,878**
[13] C
[51] **Int.Cl. B26B 29/06 (2006.01) B64F 5/40 (2017.01) B23P 6/00 (2006.01) B64C 1/40 (2006.01)**
[25] EN
[54] **STRUCTURAL REWORK OF CELLULAR CORE PANELS**
[54] **REPRISE STRUCTURELLE DE PANNEAUX A NOYAU CELLULAIRE**
[72] EVENS, MICHAEL W., US
[72] PILARCA, GENESIS, US
[72] DESAI, NIHAR A., US
[72] WALTER, DAVID M., US
[72] ADAMS, EBONNI J., US
[72] TITUS, NICOLE, US
[72] VIMALA, SHEKAR, US
[72] BARRETT, TIMOTHY S., US
[72] SPALDING, JOHN, US
[72] PERRON, DAN, US
[73] THE BOEING COMPANY, US
[86] (3017878)
[87] (3017878)
[22] 2018-09-19
[30] US (15/825335) 2017-11-29

[11] **3,020,117**
[13] C
[51] **Int.Cl. H02J 3/00 (2006.01) H02M 1/44 (2007.01) H02M 7/44 (2006.01) H02P 27/08 (2006.01)**
[25] EN
[54] **PARALLEL MODULAR CONVERTER ARCHITECTURE**
[54] **ARCHITECTURE DE CONVERTISSEUR MODULAIRE PARALLELE**
[72] GAO, LIJUN, US
[72] KARIMI, KAMIAR J., US
[72] KROLAK, MATTHEW J., US
[72] LIU, SHENGYI, US
[72] SOLODOVNIK, EUGENE V., US
[72] WINSTANLEY, ADAM J., US
[73] THE BOEING COMPANY, US
[86] (3020117)
[87] (3020117)
[22] 2015-08-14
[62] 2,900,640
[30] US (14/502,350) 2014-09-30

[11] **3,021,075**
[13] C
[51] **Int.Cl. A41D 13/005 (2006.01)**
[25] EN
[54] **HIGH-PRESSURE PASSTHROUGH FOR PROTECTIVE SUIT**
[54] **PASSAGE HAUTE PRESSION POUR COMBINAISON DE PROTECTION**
[72] LAWSON, KENNETH, US
[72] HANSEN, BRENNAN E., US
[73] SPECIAL PROJECTS OPERATIONS, INC., US
[85] 2018-10-15
[86] 2017-04-06 (PCT/US2017/026272)
[87] (WO2017/180414)
[30] US (15/098,981) 2016-04-14

[11] **3,021,477**
[13] C
[51] **Int.Cl. G06T 7/00 (2017.01)**
[25] EN
[54] **A METHOD OF INSPECTING THE QUALITY OF BLANKS, IN PARTICULAR OF BLANKS TO BE PROCESSED INTO PACKAGING MATERIAL, AND QUALITY INSPECTION SYSTEM**
[54] **PROCEDE D'INSPECTION DE QUALITE DE FLANS, EN PARTICULIER DE FLANS DEVANT ETRE TRAITES EN MATERIAU D'EMBALLAGE, ET SYSTEME D'INSPECTION DE QUALITE**
[72] PORRET, OLIVIER, CH
[72] BELLINO, MARIO, CH
[72] ALONSO, JERONIMO, CH
[72] TOMA, CLAUDE, CH
[73] BOBST MEX SA, CH
[85] 2018-10-18
[86] 2017-05-11 (PCT/EP2017/025119)
[87] (WO2017/194201)
[30] EP (16169645.5) 2016-05-13

[11] **3,023,884**
[13] C
[51] **Int.Cl. G01L 1/04 (2006.01) B25J 19/04 (2006.01)**
[25] EN
[54] **A PRACTICAL SENSING SYSTEM**
[54] **SYSTEME DE DETECTION PRATIQUE**
[72] BUYUKSAHIN, UTKU, TR
[73] SENSOBRIGHT INDUSTRIES, LLC, US
[85] 2018-11-09
[86] 2017-04-27 (PCT/TR2017/050169)
[87] (WO2017/196282)
[30] TR (2016/06374) 2016-05-13

[11] **3,028,866**
[13] C
[51] **Int.Cl. G01N 9/24 (2006.01) G01N 29/00 (2006.01) G01N 33/38 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING DENSITY OF FRESH CONCRETE, COMPUTING DEVICE AND SYSTEM THEREFORE**
[54] **PROCEDE DE DETERMINATION DE DENSITE DE BETON FRAIS, DISPOSITIF INFORMATIQUE ET SYSTEME S'Y RAPPORTANT**
[72] BEAUPRE, DENIS, CA
[73] COMMAND ALKON INCORPORATED, US
[85] 2018-12-20
[86] 2017-07-04 (PCT/EP2017/066658)
[87] (WO2018/007396)
[30] US (62/358,405) 2016-07-05

[11] **3,029,982**
[13] C
[51] **Int.Cl. G08B 21/18 (2006.01) D06F 33/47 (2020.01) A47L 15/00 (2006.01) D06F 39/02 (2006.01)**
[25] EN
[54] **LIQUID OUT-OF-PRODUCT ALARM SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'ALARME DE MANQUE DE PRODUIT LIQUIDE**
[72] ISMAIL, HUSAM, US
[72] DOBIZL, KENNETH THOMAS, US
[72] HOLZMAN, LOUIS MARK, US
[72] SHARPE, SONYA SHAILESH, US
[72] KAHLHAMER, JASON ANDREW, US
[72] ZURBEY, MATTHEW FRANK, US
[73] ECOLAB USA INC., US
[85] 2019-01-04
[86] 2017-06-27 (PCT/US2017/039497)
[87] (WO2018/009376)
[30] US (15/202,002) 2016-07-05

[11] **3,030,898**
[13] C
[51] **Int.Cl. A61C 5/88 (2017.01) A61C 5/62 (2017.01)**
[25] EN
[54] **WEDGE DEVICE FOR FACILITATING TREATMENT OF INTERPROXIMAL DENTAL CARIES, AND METHOD OF USE**
[54] **DISPOSITIF DE CALE POUR FACILITER LE TRAITEMENT DE CARIES DENTAIRES INTERPROXIMALES ET SON PROCEDE D'UTILISATION**
[72] FLANAGAN, DENNIS F., US
[73] FLANAGAN, DENNIS F., US
[86] (3030898)
[87] (3030898)
[22] 2019-01-22
[30] US (15/984,329) 2018-05-19

[11] **3,032,679**
[13] C
[51] **Int.Cl. F26B 3/30 (2006.01) B41F 23/04 (2006.01) B41L 23/20 (2006.01) B41M 7/00 (2006.01) D21F 5/16 (2006.01) F26B 3/28 (2006.01) F26B 13/10 (2006.01) F26B 13/20 (2006.01)**
[25] EN
[54] **IMPROVED INFRARED FLOAT BAR**
[54] **BARRE FLOTTANTE INFRAROUGE AMELIOREE**
[72] ZAGAR, STEVEN J., US
[72] ROCHELEAU, MICHAEL O., US
[72] PETERSON, LES, US
[73] DURR SYSTEMS, INC., US
[86] (3032679)
[87] (3032679)
[22] 2010-06-02
[62] 2,904,511
[30] US (61/184,353) 2009-06-05

[11] **3,033,453**
[13] C
[51] **Int.Cl. C07C 49/786 (2006.01) C09D 145/00 (2006.01)**
[25] EN
[54] **BENZOPHENONE DERIVATIVE, AQUEOUS COPOLYMER DISPERSION AND AQUEOUS COATING COMPOSITION**
[54] **DERIVE DE BENZOPHENONE, DISPERSION AQUEUSE DE COPOLYMERE ET COMPOSITION AQUEUSE DE REVETEMENT**
[72] WANG, YUJIANG, CN
[72] LIU, HUI, CN
[72] WANG, CAIFENG, CN
[72] XU, JIANMING, CN
[72] LI, LING, CN
[72] MAURICE, ALVIN MICHAEL, US
[72] CHEN, HONGYU, CN
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[73] ROHM AND HAAS COMPANY, US
[85] 2019-02-08
[86] 2016-08-17 (PCT/CN2016/095677)
[87] (WO2018/032410)

[11] **3,035,469**
[13] C
[51] **Int.Cl. G01H 11/08 (2006.01) G10K 9/122 (2006.01)**
[25] EN
[54] **HYDROPHONE, TRANSDUCTION METHOD, AND COMPOUND HYDROPHONE**
[54] **HYDROPHONE, PROCEDE DE TRANSDUCTION ET HYDROPHONE COMPOSITE**
[72] LIU, GUOXI, CN
[72] WANG, PENGHUI, CN
[72] WANG, ZHIPENG, CN
[72] SHI, HUADUO, CN
[73] BEIJING SUPERSONIC TECHNOLOGY CO., LTD., CN
[85] 2019-02-27
[86] 2017-08-31 (PCT/CN2017/100075)
[87] (WO2018/041238)
[30] CN (201610798527.2) 2016-08-31

[11] **3,035,765**
[13] C
[51] **Int.Cl. E05F 15/00 (2015.01) H04H 40/00 (2009.01) E05F 15/77 (2015.01) E05F 15/78 (2015.01) E01F 13/04 (2006.01) G05B 19/418 (2006.01) G05D 3/00 (2006.01)**
[25] EN
[54] **LOCATION AWARE BARRIER OPERATION**
[54] **ACTIONNEMENT DE BARRIERE SENSIBLE A LA POSITION**
[72] BODURKA, ALEX, US
[72] CATE, CASPARUS, US
[72] KARASEK, MARK L., US
[73] THE CHAMBERLAIN GROUP LLC, US
[85] 2019-03-04
[86] 2017-09-18 (PCT/US2017/052042)
[87] (WO2018/053416)
[30] US (62/396,589) 2016-09-19

[11] **3,036,805**
[13] C
[51] **Int.Cl. H05B 45/30 (2020.01) F21K 9/00 (2016.01) H05B 45/10 (2020.01) H05B 45/20 (2020.01) H05B 45/40 (2020.01)**
[25] EN
[54] **ILLUMINATION DEVICE AND METHOD FOR ADJUSTING PERIODIC CHANGES IN EMULATION OUTPUT**
[54] **DISPOSITIF D'ECLAIRAGE ET PROCEDE DE REGLAGE DE CHANGEMENTS PERIODIQUES DANS UNE SORTIE D'EMULATION**
[72] SOOCH, NAV, US
[72] HO, HORACE C., US
[72] FRANK, REBECCA, US
[72] LEWIS, JASON E., US
[72] BOCOCK, RYAN MATTHEW, US
[73] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2019-03-13
[86] 2017-08-07 (PCT/US2017/045728)
[87] (WO2018/052571)
[30] US (15/264,775) 2016-09-14
[30] US (15/264,815) 2016-09-14
[30] US (15/264,863) 2016-09-14
[30] US (15/639,633) 2017-06-30

[11] **3,038,681**
[13] C
[51] **Int.Cl. C03B 20/00 (2006.01) B33Y 10/00 (2015.01) C03B 19/06 (2006.01)**
[25] EN
[54] **COMPOSITION AND PROCESS FOR THE PRODUCTION OF A MOLDING MADE OF HIGH-PURITY TRANSPARENT QUARTZ GLASS, BY MEANS OF ADDITIVE MANUFACTURE**
[54] **COMPOSITION ET PROCEDE DE FABRICATION D'UNE PIECE EN VERRE DE QUARTZ TRANSPARENT DE GRANDE PURETE PAR FABRICATION ADDITIVE**
[72] RAPP, BASTIAN, DE
[72] KOTZ, FREDERIK, DE
[73] GLASSOMER GMBH, DE
[85] 2019-03-28
[86] 2017-10-04 (PCT/EP2017/001169)
[87] (WO2018/065093)
[30] DE (10 2016 012 003.7) 2016-10-06

[11] **3,041,781**
[13] C
[51] **Int.Cl. C10L 10/04 (2006.01) C10L 1/12 (2006.01) C10M 125/26 (2006.01)**
[25] EN
[54] **METHODS FOR PREVENTING MICROBIAL GROWTH AND MICROBIOLOGICALLY INFLUENCED CORROSION IN A BIODEGRADABLE AND/OR RENEWABLE FUEL, HYDRAULIC FLUID AND/OR LUBRICANT**
[54] **PROCEDES DE PREVENTION DE LA PROLIFERATION MICROBIENNE ET DE LA CORROSION INFLUENCEE PAR LES MICROORGANISMES DANS UN COMBUSTIBLE BIODEGRADABLE ET/OU RENOUVELABLE, UN FLUIDE HYDRAU LIQUE ET/OU UN LUBRIFIANT**
[72] UNDEN, MAGNUS, SE
[72] FIELD, IAN, GB
[72] NILSSON, KRISTINA, SE
[73] TRIBORON INTERNATIONAL AB, SE
[85] 2019-04-25
[86] 2017-10-27 (PCT/SE2017/051055)
[87] (WO2018/080388)
[30] SE (1651410-1) 2016-10-27

[11] **3,043,494**
[13] C
[51] **Int.Cl. B01F 29/10 (2022.01) A61J 1/00 (2006.01) A61J 3/04 (2006.01) A61K 9/02 (2006.01) A61K 9/10 (2006.01) A61K 9/20 (2006.01) A61K 31/05 (2006.01) A61K 31/197 (2006.01) A61K 31/352 (2006.01) A61K 36/185 (2006.01) A61K 47/10 (2017.01) A61K 47/42 (2017.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOUNDING METHODS AND SYSTEMS**
[54] **PROCEDES ET SYSTEMES DE COMPOSITION PHARMACEUTIQUE**
[72] DANOPOULOS, PANAGIOTA, CA
[72] JOINER, MARC, CA
[72] NYAT PENG WONG, SARAH, CA
[72] TALEBI, VARGHA, CA
[72] BADER, PATRICK-MARTIN, CA
[73] MEDISCA PHARMACEUTIQUE INC., CA
[85] 2019-05-10
[86] 2017-11-10 (PCT/CA2017/051350)
[87] (WO2018/085942)
[30] US (62/420,426) 2016-11-10

[11] **3,050,149**
[13] C
[51] **Int.Cl. C12N 9/00 (2006.01) C12N 1/21 (2006.01) C12N 15/52 (2006.01) C12N 15/63 (2006.01) C12P 19/32 (2006.01)**
[25] EN
[54] **NOVEL ADENYLOSUCCINATE SYNTHETASE AND METHOD FOR PRODUCING PURINE NUCLEOTIDES USING THE SAME**
[54] **ADENYLOSUCCINATE SYNTHETASE NOVATRICE ET METHODE DE PRODUCTION DE NUCLEOTIDES DE PURINE L'EMPLOYANT**
[72] BAEK, MIN JI, KR
[72] LEE, JI HYE, KR
[72] PARK, SO-JUNG, KR
[72] BAE, JEE YEON, KR
[73] CJ CHEILJEDANG CORPORATION, KR
[85] 2019-07-17
[86] 2018-08-23 (PCT/KR2018/009714)
[87] (WO2020/027362)
[30] KR (10-2018-0089855) 2018-08-01

[11] **3,050,234**
[13] C
[51] **Int.Cl. B01D 21/01 (2006.01) B03B 9/02 (2006.01)**
[25] EN
[54] **TECHNIQUES FOR FLOCCULATING AND DEWATERING FINE TAILINGS**
[54] **TECHNIQUES DE FLOCULATION ET DE DESHYDRATATION DE RESIDUS FINS**
[72] REVINGTON, ADRIAN PETER, CA
[72] OMOTOSO, OLADIPO, CA
[72] WELLS, PATRICK SEAN, CA
[72] HANN, THOMAS CHARLES, CA
[72] WEISS, MARVIN HARVEY, CA
[72] BUGG, TREVOR, CA
[72] EASTWOOD, JAMIE, CA
[72] YOUNG, STEPHEN JOSEPH, CA
[72] O'NEILL, HUGUES ROBERT, CA
[72] SANCHEZ, ANA CRISTINA, CA
[73] SUNCOR ENERGY INC., CA
[86] (3050234)
[87] (3050234)
[22] 2010-04-22
[62] 2,936,031
[30] CA (2,678,818) 2009-09-15
[30] CA (2,684,232) 2009-10-30
[30] CA (2,686,831) 2009-12-02

[11] **3,053,674**
[13] C
[51] **Int.Cl. H01P 7/10 (2006.01) H01P 1/205 (2006.01) H01P 1/212 (2006.01)**
[25] EN
[54] **DIELECTRIC FILTER, TRANSCEIVER DEVICE, AND BASE STATION**
[54] **FILTRE DIELECTRIQUE, DISPOSITIF EMETTEUR-RECEPTEUR ET STATION DE BASE**
[72] JIANG, TAO, CN
[72] GUO, JIYONG, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-08-15
[86] 2017-02-16 (PCT/CN2017/073789)
[87] (WO2018/148905)

[11] **3,053,930**
[13] C
[51] **Int.Cl. G05B 15/02 (2006.01)**
[25] EN
[54] **INTEGRATING AND CONTROLLING MULTIPLE LOAD CONTROL SYSTEMS**
[54] **INTEGRATION ET COMMANDE DE MULTIPLES SYSTEMES DE COMMANDE DE CHARGE**
[72] BULL, JOHN H., US
[72] PRASAD, RAM K., US
[73] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2019-08-16
[86] 2018-02-20 (PCT/US2018/018832)
[87] (WO2018/152533)
[30] US (62/461,195) 2017-02-20

[11] **3,055,033**
[13] C
[51] **Int.Cl. A61M 25/06 (2006.01) A61M 5/158 (2006.01) A61M 25/00 (2006.01) A61M 39/06 (2006.01)**
[25] EN
[54] **INTRAVENOUS CATHETER ASSEMBLY WITH CANNULA SAFETY MECHANISM**
[54] **ENSEMBLE CATHETER INTRAVEINEUX DOTE D'UN MECANISME DE SECURITE DE CANULE**
[72] NAING, TOE TOE, SG
[72] CHENG, KIAT JIN, SG
[72] WONG, YUN HUI, SG
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2019-08-29
[86] 2018-01-16 (PCT/US2018/013913)
[87] (WO2018/164769)
[30] SG (10201701920Q) 2017-03-09

[11] **3,055,069**
[13] C
[51] **Int.Cl. A61B 17/11 (2006.01) A61B 17/00 (2006.01)**
[25] EN
[54] **DEPLOYMENT CONSTRAINING SHEATH THAT ENABLES STAGED DEPLOYMENT BY DEVICE SECTION**
[54] **GAINE DE CONTRAINTE DE DEPLOIEMENT QUI PERMET UN DEPLOIEMENT ETAGE PAR SECTION DE DISPOSITIF**
[72] JOHNSON, MATTHEW A., US
[73] W. L. GORE & ASSOCIATES, INC., US
[85] 2019-08-29
[86] 2018-04-18 (PCT/US2018/028120)
[87] (WO2018/195169)
[30] US (62/486,744) 2017-04-18
[30] US (15/955,381) 2018-04-17

[11] **3,056,268**
[13] C
[51] **Int.Cl. G01V 1/32 (2006.01)**
[25] EN
[54] **METHOD FOR DETECTING HYDROCARBONS OF AVO ATTRIBUTE CROSSPLOT, AND COMPUTER STORAGE MEDIUM**
[54] **PROCEDE DE DETECTION D'HYDROCARBURES PAR CROISEMENT D'ATTRIBUT AVO ET SUPPORT DE STOCKAGE INFORMATIQUE**
[72] ZHANG, GUANGRONG, CN
[72] RAN, QI, CN
[72] XIAO, FUSEN, CN
[72] YU, HAO, CN
[72] MA, BO, CN
[72] YU, YI, CN
[72] LIAO, QI, CN
[72] LIANG, HAN, CN
[72] ZHANG, XUAN, CN
[72] CHEN, XIAO, CN
[72] LU, XIAOMIN, CN
[73] PETROCHINA COMPANY LIMITED, CN
[85] 2019-09-12
[86] 2017-05-09 (PCT/CN2017/083552)
[87] (WO2018/166055)
[30] CN (201710154281.X) 2017-03-15

[11] **3,060,911**
[13] C
[51] **Int.Cl. C23C 22/68 (2006.01) C23C 22/78 (2006.01) C23G 1/08 (2006.01)**
[25] EN
[54] **FOUR-FUNCTION STEEL SURFACE TREATMENT LIQUID AND PREPARATION METHOD THEREOF**
[54] **LIQUIDE DE TRAITEMENT DE SURFACE D'ACIER A QUATRE FONCTIONS ET METHODE DE PREPARATION**
[72] WAN, CHUEN KWOON, CA
[73] WAN, CHUEN KWOON, CA
[86] (3060911)
[87] (3060911)
[22] 2019-11-05

[11] **3,061,160**
[13] C
[51] **Int.Cl. H04W 72/04 (2009.01)**
[25] EN
[54] **SIGNAL PROCESSING METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE TRAITEMENT DU SIGNAL**
[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-10-23
[86] 2017-04-25 (PCT/CN2017/081860)
[87] (WO2018/195777)

---

[11] **3,062,886**
[13] C
[51] **Int.Cl. B65D 85/804 (2006.01)**
[25] EN
[54] **BEVERAGE PREPARATION CAPSULES**
[54] **CAPSULE DE PREPARATION DE BOISSON**
[72] WICKS, DAVID X., GB
[72] FLETCHER, PAUL R., GB
[73] LAVAZZA PROFESSIONAL NORTH AMERICA, LLC, US
[85] 2019-10-25
[86] 2018-04-27 (PCT/US2018/029898)
[87] (WO2018/201015)
[30] GB (1706836.2) 2017-04-28

---

[11] **3,063,148**
[13] C
[51] **Int.Cl. F02B 37/12 (2006.01) F01N 9/00 (2006.01) F02B 33/34 (2006.01) F02D 23/00 (2006.01) F02D 39/04 (2006.01) F02D 43/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CONTROLLING PRESSURE IN A TUNED PIPE OF A TWO STROKE ENGINE**
[54] **METHODE ET SYSTEME POUR REGULER LA PRESSION DANS UN TUYAU D`ECHAPPEMENT CALIBRE D`UN MOTEUR A DEUX TEMPS**
[72] BUCHWITZ, JAMES H., US
[72] HEDLUND, DARREN J., US
[72] BRANDT, JON P., US
[72] HANSON, REED A., US
[72] SALFER, LUCAS R., US
[72] ZIMNEY, DEREK D., US
[72] TRIHEY, SEAN M., US
[73] POLARIS INDUSTRIES INC., US
[86] (3063148)
[87] (3063148)
[22] 2019-11-28
[30] US (62/776,617) 2018-12-07
[30] US (16/692,628) 2019-11-22

---

[11] **3,064,822**
[13] C
[51] **Int.Cl. F16L 59/05 (2006.01) F16L 59/02 (2006.01) F16L 59/14 (2006.01) F24F 13/02 (2006.01) F24F 13/06 (2006.01)**
[25] EN
[54] **REFLECTIVE LAMINATE INSULATING ASSEMBLY**
[54] **ENSEMBLE D'ISOLATION STRATIFIE ET THERMO-REFLECTEUR**
[72] GRAY, WILLIAM R., US
[73] GRAY, WILLIAM R., US
[86] (3064822)
[87] (3064822)
[22] 2014-12-31
[62] 2,876,145
[30] US (14/159,048) 2014-01-20
[30] US (14/159,069) 2014-01-20

---

[11] **3,065,556**
[13] C
[51] **Int.Cl. C11D 3/00 (2006.01)**
[25] EN
[54] **NON-HOMOGENEOUS COMPOSITIONS**
[54] **COMPOSITIONS NON HOMOGENES**
[72] CAPECI, SCOTT WILLIAM, US
[72] GU, CHONG, CN
[72] CACCIATORE, JUSTIN THOMAS, US
[72] VARGAS, SEBASTIAN, US
[72] CHEN, HONGLING, CN
[72] HUANG, XU, CN
[72] ZHANG, QI, CN
[72] ZHU, HANJIANG, CN
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2019-11-29
[86] 2017-06-09 (PCT/CN2017/087707)
[87] (WO2018/223368)
[30] CN (PCT/CN2017/087537) 2017-06-08
[30] CN (PCT/CN2017/087538) 2017-06-08
[30] CN (PCT/CN2017/087539) 2017-06-08
[30] US (62/516,965) 2017-06-08
[30] US (62/516,969) 2017-06-08
[30] US (62/516,976) 2017-06-08

---

[11] **3,066,222**
[13] C
[51] **Int.Cl. E21B 33/12 (2006.01) E21B 33/127 (2006.01)**
[25] EN
[54] **DOWNHOLE PACKER RING APPARATUS AND METHOD OF ASSEMBLING THEREOF**
[54] **APPAREIL ANNULAIRE DE GARNITURE D'ETANCHEITE EN PROFONDEUR DE FORAGE ET SON PROCEDE D'ASSEMBLAGE**
[72] PUROHIT, ANKIT, SG
[72] GJELSTAD, GEIR, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2019-12-04
[86] 2017-07-31 (PCT/US2017/044642)
[87] (WO2019/027413)

[11] **3,066,476**
[13] C
[51] **Int.Cl. G09B 23/28 (2006.01)**
[25] EN
[54] **VIRTUAL REALITY LAPAROSCOPIC TOOLS**
[54] **OUTILS LAPAROSCOPIQUES A REALITE VIRTUELLE**
[72] JOHNSON, ERIC MARK, US
[72] GARCIA KILROY, PABLO EDUARDO, US
[72] SIU, BERNARD FAI KIN, US
[72] YU, HAORAN, US
[73] VERB SURGICAL INC., US
[85] 2019-12-05
[86] 2018-06-27 (PCT/US2018/039778)
[87] (WO2019/005983)
[30] US (62/526,896) 2017-06-29
[30] US (16/018,012) 2018-06-25

[11] **3,067,882**
[13] C
[51] **Int.Cl. C11D 3/00 (2006.01) C11D 3/22 (2006.01) C11D 3/50 (2006.01) C11D 17/00 (2006.01) C11D 17/04 (2006.01)**
[25] EN
[54] **PACKAGED LIQUID FABRIC SOFTENER COMPOSITION HAVING IMPROVED STABILITY**
[54] **COMPOSITION D'ADOUCISSANT TEXTILE LIQUIDE CONDITIONNEE POSSEDANT UNE STABILITE AMELIOREE**
[72] SAVEYN, PIETER JAN MARIA, BE
[72] VAES, DRIES, BE
[72] ORLANDINI, LAURA, CH
[72] FERNANDEZ-PRIETO, SUSANA, BE
[72] VAN HECKE, EVELYNE JOHANNA LUTGARDE, BE
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2019-12-18
[86] 2018-07-10 (PCT/US2018/041350)
[87] (WO2019/014156)
[30] EP (17180487.5) 2017-07-10

[11] **3,068,258**
[13] C
[51] **Int.Cl. G06N 3/04 (2006.01) G06N 3/08 (2006.01)**
[25] EN
[54] **RARE INSTANCE CLASSIFIERS**
[54] **CLASSIFICATEURS D'INSTANCES RARES**
[72] LO, WAN-YEN, US
[72] OGALE, ABHIJIT, US
[72] GAO, YANG, US
[73] WAYMO LLC, US
[85] 2019-12-20
[86] 2018-06-19 (PCT/US2018/038318)
[87] (WO2018/236895)
[30] US (15/630,275) 2017-06-22

[11] **3,069,377**
[13] C
[51] **Int.Cl. C12N 9/34 (2006.01) A23K 20/189 (2016.01) C12N 15/56 (2006.01) C12P 19/20 (2006.01)**
[25] EN
[54] **GLUCOAMYLASE VARIANTS**
[54] **VARIANTS DE GLUCOAMYLASE**
[72] AEHLE, WOLFGANG, US
[72] BOTT, RICHARD R., US
[72] NIKOLAEV, IGOR, US
[72] SCHEFFERS, MARTIJIN, US
[72] VAN SOLINGEN, PIET, US
[72] VROEMEN, CASPER, US
[73] DANISCO US INC., US
[86] (3069377)
[87] (3069377)
[22] 2008-04-08
[62] 2,948,231
[30] US (PCT/US2007/021683) 2007-10-09

[11] **3,070,473**
[13] C
[51] **Int.Cl. B23K 9/10 (2006.01)**
[25] EN
[54] **ENGINE-DRIVEN WELDING-TYPE POWER SUPPLIES CONFIGURED TO SIMULTANEOUSLY USE EXTERNAL AND ENGINE POWER**
[54] **ALIMENTATIONS ELECTRIQUES DE SOUDAGE MOTORISEES CONCUES POUR UTILISER SIMULTANEMENT UNE PUISSANCE EXTERNE ET DE MOTEUR**
[72] NELSON, JONATHON, US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2020-01-17
[86] 2018-08-22 (PCT/US2018/047472)
[87] (WO2019/046060)
[30] US (15/692,023) 2017-08-31

[11] **3,072,260**
[13] C
[51] **Int.Cl. G06T 9/00 (2006.01) G06F 3/14 (2006.01) G06T 1/00 (2006.01) G06T 15/00 (2011.01)**
[25] EN
[54] **LAYERED SCENE DECOMPOSITION CODEC SYSTEM AND METHODS**
[54] **SYSTEME ET PROCEDES DE CODEC DE DECOMPOSITION DE SCENE EN COUCHES**
[72] HAMILTON, MATTHEW, CA
[72] RUMBOLT, CHUCK, CA
[72] BENOIT, DONOVAN, CA
[72] TROKE, MATTHEW, CA
[72] LOCKYER, ROBERT, CA
[73] AVALON HOLOGRAPHICS INC., CA
[85] 2020-02-06
[86] 2018-03-07 (PCT/CA2018/050268)
[87] (WO2019/036794)
[30] US (15/683,992) 2017-08-23

[11] **3,074,633**
[13] C
[51] **Int.Cl. G06F 17/00 (2019.01) G06F 16/31 (2019.01) G06F 16/33 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DATA INDEXING AND PROCESSING**
[54] **SYSTEMES ET PROCEDES D'INDEXATION ET DE TRAITEMENT DE DONNEES**
[72] MORVANT, JOSEPH MATTHEW, US
[72] EBAUGH, MICHAEL JOHN, US
[73] INDXIT SYSTEMS, INC., US
[86] (3074633)
[87] (3074633)
[22] 2006-07-14
[62] 2,975,694
[30] US (60/699,893) 2005-07-15

[11] **3,074,683**
[13] C
[51] **Int.Cl. G01V 5/10 (2006.01) G01V 5/12 (2006.01)**
[25] EN
[54] **REAL-TIME OUTPUT CORRECTION OF DETECTOR OUTPUTS RESULTING FROM AZIMUTHAL X-RAY SOURCE VARIATIONS USING MONITORING DETECTORS**
[54] **CORRECTION DE SORTIE EN TEMPS REEL DE SORTIES DE DETECTEUR RESULTANT DE VARIATIONS DE SOURCE DE RAYONS X AZIMUTALE AU MOYEN DE DETECTEURS DE SURVEILLANCE**
[72] TEAGUE, PHILIP, US
[72] STEWART, ALEX, US
[73] TEAGUE, PHILIP, US
[73] STEWART, ALEX, US
[85] 2020-03-03
[86] 2018-09-06 (PCT/US2018/049718)
[87] (WO2019/051066)
[30] US (62/554,797) 2017-09-06
[30] US (16/123,511) 2018-09-06

---

[11] **3,075,422**
[13] C
[51] **Int.Cl. C01B 11/02 (2006.01) A61L 9/01 (2006.01) A61L 9/015 (2006.01)**
[25] EN
[54] **CHLORINE DIOXIDE GAS GENERATING METHOD, LIQUID COMPOSITION, GEL COMPOSITION, AND CHLORINE DIOXIDE GAS GENERATING KIT**
[54] **METHODE DE GENERATION DE DIOXYDE DE CHLORE GAZEUX, COMPOSITION LIQUIDE, COMPOSITION DE GEL ET KIT DE GENERATION DE DIOXYDE DE CHLORE GAZEUX**
[72] ABE, KOJI, JP
[72] ABE, TSUKASA, JP
[73] CLO2 LAB INC., JP
[85] 2020-03-09
[86] 2018-08-28 (PCT/JP2018/031726)
[87] (WO2019/058892)
[30] JP (2017-180688) 2017-09-20
[30] JP (2018-126230) 2018-07-02

---

[11] **3,076,109**
[13] C
[51] **Int.Cl. G06Q 30/02 (2012.01) G06F 17/00 (2019.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR CREATING A DATA-DRIVEN ATTRIBUTION MODEL FOR ASSIGNING ATTRIBUTION CREDIT TO A PLURALITY OF EVENTS**
[54] **PROCEDES ET SYSTEMES SERVANT A CREER UN MODELE D'ATTRIBUTION PILOTE PAR DES DONNEES PERMETTANT D'ATTRIBUER UN CREDIT D'ATTRIBUTION A UNE PLURALITE D'EVENEMENTS**
[72] LITTLE, RICHARD EDWARD, US
[72] KEE, WILLIAM PATRICK, US
[72] BIDYUK, BOZHENA, US
[72] CAI, CHAO, US
[72] BARNEY, DAVID EARL, US
[72] SCHNABL, STEFAN, US
[72] HUANG, JOHN CHIH CHANG, US
[72] JACKSON, TODD MORRIS, US
[72] ZHAO, XIAOSA, US
[72] STEWART, JAMES EDWARD, US
[72] CAI, HONGXU, US
[73] GOOGLE LLC, US
[86] (3076109)
[87] (3076109)
[22] 2014-11-25
[62] 2,932,686
[30] US (61/912,356) 2013-12-05
[30] US (14/103,453) 2013-12-11
[30] US (14/103,589) 2013-12-11
[30] US (14/103,487) 2013-12-11
[30] US (14/103,440) 2013-12-11
[30] US (14/264,666) 2014-04-29

---

[11] **3,077,668**
[13] C
[51] **Int.Cl. H04W 72/04 (2009.01)**
[25] EN
[54] **METHOD AND ARRANGEMENT IN A TELECOMMUNICATION SYSTEM**
[54] **PROCEDE ET AGENCEMENT DANS UN SYSTEME DE TELECOMMUNICATIONS**
[72] JOHANSSON, ANDERS, SE
[72] HEDLUND, LEO, SE
[73] OPTIS WIRELESS TECHNOLOGY, LLC, US
[86] (3077668)
[87] (3077668)
[22] 2008-11-07
[62] 2,710,155
[30] US (61/015,347) 2007-12-20

---

[11] **3,078,204**
[13] C
[51] **Int.Cl. B60D 1/58 (2006.01) B60D 1/48 (2006.01) B60K 25/06 (2006.01) B62D 53/04 (2006.01)**
[25] EN
[54] **ATTACHMENT ASSEMBLY FOR AGRICULTURAL IMPLEMENTS**
[54] **ENSEMBLE DE FIXATION POUR MATERIEL AGRICOLE**
[72] THORSELL, ERIK, US
[73] GREAT PLAINS MANUFACTURING, INC., US
[86] (3078204)
[87] (3078204)
[22] 2020-04-17
[30] US (62/836,401) 2019-04-19

---

[11] **3,080,637**
[13] C
[51] **Int.Cl. H04N 21/47 (2011.01) H04N 21/2543 (2011.01) H04N 21/2743 (2011.01) G06Q 30/02 (2012.01)**
[25] EN
[54] **VIDEO STREAMING PLAYBACK SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE LECTURE DE TRANSMISSION VIDEO EN CONTINU**
[72] KIYOOKA, TETSURO, CA
[73] KIYOOKA, TETSURO, CA
[85] 2020-04-27
[86] 2018-10-26 (PCT/JP2018/039899)
[87] (WO2019/083018)
[30] US (62/577,924) 2017-10-27
[30] JP (PCT/JP2018/011619) 2018-03-23

---

[11] **3,082,203**
[13] C
[51] **Int.Cl. H04N 21/6547 (2011.01)**
[25] EN
[54] **SIGNALING METHOD, RECEIVING METHOD SIGNALING DEVICE, AND RECEIVING DEVICE**
[54] **METHODE DE SIGNALEMENT, METHODE DE RECEPTION, DISPOSITIF DE SIGNALEMENT ET DISPOSITIF DE RECEPTION**
[72] DESHPANDE, SACHIN G., US
[73] SHARP KABUSHIKI KAISHA, JP
[86] (3082203)
[87] (3082203)
[22] 2016-10-21
[62] 3,001,960
[30] US (62/245,525) 2015-10-23
[30] US (62/255,446) 2015-11-14
[30] US (62/331,376) 2016-05-03

[11] **3,082,401**
[13] C
[51] **Int.Cl. C09J 7/10 (2018.01) B32B 27/08 (2006.01) G09F 3/10 (2006.01)**
[25] EN
[54] **THIN FILM ADHESIVE LABELS AND METHODS OF MAKING THEREOF**
[54] **ETIQUETTES ADHESIVES SOUS FORME DE FILM MINCE ET LEURS PROCEDES DE FABRICATION**
[72] MUNNELLY, HEIDI M., US
[72] VOICECHOVSKI, NIKOLAI A., US
[72] LUX, BENJAMIN, US
[73] ACTEGA NORTH AMERICA TECHNOLOGIES, INC., US
[85] 2020-05-11
[86] 2018-11-14 (PCT/US2018/061004)
[87] (WO2019/099484)
[30] US (62/588,027) 2017-11-17

[11] **3,082,814**
[13] C
[51] **Int.Cl. A01G 25/16 (2006.01) G06Q 10/06 (2012.01) G06Q 50/02 (2012.01)**
[25] EN
[54] **COMPUTING RISK FROM A CROP DAMAGING FACTOR FOR A CROP ON AN AGRONOMIC FIELD**
[54] **CALCUL DE RISQUE LIE A UN FACTEUR D'ENDOMMAGEMENT DE CULTURE POUR UNE CULTURE DANS UN CHAMP AGRONOMIQUE**
[72] DAIL, HOLLY JANINE, US
[72] CARROLL, PATRICIA ANN, US
[72] GRABOW, BETHANY SUSAN PORTER, US
[72] PATAKY, JERALD KEITH, US
[72] MALAGON, ANA, US
[73] CLIMATE LLC, US
[85] 2020-05-14
[86] 2018-11-08 (PCT/US2018/059858)
[87] (WO2019/103850)
[30] US (15/820,317) 2017-11-21

[11] **3,082,974**
[13] C
[51] **Int.Cl. H02J 3/00 (2006.01) G06Q 50/06 (2012.01) H02J 3/32 (2006.01) H02J 3/38 (2006.01) H02J 7/35 (2006.01)**
[25] EN
[54] **ENERGY MANAGEMENT SYSTEM, POWER DEMAND PLAN OPTIMIZATION METHOD, AND POWER DEMAND PLAN OPTIMIZATION PROGRAM**
[54] **SYSTEME DE GESTION D'ENERGIE, ET PROCEDE ET PROGRAMME D'OPTIMISATION DE PLAN DE DEMANDE EN ENERGIE**
[72] KOGUMA, YUJI, JP
[73] IHI CORPORATION, JP
[85] 2020-05-19
[86] 2018-11-14 (PCT/JP2018/042116)
[87] (WO2019/098235)
[30] JP (2017-223103) 2017-11-20

[11] **3,086,464**
[13] C
[51] **Int.Cl. G01T 1/30 (2006.01) G01M 99/00 (2011.01) A61M 36/00 (2006.01) A61K 51/04 (2006.01)**
[25] EN
[54] **RUBIDIUM ELUTION SYSTEM CONTROL**
[54] **COMMANDE DE SYSTEME D'ELUTION DE RUBIDIUM**
[72] LEFORT, ETIENNE, CA
[72] TEOLI, VINCENZO, CA
[72] DEKEMP, ROBERT A., CA
[72] KLEIN, RAN, CA
[73] JUBILANT DRAXIMAGE INC., CA
[73] OTTAWA HEART INSTITUTE RESEARCH CORPORATION, CA
[86] (3086464)
[87] (3086464)
[22] 2012-10-26
[62] 2,884,077
[30] US (61/697,244) 2012-09-05

[11] **3,086,809**
[13] C
[51] **Int.Cl. H04N 5/77 (2006.01) H04N 5/225 (2006.01) H04N 5/247 (2006.01) H04N 5/907 (2006.01) H04N 5/917 (2006.01)**
[25] EN
[54] **HIGH-SPEED IMAGE READOUT AND PROCESSING**
[54] **LECTURE ET TRAITEMENT D'IMAGE A GRANDE VITESSE**
[72] WENDEL, ANDREAS, US
[72] DITTMER, JEREMY, US
[72] HERMALYN, BRENDAN, US
[73] WAYMO LLC, US
[85] 2020-06-24
[86] 2018-12-11 (PCT/US2018/064972)
[87] (WO2019/133246)
[30] US (62/612,294) 2017-12-29
[30] US (16/214,589) 2018-12-10

[11] **3,087,693**
[13] C
[51] **Int.Cl. A61N 1/36 (2006.01)**
[25] EN
[54] **AUTOMATIC ADJUSTMENT OF SUB-PERCEPTION THERAPY IN AN IMPLANTABLE STIMULATOR USING DETECTED COMPOUND ACTION POTENTIALS**
[54] **AJUSTEMENT AUTOMATIQUE D'UN TRAITEMENT SOUS-PERCEPTION DANS UN STIMULATEUR IMPLANTABLE A L'AIDE DES POTENTIELS D'ACTION COMPOSES DETECTES**
[72] ESTELLER, ROSANA, US
[72] CARBUNARU, RAFAEL, US
[73] BOSTON SCIENTIFIC NEUROMODULATION CORPORATION, US
[85] 2020-07-03
[86] 2019-01-02 (PCT/US2019/012058)
[87] (WO2019/136072)
[30] US (62/614,736) 2018-01-08

[11] **3,087,890**
[13] C
[51] **Int.Cl. E21B 7/28 (2006.01) E21B 7/04 (2006.01)**
[25] EN
[54] **HOLE OPENER FOR DIRECTIONAL DRILLING**
[54] **ELARGISSEUR POUR FORAGE DIRECTIONNEL**
[72] GRAHAM, CODY D., CA
[72] MUELLER, JEFFREY S., US
[73] PRECISE DRILLING COMPONENTS LTD, CA
[86] (3087890)
[87] (3087890)
[22] 2020-07-24
[30] US (62/878,224) 2019-07-24

---

[11] **3,087,893**
[13] C
[51] **Int.Cl. E21B 7/28 (2006.01) E21B 7/04 (2006.01)**
[25] EN
[54] **HOLE OPENER FOR DIRECTIONAL DRILLING**
[54] **ELARGISSEUR POUR FORAGE DIRECTIONNEL**
[72] GRAHAM, CODY D., CA
[72] MUELLER, JEFFREY S., US
[73] PRECISE DRILLING COMPONENTS LTD, CA
[86] (3087893)
[87] (3087893)
[22] 2020-07-24
[30] US (62/878,228) 2019-07-24

---

[11] **3,093,220**
[13] C
[51] **Int.Cl. F16C 27/02 (2006.01)**
[25] EN
[54] **RADIAL FOIL BEARING**
[54] **PALIER A FEUILLE RADIALE**
[72] OMORI, NAOMICHI, JP
[73] IHI CORPORATION, JP
[85] 2020-09-04
[86] 2019-03-07 (PCT/JP2019/009119)
[87] (WO2019/172378)
[30] JP (2018-040772) 2018-03-07

---

[11] **3,093,668**
[13] C
[51] **Int.Cl. E21B 44/00 (2006.01) E21B 41/00 (2006.01) G06N 3/04 (2006.01)**
[25] EN
[54] **LEARNING BASED BAYESIAN OPTIMIZATION FOR OPTIMIZING CONTROLLABLE DRILLING PARAMETERS**
[54] **OPTIMISATION BAYESIENNE BASEE SUR L'APPRENTISSAGE POUR L'OPTIMISATION DE PARAMETRES DE FORAGE APTES A ETRE COMMANDES**
[72] MADASU, SRINATH, US
[72] RANGARAJAN, KESHAVA, US
[73] LANDMARK GRAPHICS CORPORATION, US
[85] 2020-09-10
[86] 2018-05-09 (PCT/US2018/031757)
[87] (WO2019/216891)

---

[11] **3,094,633**
[13] C
[51] **Int.Cl. A01C 5/06 (2006.01)**
[25] EN
[54] **AGRICULTURAL TRENCH CLOSING SYSTEMS, METHODS, AND APPARATUS**
[54] **SYSTEMES, PROCEDES ET APPAREIL DE FERMETURE DE TRANCHEE AGRICOLE**
[72] SAUDER, DEREK(DECEASED), US
[72] HODEL, JEREMY, US
[72] MUHLBAUER, CORY, US
[73] PRECISION PLANTING LLC, US
[86] (3094633)
[87] (3094633)
[22] 2013-10-24
[62] 2,889,032
[30] US (61/718,087) 2012-10-24
[30] US (61/815,540) 2013-04-24

---

[11] **3,095,829**
[13] C
[51] **Int.Cl. A61M 5/32 (2006.01) A61M 25/06 (2006.01)**
[25] EN
[54] **CLOSED-SYSTEM CATHETER ASSEMBLY**
[54] **NSEMBLE CATHETER A SYSTEME FERME**
[72] YEH, JONATHAN, US
[72] MANSOUR, GEORGE, US
[72] ZOLLINGER, CHRIS, US
[73] CAREFUSION 303, INC., US
[86] (3095829)
[87] (3095829)
[22] 2013-11-01
[62] 2,888,924
[30] US (13/673,975) 2012-11-09

---

[11] **3,098,019**
[13] C
[51] **Int.Cl. F21V 21/40 (2006.01)**
[25] EN
[54] **LIGHT FIXTURE WITH INTEGRAL HANDLE**
[54] **APPAREIL D'ECLAIRAGE AVEC POIGNEE INTEGREE**
[72] ADAMS, VINCENT P., US
[73] ABL IP HOLDING LLC, US
[86] (3098019)
[87] (3098019)
[22] 2020-11-03
[30] US (17/062,916) 2020-10-05

---

[11] **3,099,616**
[13] C
[51] **Int.Cl. B62D 11/02 (2006.01) B02C 21/02 (2006.01) B62D 11/00 (2006.01) B62D 11/04 (2006.01) B62D 11/20 (2006.01) B62D 55/065 (2006.01)**
[25] EN
[54] **METHOD FOR GENERATING A MOVEMENT OF A MOBILE SYSTEM FOR OPEN PIT MINING**
[54] **PROCEDE POUR LA GENERATION D'UN DEPLACEMENT D'UNE INSTALLATION MOBILE POUR MINES A CIEL OUVERT**
[72] EBBERS, CHRISTIAN, DE
[73] THYSSENKRUPP INDUSTRIAL SOLUTIONS AG, DE
[73] THYSSENKRUPP AG, DE
[85] 2020-11-06
[86] 2019-05-13 (PCT/EP2019/062126)
[87] (WO2019/219556)
[30] DE (10 2018 207 886.6) 2018-05-18

[11] **3,099,872**
[13] C
[51] **Int.Cl. C25B 15/08 (2006.01) C25B 9/73 (2021.01) C25B 1/02 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR PROVIDING AT LEAST ONE PRODUCT STREAM BY ELECTROLYSIS AND USE**
[54] **PROCEDE ET DISPOSITIF POUR LA FOURNITURE D'AU MOINS UN COURANT DE PRODUIT PAR ELECTROLYSE AINSI QUE LEUR UTILISATION**
[72] KLINK, STEFAN, DE
[72] POLCYN, GREGOR DAMIAN, DE
[72] BAUMGARD, FLORIAN, DE
[72] PAUSCH, JORG, DE
[72] DAHLHUES, KLAUS, DE
[72] BERGS, DOMINIK, DE
[73] THYSSENKRUPP UHDE CHLORINE ENGINEERS GMBH, DE
[85] 2020-11-10
[86] 2019-05-28 (PCT/EP2019/063722)
[87] (WO2019/229019)
[30] DE (10 2018 208 624.9) 2018-05-30

[11] **3,101,400**
[13] C
[51] **Int.Cl. G11B 27/038 (2006.01) G06F 16/68 (2019.01) G10H 1/00 (2006.01)**
[25] EN
[54] **RHYTHMIC SYNCHRONIZATION OF CROSS FADING FOR MUSICAL AUDIO SECTION REPLACEMENT FOR MULTIMEDIA PLAYBACK**
[54] **SYSTEME DE CONTEXTE MUSICAL, STRUCTURE DE PISTE AUDIO ET PROCEDE DE SYNCHRONISATION EN TEMPS REEL DE CONTENU MUSICAL**
[72] LYSKE, JOSEPH MICHAEL WILLIAM, GB
[73] MASHTRAXX LIMITED, GB
[86] (3101400)
[87] (3101400)
[22] 2016-06-22
[62] 2,990,320
[30] GB (1510907.7) 2015-06-22

[11] **3,103,922**
[13] C
[51] **Int.Cl. A61K 36/60 (2006.01) A61K 35/66 (2015.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **A NATURAL PRODUCT COMPRISING FERMENTED FIG TO COMBAT VIRAL DISEASES, BACTERIAL DISEASES, FUNGUS DISEASES AND CANCER DISEASES**
[54] **PRODUIT NATUREL CONTENANT DE LA FIGUE FERMENTEE POUR LA LUTTE CONTRE DES MALADIES VIRALES, DES MALADIES BACTERIENNES, DES MALADIES FONGIQUES ET DES CANCERS**
[72] AL SOUD, MALEK, SY
[73] AL SOUD, MALEK, SY
[85] 2020-12-15
[86] 2017-09-09 (PCT/IB2017/055445)
[87] (WO2018/047121)
[30] MY (2016001672) 2016-09-09

[11] **3,104,855**
[13] C
[51] **Int.Cl. A01C 5/00 (2006.01) A01C 5/06 (2006.01) A01C 7/20 (2006.01) A01C 14/00 (2006.01) E02D 1/00 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND APPARATUS FOR AGRICULTURAL IMPLEMENT TRENCH DEPTH CONTROL AND SOIL MONITORING**
[54] **SYSTEMES, PROCEDES ET APPAREIL POUR REGULATION DE PROFONDEUR DE SILLON D'INSTRUMENTS AGRICOLES ET SURVEILLANCE DU SOL**
[72] SAUDER, DEREK (DECEASED), US
[72] STOLLER, JASON, US
[72] PLATTNER, TROY, US
[73] PRECISION PLANTING LLC, US
[86] (3104855)
[87] (3104855)
[22] 2014-03-14
[62] 2,905,119
[30] US (61/783,591) 2013-03-14

[11] **3,107,427**
[13] C
[51] **Int.Cl. A61B 90/50 (2016.01) A61B 50/28 (2016.01) F16D 49/08 (2006.01) F16D 49/16 (2006.01) F16D 65/06 (2006.01) F16M 11/08 (2006.01) F16M 11/20 (2006.01) F16M 13/02 (2006.01)**
[25] EN
[54] **MEDICAL DEVICE SUPPORT SYSTEM HAVING HUB ACCESS OPENING**
[54] **SYSTEME DE SUPPORT DE DISPOSITIF MEDICAL AYANT UNE OUVERTURE D'ACCES AU MOYEU**
[72] BELLOWS, LANCE CLARK, US
[72] MOHR, CHRISTOPHER ROY, US
[73] AMERICAN STERILIZER COMPANY, US
[85] 2021-01-22
[86] 2019-07-22 (PCT/US2019/042738)
[87] (WO2020/023330)
[30] US (62/702,943) 2018-07-25
[30] US (62/702,946) 2018-07-25
[30] US (62/702,947) 2018-07-25
[30] US (62/702,948) 2018-07-25
[30] US (62/799,096) 2019-01-31
[30] US (62/799,100) 2019-01-31
[30] US (62/799,113) 2019-01-31
[30] US (62/799,202) 2019-01-31
[30] US (62/809,173) 2019-02-22
[30] US (62/825,078) 2019-03-28
[30] US (62/828,090) 2019-04-02

[11] **3,110,586**
[13] C
[51] **Int.Cl. B65D 25/00 (2006.01) A61J 1/14 (2006.01) B65D 21/02 (2006.01) B65D 25/38 (2006.01) B65D 25/42 (2006.01)**
[25] EN
[54] **PHASE-CHANGE ACCOMMODATING RIGID FLUID CONTAINER WITH MANIPULATING ASSISTING RECESSES**
[54] **CONTENANT DE FLUIDE RIGIDE ADAPTE AUX CHANGEMENTS DE PHASE AVEC DES EVIDEMENTS D'ASSISTANCE DE MANIPULATION**
[72] CARTER, BART, US
[72] DAVIDSON, JASON, US
[72] EICKHOFF, SCOTT, US
[72] ELLIOTT, DAN, US
[72] FLAMMINO, ANTHONY, US
[72] JACK, CRAIG, US
[72] JOHNSON, JEFF, US
[72] LLAMAS, ALEJANDRO, US
[72] MCFEATERS, SCOTT, US
[72] PETRICH, MARK A., US
[72] TRESSO, RICCARDO J., US
[73] RMB PRODUCTS, INC., US
[86] (3110586)
[87] (3110586)
[22] 2015-06-11
[62] 2,949,247
[30] US (62/010,681) 2014-06-11

---

[11] **3,118,018**
[13] C
[51] **Int.Cl. C23F 13/20 (2006.01) H02J 3/02 (2006.01)**
[25] EN
[54] **TWO TERMINAL CORROSION PROTECTION DEVICE, SYSTEM, AND METHOD**
[54] **DISPOSITIF, SYSTEME ET PROCEDE DE PROTECTION CONTRE LA CORROSION A DEUX BORNES**
[72] GIATIS, PETROS Z., US
[73] CANADIAN AUTO PRESERVATION INC., CA
[85] 2021-04-28
[86] 2020-10-22 (PCT/CA2020/051417)
[87] (WO2021/077223)
[30] US (62/925,486) 2019-10-24

---

[11] **3,119,024**
[13] C
[51] **Int.Cl. H02H 7/18 (2006.01) B60R 16/033 (2006.01) G01R 15/20 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR SUPPLYING ELECTRICAL POWER TO START VEHICLE ENGINES**
[54] **SYSTEME D'ALIMENTATION EN ENERGIE ELECTRIQUE SERVANT A DEMARRER DES MOTEURS DE VEHICULE**
[72] VUTETAKIS, DAVID GEORGE, US
[73] CONCORDE BATTERY CORPORATION, US
[85] 2021-05-06
[86] 2019-10-15 (PCT/US2019/056224)
[87] (WO2020/096738)
[30] US (16/185,581) 2018-11-09

---

[11] **3,120,520**
[13] C
[51] **Int.Cl. H04B 7/185 (2006.01)**
[25] EN
[54] **SATELLITE LOAD BALANCING**
[54] **EQUILIBRAGE DE CHARGE DE SATELLITE**
[72] ROY, SATYAJIT, US
[72] CHOQUETTE, GEORGE, US
[73] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2021-05-19
[86] 2019-11-19 (PCT/US2019/062096)
[87] (WO2020/106659)
[30] US (16/196,265) 2018-11-20

---

[11] **3,133,353**
[13] C
[51] **Int.Cl. C08K 5/04 (2006.01) B01D 17/00 (2006.01) C08K 5/16 (2006.01) C08K 5/17 (2006.01) C08L 95/00 (2006.01) C10C 3/00 (2006.01) C10C 3/08 (2006.01)**
[25] EN
[54] **METHODS FOR MODULATING PETROLEUM-BASED HYDROCARBONS USING AMINES**
[54] **PROCEDES DE MODULATION D'HYDROCARBURES A BASE DE PETROLE A L'AIDE D'AMINES**
[72] ADAMS, JERAMIE JOSEPH, US
[72] PLANCHE, JEAN-PASCAL, US
[73] WESTERN RESEARCH INSTITUTE CORP., US
[85] 2021-09-13
[86] 2020-03-12 (PCT/US2020/022467)
[87] (WO2020/186102)
[30] US (62/817,754) 2019-03-13

---

[11] **3,137,824**
[13] C
[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/4015 (2006.01) A61K 31/407 (2006.01) A61K 31/454 (2006.01) C07D 207/16 (2006.01) C07D 403/12 (2006.01)**
[25] EN
[54] **NITRILE-CONTAINING ANTIVIRAL COMPOUNDS**
[54] **COMPOSES ANTIVIRAUX CONTENANT DU NITRILE**
[72] OWEN, DAFYDD RHYS, US
[72] PETTERSSON, MARTIN YOUNGJIN, US
[72] REESE, MATTHEW RICHARD, US
[72] SAMMONS, MATTHEW FORREST, US
[72] TUTTLE, JAMISON BRYCE, US
[72] VERHOEST, PATRICK ROBERT, US
[72] WEI, LIUQING, US
[72] YANG, XIAOJING, US
[72] YANG, QINGYI, US
[73] PFIZER INC., US
[85] 2021-11-05
[86] 2021-08-06 (PCT/IB2021/057281)
[87] (WO2021/250648)
[30] US (63/073,982) 2020-09-03
[30] US (63/143,435) 2021-01-29
[30] US (63/170,158) 2021-04-02
[30] US (63/194,241) 2021-05-28

---

[11] **3,140,826**
[13] C
[51] **Int.Cl. C09K 8/68 (2006.01) C09K 8/588 (2006.01) E21B 43/22 (2006.01) E21B 43/267 (2006.01)**
[25] EN
[54] **NEW COMPOSITION FOR OIL AND GAS RECOVERY**
[54] **NOUVELLE COMPOSITION POUR RECUPERER L'HUILE ET LE GAZ**
[72] FAVERO, CEDRICK, FR
[72] TELITEL, SIHAM, FR
[73] SPCM SA, FR
[86] (3140826)
[87] (3140826)
[22] 2021-11-30
[30] US (17/132,480) 2020-12-23

[11] **3,143,165**
[13] C
[51] **Int.Cl. B62H 3/08 (2006.01) B62H 3/00 (2006.01)**
[25] EN
[54] **SUPPORT STAND FOR TWO-WHEELED VEHICLE**
[54] **ETRIER POUR VEHICULE A DEUX ROUES**
[72] DEMERS, GUY, CA
[73] DEMERS, GUY, CA
[85] 2021-12-09
[86] 2020-07-14 (PCT/CA2020/000086)
[87] (WO2021/012032)
[30] GB (1910420.7) 2019-07-19

---

[11] **3,147,965**
[13] C
[51] **Int.Cl. B01J 23/83 (2006.01) B01J 23/94 (2006.01) B01J 37/00 (2006.01) C10G 29/04 (2006.01)**
[25] EN
[54] **METALLO-SILICATE CATALYST (MSC) COMPOSITIONS, METHODS OF PREPARATION AND METHODS OF USE IN PARTIAL UPGRADING OF HYDROCARBON FEEDSTOCKS**
[54] **COMPOSITIONS DE CATALYSEUR METALLO-SILICATE (MSC), PROCEDES DE PREPARATION ET PROCEDES D'UTILISATION DANS UNE VALORISATION PARTIELLE DE CHARGES D'ALIMENTATION D'HYDROCARBURES**
[72] PEREIRA ALMAO, PEDRO, CA
[72] VITALE-ROJAS, GERARDO, CA
[72] PEREZ ZURITA, MARIA JOSEFINA, CA
[72] CARBOGNANI, LANTE ANTONIO, CA
[72] SMITH, RONALD SCOTT, CA
[72] SOSA, CLEMENTINA, CA
[73] PC-CUPS LTD., CA
[73] CENOVUS ENERGY INC., CA
[86] (3147965)
[87] (3147965)
[22] 2016-02-03
[62] 2,975,531
[30] US (62/111,982) 2015-02-04
[30] US (62/111,951) 2015-02-04

---

[11] **3,150,977**
[13] C
[51] **Int.Cl. B29D 30/04 (2006.01) B60C 7/00 (2006.01) B60C 7/10 (2006.01)**
[25] EN
[54] **SYSTEM FOR PREDICTING AUGER FAILURE IN A TIRE INJECTION FILLING MIXING MACHINE**
[54] **SYSTEME POUR PREVOIR UNE PANNE DE TARIERE DANS UNE MACHINE DE MELANGE DE REMPLISSAGE D'INJECTION DE PNEU**
[72] LITTLE, JEFF, US
[72] BISHOP, JOHN, US
[73] CARLISLE CONSTRUCTION MATERIALS, LLC, US
[85] 2022-02-14
[86] 2020-08-11 (PCT/US2020/045789)
[87] (WO2021/050188)
[30] US (62/899,466) 2019-09-12

---

[11] **3,153,977**
[13] C
[51] **Int.Cl. A61K 9/20 (2006.01) A61K 31/137 (2006.01) A61K 31/197 (2006.01)**
[25] EN
[54] **PROCESS FOR SYNTHESIS OF ACIDIC SALTS OF AMINES FROM .ALPHA.-AMINO ACIDS AND FORMULATION COMPRISING SUCH AMINE ACIDIC SALTS**
[54] **PROCEDE DE SYNTHESE DE SELS ACIDES D'AMINES PROVENANT D'ACIDES .ALPHA.-AMINES ET FORMULATION COMPRENANT DE TELS SELS ACIDES D'AMINE**
[72] HOLDER, MICHAEL, CA
[73] SMITH ENNISKILLEN COMPANY LIMITED, CA
[86] (3153977)
[87] (3153977)
[22] 2021-09-28
[62] 3,132,224

---

[11] **3,155,617**
[13] C
[51] **Int.Cl. A63G 21/18 (2006.01) A63G 21/02 (2006.01)**
[25] EN
[54] **WATER RIDE**
[54] **MANEGE AQUATIQUE**
[72] HUNTER, RICHARD D., CA
[73] PROSLIDE TECHNOLOGY INC., CA
[86] (3155617)
[87] (3155617)
[22] 2015-03-03
[62] 3,097,161
[30] US (62/011,898) 2014-06-13

---

[11] **3,157,498**
[13] C
[51] **Int.Cl. G01R 29/08 (2006.01) G01R 29/10 (2006.01)**
[25] EN
[54] **PHOTONIC-CRYSTAL VAPOR CELLS FOR IMAGING OF ELECTROMAGNETIC FIELDS**
[54] **CELLULES DE VAPEUR A CRISTAL PHOTONIQUE POUR L'IMAGERIE DE CHAMPS ELECTROMAGNETIQUES**
[72] AMARLOO, HADI, CA
[72] RAMIREZ-SERRANO, JAIME, CA
[72] SHAFFER, JAMES P., CA
[73] QUANTUM VALLEY IDEAS LABORATORIES, CA
[85] 2022-04-08
[86] 2020-09-23 (PCT/CA2020/051269)
[87] (WO2021/102554)
[30] US (62/941,591) 2019-11-27
[30] US (16/996,663) 2020-08-18

---

[11] **3,163,212**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01) A61B 17/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR CLAMPING A MITRAL VALVE**
[54] **APPAREIL ET PROCEDES DE SERRAGE D'UNE VALVE MITRALE**
[72] SKARSGARD, PETER LLOYD, CA
[73] VESALIUS CARDIOVASCULAR INC., CA
[85] 2022-05-30
[86] 2021-03-05 (PCT/CA2021/050296)
[87] (WO2021/179065)
[30] US (62/987,240) 2020-03-09

Canadian Applications Open to Public Inspection

October 23, 2022 to October 29, 2022

Demandes canadiennes mises à la disponibilité du public

23 octobre 2022 au 29 octobre 2022

---

[21] **3,116,049**
[13] A1
[51] **Int.Cl. H02S 30/10 (2014.01) H02S 20/00 (2014.01) H02S 40/40 (2014.01)**
[25] EN
[54] **FRAME WITH PLENUM FOR SUPPORTING A PHOTOVOLTAIC ARRAY**
[54] **CHASSIS COMPORTANT UN PLENUM POUR SOUTENIR UN CHAMP DE MODULES PHOTOVOLTAIQUES**
[72] HALLIWELL, JOHN MARTIN, CA
[71] HC PROPERTIES INC., CA
[22] 2021-04-23
[41] 2022-10-23

---

[21] **3,116,052**
[13] A1
[51] **Int.Cl. G02C 5/14 (2006.01) G02C 5/20 (2006.01)**
[25] EN
[54] **FITTED EYEGLASS FRAMES**
[54] **MONTURES A LUNETTES AJUSTEES**
[72] ISRAEL, STACY, CA
[72] AMAR, DAVID, CA
[71] 9298-3030 QUEBEC INC. A/O KOOL OPTIC, CA
[22] 2021-04-23
[41] 2022-10-23

---

[21] **3,116,110**
[13] A1
[51] **Int.Cl. C01C 1/02 (2006.01) C25B 15/021 (2021.01) C01B 21/04 (2006.01) C25B 1/04 (2021.01) C25B 15/08 (2006.01) C01B 3/02 (2006.01)**
[25] EN
[54] **A MODULAR, TRANSPORTABLE PLUG-IN AMMONIA PRODUCER**
[54] **GENERATEUR D'AMMONIAC MODULAIRE PORTATIF A BRANCHER**
[72] GORDON, ROGER, CA
[71] GORDON, ROGER, CA
[22] 2021-04-26
[41] 2022-10-26

---

[21] **3,116,114**
[13] A1
[51] **Int.Cl. B64F 1/04 (2006.01) F41B 6/00 (2006.01)**
[25] EN
[54] **ELECTROMAGNETIC AIRFOIL LAUNCHER**
[54] **LANCEUR DE CAPTEUR ELECTROMAGNETIQUE**
[72] GRANT, CLAIRE, CA
[71] GRANT, CLAIRE, CA
[22] 2021-04-26
[41] 2022-10-26

---

[21] **3,116,235**
[13] A1
[51] **Int.Cl. A41D 1/04 (2006.01) A41B 1/08 (2006.01)**
[25] EN
[54] **BENCH PRESS BAR PATH SHIRT APPLICATION**
[54] **APPLICATION DE GILET POUR LA VOIE D'UNE BARRE DE DEVELOPPE COUCHE**
[72] BORDIGNON, JACK, CA
[71] BORDIGNON, JACK, CA
[22] 2021-04-27
[41] 2022-10-27

---

[21] **3,116,252**
[13] A1
[51] **Int.Cl. G06Q 10/04 (2012.01) G06Q 10/10 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PREDICTIVE REAL-TIME FOOT TRAFFIC AND CONTACT TRACING ANALYTICS**
[54] **METHODE ET SYSTEME D'ANALYTIQUE PREDICTIVE EN TEMPS REEL DU TRAFIC PEDESTRE ET DE LA RECHERCHE DES CONTACTS**
[72] AJAYI, BABA, CA
[71] ANDIE CONNECTED TECHNOLOGIES INC., CA
[22] 2021-04-23
[41] 2022-10-23

---

[21] **3,116,267**
[13] A1
[51] **Int.Cl. E03C 1/26 (2006.01)**
[25] EN
[54] **HAIR ENTRAPMENT FILTER SYSTEM**
[54] **SYSTEME DE FILTRE PIEGEANT LES CHEVEUX**
[72] YAZDANI, KAMRAN, CA
[71] YAZDANI, KAMRAN, CA
[22] 2021-04-23
[41] 2022-10-23

---

[21] **3,116,442**
[13] A1
[51] **Int.Cl. C02F 1/72 (2006.01) C02F 1/32 (2006.01)**
[25] EN
[54] **WATER TREATMENT DEVICE AND SYSTEM USING HYDROXYL RADICALS AND METHOD OF USING SAME**
[54] **DISPOSITIF ET SYSTEME DE TRAITEMENT DE L'EAU UTILISANT DES RADICAUX HYDROXYLIQUES ET METHODE D'UTILISATION**
[72] CHRISTENSEN, SONNY JOE, CA
[72] SZTYM, NICKOLAUS CHARLES, CA
[71] WEST COUNTRY PUMP AND FILTRATION LTD., CA
[22] 2021-04-28
[41] 2022-10-28

[21] **3,116,450**
[13] A1
[51] **Int.Cl. F16L 55/18 (2006.01) F16L 55/1645 (2006.01) F16L 58/10 (2006.01)**
[25] EN
[54] **AN INSERTION DEVICE FOR REHABILITATION OF UNDERGROUND PIPES**
[54] **DISPOSITIF D'INSERTION POUR LA REMISE EN ETAT DE TUYAUX SOUTERRAINS**
[72] HOCKRIDGE, CHRISTOPHER, CA
[72] LEVESQUE, THOMAS, CA
[72] YASSEN, MONTADAR, CA
[71] HOCKRIDGE, CHRISTOPHER, CA
[71] LEVESQUE, THOMAS, CA
[71] YASSEN, MONTADAR, CA
[22] 2021-04-28
[41] 2022-10-28

---

[21] **3,116,479**
[13] A1
[51] **Int.Cl. G06F 21/57 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR OPTIMIZATION OF FRAUD DETECTION MODEL**
[54] **SYSTEME ET METHODE POUR OPTIMISER LE MODELE DE DETECTION DE LA FRAUDE**
[72] HOBBS, STEVEN THOMAS, CA
[72] WANG, YIFAN, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2021-04-28
[41] 2022-10-28

---

[21] **3,116,480**
[13] A1
[51] **Int.Cl. G09F 7/18 (2006.01)**
[25] EN
[54] **ADVERTISING SIGN**
[54] **PRESENTOIR PUBLICITAIRE**
[72] ARMATA, MITCHELL, CA
[71] BD PATENT HOLDINGS INC., CA
[22] 2021-04-28
[41] 2022-10-28

---

[21] **3,116,486**
[13] A1
[51] **Int.Cl. F23Q 25/00 (2006.01) A47G 33/00 (2006.01) A63H 29/04 (2006.01) F04D 25/08 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND APPARATUS FOR BLOWING OUT BIRTHDAY CANDLES**
[54] **SYSTEMES, METHODES ET APPAREIL POUR SOUFFLER DES BOUGIES D'ANNIVERSAIRE**
[72] NAGY, CODIE, CA
[72] SMUSZ, MAREK, CA
[71] NAGY, CODIE, CA
[71] SMUSZ, MAREK, CA
[22] 2021-04-29
[41] 2022-10-29

---

[21] **3,116,491**
[13] A1
[51] **Int.Cl. A61H 15/00 (2006.01)**
[25] EN
[54] **MODULAR BODY TEMPERING/INSTRUMENT ASSISTED SOFT TISSUE MOBILIZATION (IASTM) ROLLER SYSTEM**
[54] **SYSTEME A ROULEAU DE TREMPE CORPORELLE MODULAIRE/DE MOBILISATION DE TISSU MOU A L'AIDE D'UN INSTRUMENT**
[72] CHAPMAN, ROB, CA
[71] CHAPMAN, ROB, CA
[22] 2021-04-28
[41] 2022-10-28

---

[21] **3,116,495**
[13] A1
[51] **Int.Cl. B66D 1/04 (2006.01) B60P 7/08 (2006.01)**
[25] EN
[54] **CARGO STRAP WINCH RAPID REWINDING TOOL**
[54] **OUTIL D'ENROULEMENT RAPIDE DE TREUIL DE CHARGEMENT A SANGLES**
[72] JONES, STUART, CA
[71] JONES, STUART, CA
[22] 2021-04-28
[41] 2022-10-28

---

[21] **3,116,500**
[13] A1
[51] **Int.Cl. A61H 15/00 (2006.01)**
[25] EN
[54] **PORTABLE BODY TEMPERING PLATFORM WITH ROLLER STORAGE**
[54] **PLATEFORME DE TREMPE CORPORELLE PORTATIVE AVEC RANGEMENT DU ROULEAU**
[72] CHAPMAN, ROB, CA
[71] CHAPMAN, ROB, CA
[22] 2021-04-28
[41] 2022-10-28

---

[21] **3,116,510**
[13] A1
[51] **Int.Cl. C10L 11/04 (2006.01) C10L 11/06 (2006.01) F23Q 13/00 (2006.01)**
[25] EN
[54] **FIRE STARTING STRIP**
[54] **BANDE D'ALLUMAGE DE FEU**
[72] SNELL, SIMON GEORGE, GB
[71] CERTAINLY WOOD LTD., GB
[22] 2021-04-28
[41] 2022-10-28

---

[21] **3,116,517**
[13] A1
[51] **Int.Cl. B67B 3/20 (2006.01) B67B 7/18 (2006.01)**
[25] EN
[54] **BACK WOODS BOTTLE CAPPER WITH HEX ATTACHMENT**
[54] **CAPSULEUSE A BOUTEILLE BACKWOODS A FIXATION HEXAGONALE**
[72] NOWOSELSKY, TREVOR, CA
[71] NOWOSELSKY, TREVOR, CA
[22] 2021-04-29
[41] 2022-10-29

---

[21] **3,117,146**
[13] A1
[51] **Int.Cl. A41D 13/00 (2006.01) A01K 13/00 (2006.01)**
[25] EN
[54] **PROTECTIVE DEVICE AGAINST THE BITING OF INSECTS**
[54] **DISPOSITIF DE PROTECTION CONTRE LES MORSURES D'INSECTES**
[72] MARCOTTE, GERRY, CA
[71] MARCOTTE, GERRY, CA
[22] 2021-04-26
[41] 2022-10-26

[21] **3,117,977**
[13] A1
[51] **Int.Cl. A63B 57/00 (2015.01) A63B 69/36 (2006.01)**
[25] EN
[54] **GOLF MIRROR ALIGNMENT AID**
[54] **OUTIL D'AIDE A L'ALIGNEMENT D'UN MIROIR DE GOLF**
[72] MCDOUGALL, LES, XX
[71] MCDOUGALL, LES, CA
[22] 2021-04-29
[41] 2022-10-29

---

[21] **3,119,483**
[13] A1
[51] **Int.Cl. G16H 20/70 (2018.01) G16H 20/10 (2018.01)**
[25] EN
[54] **TOOLS AND METHODS FOR MEASURING THE SUBJECTIVE EFFECTS OF PSYCHEDELIC EXPERIENCES, DRUG INTENSITY AND DETERMINING EFFECTIVE DOSING**
[54] **OUTILS ET METHODES POUR MESURER LES EFFETS SUBJECTIFS DES EXPERIENCES PSYCHEDELIQUES, DE L'INTENSITE DE LA DROGUE ET DETERMINER LE DOSAGE EFFICACE**
[72] ZUCKERMAN, ANDREW, US
[72] GOMEZ EMILSSON, ANDRES, US
[72] WU, LAWRENCE, US
[71] QUALIA RESEARCH INSTITUTE, US
[71] ZUCKERMAN, ANDREW, US
[71] GOMEZ EMILSSON, ANDRES, US
[71] WU, LAWRENCE, US
[22] 2021-05-21
[41] 2022-10-29
[30] US (63/181,531) 2021-04-29

---

[21] **3,122,831**
[13] A1
[51] **Int.Cl. B26B 19/28 (2006.01) B26B 19/02 (2006.01) B26B 19/38 (2006.01)**
[25] EN
[54] **ELECTRIC HAIR CLIPPER DRIVEN BY A BRUSHLESS EXTERNAL ROTOR MOTOR**
[54] **TONDEUSE A CHEVEUX ELECTRIQUE ENTRAINEE PAR UN MOTEUR A ROTOR EXTERNE SANS BALAI**
[72] LI. LEI, CN
[71] WUHAN SHERNBAO PET PRODUCTS MANUFACTURING CO., LTD, CN
[22] 2021-06-22
[41] 2022-10-27
[30] CN (202120882642.4) 2021-04-27

---

[21] **3,122,936**
[13] A1
[51] **Int.Cl. H04W 4/30 (2018.01) H04W 68/00 (2009.01) G06Q 30/00 (2012.01)**
[25] EN
[54] **COMPUTER IMPLEMENTED SYSTEM AND METHOD OF PROVIDING CUSTOMER SUPPORT IN-STORE**
[54] **SYSTEME INFORMATIQUE ET METHODE D'OFFRE DE SOUTIEN A LA CLIENTELE EN MAGASIN**
[72] MALCOMSON, ALLAN, CA
[72] MALCOMSON, ELIZABETH, CA
[71] MALCOMSON, ALLAN, CA
[71] MALCOMSON, ELIZABETH, CA
[22] 2021-06-22
[41] 2022-10-29
[30] US (63/181,482) 2021-04-29

---

[21] **3,123,072**
[13] A1
[51] **Int.Cl. G03G 21/10 (2006.01)**
[25] EN
[54] **METHOD FOR CONVERTING DEVELOPER IN A PRINTER CARTRIDGE**
[54] **METHODE DE CONVERSION DE DEVELOPPANT DANS UNE CARTOUCHE D'IMPRIMANTE**
[72] JOSIAH, MICHAEL RAYMOND, US
[72] DOVI, JOSEPH, US
[71] UI TECHNOLOGIES, INC., US
[22] 2021-06-22
[41] 2022-10-23
[30] US (17/238,821) 2021-04-23

---

[21] **3,132,522**
[13] A1
[51] **Int.Cl. G10K 11/178 (2006.01) H04R 1/08 (2006.01) H04R 29/00 (2006.01)**
[25] EN
[54] **ADAPTIVE NOISE CANCELLING FOR CONFERENCING COMMUNICATION SYSTEMS**
[54] **FONCTION ANTIBRUIT ADAPTATIVE POUR LES SYSTEMES DE COMMUNICATION DE CONFERENCE**
[72] POPOVIC, MIRJANA, CA
[72] SCHULTZ, DIETER, CA
[72] BASTIN, ROGER, CA
[72] WU, ANDREW, CA
[72] NAIDOO, LOGENDRA, CA
[71] MITEL NETWORKS CORPORATION, CA
[22] 2021-09-29
[41] 2022-10-28
[30] US (17/243404) 2021-04-28

---

[21] **3,133,674**
[13] A1
[51] **Int.Cl. F24H 1/43 (2006.01) F24H 1/46 (2006.01)**
[25] EN
[54] **A NOVEL HIGH-EFFICIENCY TWO-CHAMBER BOILER USING TURBULENT REVERSE FLOW OF COMBUSTION GAS**
[54] **NOUVELLE CHAUDIERE A DEUX CHAMBRES DE HAUT RENDEMENT UTILISANT UN FLUX INVERSE TURBULENT DE GAZ DE COMBUSTION**
[72] RAYRAMESH, HOSSEIN, CA
[71] RAYRAMESH, HOSSEIN, CA
[22] 2021-10-07
[41] 2022-10-29
[30] US (17/243,717) 2021-04-29

[21] **3,137,004**
[13] A1
[51] **Int.Cl. A21B 2/00 (2006.01) A21B 1/26 (2006.01) A21B 1/42 (2006.01) A23L 3/01 (2006.01)**
[25] EN
[54] **FOOD PROCESSING MACHINES WITH MICROWAVE HEATING SYSTEMS AND MICROWAVE SUPPRESSION SYSTEMS**
[54] **MACHINES DE TRANSFORMATION ALIMENTAIRE AVEC SYSTEMES DE CHAUFFAGE A MICRO-ONDES ET SYSTEMES DE SUPPRESSION DES MICRO-ONDES**
[72] KING, STEPHEN MICHAEL, US
[72] HANSEL, THOMAS JOHN, US
[72] BUNCE, GRAEME, US
[72] PAULSON, THOMAS, US
[72] SONNTAG, THOMAS VICTOR, US
[72] BONNEVILLE, CRAIG R., US
[72] LOVELACE, EASTEN, US
[72] GRADY, SHANE PATRICK, US
[72] BUSCHKOPF, PAUL CHRISTOPHER, US
[72] MCGINNESS, DALTON BRIAN, US
[71] ALKAR-RAPIDPAK, INC., US
[22] 2021-10-29
[41] 2022-10-26
[30] US (63/179,793) 2021-04-26
[30] US (63/179,796) 2021-04-26
[30] US (63/197,003) 2021-06-04
[30] US (63/238,905) 2021-08-31
[30] US (17/511,845) 2021-10-27

[21] **3,137,628**
[13] A1
[51] **Int.Cl. A47G 9/10 (2006.01) A47C 16/00 (2006.01) A61G 7/075 (2006.01)**
[25] EN
[54] **A KNEE CUSHION**
[54] **COUSSIN POUR LES GENOUX**
[72] SMIDEL, JAMES J., US
[71] SMIDEL, JAMES J., US
[22] 2021-11-04
[41] 2022-10-23
[30] US (17/238,481) 2021-04-23

[21] **3,138,477**
[13] A1
[51] **Int.Cl. G01R 33/04 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR ELIMINATING OFFSET OF FLUXGATE MAGNETOMETER**
[54] **METHODE ET DISPOSITIF POUR ELIMINER LE DECALAGE D'UN MAGNETOMETRE A VANNE DE FLUX**
[72] YUAN, KAIXIN, CN
[72] DU, AIMING, CN
[72] ZHANG, YING, CN
[72] ZHAO, LIN, CN
[72] SUN, SHUQUAN, CN
[72] FENG, XIAO, CN
[72] LI, ZHI, CN
[71] INSTITUTE OF GEOLOGY AND GEOPHYSICS, CHINESE ACADEMY OF SCIENCES, CN
[22] 2021-11-10
[41] 2022-10-26
[30] CN (202110451626.4) 2021-04-26

[21] **3,141,095**
[13] A1
[51] **Int.Cl. B65D 85/32 (2006.01)**
[25] EN
[54] **EGG CARTON WITH DUAL HANDLES**
[54] **BOITE A OEUFS A DEUX POIGNEES**
[72] KURUVILLA, BABU, US
[72] RIVERA, RAFAEL, US
[72] LICHTLE, ROGER, US
[72] BERGERON, MARK, US
[71] TEKNI-PLEX, INC., US
[22] 2021-12-06
[41] 2022-10-28
[30] US (17/242,350) 2021-04-28

[21] **3,142,398**
[13] A1
[51] **Int.Cl. E05B 5/00 (2006.01) E05B 15/00 (2006.01)**
[25] EN
[54] **LOCKING HANDLE MECHANISM**
[54] **MECANISME DE POIGNEE VERROUILLABLE**
[72] EMARD, MAXIME, CA
[72] DURAND, SYLVAIN, CA
[71] FERCO ARCHITECTURAL HARDWARE, INC., CA
[22] 2021-12-15
[41] 2022-10-23
[30] US (63/178,723) 2021-04-23

[21] **3,146,687**
[13] A1
[51] **Int.Cl. A47G 25/06 (2006.01) A47H 1/142 (2006.01)**
[25] EN
[54] **J-HOOK ROD HOLDER**
[54] **SUPPORT DE TIGE EN J**
[72] HU, KEBIAO, CN
[71] HEBEI MINMETALS CO., LTD., CN
[22] 2022-01-26
[41] 2022-10-26
[30] US (63/179,718) 2021-04-26

[21] **3,148,377**
[13] A1
[51] **Int.Cl. A01C 5/06 (2006.01) A01B 63/24 (2006.01)**
[25] EN
[54] **AGRICULTURAL MACHINE ADJUSTING MECHANISM**
[54] **MECANISME D'AJUSTEMENT DE MACHINE AGRICOLE**
[72] HUBNER, CARY S., US
[72] CHAKRABORTY, GAURAV, IN
[72] BARTELSON, MATT D., US
[71] DEERE & COMPANY, US
[22] 2022-02-09
[41] 2022-10-28
[30] US (17/242,832) 2021-04-28

[21] **3,150,563**
[13] A1
[51] **Int.Cl. F16B 41/00 (2006.01) F16B 19/00 (2006.01) F16B 21/00 (2006.01) G09F 3/03 (2006.01) B65D 55/02 (2006.01)**
[25] EN
[54] **BOLT SEAL**
[54] **JOINT D'ETANCHEITE DE BOULON**
[72] KUCKSDORF, KEVIN ROGER, US
[72] KAYE, ALEX JULIAN, US
[71] J.J. KELLER & ASSOCIATES, INC., US
[22] 2022-03-01
[41] 2022-10-23
[30] US (17/238,666) 2021-04-23

[21] **3,151,748**
[13] A1
[51] **Int.Cl. B60P 7/135 (2006.01)**
[25] EN
[54] **BULKHEAD SECUREMENT SYSTEM AND METHOD FOR INTERMODAL SHIPMENT OF DRY FLOWABLE COMMODITIES**
[54] **SYSTEME D'ATTACHE DE CLOISON ET METHODE D'EXPEDITION INTERMODALE DE MARCHANDISES DE PULVERULENTS**
[72] DELONG, WILLIAM P., US
[71] THE DELONG CO., INC., US
[22] 2022-03-10
[41] 2022-10-29
[30] US (17/302,285) 2021-04-29

---

[21] **3,152,960**
[13] A1
[51] **Int.Cl. A61B 17/88 (2006.01) A61B 17/04 (2006.01) A61B 17/56 (2006.01) A61F 2/08 (2006.01) A61F 2/40 (2006.01) A61F 2/46 (2006.01)**
[25] EN
[54] **A CORACOID GUIDING SYSTEM AND A METHOD FOR USING THEREOF**
[54] **SYSTEME DE GUIDAGE CORACOIDE ET METHODE D'UTILISATION**
[72] RANNE, JUHA, FI
[71] CC-CLIP OY, FI
[22] 2022-03-22
[41] 2022-10-29
[30] US (17244146) 2021-04-29

---

[21] **3,153,587**
[13] A1
[51] **Int.Cl. H02J 9/00 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **BACKUP POWER SUPPLY DEVICE AND CHARGE/DISCHARGE CONTROL METHOD**
[54] **DISPOSITIF D'ALIMENTATION DE SECOURS ET METHODE DE CONTROLE DE CHARGE/DECHARGE**
[72] SAITO, YOSUKE, JP
[72] HIWATASHI, KAZUHIRO, JP
[71] FDK CORPORATION, JP
[22] 2022-03-29
[41] 2022-10-28
[30] JP (2021-075632) 2021-04-28

---

[21] **3,153,713**
[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01)**
[25] EN
[54] **VAPE CARTRIDGE ASSEMBLY**
[54] **ENSEMBLE DE CARTOUCHE DE VAPOTAGE**
[72] WALKER, JORDAN, US
[72] SCATTERDAY, MARK A., US
[71] JUPITER RESEARCH, LLC, US
[22] 2022-03-30
[41] 2022-10-29
[30] US (63181619) 2021-04-29

---

[21] **3,153,742**
[13] A1
[51] **Int.Cl. B60N 3/10 (2006.01)**
[25] EN
[54] **VEHICLE CUPHOLDER ADAPTER FOR OVERSIZED BEVERAGE CONTAINER**
[54] **PORTE-TASSE DE VEHICULE POUR LES CONTENANTS A BREUVAGE SURDIMENSIONNES**
[72] MACNEIL, DAVID F., US
[72] CRAWFORD, ANNE, US
[72] GRANGER, RYAN, US
[71] MACNEIL IP LLC, US
[22] 2022-03-29
[41] 2022-10-26
[30] US (17240547) 2021-04-26

---

[21] **3,153,795**
[13] A1
[51] **Int.Cl. E05B 47/00 (2006.01)**
[25] EN
[54] **LOCK DEVICE CAPABLE OF MAGNETIC SENSING, BOLT CALIBRATION METHOD, AND DOOR CALIBRATION METHOD**
[54] **DISPOSITIF DE VERROUILLAGE CAPABLE DE DETECTION MAGNETIQUE, METHODE D'ETALONNAGE DE BOULON ET METHODE D'ETALONNAGE DE PORTE**
[72] SHIH, I-CHANG, TW
[72] LU, SHIH-MIN, TW
[72] CHANG, PI-SHUN, TW
[71] TAIWAN FU HSING INDUSTRIAL CO., LTD., CN
[22] 2022-03-24
[41] 2022-10-27
[30] TW (TW110115110) 2021-04-27

---

[21] **3,153,975**
[13] A1
[51] **Int.Cl. A61L 2/08 (2006.01) B29C 35/08 (2006.01)**
[25] EN
[54] **APPARATUS FOR IRRADIATING GOODS LOADED IN TOTES**
[54] **APPAREIL POUR IRRADIER DES BIENS CHARGES DANS DES RESERVOIRS PORTATIFS**
[72] VINCENT, DOMINIQUE, BE
[72] DESSY, FREDERIC, BE
[72] BRISON, JEREMY, BE
[72] STICHELBAUT, FREDERIC, BE
[71] ION BEAM APPLICATIONS, BE
[22] 2022-04-04
[41] 2022-10-27
[30] EP (21170600.7) 2021-04-27

---

[21] **3,154,046**
[13] A1
[51] **Int.Cl. B02C 18/18 (2006.01)**
[25] EN
[54] **BLADE ELEMENT**
[54] **ELEMENT DE LAME**
[72] SJOSTROM, HAKAN, FI
[72] HIMANKA, TUOMAS, FI
[71] VALMET TECHNOLOGIES OY, FI
[22] 2022-04-01
[41] 2022-10-29
[30] FI (20215500) 2021-04-29

---

[21] **3,154,322**
[13] A1
[51] **Int.Cl. C04B 7/12 (2006.01) C04B 7/13 (2006.01) C04B 14/26 (2006.01) C04B 28/02 (2006.01)**
[25] EN
[54] **COMPOSITE CEMENT WITH IMPROVED REACTIVITY AND METHOD FOR MANUFACTURING IT**
[54] **CIMENT COMPOSITE A REACTIVITE AMELIOREE ET METHODE DE FABRICATION**
[72] BULLERJAHN, FRANK, DE
[72] BREMSETH, SIGURN KJAER, DE
[72] SKJEGGERUD, KJELL, DE
[72] DIENEMANN, WOLFGANG, DE
[71] HEIDELBERGCEMENT AG, DE
[22] 2022-04-04
[41] 2022-10-27
[30] EP (21170683) 2021-04-27

[21] **3,154,366**
[13] A1
[51] **Int.Cl. E03C 1/04 (2006.01) E03C 1/05 (2006.01) F16K 11/02 (2006.01) F16K 31/02 (2006.01)**
[25] EN
[54] **ELECTRONIC FAUCET INCLUDING CAPACITIVE SENSITIVITY CONTROL**
[54] **ROBINET ELECTRONIQUE COMPRENANT UN REGLAGE DE SENSIBILITE CAPACITIF**
[72] SAWASKI, JOEL D., US
[72] MARTY, GARRY R., US
[71] DELTA FAUCET COMPANY, US
[22] 2022-04-07
[41] 2022-10-29
[30] US (17/244,282) 2021-04-29

[21] **3,154,498**
[13] A1
[51] **Int.Cl. B25D 11/04 (2006.01) B25D 11/06 (2006.01) B25D 11/10 (2006.01)**
[25] EN
[54] **OFFSET IMPACT MECHANISM FOR A HAMMER TOOL**
[54] **MECANISME D'IMPACT DECALE POUR UN MARTEAU**
[72] BEER, JOSHUA M., US
[71] SNAP-ON INCORPORATED, US
[22] 2022-04-06
[41] 2022-10-26
[30] US (17/239,989) 2021-04-26

[21] **3,154,536**
[13] A1
[51] **Int.Cl. A63B 71/08 (2006.01) A41D 13/05 (2006.01) A63B 71/12 (2006.01)**
[25] EN
[54] **NECK GUARD**
[54] **PROTEGE-COU**
[72] WEISS, THERESE ANN, US
[71] WEISS, THERESE ANN, US
[22] 2022-04-08
[41] 2022-10-26
[30] US (63/179,874) 2021-04-26

[21] **3,154,872**
[13] A1
[51] **Int.Cl. B64C 1/40 (2006.01) B64C 1/14 (2006.01) B64D 11/00 (2006.01)**
[25] EN
[54] **TEXTILE DOOR INSULATION MEANS FOR A PASSENGER DOOR IN AN AIRCRAFT**
[54] **MOYEN D'ISOLATION DE PORTE EN TISSU POUR UNE PORTE DE PASSAGER DANS UN AERONEF**
[72] KIRSTEIN, HAUKE, DE
[72] KYAS, GUNTER, DE
[71] AIRBUS OPERATIONS GMBH, DE
[22] 2022-04-01
[41] 2022-10-28
[30] EP (21171025.6) 2021-04-28

[21] **3,155,117**
[13] A1
[51] **Int.Cl. F04D 13/06 (2006.01) F04D 29/048 (2006.01) F16C 32/04 (2006.01)**
[25] EN
[54] **AN ELECTROMAGNETIC ROTARY DRIVE, A CENTRIFUGAL PUMP AND A PUMP UNIT**
[54] **MECANISME D'ENTRAINEMENT ROTATIF ELECTROMAGNETIQUE, POMPE CENTRIFUGE ET GROUPE MOTOPOMPE**
[72] STEINERT, DANIEL, CH
[72] SCHNEEBERGER, THOMAS, CH
[72] NUSSBAUMER, THOMAS, CH
[72] STETTLER, MARCEL, CH
[72] GINE, JONAS, CH
[71] LEVITRONIX GMBH, CH
[22] 2022-04-01
[41] 2022-10-26
[30] EP (EP21170397.0) 2021-04-26

[21] **3,155,371**
[13] A1
[51] **Int.Cl. A01C 15/00 (2006.01) A01C 7/06 (2006.01)**
[25] EN
[54] **FERTILISER BOOT AND SHIELD**
[54] **PIED A ENGRAIS ET ECRAN PROTECTEUR**
[72] RYAN, JOHN WILLIAM, AU
[71] AUSPLOW PTY. LTD., AU
[22] 2022-04-14
[41] 2022-10-23
[30] AU (AU2021901211) 2021-04-23
[30] AU (AU2021221571) 2021-08-25
[30] AU (AU2022200972) 2022-02-14

[21] **3,155,649**
[13] A1
[51] **Int.Cl. C03C 3/091 (2006.01)**
[25] EN
[54] **COLOR STABILITY UNDER IRRADIATION WITH BLUE LIGHT**
[54] **STABILITE DE LA COULEUR SOUS RAYONNEMENT DE LUMIERE BLEUE**
[72] JEDAMZIK, RALF, DE
[72] CARRE, ANTOINE, DE
[72] LEUKEL, SEBASTIAN, DE
[72] HAGEMANN, VOLKER, DE
[72] PETZOLD, UWE, DE
[72] BARTELMESTRASSE, LOTHAR, DE
[71] SCHOTT AG, DE
[22] 2022-04-19
[41] 2022-10-27
[30] DE (10 2021 110 793.8) 2021-04-27
[30] TW (110119452) 2021-05-28
[30] DE (10 2021 131 152.7) 2021-11-26

[21] **3,155,676**
[13] A1
[51] **Int.Cl. C01D 5/00 (2006.01) C01C 1/24 (2006.01) C01D 5/06 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCTION OF POTASSIUM SULFATE, AMMONIUM SULFATE, AND CALCIUM CARBONATE FROM SYNGENITE**
[54] **PROCEDE DE FABRICATION DE SULFATE DE POTASSIUM, DE SULFATE D'AMMONIUM ET DE CARBONATE DE CALCIUM A PARTIR DE SYNGENITE**
[72] YAKIMISHYN, RICK, CA
[72] PHINNEY, JONATHON FRANKLIN, CA
[71] UPCYCLE MINERALS INC., CA
[22] 2022-04-18
[41] 2022-10-27
[30] US (63180207) 2021-04-27

[21] **3,155,734**
[13] A1
[51] **Int.Cl. B26D 1/143 (2006.01) B26D 5/00 (2006.01) B26D 7/00 (2006.01)**
[25] EN
[54] **FOOD PRODUCT SLICER WITH GAUGE PLATE POSITION IDENTIFICATION**
[54] **TRANCHEUSE A PRODUITS ALIMENTAIRES ET DETERMINATION DE POSITION D'UNE PLAQUE D'ECARTEMENT**
[72] BIRD, MATTHEW W., US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2022-04-19
[41] 2022-10-26
[30] US (63/179,596) 2021-04-26

---

[21] **3,155,752**
[13] A1
[51] **Int.Cl. F21V 29/74 (2015.01) F21V 29/77 (2015.01) F21K 9/00 (2016.01)**
[25] EN
[54] **COMPOSITE LUMINAIRE**
[54] **APPAREIL D'ECLAIRAGE COMPOSITE**
[72] SANTIAGO BAERGA, JEREMY M., US
[71] EATON INTELLIGENT POWER LIMITED, IE
[22] 2022-04-19
[41] 2022-10-23
[30] US (63/178930) 2021-04-23

---

[21] **3,155,892**
[13] A1
[51] **Int.Cl. B64C 13/28 (2006.01) F16D 7/04 (2006.01)**
[25] FR
[54] **ASSEMBLY EQUIPPED WITH A COUPLING SYSTEM THAT CAN BE DISCONNECTED AND COMPRISING A FUSE AND A FRICTION BRAKE**
[54] **ASSEMBLAGE MUNI D'UN SYSTEME D'ACCOUPLEMENT POUVANT ETRE DECONNECTE AYANT UN FUSIBLE MECANIQUE ET UN FREIN A FRICTION**
[72] RUET, LAURENT, FR
[71] AIRBUS HELICOPTERS, FR
[22] 2022-04-20
[41] 2022-10-28
[30] FR (2104419) 2021-04-28

---

[21] **3,155,972**
[13] A1
[51] **Int.Cl. H04B 10/11 (2013.01)**
[25] EN
[54] **WAVELENGTH SEPARATED FINE STEERING ASSEMBLY**
[54] **ASSEMBLAGE DE GUIDAGE PRECIS A LONGUEURS D'ONDE SEPAREES**
[72] DUCELLIER, THOMAS, US
[71] COM DEV LTD., CA
[22] 2022-04-20
[41] 2022-10-28
[30] US (17/243359) 2021-04-28

---

[21] **3,155,973**
[13] A1
[51] **Int.Cl. C25D 17/02 (2006.01) C25D 3/12 (2006.01) C25D 5/00 (2006.01) C25D 7/00 (2006.01)**
[25] EN
[54] **ELECTROPLATING SYSTEMS AND METHODS FOR WEAR-RESISTANT COATINGS**
[54] **SYSTEMES D'ELECTROPLACAGE ET METHODES POUR DES REVETEMENTS RESISTANTS A L'USURE**
[72] SKLAR, GLENN, US
[72] PIASCIK, JAMES, US
[72] MINTZER, JOSEPH, US
[71] HONEYWELL INTERNATIONAL INC., US
[22] 2022-04-20
[41] 2022-10-28
[30] US (17/571952) 2022-01-10
[30] US (63/180976) 2021-04-28

---

[21] **3,156,103**
[13] A1
[51] **Int.Cl. F21L 4/08 (2006.01) F21L 4/00 (2006.01) F21V 33/00 (2006.01)**
[25] EN
[54] **SOLAR LANTERN SPEAKER**
[54] **LANTERNE SOLAIRE ET HAUT-PARLEUR**
[72] CHEN, ZHONGHONG, US
[71] ALPINE CORPORATION, US
[22] 2022-04-21
[41] 2022-10-27
[30] US (63180546) 2021-04-27
[30] US (17494653) 2021-10-05

---

[21] **3,156,112**
[13] A1
[25] EN
[54] **AN ELECTROMAGNETIC ROTARY DRIVE, A CENTRIFUGAL PUMP AND A PUMP UNIT**
[54] **MECANISME D'ENTRAINEMENT ROTATIF ELECTROMAGNETIQUE, POMPE CENTRIFUGE ET GROUPE MOTOPOMPE**
[72] STETTLER, MARCEL, CH
[72] SCHNEEBERGER, THOMAS, CH
[71] LEVITRONIX GMBH, CH
[22] 2022-04-12
[41] 2022-10-26
[30] EP (21170398.8) 2021-04-26

---

[21] **3,156,139**
[13] A1
[51] **Int.Cl. B23Q 16/00 (2006.01) B23Q 3/00 (2006.01) F16B 19/02 (2006.01)**
[25] EN
[54] **PIN FOR LOCKING WORKPIECES, PARTICULARLY MOLDS, THAT ARE ADAPTED TO BE MACHINED ON MACHINE TOOLS**
[54] **GOUPILLE DE VERROUILLAGE POUR PIECES A USINER, EN PARTICULIER DES MOULES, ADAPTEES A L'USINAGE SUR DES MACHINES-OUTILS**
[72] ROLANDI, ANDREA, IT
[71] OFFICINA MECCANICA LOMBARDA S.R.L., IT
[22] 2022-04-21
[41] 2022-10-27
[30] IT (102021000010523) 2021-04-27

[21] **3,156,142**
[13] A1
[51] **Int.Cl. G10L 15/01 (2013.01) G10L 15/183 (2013.01) G06F 40/279 (2020.01) G06F 40/30 (2020.01) G10L 15/16 (2006.01)**
[25] EN
[54] **VOICE QUALITY INSPECTION METHOD, DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE D'INSPECTION DE LA QUALITE VOCALE, DISPOSITIF, MATERIEL INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] WANG, GANG, CN
[71] 10353744 CANADA LTD., CA
[22] 2022-04-21
[41] 2022-10-25
[30] CN (202110451473.3) 2021-04-25

[21] **3,156,164**
[13] A1
[51] **Int.Cl. G06Q 40/06 (2012.01)**
[25] EN
[54] **FUND RECOMMENDING METHOD, DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE DE RECOMMANDATION DE FONDS, DISPOSITIF, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] FENG, HUIMIN, CN
[71] 10353744 CANADA LTD., CA
[22] 2022-04-21
[41] 2022-10-25
[30] CN (202110447295.7) 2021-04-25

[21] **3,156,172**
[13] A1
[51] **Int.Cl. G06N 5/00 (2006.01) G06F 16/906 (2019.01) G06F 40/20 (2020.01) G06Q 30/00 (2012.01)**
[25] EN
[54] **TEXT-CLUSTERING-BASED CUSTOMER SERVICE LOG BACKFLOW METHOD AND APPARATUS THEREOF**
[54] **METHODE DE RETOUR DE REGISTRES DE SERVICE A LA CLIENTELE FONDE SUR MISE EN GRAPPE TEXTUELLE ET APPAREIL CONNEXE**
[72] ZHANG, GUODONG, CN
[71] 10353744 CANADA LTD., CA
[22] 2022-04-21
[41] 2022-10-25
[30] CN (202110448068.6) 2021-04-25

[21] **3,156,189**
[13] A1
[51] **Int.Cl. B07B 4/00 (2006.01) B07B 7/04 (2006.01)**
[25] EN
[54] **AIR SEPARATION SYSTEMS**
[54] **SYSTEMES DE SEPARATION D'AIR**
[72] BOERHOF, HENK, NL
[72] ZWIERS, ALEXANDER, NL
[71] BOLLEGRAAF PATENTS AND BRANDS B.V., NL
[22] 2022-04-21
[41] 2022-10-28
[30] NL (2028083) 2021-04-28

[21] **3,156,192**
[13] A1
[51] **Int.Cl. A01G 9/20 (2006.01) G06F 16/903 (2019.01) G06F 16/906 (2019.01) G16Z 99/00 (2019.01)**
[25] EN
[54] **HORTICULTURAL LIGHTING SCENARIOS MANAGEMENT SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE DE GESTION DES SCENARIOS D'ECLAIRAGE HORTICOLE**
[72] R. MOISAN, FRANCOIS, CA
[72] DUPRAS, GABRIEL, CA
[72] POIRIER, JACQUES, CA
[72] SMITH, CHARLES, CA
[72] BRUN, LOUIS, CA
[72] MENARD, PATRICK, CA
[72] TREMBLAY, MARC, CA
[71] SOLLUM TECHNOLOGIES INC., CA
[22] 2022-04-22
[41] 2022-10-23
[30] US (63/201,316) 2021-04-23

[21] **3,156,193**
[13] A1
[51] **Int.Cl. A63B 24/00 (2006.01) A61B 5/11 (2006.01) A63B 23/16 (2006.01)**
[25] EN
[54] **A REMOTE TRAINING AND PRACTICING APPARATUS AND SYSTEM FOR UPPER-LIMB REHABILITATION**
[54] **APPAREIL D'ENTRAINEMENT DE PRATIQUE TELECOMMANDE ET SYSTEME DE REHABILITATION D'UN MEMBRE SUPERIEUR**
[72] MADDAHI, ALI, CA
[72] CHOUKOU, MOHAMED-AMINE, CA
[72] NASSIRI, AMIR MAHDI, CA
[72] MADDAHI, YASER, CA
[71] TACTILE ROBOTICS LTD., CA
[22] 2022-04-22
[41] 2022-10-23
[30] US (63/178,735) 2021-04-23

[21] **3,156,206**
[13] A1
[51] **Int.Cl. E06B 3/30 (2006.01) E04F 19/02 (2006.01)**
[25] EN
[54] **MAGNETIC BUILDING TRIM SYSTEM**
[54] **COLLECTEUR D'ASSIETTE DE BATIMENT MAGNETIQUE**
[72] CASHMAN, DANIEL J., US
[71] TRIM SOLUTIONS, LLC, US
[22] 2022-04-22
[41] 2022-10-23
[30] US (63/178.603) 2021-04-23

---

[21] **3,156,219**
[13] A1
[51] **Int.Cl. B60W 10/06 (2006.01) B60W 10/18 (2012.01)**
[25] EN
[54] **METHOD FOR CONTROLLING ENGINE BRAKING IN A VEHICLE**
[54] **METHODE DE COMMANDE DU FREINAGE MOTEUR DANS UN VEHICULE**
[72] BRETON, REMI, CA
[72] BEN ATTOUCH, WALID, CA
[72] DULAC, MAXIME, CA
[72] CHAILLOU, STEPHANE, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[22] 2022-04-22
[41] 2022-10-23
[30] US (63/178,592) 2021-04-23

---

[21] **3,156,224**
[13] A1
[51] **Int.Cl. B08B 15/02 (2006.01) B65D 90/22 (2006.01) F16P 3/00 (2006.01)**
[25] EN
[54] **SOLVENT CONTAINMENT AND PROCESS INTERLOCKING SYSTEM**
[54] **SYSTEME DE CONFINEMENT DE SOLVANT ET D'INTERVERROUILLAGE DE PROCEDES**
[72] SEABROOK, JAMES ANTHONY, CA
[72] BROWN, RAYMOND, CA
[72] WALKER, CHELSEA, CA
[71] VITALIS EXTRACTION TECHNOLOGY INC., CA
[22] 2022-04-22
[41] 2022-10-23
[30] US (63/178,695) 2021-04-23

---

[21] **3,156,342**
[13] A1
[51] **Int.Cl. E01B 29/32 (2006.01) E01B 29/24 (2006.01)**
[25] EN
[54] **TIE PLATE HANDLING MECHANISM**
[54] **MECANISME DE MANIPULATION DE SELLES DE RAIL**
[72] COOTS, COTY T., US
[71] B & B METALS, INC., US
[22] 2022-04-19
[41] 2022-10-26
[30] US (63/179802) 2021-04-26

---

[21] **3,156,392**
[13] A1
[51] **Int.Cl. E21B 47/12 (2012.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR TRANSMITTING AN ELECTRICAL SIGNAL**
[54] **METHODE ET APPAREIL POUR TRANSMETTRE UN SIGNAL ELECTRIQUE**
[72] ESPARZA, JESUS MINAKATA, CA
[71] COILHOSE, GB
[22] 2022-04-25
[41] 2022-10-29
[30] GB (2106162.7) 2021-04-29

---

[21] **3,156,393**
[13] A1
[51] **Int.Cl. C08J 11/10 (2006.01) C08G 77/46 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING ENDCAPPED, LIQUID SILOXANES FROM SILICONE WASTES**
[54] **PROCEDE DE PRODUCTION DE SILOXANES LIQUIDES EMBOUTES A PARTIR DE REBUTS DE SILICONE**
[72] KNOTT, WILFRIED, DE
[72] DUDZIK, HORST, DE
[71] EVONIK OPERATIONS GMBH, DE
[22] 2022-04-25
[41] 2022-10-29
[30] EP (21171175.9) 2021-04-29

---

[21] **3,156,404**
[13] A1
[51] **Int.Cl. G06Q 40/00 (2012.01)**
[25] EN
[54] **METHOD OF DETERMINING POTENTIALLY FINANCIALLY RISKY USER, DEVICE, COMPUTER EQUIPMENT AND MEDIUM**
[54] **METHODE DE DETERMINATION D'UN UTILISATEUR PRESENTANT UN EVENTUEL RISQUE FINANCIER, DISPOSITIF, MATERIEL INFORMATIQUE ET SUPPORT**
[72] LI, ENZHI, CN
[71] 10353744 CANADA LTD., CA
[22] 2022-04-25
[41] 2022-10-25
[30] CN (202110448073.7) 2021-04-25

---

[21] **3,156,410**
[13] A1
[51] **Int.Cl. H04L 67/50 (2022.01)**
[25] EN
[54] **METHOD OF AND DEVICE FOR NETWORKING ACCESS OF CLIENT ENDS IN P2P SYSTEM**
[54] **METHODE ET DISPOSITIF POUR L'ACCES RESEAU D'EXTREMITES CLIENT DANS UN SYSTEME POSTE A POSTE**
[72] LIN, JIAN, CN
[72] ZU, ZHAOYAN, CN
[72] CHEN, XINGZHOU, CN
[72] SU, JINJIN, CN
[71] 10353744 CANADA LTD., CA
[22] 2022-04-25
[41] 2022-10-26
[30] CN (202110464045.4) 2021-04-26

[21] **3,156,455**
[13] A1
[51] **Int.Cl. F21V 21/15 (2006.01) A01G 9/20 (2006.01) F21V 21/34 (2006.01) F21V 21/36 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR UTILIZING WASTE ENERGY TO PRODUCE PLANTS AND ANIMALS**
[54] **SYSTEME ET METHODE POUR UTILISER L'ENERGIE RESIDUELLE POUR LA PRODUCTION VEGETALE ET ANIMALE**
[72] BILY, JONATHAN, CA
[71] BILY, JONATHAN, CA
[22] 2022-04-25
[41] 2022-10-26
[30] CA (3116029) 2021-04-26

[21] **3,156,476**
[13] A1
[51] **Int.Cl. B64C 11/40 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETECTING AND MITIGATING A PROPELLER FAILURE CONDITION**
[54] **SYSTEME ET METHODE POUR DETECTER ET ATTENUER UNE CONDITION DE PANNE D'HELICE**
[72] KRZYWON, JAGODA, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-04-25
[41] 2022-10-27
[30] US (17/241,915) 2021-04-27

[21] **3,156,510**
[13] A1
[51] **Int.Cl. B01D 61/12 (2006.01)**
[25] EN
[54] **RETROFIT CONTROL MODULE FOR REVERSE OSMOSIS SYSTEM AND METHOD FOR USING THE SAME**
[54] **MODULE DE COMMANDE D'AJUSTEMENT POUR DES SYSTEMES D'OSMOSE INVERSE ET METHODE D'UTILISATION**
[72] CHABOT, MARC-ANDRE, CA
[72] COTE, SYLVAIN, CA
[71] LES EQUIPMENTS D'ERABLIERE C.D.L. INC., CA
[22] 2022-04-26
[41] 2022-10-28
[30] US (63/180,944) 2021-04-28

[21] **3,156,521**
[13] A1
[51] **Int.Cl. E05F 11/16 (2006.01) E05F 11/24 (2006.01) E05F 11/34 (2006.01)**
[25] EN
[54] **WINDOW OPERATOR HANDLE AND COVER WITH MAGNETIC SECURING FEATURES**
[54] **POIGNEE ET COUVERCLE DE COMMANDE DE FENETRE AYANT DES CARACTERISTIQUES DE FIXATION MAGNETIQUE**
[72] DALLMANN, BRIAN, US
[72] FICKAS, ERIC, US
[72] HICKMAN, JONATHAN P., US
[71] TRUTH HARDWARE CORPORATION, US
[22] 2022-04-25
[41] 2022-10-23
[30] US (63/178,818) 2021-04-23

[21] **3,156,528**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR PARALLELING 3-WIRE AND 4-WIRE 3-PHASE ACTIVE HARMONIC FILTERS**
[54] **SYSTEMES ET METHODES DE MISE EN PARALLELE DE FILTRES D'HARMONIQUES ACTIFS TRIPHASES A TROIS ET A QUATRE FILS**
[72] MARWALI, MOHAMMAD NANDA RAHMANA, US
[72] BATCH, JOHN SIMON, US
[71] SCHNEIDER ELECTRIC USA, INC., US
[22] 2022-04-26
[41] 2022-10-29
[30] US (63/181.668) 2021-04-29
[30] US (17/489.245) 2021-09-29

[21] **3,156,535**
[13] A1
[51] **Int.Cl. A47G 19/26 (2006.01) B65D 43/02 (2006.01) B65D 51/24 (2006.01) B65D 55/00 (2006.01)**
[25] EN
[54] **STOPPER FOR FOOD JAR**
[54] **BOUCHON POUR POT A ALIMENTS**
[72] LANE, MARVIN, US
[71] THERMOS L.L.C., US
[22] 2022-04-26
[41] 2022-10-28
[30] US (63/180,770) 2021-04-28

[21] **3,156,553**
[13] A1
[51] **Int.Cl. B65D 5/18 (2006.01) B65D 5/43 (2006.01) B65D 55/02 (2006.01)**
[25] EN
[54] **TAMPER-EVIDENT CONTAINER HAVING RELEASE FLAP AND CLOSURE TAB**
[54] **CONTENANT A ALTERATION EVIDENTE COMPRENANT UN CLAPET DE LIBERATION ET UNE LANGUETTE DE FERMETURE**
[72] LEARN, ANGELA E., US
[71] PACTIV LLC, US
[22] 2022-04-26
[41] 2022-10-27
[30] US (63/180,222) 2021-04-27
[30] US (63/243,269) 2021-09-13

[21] **3,156,586**
[13] A1
[51] **Int.Cl. A62C 31/24 (2006.01) A62C 31/28 (2006.01) F16L 3/00 (2006.01) F16M 11/00 (2006.01)**
[25] EN
[54] **CONFIGURABLE SUPPORT FOR AN AUTONOMOUS FIREFIGHTING TOWER**
[54] **SUPPORT CONFIGURABLE POUR UNE TOUR DE LUTTE CONTRE LES INCENDIES AUTONOME**
[72] THOMSEN, GARRY D., US
[71] THOMSEN, GARRY D., US
[22] 2022-04-27
[41] 2022-10-29
[30] US (17244866) 2021-04-29

[21] **3,156,645**
[13] A1
[51] **Int.Cl. B25F 5/00 (2006.01) B25B 23/00 (2006.01) E04G 21/32 (2006.01)**
[25] EN
[54] **POWER TOOL FALL PROTECTION DEVICE**
[54] **DISPOSITIF DE PROTECTION CONTRE LES CHUTES D'OUTIL ELECTRIQUE**
[72] BELYAKOV, GLEB, CA
[72] CRIVOI, VALERI, CA
[71] GRIPGUARD INC., CA
[22] 2022-04-27
[41] 2022-10-28
[30] US (63/180,846) 2021-04-28

[21] **3,156,647**
[13] A1
[51] **Int.Cl. G01S 5/02 (2010.01) G01S 13/76 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR DETERMINING A POSITION OF AN AIRBORNE VEHICLE USING SECONDARY SURVEILLANCE RADARS AS BEACONS**
[54] **METHODE ET APPAREIL POUR DETERMINER UNE POSITION D'UN VEHICULE AERIEN AU MOYEN DE RADARS SECONDAIRES DE SURVEILLANCE COMME BALISES**
[72] O'YOUNG, SIU DONALD, CA
[72] LI, YAKE, CA
[71] SEAMATICA AEROSPACE LTD., CA
[22] 2022-04-26
[41] 2022-10-26
[30] US (17/577,250) 2022-01-17
[30] US (63/179,901) 2021-04-26
[30] US (63/179,929) 2021-04-26

[21] **3,156,653**
[13] A1
[51] **Int.Cl. H01M 10/056 (2010.01) H01M 4/134 (2010.01) H01M 10/0525 (2010.01) H01M 10/0567 (2010.01)**
[25] EN
[54] **ELECTROLYTE-SOLUTION COMPOSITION AND SECONDARY BATTERY USING SAME**
[54] **COMPOSITION DE SOLUTION D'ELECTROLYTE ET BATTERIE SECONDAIRE UTILISANT LA COMPOSITION**
[72] MEKONNEN TEKALIGNE, TESHAGER, TW
[72] LIAO, SIAO-CHUN, TW
[72] SU, WEI-NIEN, TW
[72] HWANG, BING-JOE, TW
[71] ADVANCED LITHIUM ELECTROCHEMISTRY CO., LTD., TW
[22] 2022-04-20
[41] 2022-10-29
[30] US (63/181,658) 2021-04-29

[21] **3,156,705**
[13] A1
[51] **Int.Cl. A47K 13/02 (2006.01) A61L 2/23 (2006.01)**
[25] EN
[54] **TOILET SEAT ASSEMBLY**
[54] **ASSEMBLAGE DE SIEGE DE TOILETTE**
[72] WITTICH, JURI, DE
[71] DURAVIT AKTIENGESELLSCHAFT, DE
[22] 2022-04-26
[41] 2022-10-29
[30] DE (102021110977.9) 2021-04-29

[21] **3,156,720**
[13] A1
[51] **Int.Cl. A47K 13/02 (2006.01) B29C 70/58 (2006.01)**
[25] EN
[54] **TOILET SEAT ASSEMBLY**
[54] **ASSEMBLAGE DE SIEGE DE TOILETTE**
[72] WITTICH, JURI, DE
[71] DURAVIT AKTIENGESELLSCHAFT, DE
[22] 2022-04-26
[41] 2022-10-29
[30] DE (102021110977.9) 2021-04-29

[21] **3,156,725**
[13] A1
[51] **Int.Cl. C08L 101/00 (2006.01) C08K 3/013 (2018.01) A47K 13/02 (2006.01) A61L 2/23 (2006.01) C08J 3/20 (2006.01) C08J 5/04 (2006.01) C08K 5/00 (2006.01) C08K 7/02 (2006.01)**
[25] EN
[54] **TOILET SEAT ASSEMBLY**
[54] **ASSEMBLAGE DE SIEGE DE TOILETTE**
[72] WITTICH, JURI, DE
[71] DURAVIT AKTIENGESELLSCHAFT, DE
[22] 2022-04-26
[41] 2022-10-29
[30] DE (102021110977.9) 2021-04-29

[21] **3,156,850**
[13] A1
[51] **Int.Cl. F25B 1/00 (2006.01) F25B 9/00 (2006.01) F25B 41/00 (2021.01) F25B 49/02 (2006.01)**
[25] EN
[54] **HVAC DUAL DE-SUPERHEATING/SUBCOOLING HEAT RECLAIM SYSTEM FOR TRANSCRITICAL REFRIGERATION SYSTEMS**
[54] **SYSTEME DE RECUPERATION DE CHALEUR DOUBLE CVC DE DESURCHAUFFE/SOUS-REFROIDISSEMENT POUR LES SYSTEMES DE REFRIGERATION TRANSCRITIQUES**
[72] ELLIOTT, BRYAN, CA
[72] ZAMANZADEH HARATBAR, SAMAN, CA
[71] FLO ENERGY SOLUTIONS INC., CA
[22] 2022-04-28
[41] 2022-10-29
[30] US (63/181,530) 2021-04-29

[21] **3,156,871**
[13] A1
[51] **Int.Cl. A47G 29/00 (2006.01) A47G 33/00 (2006.01) F21V 33/00 (2006.01)**
[25] EN
[54] **DECORATIVE CONTAINER WITH A SPEAKER**
[54] **CONTENANT DECORATIF AVEC HAUT-PARLEUR**
[72] WINTERS, JODIE, US
[72] PARASI, NINETTE, US
[71] ALPINE CORPORATION, US
[22] 2022-04-27
[41] 2022-10-27
[30] US (63/180514) 2021-04-27
[30] US (17/588073) 2022-01-28

[21] **3,156,876**
[13] A1
[51] **Int.Cl. G03B 37/02 (2021.01)**
[25] EN
[54] **APPARATUS FOR PHOTOGRAPHING A TARGET OBJECT FROM MULTIPLE VIEWPOINTS**
[54] **APPAREIL POUR PHOTOGRAPHIER UN OBJET CIBLE SELON PLUSIEURS ANGLES**
[72] ARRINGTON, JEFFREY, US
[71] ARRINGTON, JEFFREY, US
[22] 2022-04-28
[41] 2022-10-29
[30] US (63/181,819) 2021-04-29

[21] **3,156,887**
[13] A1
[51] **Int.Cl. F23G 7/06 (2006.01) G05B 19/44 (2006.01) G05D 16/16 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR ELIMINATING HYDROCARBON GAS VENTING FROM PNEUMATIC CONTROLLERS**
[54] **METHODE ET APPAREIL POUR ELIMINER LA DISPERSION DE GAZ D'HYDROCARBURES DE REGULATEURS PNEUMATIQUES**
[72] HEATH, FORREST D., US
[72] HEATH, GARY, US
[71] HEATH, FORREST D., US
[71] HEATH, GARY, US
[22] 2022-04-28
[41] 2022-10-28
[30] US (63/180,977) 2021-04-28
[30] US (63/195,563) 2021-06-01

[21] **3,156,889**
[13] A1
[51] **Int.Cl. A01F 29/00 (2006.01) A01D 87/12 (2006.01) B65B 69/00 (2006.01) A01K 5/00 (2006.01)**
[25] FR
[54] **GRIPPING AND EXTRACTION METHOD BY MEANS OF CONNECTING A BOOT AND MACHINE INTENDED FOR LOADING, UNDOING, DISTRIBUTING AND/OR TRANSFORMING SUCH A BOOT AND EQUIPPED WITH A GRIPPING AND EXTRACTION DEVICE**
[54] **PROCEDE DE PREHENSION ET D'EXTRACTION DU MOYEN DE LIAISON D'UNE BOTTE ET MACHINE DESTINEE A CHARGER, DEFAIRE, DISTRIBUER ET/OU TRANSFORMER UNE TELLE BOTTE ET MUNIE D'UN DISPOSITIF DE PREHENSION ET D'EXTRACTION**
[72] GAUTRON, PASCAL, FR
[72] ROGER, CHRISTOPHE, FR
[71] KUHN-AUDUREAU SAS, FR
[22] 2022-04-28
[41] 2022-10-28
[30] FR (21 04429) 2021-04-28

[21] **3,156,901**
[13] A1
[51] **Int.Cl. B29C 65/08 (2006.01)**
[25] EN
[54] **WEB PROCESSING MACHINES WITH ULTRASONIC SEALERS**
[54] **MACHINES DE TRAITEMENT DE TOILE AVEC ENDUITS ULTRASONIQUES**
[72] EVANS, JOHN HOLMES, US
[72] WHITE, CHRISTOPHER LEE, US
[71] CMD CORPORATION, US
[22] 2022-04-28
[41] 2022-10-29
[30] US (63/181,475) 2021-04-29
[30] US (17/729,580) 2022-04-26

[21] **3,156,913**
[13] A1
[51] **Int.Cl. G01F 23/00 (2022.01) G01F 23/263 (2022.01) G01F 23/80 (2022.01) A01D 34/67 (2006.01) A01D 34/82 (2006.01)**
[25] EN
[54] **LAWNMOWER COLLECTION VESSEL FILL INDICATOR ASSEMBLIES**
[54] **ASSEMBLAGES D'INDICATEUR DE REMPLISSAGE DE RECIPIENTS DE COLLECTE DE TONDEUSE**
[72] FIELD, ALEX, US
[72] TIEMANN, ELI, US
[72] SHAFRAN, JOSHUA, US
[72] KOERNER, MAXWELL, US
[72] HOLLOWAY, PHILLIP, US
[72] KILEY, SAMUEL, US
[71] TECHTRONIC CORDLESS GP, US
[22] 2022-04-21
[41] 2022-10-27
[30] US (63/180,290) 2021-04-27

[21] **3,156,915**
[13] A1
[51] **Int.Cl. B26B 13/28 (2006.01) B26B 13/12 (2006.01)**
[25] EN
[54] **HAND TOOL WITH SHEAR ASSEMBLY**
[54] **OUTIL A MAIN ET CISAILLE**
[72] CHAN, RONY, US
[71] TECHTRONIC CORDLESS GP, US
[22] 2022-04-21
[41] 2022-10-29
[30] US (63/181,575) 2021-04-29

[21] **3,157,006**
[13] A1
[51] **Int.Cl. C02F 9/04 (2006.01) C02F 1/28 (2006.01) C02F 1/78 (2006.01) C02F 9/00 (2006.01)**
[25] EN
[54] **LAUNDRY WASTEWATER TREATMENT METHODS AND SYSTEMS**
[54] **METHODES ET SYSTEMES DE TRAITEMENT DES EAUX USEES DE BUANDERIE**
[72] CARTWRIGHT, TOM, US
[72] VERDONE, LAWRENCE, US
[71] CARTWRIGHT, TOM, US
[71] VERDONE, LAWRENCE, US
[22] 2022-04-22
[41] 2022-10-26
[30] US (63/179838) 2021-04-26

[21] **3,157,013**
[13] A1
[51] **Int.Cl. H04N 5/222 (2006.01)**
[25] EN
[54] **COLOR AND LIGHTING ADJUSTMENT FOR IMMERSIVE CONTENT PRODUCTION SYSTEM**
[54] **AJUSTEMENT DE LA COULEUR ET DE LA LUMIERE POUR UN SYSTEME DE PRODUCTION DE CONTENU IMMERSIF**
[72] JUTAN, MICHAEL, US
[72] HIRSCHFIELD, DAVID, US
[72] WEBSTER, JEFF, US
[72] RICHARDS, SCOTT, US
[71] LUCASFILM ENTERTAINMENT COMPANY LTD., US
[22] 2022-04-21
[41] 2022-10-23
[30] US (63/179,027) 2021-04-23
[30] US (17/716,333) 2022-04-08
[30] US (17/716,384) 2022-04-08
[30] US (17/716,437) 2022-04-08
[30] US (17/716,474) 2022-04-08

[21] **3,157,016**
[13] A1
[51] **Int.Cl. G06F 17/00 (2019.01) G06F 16/00 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ORGANISING BIG-DATA AND WORKSTREAM PARAMETERS FOR DIGITAL TRANSFORMATIONS**
[54] **SYSTEME ET METHODE POUR ORGANISER DES PARAMETRES DE MEGADONNEES ET DES FLUX DE TRAVAIL DE TRANSFORMATIONS NUMERIQUES**
[72] COLLINS, LAURENCE, GB
[71] DIGIWORKZ LIMITED, GB
[22] 2022-04-29
[41] 2022-10-29
[30] GB (2106168.4) 2021-04-29

[21] **3,157,043**
[13] A1
[51] **Int.Cl. A63B 21/02 (2006.01) A63B 5/20 (2006.01) A63B 21/055 (2006.01)**
[25] EN
[54] **DYNAMIC TRAINING DEVICE**
[54] **DISPOSITIF D'ENTRAINEMENT DYNAMIQUE**
[72] WECK, DAVID S., US
[72] SHANNON, MARTY, US
[71] BOSU FITNESS, LLC, US
[22] 2022-04-22
[41] 2022-10-28
[30] US (17/243,014) 2021-04-28

[21] **3,157,070**
[13] A1
[51] **Int.Cl. F16B 21/18 (2006.01) F01D 25/00 (2006.01) F02C 7/00 (2006.01) F02C 7/28 (2006.01)**
[25] EN
[54] **INTERNAL RETAINING RING FOR A ROTATING ASSEMBLY IN A GAS TURBINE ENGINE**
[54] **BAGUE DE RETENUE INTERNE POUR UN ASSEMBLAGE ROTATIF DANS UNE TURBINE A GAZ**
[72] RAK, PAWEL, PL
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-04-22
[41] 2022-10-29
[30] US (17/243,782) 2021-04-29

[21] **3,157,081**
[13] A1
[25] EN
[54] **SYSTEM AND METHOD FOR ARBITRARY OPTICAL WAVEFORM GENERATION**
[54] **SYSTEME ET METHODE POUR LA GENERATION D'UNE FORME D'ONDE OPTIQUE ARBITRAIRE**
[72] FISCHER, BENNET, CA
[72] CHEMNITZ, MARIO, CA
[72] MACLELLAN, BENJAMIN, CA
[72] ROZTOCKI, PIOTR, CA
[72] AZANA, JOSE, CA
[72] JESTIN, YOANN, CA
[72] MORANDOTTI, ROBERTO, CA
[71] INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, CA
[22] 2022-04-21
[41] 2022-10-27
[30] US (63/201,378) 2021-04-27

[21] **3,157,172**
[13] A1
[51] **Int.Cl. B25F 5/00 (2006.01)**
[25] EN
[54] **BATTERY TEMPERATURE BASED TOOL POWER REDUCTION**
[54] **REDUCTION DE PUISSANCE D'OUTIL FONDEE SUR LA TEMPERATURE DE BATTERIE**
[72] FELDKAMP, JONATHAN R., US
[72] KONDRO, GRZEGORZ, US
[72] HINES, COLIN W., US
[72] TANG, MATHEW, US
[72] MIKA, NIKOLAS F., US
[71] TECHTRONIC CORDLESS GP, US
[22] 2022-04-25
[41] 2022-10-27
[30] US (63/180,409) 2021-04-27

[21] **3,157,215**
[13] A1
[51] **Int.Cl. A62B 7/08 (2006.01) A61M 16/00 (2006.01) A62B 7/00 (2006.01) A62B 21/00 (2006.01) A62B 25/00 (2006.01)**
[25] EN
[54] **ARRANGEMENT INCLUDING RESPIRATOR AND BAG WITH MOISTURE INDICATOR AND PROCESS FOR MANUFACTURING THE ARRANGEMENT**
[54] **AGENCEMENT COMPRENANT UN RESPIRATEUR ET UN SAC POSSEDANT UN INDICATEUR D'HUMIDITE, ET PROCEDE DE FABRICATION DE L'AGENCEMENT**
[72] BAUER, DIETMAR, DE
[72] RADEMACHER, TIM, DE
[71] DRAGER SAFETY AG & CO. KGAA, DE
[22] 2022-04-25
[41] 2022-10-28
[30] DE (102021110870.5) 2021-04-28

[21] **3,157,219**
[13] A1
[51] **Int.Cl. G06F 9/46 (2006.01) G06F 11/30 (2006.01)**
[25] EN
[54] **INTERPROCESS COMMUNICATION FOR ASYNCHRONOUS TASKS**
[54] **COMMUNICATION INTERPROCESSUS POUR LES TACHES ASYNCHRONES**
[72] BARTRAM, CHRISTIAN, US
[72] CASON, CONNOR, US
[72] WHITE, YVETTE, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2022-04-25
[41] 2022-10-27
[30] US (17/241284) 2021-04-27

[21] **3,157,287**
[13] A1
[51] **Int.Cl. E21B 47/18 (2012.01) H04B 17/309 (2015.01)**
[25] EN
[54] **AUTOMATED CONFIGURATION OF TELEMETRY TRANSMISSION**
[54] **CONFIGURATION AUTOMATISEE D'UNE TRANSMISSION DE TELEMESURE**
[72] SUN, LIANG, US
[72] ANNENKOV, PAVEL, US
[72] TENNET, ROBERT, US
[72] GELMAN, ANDRIY, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[22] 2022-04-26
[41] 2022-10-26
[30] US (63/179610) 2021-04-26

[21] **3,157,426**
[13] A1
[51] **Int.Cl. A47K 13/02 (2006.01) B29C 70/58 (2006.01)**
[25] EN
[54] **TOILET SEAT ASSEMBLY**
[54] **ASSEMBLAGE DE SIEGE DE TOILETTE**
[72] WITTICH, JURI, DE
[71] DURAVIT AKTIENGESELLSCHAFT, DE
[22] 2022-04-26
[41] 2022-10-29
[30] DE (102021110977.9) 2021-04-29

[21] **3,157,562**
[13] A1
[51] **Int.Cl. H04W 52/04 (2009.01) H04W 52/08 (2009.01) H04W 52/10 (2009.01) H04W 52/24 (2009.01) H04W 74/08 (2009.01)**
[25] EN
[54] **TRANSMISSION POWER CONTROL VIA SERVING AND NON-SERVING CELLS**
[54] **COMMANDE DE PUISSANCE D'EMISSION AU MOYEN DE CELLULES DE SERVICE ET NON DE SERVICE**
[72] CIRIK, ALI CAGATAY, US
[72] YI, YUNJUNG, US
[72] DINAN, ESMAEL HEJAZI, US
[72] ZHOU, HUA, US
[72] PARK, JONGHYUN, US
[72] JEON, HYOUNGSUK, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2022-04-26
[41] 2022-10-26
[30] US (63/179,803) 2021-04-26
[30] US (63/180,894) 2021-04-28

[21] **3,157,564**
[13] A1
[51] **Int.Cl. H04W 72/04 (2009.01) H04W 74/08 (2009.01)**
[25] EN
[54] **ANTENNA PANEL UPDATE PROCEDURES**
[54] **PROCEDURES DE MISE A JOUR DE PANNEAUX D'ANTENNES**
[72] CIRIK, ALI CAGATAY, US
[72] YI, YUNJUNG, US
[72] DINAN, ESMAEL HEJAZI, US
[72] ZHOU, HUA, US
[72] PARK, JONGHYUN, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2022-04-26
[41] 2022-10-26
[30] US (63/179,803) 2021-04-26
[30] US (63/180,894) 2021-04-28

[21] **3,157,704**
[13] A1
[51] **Int.Cl. A61L 9/12 (2006.01) A61L 9/04 (2006.01)**
[25] EN
[54] **FRAGRANCE DIFFUSER**
[54] **DIFFUSEUR DE PARFUM**
[72] SHAVE, ROBERT, EARLE, US
[72] MCGLYNN, ALLISON, RACHEL, US
[72] DODSON, HERBERT, SAMUEL, US
[71] THE YANKEE CANDLE COMPANY, INC., US
[22] 2022-04-28
[41] 2022-10-29
[30] US (63/181,432) 2021-04-29

[21] **3,157,713**
[13] A1
[51] **Int.Cl. G06F 16/95 (2019.01) G06F 9/44 (2018.01)**
[25] EN
[54] **WEB TASK AUTOMATION**
[54] **AUTOMATISATION DE TACHE WEB**
[72] WALIA, KARAN, CA
[72] MAMONOV, ANTON, CA
[72] WALIA, SOBI, CA
[71] YAAR INC., CA
[22] 2022-04-28
[41] 2022-10-29
[30] US (17/244,457) 2021-04-29

[21] **3,157,721**
[13] A1
[51] **Int.Cl. H04L 67/51 (2022.01)**
[25] EN
[54] **WEB TASK AUTOMATION WITH VECTORIZATION**
[54] **AUTOMATISATION DE TACHE WEB PAR VECTORISATION**
[72] WALIA, KARAN, CA
[72] MAMONOV, ANTON, CA
[72] WALIA, SOBI, CA
[71] YAAR INC., CA
[22] 2022-04-28
[41] 2022-10-29
[30] US (17/244,558) 2021-04-29

[21] **3,157,739**
[13] A1
[51] **Int.Cl. H04L 61/45 (2022.01) H04L 61/4511 (2022.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR ACCESSING CONTENT**
[54] **METHODES ET SYSTEMES POUR ACCEDER A DU CONTENU**
[72] HELFINSTINE, CHARLES, US
[72] LEE, YIU, US
[72] JACOB, THOMAS MODAYIL, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2022-04-28
[41] 2022-10-29
[30] US (17/244,472) 2021-04-29

---

[21] **3,157,866**
[13] A1
[51] **Int.Cl. G03B 17/55 (2021.01) G06T 7/90 (2017.01) A61G 12/00 (2006.01) G06T 7/00 (2017.01) A61J 7/00 (2006.01) G08B 21/00 (2006.01)**
[25] EN
[54] **SURVEILLANCE CAMERA**
[54] **CAMERA DE SURVEILLANCE**
[72] HOARD, DAVID, US
[72] YUSUFI, MUSTAFA, US
[72] GREUEL, BENJAMIN, US
[72] PADILLA, MARIANO, US
[71] CAREFUSION 303, INC., US
[22] 2022-04-29
[41] 2022-10-29
[30] US (63/181839) 2021-04-29

---

[21] **3,157,893**
[13] A1
[51] **Int.Cl. G06V 40/10 (2022.01) A61J 7/00 (2006.01)**
[25] EN
[54] **SELF-ADJUSTING BIOMETRIC SENSOR**
[54] **CAPTEUR BIOMETRIQUE A REGLAGE AUTOMATIQUE**
[72] HOARD, DAVID, US
[72] BECKER, MICHAEL, US
[72] NEGATU, MATIAS, US
[72] GREUEL, BENJAMIN, US
[72] PADILLA, MARIANO, US
[71] CAREFUSION 303, INC., US
[22] 2022-04-29
[41] 2022-10-29
[30] US (63/181,836) 2021-04-29

---

[21] **3,164,684**
[13] A1
[51] **Int.Cl. G03B 17/00 (2021.01) B60R 1/22 (2022.01) B60R 11/04 (2006.01) G03B 17/55 (2021.01) H04N 5/232 (2006.01) H04N 5/247 (2006.01) H04N 7/18 (2006.01)**
[25] EN
[54] **CAMERA AND VEHICLE**
[54] **CAMERA ET VEHICULE**
[72] MURAMATSU, FUJIO, JP
[71] S&R PROJECT LLC, JP
[22] 2022-07-08
[41] 2022-10-26
[30] JP (2021-203907) 2021-12-16

---

[21] **3,169,469**
[13] A1
[51] **Int.Cl. G06F 16/245 (2019.01) G06F 21/44 (2013.01) G06F 16/25 (2019.01) G06F 9/46 (2006.01)**
[25] EN
[54] **STRUCTURED QUERY LANGUAGE INTERFACE FOR TABULAR ABSTRACTION OF STRUCTURED AND UNSTRUCTURED DATA**
[54] **INTERFACE DE LANGAGE RELATIONNEL SQL POUR L'ABSTRACTION TABULAIRE DE DONNEES STRUCTUREES ET NON STRUCTUREES**
[72] VANDERPLOEG, ATTILA, CA
[72] MANDRYCHENKO, VLAD, CA
[71] GARNER DISTRIBUTED WORKFLOW INC., CA
[22] 2022-08-04
[41] 2022-10-26
[30] US (17/672,231) 2022-02-15

PCT Applications Entering the National Phase

Demandes PCT entrant en phase nationale

[21] **3,156,264**
[13] A1
[51] **Int.Cl. A61K 39/215 (2006.01) A61K 35/76 (2015.01) A61P 31/14 (2006.01) A61P 37/04 (2006.01) C07K 14/075 (2006.01) C07K 14/165 (2006.01) C12N 15/33 (2006.01) C12N 15/50 (2006.01) C12N 15/861 (2006.01)**
[25] EN
[54] **UTILIZATION OF AN AGENT FOR INDUCTION OF SPECIFIC IMMUNITY AGAINST SEVERE ACUTE RESPIRATORY SYNDROME VIRUS SARS-COV-2 IN CHILDREN**
[54] **UTILISATION DE L'AGENT POUR L'INDUCTION DE L'IMMUNITE SPECIFIQUE CONTRE LE VIRUS DU SYNDROME RESPIRATOIRE AIGU SEVERE (SRAS-COV-2) CHEZ LES ENFANTS**
[72] ZUBKOVA, OLGA VADIMOVNA, RU
[72] OZHAROVSKAIA, TATIANA ANDREEVNA, RU
[72] DOLZHIKOVA, INNA VADIMOVNA, RU
[72] POPOVA, OLGA, RU
[72] SHCHEBLIAKOV, DMITRII VIKTOROVICH, RU
[72] GROUSOVA, DARIA MIKHAILOVNA, RU
[72] DZHARULLAEVA, ALINA SHAHMIROVNA, RU
[72] TUKHVATULIN, AMIR ILDAROVICH, RU
[72] TUKHVATULIN, NATALIA MIKHAILOVNA, RU
[72] SHCHERBININ, DMITRII NIKOLAEVICH, RU
[72] ESMAGAMBETOV, ILIAS BULATOVICH, RU
[72] TOKARSKAYA, ELIZAVETA ALEXANDROVNA, RU
[72] BOTIKOV, ANDREI GENNADEVICH, RU
[72] EROKHOVA, ALINA SERGEEVNA, RU
[72] IZHAEVA, FATIMA MAGOMEDOVNA, RU
[72] NIKITENKO, NATALYA ANATOLEVNA, RU
[72] LUBENETS, NADEZHDA LEONIDOVNA, RU
[72] SEMIKHIN, ALEKSANDR SERGEEVICH, RU
[72] NARODITSKY, BORIS SAVELIEVICH, RU
[72] LOGUNOV, DENIS YURYEVICH, RU
[72] GINTSBURG, ALEKSANDR LEONIDOVICH, RU
[72] BORISEVICH, SERGEY VLADIMIROVICH, RU
[72] CHERNETSOV, VLADIMIR ALEKSANDROVICH, RU
[72] KRIUKOV, EVGENII VLADIMIROVICH, RU
[72] BABIRA, VLADIMIR FEDOROVICH, RU
[72] KUTAEV, DMITRII ANATOLEVICH, RU
[72] LOGINOVA, SVETLANA IAKOVLEVNA, RU
[71] FEDERAL STATE BUDGETARY INSTITUTION "NATIONAL RESEARCH CENTRE FOR EPIDEMIOLOGY AND MICROBIOLOGY NAMED AFTER THE HONORARY ACADEMICIAN N.F. GAMALEYA" OF THE MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION, RU
[85] 2022-04-06
[86] 2022-02-18 (PCT/RU2022/000047)
[87] (3156264)
[30] RU (2021134724) 2021-11-26

---

[21] **3,159,405**
[13] A1
[51] **Int.Cl. A61K 31/352 (2006.01) A61K 31/05 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **ANTIBACTERIAL TREATMENT USING A CANNABINOID AND AN ACTIVE AGENT**
[54] **TRAITEMENT ANTIBACTERIEN UTILISANT UN CANNABINOIDE ET UN AGENT ACTIF**
[72] CALLAHAN, MATTHEW, US
[72] THURN, MICHAEL, AU
[71] BOTANIX PHARMACEUTICALS LIMITED, AU
[85] 2022-05-25
[86] 2020-11-27 (PCT/AU2020/051283)
[87] (WO2021/102515)
[30] AU (2019904529) 2019-11-29
[30] AU (2020903438) 2020-09-24

---

[21] **3,160,342**
[13] A1
[51] **Int.Cl. A23K 40/30 (2016.01) A23K 50/10 (2016.01)**
[25] EN
[54] **A PROCESS FOR IMPROVING PROTEIN DIGESTION OF ANIMAL FEEDS AND A COMPOSITION THEREOF**
[54] **PROCEDE POUR AMELIORER LA DIGESTION DE PROTEINES DE LA NOURRITURE POUR ANIMAUX ET COMPOSITION CONNEXE**
[72] DANESHFOZOUN, HAMED, IR
[72] AKHTAR, HOSSEIN, IR
[71] SABZ BONYAN, ARTIN, IR
[85] 2022-05-25
[86] 2022-02-06 (PCT/IB2022/051017)
[87] (3160342)

---

[21] **3,160,712**
[13] A1
[51] **Int.Cl. G06T 5/00 (2006.01) G06V 30/10 (2022.01) G06N 3/08 (2006.01) G06T 1/40 (2006.01) G06T 7/00 (2017.01)**
[25] EN
[54] **MACHINE LEARNING PIPELINE FOR DOCUMENT IMAGE QUALITY DETECTION AND CORRECTION**
[54] **PIPELINE D'APPRENTISSAGE AUTOMATIQUE POUR LA DETECTION ET LA CORRECTION DE LA QUALITE D'IMAGE DOCUMENTAIRE**
[72] JONNALAGEDDA, SAISRI PADMAJA, US
[72] XIAO, XIAO, US
[71] INTUIT INC., US
[85] 2022-05-26
[86] 2022-03-24 (PCT/US2022/021702)
[87] (3160712)
[30] US (17/243,527) 2021-04-28

[21] **3,161,088**
[13] A1
[51] **Int.Cl. H04N 7/15 (2006.01) G09B 9/08 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PROVIDING REMOTE VISIBILITY INTO A~SIMULATION ENVIRONMENT**
[54] **PROCEDE ET SYSTEME PERMETTANT D'OFFRIR UNE VISIBILITE A DISTANCE DANS UNENVIRONNEMENT DE SIMULATION**
[72] SOODEEN, MARK, CA
[72] LAGACE, MICHEL, CA
[72] YE, HEBING, CA
[72] MORISSET, SEBASTIEN, CA
[72] DESAULNIERS, PASCAL, CA
[72] GIANNIAS, NICK, CA
[72] MIRZAKHANI, BABAK, CA
[72] CHRISTIANSEN, GORDON, CA
[72] GRANGER, JULIEN, CA
[72] DAIGLE, PIERRE, CA
[72] VINCENT, PIERRE-LUC, CA
[71] CAE INC., CA
[85] 2022-06-07
[86] 2022-01-26 (PCT/IB2022/050689)
[87] (3161088)
[30] US (63/141,787) 2021-01-26

[21] **3,164,901**
[13] A1
[51] **Int.Cl. A23L 29/231 (2016.01) A23L 29/238 (2016.01)**
[25] EN
[54] **STARCH FILM-FORMING COMPOSITIONS AND METHODS OF THEIR USE FOR PREPARING CAPSULE SHELLS**
[54] **COMPOSITION DE FORMATION DE FILM D'AMIDON ET PROCEDE DE PREPARATION D'ENVELOPPE DE CAPSULE**
[72] LI, XUFA, CN
[72] CHEN, QIONG, CN
[72] YANG, XUTENG, CN
[72] CHEN, JIEWEI, CN
[71] SIRIO PHARMA CO., LTD., CN
[85] 2022-07-14
[86] 2021-12-28 (PCT/CN2021/142077)
[87] (WO2022/143667)
[30] CN (202011619863.9) 2020-12-31

[21] **3,165,206**
[13] A1
[51] **Int.Cl. E21B 43/26 (2006.01) E21B 43/27 (2006.01)**
[25] EN
[54] **HYDRAULIC FRACTURING SPREAD AND MECHANISMS**
[54] **ETALEMENT ET MECANISMES DE FRACTURATION HYDRAULIQUE**
[72] ZITTING, DANIEL K., US
[71] ZITTING, DANIEL K., US
[85] 2022-07-18
[86] 2021-01-19 (PCT/US2021/014004)
[87] (WO2021/146726)
[30] US (62/962,007) 2020-01-16

[21] **3,165,519**
[13] A1
[51] **Int.Cl. A61K 9/70 (2006.01) A61L 15/16 (2006.01) A61L 15/28 (2006.01) A61L 15/42 (2006.01) A61L 15/44 (2006.01)**
[25] EN
[54] **DRUG DELIVERY DEVICE**
[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**
[72] SIDERIS, ANDERS WILLIAM JAMES, AU
[72] THOMSON, KYLE ANDREW, AU
[72] HAVAS, THOMAS ERNEST, AU
[71] SIDERIS, ANDERS WILLIAM JAMES, AU
[71] THOMSON, KYLE ANDREW, AU
[71] HAVAS, THOMAS ERNEST, AU
[85] 2022-07-20
[86] 2021-01-29 (PCT/AU2021/050059)
[87] (WO2021/151156)
[30] AU (2020900258) 2020-01-31

[21] **3,165,521**
[13] A1
[51] **Int.Cl. C22B 3/14 (2006.01) C22B 3/46 (2006.01) C25C 1/16 (2006.01)**
[25] EN
[54] **METHOD FOR RECOVERING METAL ZINC FROM SOLID METALLURGICAL WASTES**
[54] **PROCEDE DE RECUPERATION DE ZINC METALLIQUE A PARTIR DE DECHETS METALLURGIQUES SOLIDES**
[72] MACCAGNI, MASSIMO GIUSEPPE, IT
[72] GUERRINI, EDOARDO, IT
[72] GRASSI, ANDREA, IT
[71] ENGITEC TECHNOLOGIES S.P.A., IT
[85] 2022-07-20
[86] 2021-02-10 (PCT/IB2021/051062)
[87] (WO2021/161178)
[30] IT (102020000002515) 2020-02-10

[21] **3,165,530**
[13] A1
[51] **Int.Cl. E02F 9/08 (2006.01) E02F 9/22 (2006.01)**
[25] EN
[54] **REDUNDANT STEERING SYSTEM AND MACHINES AND METHODS THEREOF**
[54] **SYSTEME DE DIRECTION REDONDANT ET MACHINES ET PROCEDES ASSOCIES**
[72] MATE, EDWARD WILLIAM, US
[71] CATERPILLAR INC., US
[85] 2022-07-20
[86] 2021-02-11 (PCT/US2021/017536)
[87] (WO2021/163243)
[30] US (16/788,998) 2020-02-12

[21] **3,165,532**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/04 (2006.01)**
[25] EN
[54] **NOVEL LILRB2 ANTIBODIES AND USES THEREOF**
[54] **NOUVEAUX ANTICORPS ANTI-LILRB2 ET LEURS UTILISATIONS**
[72] AN, ZHIQIANG, US
[72] ZHANG, NINGYAN, US
[72] KU, ZHIQIANG, US
[72] ZHANG, CHENGCHENG, US
[72] LIU, XIAOYE, US
[72] CHEN, HEYU, US
[72] XIE, JINGJING, US
[72] COSTA, MARIA JOSE, US
[72] SONG, AN, US
[72] LIAO, X. CHARLENE, US
[71] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[71] IMMUNE-ONC THERAPEUTICS, INC., US
[85] 2022-07-20
[86] 2021-01-28 (PCT/US2021/015362)
[87] (WO2021/158413)
[30] US (62/970,496) 2020-02-05

[21] **3,165,533**
[13] A1
[51] **Int.Cl. G06N 3/04 (2006.01) G06F 16/58 (2019.01) G06N 20/00 (2019.01) G06N 3/02 (2006.01)**
[25] EN
[54] **DETERMINING VISUALLY SIMILAR PRODUCTS**
[54] **DETERMINATION DE PRODUITS VISUELLEMENT SIMILAIRES**
[72] AFSHAR, ESTELLE, US
[72] HAGEN, MATTHEW, US
[72] QU, HUIMING, US
[71] HOME DEPOT INTERNATIONAL, INC., US
[85] 2022-07-20
[86] 2021-01-22 (PCT/US2021/014688)
[87] (WO2021/150939)
[30] US (16/749,629) 2020-01-22

[21] **3,165,534**
[13] A1
[51] **Int.Cl. C07C 309/14 (2006.01) C11D 1/28 (2006.01)**
[25] EN
[54] **AMINO ACID SURFACTANTS**
[54] **TENSIOACTIFS D'ACIDES AMINES**
[72] ASIRVATHAM, EDWARD, US
[72] HONCIUC, ANDREI, US
[72] MIHALI, VOICHITA, US
[71] ADVANSIX RESINS & CHEMICALS LLC, US
[85] 2022-07-20
[86] 2021-01-21 (PCT/US2021/014447)
[87] (WO2021/154585)
[30] US (62/967,177) 2020-01-29

[21] **3,165,537**
[13] A1
[51] **Int.Cl. A23K 10/30 (2016.01) A23K 20/158 (2016.01) A23K 20/163 (2016.01) A23K 40/25 (2016.01) A23K 50/42 (2016.01)**
[25] EN
[54] **EXPANDED DRY PRODUCT FOR IMPROVING THE DENTAL HYGIENE OF A PET**
[54] **PRODUIT SEC EXPANSE POUR AMELIORER L'HYGIENE DENTAIRE D'UN ANIMAL DE COMPAGNIE**
[72] TRASSY, LAURA, FR
[72] BRECIN, KARINE, FR
[71] MARS, INCORPORATED, US
[85] 2022-07-20
[86] 2021-02-10 (PCT/US2021/070137)
[87] (WO2021/163721)
[30] EP (20305127.1) 2020-02-10

[21] **3,165,541**
[13] A1
[51] **Int.Cl. C07C 229/08 (2006.01) C11D 1/10 (2006.01)**
[25] EN
[54] **AMINO ACID SURFACTANTS**
[54] **TENSIOACTIFS D'ACIDES AMINES**
[72] ASIRVATHAM, EDWARD, US
[72] HONCIUC, ANDREI, US
[72] MIHALI, VOICHITA, US
[71] ADVANSIX RESINS & CHEMICALS LLC, US
[85] 2022-07-20
[86] 2021-01-21 (PCT/US2021/014457)
[87] (WO2021/154587)
[30] US (62/967,179) 2020-01-29

[21] **3,165,543**
[13] A1
[51] **Int.Cl. G01R 31/08 (2020.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETECTION, LOCATION AND CHARACTERIZATION OF SIGNAL SOURCES IN ELECTRICAL INFRASTRUCTURE USING DISTRIBUTED SENSORS**
[54] **PROCEDES ET SYSTEMES DE DETECTION, DE LOCALISATION ET DE CARACTERISATION DE SOURCES DE SIGNAUX DANS UNE INFRASTRUCTURE ELECTRIQUE A L'AIDE DE CAPTEURS REPARTIS**
[72] WONG, KHOI LOON, AU
[72] MARXSEN, ANTHONY, AU
[72] LIANG, MU, AU
[71] DX TECH PTY LTD, AU
[85] 2022-07-20
[86] 2021-02-05 (PCT/IB2021/050963)
[87] (WO2021/156821)
[30] US (62/971,296) 2020-02-07

[21] **3,165,545**
[13] A1
[51] **Int.Cl. A61M 5/14 (2006.01) A61M 1/36 (2006.01) A61M 5/168 (2006.01) G01F 1/11 (2006.01) G01F 1/66 (2022.01)**
[25] EN
[54] **FLOW SENSOR SYSTEM**
[54] **SYSTEME DE CAPTEUR D'ECOULEMENT**
[72] PICOT, JOHN, US
[72] ZHU, HONG, US
[72] KOLB, MATTHEW LEE, US
[72] VERMA, KAUSHAL, US
[72] ELLERBUSCH, GARY, US
[72] PUPLAMPU, ADINOR, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2022-07-20
[86] 2021-01-27 (PCT/US2021/015181)
[87] (WO2021/154782)
[30] US (62/966,270) 2020-01-27

[21] **3,165,549**
[13] A1
[51] **Int.Cl. H04M 3/523 (2006.01)**
[25] EN
[54] **TECHNOLOGIES FOR AUTOMATED GENERATION OF CONTACT CENTER SYSTEM EMBEDDINGS**
[54] **TECHNOLOGIES POUR LA GENERATION AUTOMATISEE D'INTEGRATIONS DE SYSTEME DE CENTRE DE CONTACT**
[72] WYSS, FELIX IMMANUEL, US
[72] SUNDARAM, RAMASUBRAMANIAN, IN
[72] GANAPATHIRAJU, ARAVIND, IN
[71] GREENEDEN U.S. HOLDINGS II, LLC, US
[85] 2022-07-20
[86] 2021-10-11 (PCT/US2021/054405)
[87] (WO2022/146526)
[30] US (17/139,033) 2020-12-31

[21] **3,165,551**
[13] A1
[51] **Int.Cl. E21B 33/12 (2006.01) E21B 23/00 (2006.01) E21B 34/14 (2006.01)**
[25] EN
[54] **TESTABLE INDEXING PLUG**
[54] **BOUCHON D'INDEXAGE TESTABLE**
[72] WARLICK, GEOFFREY, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2022-07-20
[86] 2021-01-26 (PCT/US2021/015001)
[87] (WO2021/154679)
[30] US (16/773,020) 2020-01-27

[21] **3,165,552**
[13] A1
[51] **Int.Cl. C08G 18/32 (2006.01) C08G 18/08 (2006.01) C08G 18/40 (2006.01) C08G 18/42 (2006.01) C08G 18/48 (2006.01) C08G 18/66 (2006.01) C08G 18/76 (2006.01)**
[25] EN
[54] **SUSTAINABLE RESILIENT PLANK**
[54] **PLANCHE ELASTIQUE DURABLE AVEC NOYAU DE POLYURETHANE**
[72] SPEAS, ERIC SCOTT, US
[72] CARTER, ROBERT COREY, US
[72] MUSE, PERRY LAMAR, US
[72] ARNOLD, ERIK CHRISTOPHER, US
[71] TOWER IPCO COMPANY LIMITED, IE
[85] 2022-07-20
[86] 2021-01-22 (PCT/IB2021/050516)
[87] (WO2021/149014)
[30] US (62/965,389) 2020-01-24

[21] **3,165,554**
[13] A1
[51] **Int.Cl. A01H 5/10 (2018.01) A01H 6/54 (2018.01) C12N 9/02 (2006.01) C12N 9/16 (2006.01)**
[25] EN
[54] **INCREASED OF SATURATED FAT IN SOYBEAN**
[54] **AUGMENTATION DES GRAISSES SATUREES DANS DU SOJA**
[72] SHAN, QIWEI, US
[72] DEMOREST, ZACHARY, US
[72] PRESNAIL, JAMES, US
[71] CALYXT, INC., US
[85] 2022-07-20
[86] 2021-02-01 (PCT/US2021/016091)
[87] (WO2021/155376)
[30] US (62/968,630) 2020-01-31

[21] **3,165,555**
[13] A1
[51] **Int.Cl. H01L 39/02 (2006.01) H01L 39/12 (2006.01) H01L 39/22 (2006.01) H01L 39/24 (2006.01)**
[25] EN
[54] **ALL-SEMICONDUCTOR JOSEPHSON JUNCTION DEVICE FOR QUBIT APPLICATIONS**
[54] **DISPOSITIF DE JONCTION JOSEPHSON TOUT SEMI-CONDUCTEUR POUR DES APPLICATIONS DE BITS QUANTIQUES**
[72] HOLMES, STEVEN, US
[72] SADANA, DEVENDRA, US
[72] GLUSCHENKOV, OLEG, US
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-07-20
[86] 2021-02-16 (PCT/EP2021/053793)
[87] (WO2021/185521)
[30] US (16/825,535) 2020-03-20

[21] **3,165,557**
[13] A1
[51] **Int.Cl. G07D 7/20 (2016.01) B42D 25/30 (2014.01) G07D 7/12 (2016.01)**
[25] EN
[54] **MECHANICALLY STAMPED UNIQUE FEATURES FOR AUTHENTICITY AND PROVENANCE TRACKING**
[54] **CARACTERISTIQUES UNIQUES ESTAMPILLEES MECANIQUEMENT POUR TRACER L'AUTHENTICITE ET LA PROVENANCE**
[72] LOVCHIK, ROBERT DEAN, CH
[72] WEISS, JONAS, CH
[72] TEMIZ, YUKSEL, CH
[72] DELAMARCHE, EMMANUEL, CH
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-07-20
[86] 2021-02-15 (PCT/IB2021/051235)
[87] (WO2021/191698)
[30] US (16/826,601) 2020-03-23

[21] **3,165,560**
[13] A1
[51] **Int.Cl. G11C 11/54 (2006.01)**
[25] EN
[54] **OPTICAL SYNAPSES**
[54] **SYNAPSES OPTIQUES**
[72] ABEL, STEFAN, IL
[72] OFFREIN, BERT JAN, CH
[72] LA PORTA, ANTONIO, CH
[72] STARK, PASCAL, CH
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-07-20
[86] 2021-02-15 (PCT/IB2021/051229)
[87] (WO2021/191697)
[30] US (16/830,333) 2020-03-26

[21] **3,165,564**
[13] A1
[51] **Int.Cl. B61B 12/06 (2006.01) G08B 21/02 (2006.01)**
[25] EN
[54] **AERIAL ROPEWAY HAZARD SENSING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DETECTION DE DANGER POUR TELEPHERIQUE**
[72] MOORLAND, MATTHEW, US
[71] LEITNER-POMA OF AMERICA, INC., US
[85] 2022-07-20
[86] 2021-01-26 (PCT/US2021/014997)
[87] (WO2021/154677)
[30] US (62/966,301) 2020-01-27
[30] US (17/157,254) 2021-01-25

[21] **3,165,574**
[13] A1
[51] **Int.Cl. B65D 55/02 (2006.01) B65D 43/16 (2006.01) B65D 55/06 (2006.01)**
[25] EN
[54] **TAMPER EVIDENT CONTAINER**
[54] **RECIPIENT INVIOLABLE**
[72] GUIRGUIS, SAMEH, US
[71] GUIRGUIS, SAMEH, US
[85] 2022-07-21
[86] 2021-01-24 (PCT/US2021/014827)
[87] (WO2021/151049)
[30] US (16/752,109) 2020-01-24
[30] US (16/945,672) 2020-07-31

[21] **3,165,592**
[13] A1
[51] **Int.Cl. E04G 3/18 (2006.01) A47L 3/02 (2006.01) E04G 5/04 (2006.01) E04G 7/04 (2006.01)**
[25] EN
[54] **WALL-MOUNTABLE PERCH**
[54] **PERCHOIR POUVANT ETRE MONTE SUR UNE PAROI**
[72] BOYD, JOSEPH JOHN, US
[72] ALLIE, MICHAEL AZIZ, US
[71] AAA ROYAL CONSTRUCTION LLC, US
[85] 2022-07-21
[86] 2021-01-21 (PCT/US2021/014275)
[87] (WO2021/150654)
[30] US (62/963,626) 2020-01-21
[30] US (17/153,707) 2021-01-20

[21] **3,165,602**
[13] A1
[51] **Int.Cl. B65D 71/42 (2006.01)**
[25] EN
[54] **ARTICLE TOP ENGAGING DEVICE, ARTICLE CARRIER AND BLANK THERFOR**
[54] **DISPOSITIF DE MISE EN PRISE D'ARTICLE PAR LE DESSUS, SUPPORT D'ARTICLE ET DECOUPE ASSOCIEE**
[72] MERZEAU, JULIEN D., FR
[71] WESTROCK PACKAGING SYSTEMS, LLC, US
[85] 2022-07-21
[86] 2021-01-21 (PCT/US2021/014277)
[87] (WO2021/150655)
[30] US (62/964,467) 2020-01-22

[21] **3,165,671**
[13] A1
[51] **Int.Cl. F25J 3/00 (2006.01)**
[25] EN
[54] **METHOD FOR AN IMPROVED PARTIAL CONDENSATION CARBON MONOXIDE COLD BOX OPERATION**
[54] **PROCEDE POUR UN FONCTIONNEMENT AMELIORE DE COLONNE DE DISTILLATION DE MONOXYDE DE CARBONE A CONDENSATION PARTIELLE**
[72] SCHWARTZ, JOSEPH MICHAEL, US
[72] KALP, BRYAN S., US
[72] WARTA, ANDREW M., US
[72] SHAH, MINISH MAHENDRA, US
[71] PRAXAIR TECHNOLOGY, INC., US
[85] 2022-07-21
[86] 2020-10-30 (PCT/US2020/058172)
[87] (WO2021/162759)
[30] US (16/791,320) 2020-02-14

[21] **3,165,681**
[13] A1
[51] **Int.Cl. C12N 15/86 (2006.01)**
[25] EN
[54] **DNA AMPLIFICATION METHOD**
[54] **PROCEDE D'AMPLIFICATION D'ADN**
[72] CAWOOD, RYAN, GB
[72] SU, WEIHENG, GB
[71] OXFORD GENETICS LIMITED, GB
[71] OXFORD UNIVERSITY INNOVATION LIMITED, GB
[85] 2022-07-21
[86] 2021-02-03 (PCT/GB2021/050237)
[87] (WO2021/156611)
[30] GB (2001484.1) 2020-02-04

[21] **3,165,708**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/4745 (2006.01) A61P 5/46 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **TREATMENT OF ADRENOCORTICAL CARCINOMA WITH SELECTIVE GLUCOCORTICOID RECEPTOR MODULATORS (SGRMS) AND ANTIBODY CHECKPOINT INHIBITORS**
[54] **TRAITEMENT DE CARCINOME CORTICOSURRENALIEN A L'AIDE DE MODULATEURS SELECTIFS DU RECEPTEUR DES GLUCOCORTICOIDES (SGRM) ET D'INHIBITEURS DE POINT DE CONTROLE D'ANTICORPS**
[72] GREENSTEIN, ANDREW, US
[72] GRAUER, ANDREAS, US
[72] SHEPHERD, STACIE, US
[71] CORCEPT THERAPEUTICS INCORPORATED, US
[85] 2022-07-21
[86] 2021-01-26 (PCT/US2021/015124)
[87] (WO2021/154750)
[30] US (62/967,517) 2020-01-29
[30] US (63/040,941) 2020-06-18
[30] US (63/125,630) 2020-12-15

[21] **3,165,711**
[13] A1
[51] **Int.Cl. A61K 33/04 (2006.01) A61K 47/50 (2017.01) A61K 47/68 (2017.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMBINATION CONTAINING A DUOCARMYCIN DERIVATIVE-COMPRISING ANTIBODY-DRUG CONJUGATE AND THIOSULFATE**
[54] **COMBINAISON CONTENANT DU THIOSULFATE ET UN CONJUGUE ANTICORPS-MEDICAMENT COMPRENANT UN DERIVE DE DUOCARMYCINE**
[72] SCHELLENS, JOHANNES HENRICUS MATTHIAS, NL
[72] COUMANS, RUDY GERARDUS ELISABETH, NL
[71] BYONDIS B.V., NL
[85] 2022-07-21
[86] 2021-02-03 (PCT/EP2021/052509)
[87] (WO2021/156289)
[30] EP (20155842.6) 2020-02-06

[21] **3,165,742**
[13] A1
[51] **Int.Cl. B65G 17/10 (2006.01) B65G 47/46 (2006.01)**
[25] EN
[54] **CONVEYANCE ASSISTING APPARATUS, CONVEYANCE APPARATUS, AND PACKAGE SORTING APPARATUS**
[54] **APPAREIL D'AIDE AU TRANSPORT, DISPOSITIF DE TRANSPORT ET DISPOSITIF DE TRI DE COLIS**
[72] ASANUMA, REIYA, JP
[71] KABUSHIKI KAISHA TOSHIBA, JP
[71] TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION, JP
[85] 2022-07-22
[86] 2021-01-26 (PCT/JP2021/002663)
[87] (WO2021/153564)
[30] JP (2020-015800) 2020-01-31

[21] **3,165,743**
[13] A1
[51] **Int.Cl. G06F 8/34 (2018.01) G06F 8/41 (2018.01) G06F 8/30 (2018.01) G06F 8/36 (2018.01)**
[25] EN
[54] **EDITOR FOR GENERATING COMPUTATIONAL GRAPHS**
[54] **EDITEUR DE GENERATION DE GRAPHES DE CALCUL**
[72] SCHECHTER, IAN, US
[72] DICKIE, GARTH, US
[71] AB INITIO TECHNOLOGY LLC, US
[85] 2022-07-22
[86] 2020-04-30 (PCT/US2020/030612)
[87] (WO2021/154319)
[30] US (62/966,768) 2020-01-28

[21] **3,165,751**
[13] A1
[51] **Int.Cl. A23L 29/10 (2016.01) A23L 29/206 (2016.01) A23L 29/212 (2016.01)**
[25] EN
[54] **PLANT BASED READY TO CONSUME GEL PRODUCTS WITH NO ADDED SUGAR AND THEIR USE IN DELIVERY OF AGENTS**
[54] **PRODUITS GELIFIES PRETS A CONSOMMER A BASE DE PLANTES SANS SUCRE AJOUTE ET LEUR UTILISATION DANS L'ADMINISTRATION D'AGENTS**
[72] HYZKIHU, AMIT, IL
[71] TOP GUM INDUSTRIES LTD, IL
[85] 2022-07-22
[86] 2021-02-21 (PCT/IL2021/050200)
[87] (WO2021/165971)
[30] IL (272833) 2020-02-20
[30] US (63/034,430) 2020-06-04
[30] TR (2020/19378) 2020-12-01

[21] **3,165,760**
[13] A1
[51] **Int.Cl. H05B 45/3725 (2020.01) H02M 3/158 (2006.01)**
[25] EN
[54] **TUBULAR LED BALLAST BUCK-BOOST CONVERTER**
[54] **CONVERTISSEUR ABAISSEUR-ELEVATEUR DE BALLAST A DEL TUBULAIRE**
[72] TAKACS, LASZLO A., US
[72] TOMASOVICS, ATTILA, US
[72] DOWNIE, MATTHEW, US
[72] MCGREEVEY, JOHN, US
[71] ENERGY FOCUS, INC., US
[85] 2022-07-22
[86] 2021-02-04 (PCT/US2021/016548)
[87] (WO2021/158742)
[30] US (62/970,550) 2020-02-05

[21] **3,165,794**
[13] A1
[51] **Int.Cl. G05B 19/18 (2006.01)**
[25] EN
[54] **SMART SHELF SYSTEMS AND METHODS OF OPERATING THE SAME**
[54] **SYSTEMES D'ETAGERES INTELLIGENTES ET LEURS PROCEDES DE FONCTIONNEMENT**
[72] CONNOLLY, SEAN, US
[72] CALVARESE, RUSSELL, US
[72] BELLOWS, DAVID, US
[71] ZEBRA TECHNOLOGIES CORPORATION, US
[85] 2022-07-22
[86] 2021-02-25 (PCT/US2021/019530)
[87] (WO2021/178187)
[30] US (16/810,566) 2020-03-05

[21] **3,165,795**
[13] A1
[51] **Int.Cl. H04N 17/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CALIBRATING IMAGE CAPTURING MODULES**
[54] **SYSTEMES ET PROCEDES D'ETALONNAGE DE MODULES DE CAPTURE D'IMAGE**
[72] KRUEGER, DARRELL R., US
[72] SMITLEY, GARRETT, US
[71] BNSF RAILWAY COMPANY, US
[85] 2022-07-22
[86] 2021-02-25 (PCT/US2021/019503)
[87] (WO2021/183289)
[30] US (16/816,525) 2020-03-12

[21] **3,165,803**
[13] A1
[51] **Int.Cl. B60Q 1/02 (2006.01) B60Q 1/14 (2006.01) G05D 1/02 (2020.01)**
[25] EN
[54] **METHOD, SYSTEM AND APPARATUS FOR DATA CAPTURE ILLUMINATION CONTROL**
[54] **PROCEDE, SYSTEME ET APPAREIL DE COMMANDE D'ECLAIRAGE POUR CAPTURE DE DONNEES**
[72] TAJEDDIN, SADEGH, CA
[72] JAZAYERI, ALI, CA
[72] SAKHDARI, BIJAN, CA
[71] ZEBRA TECHNOLOGIES CORPORATION, US
[85] 2022-07-22
[86] 2021-03-30 (PCT/US2021/024805)
[87] (WO2021/202472)
[30] US (16/834,949) 2020-03-30

[21] **3,165,804**
[13] A1
[51] **Int.Cl. C07D 401/04 (2006.01) A61P 1/14 (2006.01)**
[25] EN
[54] **PREPARATION OF SEMICARBAZIDE-SENSITIVE AMINE OXIDASE INHIBITOR AND USE THEREOF**
[54] **PREPARATION D'UN INHIBITEUR DE L'AMINE OXYDASE SENSIBLE AU SEMICARBAZIDE ET SON UTILISATION**
[72] LIU, SHENGYANG, CN
[72] DENG, JIANWEN, CN
[72] FENG, ZHIYONG, CN
[72] JIANG, LEI, CN
[72] QIAO, ZHI, CN
[72] SHANG, KE, CN
[72] XIE, XIAOPING, CN
[72] XU, XUELI, CN
[72] XU, YUAN, CN
[72] ZHAO, HAIXIA, CN
[71] ENNOVABIO (ZHEJIANG) PHARMACEUTICALS CO., LTD., CN
[71] SHANGHAI ENNOVABIO PHARMACEUTICALS CO., LTD., CN
[85] 2022-07-22
[86] 2021-01-25 (PCT/CN2021/073649)
[87] (WO2021/148032)
[30] CN (202010076810.0) 2020-01-23

[21] **3,165,809**
[13] A1
[51] **Int.Cl. F02M 25/08 (2006.01)**
[25] EN
[54] **LOW EMISSION ADSORBENT AND CANISTER SYSTEM**
[54] **ADSORBANT D'EMISSIONS FAIBLES ET SYSTEME DE CARTOUCHE**
[72] CRONIN, STEPHAN CHARLES, US
[72] GARCIA, MARTA LEON, US
[72] HILTZIK, LAURENCE H., US
[72] MARRERO-ALFONSO, EYMA Y., US
[72] VERSEN, ERIK W., US
[72] WILLIAMS, ROGER S., US
[72] MILLER, JAMES R., US
[71] INGEVITY SOUTH CAROLINA, LLC, US
[85] 2022-07-22
[86] 2021-03-29 (PCT/US2021/024698)
[87] (WO2021/195631)
[30] US (63/001,164) 2020-03-27
[30] US (63/111,768) 2020-11-10

[21] **3,165,820**
[13] A1
[51] **Int.Cl. H04N 19/86 (2014.01) H04N 19/176 (2014.01)**
[25] EN
[54] **AN ENCODER, A DECODER AND CORRESPONDING METHODS FOR ADAPTIVE LOOP FILTERING**
[54] **CODEUR, DECODEUR ET PROCEDES CORRESPONDANTS POUR UN FILTRAGE DE BOUCLE ADAPTATIF**
[72] KOTRA, ANAND MEHER, DE
[72] ESENLIK, SEMIH, DE
[72] GAO, HAN, DE
[72] WANG, BIAO, DE
[72] ALSHINA, ELENA ALEXANDROVNA, DE
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2022-07-22
[86] 2021-01-22 (PCT/CN2021/073233)
[87] (WO2021/147981)
[30] EP (PCT/EP2020/051788) 2020-01-24

[21] **3,165,953**
[13] A1
[51] **Int.Cl. B65D 83/00 (2006.01)**
[25] EN
[54] **DRIPPING CONTAINER COVER**
[54] **COUVERCLE POUR RECIPIENT DE GOUTTE-A-GOUTTE**
[72] SUZUKI, TAKUMI, JP
[71] GC CORPORATION, JP
[85] 2022-07-25
[86] 2020-09-01 (PCT/JP2020/033020)
[87] (WO2021/171659)
[30] JP (2020-030123) 2020-02-26

[21] **3,165,955**
[13] A1
[51] **Int.Cl. A47B 88/969 (2017.01)**
[25] EN
[54] **APPARATUSES, SYSTEMS, AND METHODS FOR STORAGE AND DISPENSING OF ARTICLES**
[54] **APPAREILS, SYSTEMES ET PROCEDES POUR LE STOCKAGE ET LA DISTRIBUTION D'ARTICLES**
[72] JAYNES, ROBERT WARREN, US
[72] MCGREGOR, MICHAEL EDWARD, US
[71] OMNICELL, INC., US
[85] 2022-07-25
[86] 2021-02-02 (PCT/US2021/016229)
[87] (WO2021/194638)
[30] US (16/826,937) 2020-03-23

[21] **3,165,971**
[13] A1
[51] **Int.Cl. H01L 23/367 (2006.01)**
[25] EN
[54] **THERMAL INTERFACE MATERIAL STRUCTURES FOR DIRECTING HEAT IN A THREE-DIMENSIONAL SPACE**
[54] **STRUCTURES DE MATERIAU D'INTERFACE THERMIQUE POUR DIRIGER DE LA CHALEUR DANS UN ESPACE TRIDIMENSIONNEL**
[72] HOFFMEYER, MARK, US
[72] MARROQUIN, CHRISTOPHER, US
[72] CAMPBELL, ERIC, US
[72] CZAPLEWSKI-CAMPBELL, SARAH, US
[72] MANN, PHILLIP, US
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-07-25
[86] 2021-03-19 (PCT/IB2021/052311)
[87] (WO2021/209839)
[30] US (16/847,144) 2020-04-13

[21] **3,165,976**
[13] A1
[51] **Int.Cl. H05K 7/20 (2006.01)**
[25] EN
[54] **PIERCED THERMAL INTERFACE CONSTRUCTIONS**
[54] **CONSTRUCTIONS D'INTERFACES THERMIQUES PERFOREES**
[72] HOFFMEYER, MARK, US
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-07-25
[86] 2021-03-19 (PCT/IB2021/052313)
[87] (WO2021/209840)
[30] US (16/847,851) 2020-04-14

[21] **3,165,991**
[13] A1
[51] **Int.Cl. H01L 33/00 (2010.01)**
[25] EN
[54] **FABRICATION OF SEMICONDUCTOR STRUCTURES**
[54] **FABRICATION DE STRUCTURES A SEMI-CONDUCTEURS**
[72] TRIVINO, NOELIA VICO, CH
[72] MOSELUND, KIRSTEN EMILIE, CH
[72] SCHERRER, MARKUS, CH
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-07-25
[86] 2021-04-20 (PCT/IB2021/053243)
[87] (WO2021/224702)
[30] US (16/865,973) 2020-05-04

[21] **3,166,001**
[13] A1
[51] **Int.Cl. G06F 3/00 (2006.01) G06F 15/16 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ESTABLISHING AN INTERACTIVE COMMUNICATION SESSION**
[54] **SYSTEME ET PROCEDE D'ETABLISSEMENT DE SESSION DE COMMUNICATION INTERACTIVE**
[72] MOSSOBA, MICHAEL, US
[72] BENKREIRA, ABDELKADER M'HAMED, US
[72] EDWARDS, JOSHUA, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2022-07-25
[86] 2021-02-12 (PCT/US2021/017781)
[87] (WO2021/163426)
[30] US (16/791,216) 2020-02-14

[21] **3,166,056**
[13] A1
[51] **Int.Cl. G01N 23/04 (2018.01) B07C 5/346 (2006.01) B65G 15/22 (2006.01) G01N 23/10 (2018.01)**
[25] EN
[54] **CONVEYANCE APPARATUS AND RADIATION INSPECTION SYSTEM**
[54] **DISPOSITIF DE TRANSPORT ET SYSTEME D'INSPECTION DE RADIATIONS**
[72] MINAMINO, YUHI, JP
[71] KABUSHIKI KAISHA TOSHIBA, JP
[71] TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION, JP
[85] 2022-07-26
[86] 2020-12-10 (PCT/JP2020/046056)
[87] (WO2021/153026)
[30] JP (2020-010836) 2020-01-27
[30] JP (2020-103050) 2020-06-15

[21] **3,166,488**
[13] A1
[51] **Int.Cl. A41G 5/00 (2006.01)**
[25] EN
[54] **HAND-TIED HAIR WEFT**
[54] **TRAME DE CHEVEUX NOUEE A LA MAIN**
[72] SMITH, DAFINA, US
[71] COVET AND MANE LLC, US
[85] 2022-07-28
[86] 2020-09-04 (PCT/US2020/049543)
[87] (WO2021/154336)
[30] US (62/968,571) 2020-01-31
[30] US (16/888,670) 2020-05-30

[21] **3,166,558**
[13] A1
[51] **Int.Cl. G01C 11/02 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR MAINTAINING ACCURACY OF A PHOTOGRAMMETRY SYSTEM**
[54] **PROCEDE ET SYSTEME DE CONSERVATION DE PRECISION D'UN SYSTEME DE PHOTOGRAMMETRIE**
[72] VIALA, MARC, FR
[72] ST-PIERRE, ERIC, CA
[72] TRIFAN, LAURENTIU, FR
[71] CREAFORM INC., CA
[85] 2022-07-29
[86] 2021-03-26 (PCT/IB2021/052530)
[87] (3166558)
[30] US (63/000,395) 2020-03-26

[21] **3,166,588**
[13] A1
[51] **Int.Cl. A23J 1/00 (2006.01) A23J 3/14 (2006.01) A23L 2/66 (2006.01)**
[25] EN
[54] **PROCESS FOR ENHANCING SOLUBILITY OF PLANT PROTEIN COMPOSITIONS**
[54] **PROCEDE PERMETTANT D'AMELIORER LA SOLUBILITE DE COMPOSITIONS DE PROTEINE VEGETALE**
[72] HOMYAK, CELIA, US
[72] KRAEMER, STEPHANIE, US
[72] MULUGETA, DANIEL, US
[71] RIPPLE FOODS PBC, US
[85] 2022-07-29
[86] 2021-02-19 (PCT/US2021/018740)
[87] (WO2021/168221)
[30] US (62/979,553) 2020-02-21

[21] **3,166,596**
[13] A1
[51] **Int.Cl. A61K 31/404 (2006.01) A61K 31/437 (2006.01) A61K 31/443 (2006.01) A61K 31/4439 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL USE OF KETOAMIDE-BASED COMPOUND**
[54] **UTILISATION PHARMACEUTIQUE D'UN COMPOSE A BASE DE CETOAMIDE**
[72] LIU, HONG, CN
[72] LI, JIAN, CN
[72] PENG, JINGJING, CN
[72] XIE, XIONG, CN
[72] DAI, WENHAO, CN
[72] HU, SHULEI, CN
[72] LI, CHUNPU, CN
[72] ZHANG, LEIKE, CN
[72] JIN, ZHENMING, CN
[72] XU, YECHUN, CN
[72] XIAO, GENGFU, CN
[72] YANG, HAITAO, CN
[72] BAI, FANG, CN
[72] CHENG, XI, CN
[72] JIANG, HUALIANG, CN
[72] CHEN, KAIXIAN, CN
[71] SHANGHAI INSTITUTE OF MATERIA MEDICA, CHINESE ACADEMY OF SCIENCES, CN
[85] 2022-07-29
[86] 2021-01-28 (PCT/CN2021/074228)
[87] (WO2021/151387)
[30] CN (202010077723.7) 2020-01-31

[21] **3,167,458**
[13] A1
[51] **Int.Cl. C10B 53/00 (2006.01) C10B 53/02 (2006.01) C10J 3/20 (2006.01)**
[25] EN
[54] **GRID-ENERGY FIRMING PROCESS**
[54] **PROCEDE DE CONSOLIDATION D'ENERGIE DE RESEAU**
[72] KRUGER, TIM, GB
[71] ORIGEN POWER LTD, GB
[85] 2022-08-09
[86] 2021-02-11 (PCT/GB2021/050313)
[87] (WO2021/161019)
[30] GB (2001961.8) 2020-02-13

[21] **3,167,488**
[13] A1
[51] **Int.Cl. A61F 9/007 (2006.01) A61M 27/00 (2006.01)**
[25] EN
[54] **SHUNTING SYSTEMS WITH ROTATION-BASED FLOW CONTROL ASSEMBLIES, AND ASSOCIATED SYSTEMS AND METHODS**
[54] **SYSTEMES DE DERIVATION AVEC ENSEMBLES DE REGULATION DE DEBIT PAR ROTATION, ET SYSTEMES ET METHODES ASSOCIES**
[72] SCHULTZ, ERIC, US
[72] CHANG, ROBERT, US
[72] SAUL, TOM, US
[72] LILLY, RICHARD, US
[72] DREWS, MICHAEL, US
[72] ARGENTO, CLAUDIO, US
[72] SAPOZHNIKOV, KATHERINE, US
[71] SHIFAMED HOLDINGS, LLC, US
[85] 2022-08-09
[86] 2021-02-12 (PCT/US2021/017962)
[87] (WO2021/163566)
[30] US (62/976,890) 2020-02-14
[30] US (62/981,411) 2020-02-25
[30] US (63/116,674) 2020-11-20
[30] US (63/140,543) 2021-01-22

[21] **3,167,493**
[13] A1
[51] **Int.Cl. A61K 39/215 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01) C07K 14/165 (2006.01)**
[25] EN
[54] **T CELL EPITOPES AND RELATED COMPOSITIONS USEFUL IN THE PREVENTION, DIAGNOSIS, AND TREATMENT OF COVID-19**
[54] **EPITOPES DE LYMPHOCYTES T ET COMPOSITIONS ASSOCIEES UTILES DANS LA PREVENTION, LE DIAGNOSTIC ET LE TRAITEMENT DE LA COVID-19**
[72] DE GROOT, ANNE, US
[72] MARTIN, WILLIAM D., US
[71] EPIVAX, INC., US
[85] 2022-08-09
[86] 2021-02-12 (PCT/US2021/017825)
[87] (WO2021/163456)
[30] US (62/976,715) 2020-02-14
[30] US (62/983,012) 2020-02-28
[30] US (62/991,790) 2020-03-19
[30] US (62/991,814) 2020-03-19
[30] US (63/001,632) 2020-03-30
[30] US (63/001,624) 2020-03-30
[30] US (63/004,729) 2020-04-03
[30] US (63/006,962) 2020-04-08
[30] US (63/065,129) 2020-08-13
[30] US (63/065,152) 2020-08-13
[30] US (63/065,163) 2020-08-13
[30] US (63/065,161) 2020-08-13
[30] US (63/065,135) 2020-08-13
[30] US (63/073,161) 2020-09-01
[30] US (63/073,156) 2020-09-01
[30] US (63/081,062) 2020-09-21
[30] US (63/081,055) 2020-09-21
[30] US (63/083,389) 2020-09-25
[30] US (63/092,229) 2020-10-15

[21] **3,167,494**
[13] A1
[51] **Int.Cl. D05B 1/08 (2006.01) D05B 1/24 (2006.01) D05B 85/06 (2006.01)**
[25] EN
[54] **SEWING MACHINE**
[54] **MACHINE A COUDRE**
[72] KALLENBACH, HARALD, DE
[72] BECKER, BERTHOLD, DE
[72] SAMSTAG, STEFAN, DE
[71] PFAFF INDUSTRIESYSTEME UND MASCHINEN GMBH, DE
[85] 2022-08-09
[86] 2021-02-12 (PCT/EP2021/053556)
[87] (WO2021/165163)
[30] DE (10 2020 202 270.4) 2020-02-21

[21] **3,167,496**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) A61K 39/215 (2006.01) A61P 31/14 (2006.01) C07K 14/005 (2006.01)**
[25] EN
[54] **REGULATORY T CELL EPITOPES AND DETOLERIZED SARS-COV-2 ANTIGENS**
[54] **EPITOPES DE LYMPHOCYTES T REGULATEURS ET ANTIGENES SARS-COV-2 DETOLERES**
[72] DE GROOT, ANNE, US
[72] MARTIN, WILLIAM D., US
[71] EPIVAX, INC., US
[85] 2022-08-09
[86] 2021-02-12 (PCT/US2021/017782)
[87] (WO2021/163427)
[30] US (62/976,715) 2020-02-14
[30] US (62/983,012) 2020-02-28
[30] US (62/991,790) 2020-03-19
[30] US (62/991,814) 2020-03-19
[30] US (63/001,632) 2020-03-30
[30] US (63/001,624) 2020-03-30
[30] US (63/004,729) 2020-04-03
[30] US (63/006,962) 2020-04-08
[30] US (63/065,135) 2020-08-13
[30] US (63/065,161) 2020-08-13
[30] US (63/065,152) 2020-08-13
[30] US (63/065,129) 2020-08-13
[30] US (63/065,163) 2020-08-13
[30] US (63/073,161) 2020-09-01
[30] US (63/073,156) 2020-09-01
[30] US (63/081,062) 2020-09-21
[30] US (63/081,055) 2020-09-21
[30] US (63/083,389) 2020-09-25
[30] US (63/092,229) 2020-10-15

[21] **3,167,497**
[13] A1
[51] **Int.Cl. G06Q 30/06 (2012.01) G06Q 20/14 (2012.01) G06Q 20/16 (2012.01) G06Q 40/04 (2012.01) G06Q 50/30 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVIDING GIFTING SERVICE BETWEEN COUNTRIES**
[54] **SYSTEME ET PROCEDE DE FOURNITURE DE SERVICE DE DON ENTRE PAYS**
[72] LEE, JI SOO, KR
[72] KIM, JONG HOON, KR
[71] SODACREW INC., KR
[85] 2022-08-09
[86] 2021-02-09 (PCT/KR2021/001712)
[87] (WO2021/162411)
[30] KR (10-2020-0017848) 2020-02-13
[30] KR (10-2021-0017731) 2021-02-08

[21] **3,167,498**
[13] A1
[51] **Int.Cl. A61K 39/215 (2006.01) C12N 5/0783 (2010.01) C07K 14/165 (2006.01) C07K 14/52 (2006.01)**
[25] EN
[54] **T CELL EPITOPE CLUSTERS AND RELATED COMPOSITIONS USEFUL IN THE PREVENTION, DIAGNOSIS, AND TREATMENT OF COVID-19**
[54] **GROUPES D'EPITOPES DE LYMPHOCYTES T ET COMPOSITIONS ASSOCIEES UTILES DANS LA PREVENTION, LE DIAGNOSTIC ET LE TRAITEMENT DE LA COVID-19**
[72] DE GROOT, ANNE, US
[72] MARTIN, WILLIAM D., US
[71] EPIVAX, INC., US
[85] 2022-08-09
[86] 2021-02-12 (PCT/US2021/017748)
[87] (WO2021/163398)
[30] US (62/976,715) 2020-02-14
[30] US (62/983,012) 2020-02-28
[30] US (62/991,790) 2020-03-19
[30] US (62/991,814) 2020-03-19
[30] US (63/001,632) 2020-03-30
[30] US (63/001,624) 2020-03-30
[30] US (63/004,729) 2020-04-03
[30] US (63/006,962) 2020-04-08
[30] US (63/065,129) 2020-08-13
[30] US (63/065,152) 2020-08-13
[30] US (63/065,135) 2020-08-13
[30] US (63/065,163) 2020-08-13
[30] US (63/065,161) 2020-08-13
[30] US (63/073,161) 2020-09-01
[30] US (63/073,156) 2020-09-01
[30] US (63/081,062) 2020-09-21
[30] US (63/081,055) 2020-09-21
[30] US (63/083,389) 2020-09-25
[30] US (63/092,229) 2020-10-15

[21] **3,167,501**
[13] A1
[51] **Int.Cl. A24B 3/12 (2006.01) A24B 3/18 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING TOBACCO MATERIAL, APPARATUS FOR TREATING TOBACCO MATERIAL, TREATED TOBACCO MATERIAL AND USES THEREOF**
[54] **PROCEDES DE TRAITEMENT DE MATIERE DE TABAC, APPAREIL DE TRAITEMENT DE MATIERE DE TABAC, MATIERE DE TABAC TRAITEE ET UTILISATIONS ASSOCIEES**
[72] FRANKE, DIETMAR, DE
[72] KNOTHE, JOSEF, DE
[72] PLUECKHAHN, FRANK, DE
[72] LINK, MATTHIAS, DE
[71] BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED, GB
[85] 2022-08-09
[86] 2021-02-25 (PCT/GB2021/050481)
[87] (WO2021/171021)
[30] GB (2002790.0) 2020-02-27

[21] **3,167,502**
[13] A1
[51] **Int.Cl. B29C 64/393 (2017.01) B33Y 50/02 (2015.01) B29C 64/40 (2017.01)**
[25] EN
[54] **MULTI-MATERIAL SCANNING FOR ADDITIVE FABRICATION**
[54] **BALAYAGE MULTIMATERIAU POUR FABRICATION ADDITIVE**
[72] MATUSIK, WOJCIECH, US
[72] WEBER, AARON, US
[72] CHEN, DESAI, US
[71] INKBIT, LLC, US
[85] 2022-08-09
[86] 2020-02-20 (PCT/US2020/019014)
[87] (WO2021/167611)

[21] **3,167,504**
[13] A1
[51] **Int.Cl. B22C 1/02 (2006.01) B22C 1/22 (2006.01) C04B 26/16 (2006.01)**
[25] EN
[54] **SMOKE-SUPPRESSING ADDITIVE FOR POLYURETHANE-FORMING BINDER SYSTEM**
[54] **ADDITIF DE SUPPRESSION DE FUMEE POUR SYSTEME DE LIANT FORMANT DU POLYURETHANE**
[72] VIVAS, PAULA, US
[72] SHOFFNER, MATTHEW, US
[72] HORVATH, LEE, US
[71] ASK CHEMICALS LLC, US
[85] 2022-08-09
[86] 2021-03-01 (PCT/US2021/020189)
[87] (WO2021/178268)
[30] US (16/807,638) 2020-03-03

[21] **3,167,506**
[13] A1
[51] **Int.Cl. G01S 7/48 (2006.01) G01S 7/4865 (2020.01) G01S 17/931 (2020.01) G01S 7/487 (2006.01) G01S 17/10 (2020.01)**
[25] EN
[54] **METHOD FOR ANALYZING BACKSCATTER HISTOGRAM DATA IN AN OPTICAL PULSE RUNTIME METHOD AND DEVICE FOR DATA PROCESSING**
[54] **PROCEDE D'ANALYSE DE DONNEES D'HISTOGRAMME DE RETRODIFFUSION DANS UN PROCEDE DE RETARD D'IMPULSION OPTIQUE ET DISPOSITIF DE TRAITEMENT DE DONNEES**
[72] BEUSCHEL, RALF, DE
[72] DIEBEL, FALKO, DE
[71] IBEO AUTOMOTIVE SYSTEMS GMBH, DE
[85] 2022-08-09
[86] 2021-02-01 (PCT/EP2021/052285)
[87] (WO2021/160454)
[30] DE (10 2020 201 637.2) 2020-02-11

[21] **3,167,508**
[13] A1
[51] **Int.Cl. G01S 7/48 (2006.01) G01S 7/4863 (2020.01) G01S 7/487 (2006.01) G01S 17/95 (2006.01)**
[25] EN
[54] **APPARATUS FOR GENERATING BACKSCATTER HISTOGRAM DATA FOR DETERMINING A DIFFUSE BACKSCATTER DURING AN OPTICAL RUNTIME MEASUREMENT AND A METHOD**
[54] **DISPOSITIF DE PRODUCTION DE DONNEES D'HISTOGRAMME DE RETRODIFFUSION POUR LA DETERMINATION D'UNE RETRODIFFUSION DIFFUSE DANS UNE MESURE DE RETARD OPTIQUE, ET PROCEDE**
[72] BEUSCHEL, RALF, DE
[72] DIEBEL, FALKO, DE
[71] IBEO AUTOMOTIVE SYSTEMS GMBH, DE
[85] 2022-08-09
[86] 2021-02-01 (PCT/EP2021/052286)
[87] (WO2021/160455)
[30] DE (10 2020 201 636.4) 2020-02-11

[21] **3,167,513**
[13] A1
[51] **Int.Cl. A63F 9/24 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR RAFFLE-TYPE GAME PLAY**
[54] **SYSTEMES ET PROCEDES PERMETTANT DE JOUER UN JEU DU TYPE LOTERIE**
[72] DURRELL, STEPHEN W., US
[71] DURRELL, STEPHEN W., US
[85] 2022-08-09
[86] 2021-02-10 (PCT/US2021/017443)
[87] (WO2021/163181)
[30] US (62/972,319) 2020-02-10

[21] **3,167,514**
[13] A1
[51] **Int.Cl. A61K 8/81 (2006.01) A61C 19/06 (2006.01) A61K 8/02 (2006.01) A61K 8/86 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ORAL CARE COMPOSITION AND DEVICES FORMED THEREWITH**
[54] **COMPOSITION DE SOIN BUCCAL ET DISPOSITIFS FORMES AU MOYEN DE CETTE DERNIERE**
[72] CAREY, KRISTY, US
[72] THELEN, ALAN, US
[72] WRIGHT, MICHAEL, US
[71] RANIR, LLC, US
[85] 2022-08-09
[86] 2021-02-18 (PCT/CN2021/076681)
[87] (WO2021/160183)

[21] **3,167,538**
[13] A1
[51] **Int.Cl. F28F 3/04 (2006.01) F28F 3/10 (2006.01)**
[25] EN
[54] **A HEAT EXCHANGER PLATE, AND A PLATE HEAT EXCHANGER**
[54] **PLAQUE D'ECHANGEUR DE CHALEUR ET ECHANGEUR DE CHALEUR A PLAQUES**
[72] ROMLUND, JENS, SE
[71] ALFA LAVAL CORPORATE AB, SE
[85] 2022-08-10
[86] 2021-01-15 (PCT/EP2021/050785)
[87] (WO2021/160370)
[30] SE (2050164-9) 2020-02-14

[21] **3,167,539**
[13] A1
[51] **Int.Cl. B23K 20/12 (2006.01) B23K 20/227 (2006.01)**
[25] EN
[54] **FRICTION STIR WELDING TOOL AND METHOD FOR PRODUCING SAME**
[54] **OUTIL DE SOUDAGE PAR FRICTION-MALAXAGE ET PROCEDE DE FABRICATION D'UN TEL OUTIL**
[72] FIGNER, GUNTER, AT
[72] CALISKANOGLU, OZAN, AT
[72] OPPENEIGER, LUCAS, AT
[72] PFEIFFER, CHRISTIAN, AT
[71] STIRTEC GMBH, AT
[85] 2022-08-10
[86] 2021-02-01 (PCT/AT2021/060035)
[87] (WO2021/163742)
[30] AT (A 50125/2020) 2020-02-20

[21] **3,167,541**
[13] A1
[51] **Int.Cl. A61B 1/04 (2006.01) A61B 1/05 (2006.01) G02B 27/10 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROCESSING LASER SPECKLE SIGNALS**
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT DE SIGNAUX DE GRANULARITE LASER**
[72] OBERLIN, JOHN, US
[72] DEMAIO, EMANUEL, US
[71] ACTIV SURGICAL, INC., US
[85] 2022-08-10
[86] 2021-02-12 (PCT/US2021/018008)
[87] (WO2021/163603)
[30] US (62/976,669) 2020-02-14
[30] US (63/021,914) 2020-05-08
[30] US (63/022,147) 2020-05-08

[21] **3,167,546**
[13] A1
[51] **Int.Cl. A61B 5/0205 (2006.01) A61B 5/00 (2006.01) A61B 5/02 (2006.01) A61B 5/024 (2006.01) A61B 5/145 (2006.01) A61B 5/1455 (2006.01)**
[25] EN
[54] **INTRA-ORAL APPLIANCE WITH THERMOELECTRIC POWER SOURCE**
[54] **APPAREIL INTRA-ORAL AVEC SOURCE D'ENERGIE THERMOELECTRIQUE**
[72] RADMAND, REZA, US
[71] ACHAEMENID, LLC, US
[85] 2022-08-10
[86] 2021-02-15 (PCT/US2021/018089)
[87] (WO2021/167855)
[30] US (62/977,506) 2020-02-17

[21] **3,167,547**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) G16H 20/17 (2018.01) G16H 50/20 (2018.01) A61B 5/0215 (2006.01) A61B 5/029 (2006.01)**
[25] EN
[54] **WIRELESS HEART PRESSURE SENSOR SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE SANS FIL DE CAPTEUR DE TENSION ARTERIELLE**
[72] MINOR, DAVID J., US
[71] W. L. GORE & ASSOCIATES, INC., US
[85] 2022-08-10
[86] 2021-03-04 (PCT/US2021/020825)
[87] (WO2021/178636)
[30] US (62/986,355) 2020-03-06

[21] **3,167,548**
[13] A1
[51] **Int.Cl. B32B 7/12 (2006.01) B32B 15/085 (2006.01) B32B 15/20 (2006.01) B32B 27/08 (2006.01) B32B 27/10 (2006.01) B32B 27/32 (2006.01)**
[25] EN
[54] **RECYCLABLE PAPER PACKAGING WITH HIGH BARRIER TO WATER VAPOR AND OXYGEN**
[54]
[72] GREFENSTEIN, ACHIM, DE
[72] JONES, DUDLEY, GB
[72] BUTTNER, STEFAN, DE
[71] CONSTANTIA PIRK GMBH & CO. KG, DE
[85] 2022-08-10
[86] 2020-11-27 (PCT/EP2020/083727)
[87] (WO2021/164913)
[30] AT (A50116/2020) 2020-02-18

[21] **3,167,550**
[13] A1
[51] **Int.Cl. B64C 25/40 (2006.01) B64C 25/42 (2006.01)**
[25] FR
[54] **METHOD FOR CONTROLLING AN AIRCRAFT TAXI SYSTEM**
[54] **PROCEDE DE PILOTAGE D'UN SYSTEME DE TAXIAGE D'UN AERONEF**
[72] LIEGEOIS, PIERRE-YVES, FR
[72] BOISSARD, LAURENT, FR
[72] HADJIDJ, DJEMOUAI, FR
[71] SAFRAN LANDING SYSTEMS, FR
[85] 2022-08-10
[86] 2021-02-11 (PCT/EP2021/053288)
[87] (WO2021/160719)
[30] FR (2001357) 2020-02-11

[21] **3,167,551**
[13] A1
[51] **Int.Cl. A61K 36/8966 (2006.01) A61K 36/8888 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **USE OF PHARMACEUTICAL COMPOSITION IN PREPARING ANTIBACTERIAL DRUG**
[54] **UTILISATION D'UNE COMPOSITION PHARMACEUTIQUE DANS LA PREPARATION D'UN MEDICAMENT ANTIBACTERIEN**
[72] JIA, ZHENHUA, CN
[71] SHIJIAZHUANG YILING PHARMACEUTICAL CO., LTD., CN
[85] 2022-08-08
[86] 2021-03-02 (PCT/CN2021/078602)
[87] (WO2021/179947)
[30] CN (202010153831.8) 2020-03-07

[21] **3,167,553**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 1/15 (2006.01) C12N 1/19 (2006.01) C12N 1/21 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01) C12P 21/08 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **BISPECIFIC ANTIBODY BINDING TO CD3**
[54] **ANTICORPS BISPECIFIQUE SE LIANT A CD3**
[72] NIWA, RINPEI, JP
[72] OGAWA, SHINYA, JP
[72] WAJIMA, MAMI, JP
[72] KUBOTA, TSUGUO, JP
[71] KYOWA KIRIN CO., LTD., JP
[85] 2022-08-10
[86] 2021-02-12 (PCT/JP2021/005276)
[87] (WO2021/162098)
[30] JP (2020-023855) 2020-02-14

[21] **3,167,557**
[13] A1
[51] **Int.Cl. A01K 67/027 (2006.01) C07K 14/52 (2006.01)**
[25] EN
[54] **NON-HUMAN ANIMALS HAVING A HUMANIZED CXCL13 GENE**
[54] **ANIMAUX NON HUMAINS AYANT UN GENE CXCL13 HUMANISE**
[72] FRLETA, DAVOR, US
[72] TU, NAXIN, US
[72] GRINDLEY, JUSTIN, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-08-10
[86] 2021-04-20 (PCT/US2021/028087)
[87] (WO2021/216505)
[30] US (63/013,148) 2020-04-21

[21] **3,167,563**
[13] A1
[51] **Int.Cl. C07H 21/04 (2006.01) C12P 19/34 (2006.01)**
[25] EN
[54] **NOVEL MRNA 5'-END CAP ANALOGS MODIFIED WITHIN PHOSPHATE RESIDUES, RNA MOLECULE INCORPORATING THE SAME, USES THEREOF AND METHOD OF SYNTHESIZING RNA MOLECULE OR PEPTIDE**
[54] **NOUVEAUX ANALOGUES DE COIFFE D'EXTREMITE 5' D'ARNM MODIFIES DANS DES RESIDUS DE PHOSPHATE, MOLECULE D'ARN INCORPORANT CEUX-CI, LEURS UTILISATIONS ET PROCEDE DE SYNTHESE D'UNE MOLECULE D'ARN OU D'UN PEPTID**
[72] WARMI?SKI, MACIN, PL
[72] SIKORSKI, PAWEL, PL
[72] KOWALSKA, JOANNA, PL
[72] JEMIELITY, JACEK, PL
[71] UNIWERSYTET WARSZAWSKI, PL
[71] EXPLORNA THERAPEUTICS SP. Z O. O., PL
[85] 2022-08-10
[86] 2021-02-12 (PCT/PL2021/050006)
[87] (WO2021/162566)
[30] PL (P.432884) 2020-02-12

[21] **3,167,564**
[13] A1
[51] **Int.Cl. C07K 5/083 (2006.01) A61K 31/704 (2006.01) C07K 5/093 (2006.01) C07K 5/103 (2006.01)**
[25] EN
[54] **PREPARATION AND USE OF IMMUNOSTIMULATORY CONJUGATED COMPLEXES FOR TARGETED DELIVERY AND ACTIVATION**
[54] **PREPARATION ET UTILISATION D'UN COMPLEXE DE COUPLAGE IMMUNOSTIMULATEUR QUI EST ADMINISTRE ET ACTIVE DE MANIERE CIBLEE**
[72] LIU, CHEN, CN
[72] LIU, YUAN, CN
[72] WANG, HAIYANG, CN
[71] YAFEI SHANGHAI BIOLOGY MEDICINE SCIENCE & TECHNOLOGY CO., LTD., CN
[85] 2022-08-10
[86] 2021-02-20 (PCT/CN2021/077056)
[87] (WO2021/164765)
[30] CN (202010106067.9) 2020-02-20

[21] **3,167,567**
[13] A1
[51] **Int.Cl. B01J 23/755 (2006.01) B01J 35/10 (2006.01) B01J 37/03 (2006.01) B01J 37/18 (2006.01) C08F 8/04 (2006.01) C10G 45/48 (2006.01)**
[25] EN
[54] **A HYDROGENATION CATALYST AND ITS PRECURSOR AND USE THEREOF IN THE HYDROGENATION OF PETROCHEMICAL RESINS**
[54] **CATALYSEUR D'HYDROGENATION ET SON PRECURSEUR ET SON UTILISATION DANS L'HYDROGENATION DE RESINES PETROCHIMIQUES**
[72] GOSSELINK, ROBERT WILLEM, BE
[72] YARULINA, IRINA, NL
[72] KAMSMA, GERDA, NL
[72] REESINK, BERNARD, NL
[72] TERORDE, ROBERT, NL
[71] BASF CORPORATION, US
[85] 2022-08-10
[86] 2021-02-15 (PCT/EP2021/053634)
[87] (WO2021/160882)
[30] EP (20157398.7) 2020-02-14

[21] **3,167,568**
[13] A1
[51] **Int.Cl. B60K 11/08 (2006.01) F01P 7/10 (2006.01)**
[25] EN
[54] **ACTIVE GRILLE SHUTTER VANES WITH IMPROVED SEALING**
[54] **AUBES DE VOLET DE GRILLE ACTIVES AYANT UNE MEILLEURE ETANCHEITE**
[72] MANHIRE, JEFFREY B., US
[71] MAGNA EXTERIORS INC., CA
[85] 2022-08-10
[86] 2021-02-10 (PCT/US2021/017382)
[87] (WO2021/163133)
[30] US (62/972,819) 2020-02-11

[21] **3,167,569**
[13] A1
[51] **Int.Cl. G06F 16/28 (2019.01) G06N 20/00 (2019.01) G06N 5/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING ENTITY ATTRIBUTE REPRESENTATIONS**
[54] **SYSTEMES ET PROCEDES POUR DETERMINER DES REPRESENTATIONS D'ATTRIBUTS D'ENTITES**
[72] POLACZUK, MAKSYMILIAN
CLARK, NZ
[72] HERRMANN, CHRISTOPHER DARIUS, NZ
[72] LEATHART, TIMOTHY MATTHEW, NZ
[72] PATEL, DIVYA JITESH, NZ
[71] XERO LIMITED, NZ
[85] 2022-08-10
[86] 2021-04-14 (PCT/NZ2021/050063)
[87] (WO2021/210992)
[30] AU (2020901198) 2020-04-15

[21] **3,167,570**
[13] A1
[51] **Int.Cl. C07H 21/04 (2006.01) C12P 19/34 (2006.01)**
[25] EN
[54] **NOVEL MRNA 5'-END CAP ANALOGS, RNA MOLECULE INCORPORATING THE SAME, USES THEREOF AND METHOD OF SYNTHESIZING RNA MOLECULE OR PEPTIDE**
[54] **NOUVEAUX ANALOGUES DE COIFFE TERMINALE 5' D'ARNM, MOLECULE D'ARN LES INCORPORANT, UTILISATIONS DE CEUX-CI ET PROCEDES DE SYNTHESE DE MOLECULE D'ARN OU DE PEPTIDE**
[72] WARMI?SKI, MACIN, PL
[72] SIKORSKI, PAWEL, PL
[72] KOWALSKA, JOANNA, PL
[72] JEMIELITY, JACEK, PL
[71] UNIWERSYTET WARSZAWSKI, PL
[71] EXPLORNA THERAPEUTICS SP. Z O. O., PL
[85] 2022-08-10
[86] 2021-02-12 (PCT/PL2021/050007)
[87] (WO2021/162567)
[30] PL (P.432883) 2020-02-12

[21] **3,167,571**
[13] A1
[51] **Int.Cl. E02F 9/28 (2006.01)**
[25] EN
[54] **WEAR MEMBER**
[54] **ELEMENT D'USURE**
[72] HARDING, DARRIN, US
[72] BEATLEY, MARK T., US
[72] BINGHAM, BRUCE C., US
[71] ESCO GROUP LLC, US
[85] 2022-08-10
[86] 2021-02-19 (PCT/US2021/018846)
[87] (WO2021/168297)
[30] US (62/978,690) 2020-02-19

[21] **3,167,572**
[13] A1
[51] **Int.Cl. C12N 15/11 (2006.01)**
[25] EN
[54] **CHIMERIC ANTIGEN RECEPTORS WITH CD2 ACTIVATION**
[54] **RECEPTEURS D'ANTIGENES CHIMERIQUES AVEC ACTIVATION DE CD2**
[72] MAJZNER, ROBBIE G., US
[72] MACKALL, CRYSTAL L., US
[72] TOUSLEY, AIDAN, US
[72] MONJE-DEISSEROTH, MICHELLE, US
[72] LABANIEH, LOUAI, US
[72] MOUNT, CHRISTOPHER, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2022-08-10
[86] 2021-02-12 (PCT/US2021/018027)
[87] (WO2021/163616)
[30] US (62/976,997) 2020-02-14
[30] US (63/109,831) 2020-11-04

[21] **3,167,573**
[13] A1
[51] **Int.Cl. A23K 10/16 (2016.01) A61K 35/741 (2015.01) A23K 10/30 (2016.01) A23K 20/10 (2016.01) A23K 20/142 (2016.01) A23K 20/158 (2016.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR REDUCING DELETERIOUS ENTERIC ATMOSPHERIC GASES IN LIVESTOCK**
[54] **PROCEDES ET COMPOSITIONS POUR REDUIRE LES GAZ ATMOSPHERIQUES ENTERIQUES DELETERES CHEZ LES ANIMAUX D'ELEVAGE**
[72] FARMER, SEAN, US
[72] ALIBEK, KEN, US
[72] KARATHUR, KARTHIK N., US
[72] HEIDECORN, KEITH, US
[71] LOCUS IP COMPANY, LLC, US
[85] 2022-08-10
[86] 2021-02-10 (PCT/US2021/017399)
[87] (WO2021/163148)
[30] US (62/972,973) 2020-02-11
[30] US (63/126,711) 2020-12-17
[30] US (63/024,191) 2020-05-13
[30] US (63/038,985) 2020-06-15

[21] **3,167,575**
[13] A1
[51] **Int.Cl. H01Q 1/42 (2006.01) H01Q 15/24 (2006.01)**
[25] EN
[54] **INTEGRATED HIGHER ORDER FLOQUET MODE MEANDER LINE POLARIZER RADOME**
[54] **RADOME DE POLARISEUR A LIGNE EN MEANDRE A MODE DE FLOQUET D'ORDRE SUPERIEUR INTEGRE**
[72] BUCKLEY, MICHAEL J., US
[72] RAVISHANKAR, CHANNASANDRA, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2022-08-10
[86] 2021-02-23 (PCT/US2021/019263)
[87] (WO2021/173567)
[30] US (62/981,493) 2020-02-25

[21] **3,167,576**
[13] A1
[51] **Int.Cl. C08F 290/06 (2006.01) C09D 7/20 (2018.01)**
[25] EN
[54] **ICE-SHEDDING AND SMUDGE-REPELLENT COATING**
[54] **REVETEMENT DEGIVRANT ET ANTI-TACHE**
[72] LIU, GUOJUN, CA
[72] HARPER, ALEXANDER NEWELL, CA
[71] QUEEN'S UNIVERSITY AT KINGSTON, CA
[85] 2022-08-10
[86] 2021-02-12 (PCT/CA2021/050149)
[87] (WO2021/159208)
[30] US (62/976,622) 2020-02-14

[21] **3,167,578**
[13] A1
[51] **Int.Cl. H04N 5/232 (2006.01) H04N 5/222 (2006.01)**
[25] EN
[54] **DEPTH SENSOR ACTIVATION FOR LOCALIZATION BASED ON DATA FROM MONOCULAR CAMERA**
[54] **ACTIVATION DE CAPTEUR DE PROFONDEUR POUR LOCALISATION BASEE SUR DES DONNEES PROVENANT D'UNE CAMERA MONOCULAIRE**
[72] ARAUJO, JOSE, SE
[72] TAHER KOUHESTANI, AMIRHOSSEIN, SE
[72] GONZALEZ MORIN, DIEGO, ES
[72] KARAGIANNIS, IOANNIS, GR
[72] MUDDUKRISHNA, ANANYA, SE
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2022-08-10
[86] 2020-02-12 (PCT/EP2020/053585)
[87] (WO2021/160257)

[21] **3,167,579**
[13] A1
[51] **Int.Cl. C08F 210/16 (2006.01) C08F 4/64 (2006.01) C08F 4/659 (2006.01)**
[25] EN
[54] **POLYETHYLENE COMPOSITIONS OBTAINED USING TRANSITION METAL BIS(PHENOLATE) CATALYST COMPLEXES AND HOMOGENEOUS PROCESS FOR PRODUCTION THEREOF**
[54] **COMPOSITIONS DE POLYETHYLENE OBTENUES A L'AIDE DE COMPLEXES DE CATALYSEUR DE BIS(PHENOLATE) DE METAL DE TRANSITION ET PROCEDE HOMOGENE POUR LA PRODUCTION DE CELLES-CI**
[72] JIANG, PEIJUN, US
[72] CANICH, JO ANN M., US
[72] HAGADORN, JOHN R., US
[71] EXXONMOBIL CHEMICAL PATENTS INC., US
[85] 2022-08-10
[86] 2020-08-11 (PCT/US2020/045823)
[87] (WO2021/162748)
[30] US (62/972,936) 2020-02-11

[21] **3,167,582**
[13] A1
[51] **Int.Cl. B23B 27/00 (2006.01) B23B 5/00 (2006.01) B23B 29/02 (2006.01)**
[25] EN
[54] **TOOL HOLDER FOR TOOL ASSEMBLY AND TOOL ASSEMBLY COMPRISING TOOL HOLDER**
[54] **PORTE-OUTIL POUR ENSEMBLE OUTIL, ET ENSEMBLE OUTIL COMPRENANT UN PORTE-OUTIL**
[72] FU, QILIN, SE
[71] MAQ AB, SE
[85] 2022-08-10
[86] 2020-03-31 (PCT/EP2020/059053)
[87] (WO2021/197577)

[21] **3,167,586**
[13] A1
[51] **Int.Cl. C08G 65/26 (2006.01) C08G 63/685 (2006.01) C11D 3/37 (2006.01) C11D 7/32 (2006.01)**
[25] EN
[54] **ALKOXYLATED POLYAMINES WITH IMPROVED BIODEGRADABILITY**
[54] **POLYAMINES ALCOXYLEES A BIODEGRADABILITE AMELIOREE**
[72] EBERT, SOPHIA, DE
[72] ENGERT, SUSANNE CARINA, DE
[72] BENLAHMAR, OUIDAD, DE
[72] SI, GANG, GB
[72] HULSKOTTER, FRANK, DE
[72] GORCZYNSKA COSTELLO, KATARZYNA, GB
[72] SAVEYN, PIETER JAN MARIA, BE
[72] STERGIOPOULOU, NATALIA, BE
[72] BOUTIQUE, JEANPOL, BE
[72] MAES, JEF ANNIE ALFONS, BE
[72] BECKER, NATALIA, DE
[72] BUECHSE, ANDREAS, DE
[71] BASF SE, DE
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-08-10
[86] 2021-02-19 (PCT/EP2021/054199)
[87] (WO2021/165493)
[30] EP (20158733.4) 2020-02-21

[21] **3,167,588**
[13] A1
[51] **Int.Cl. C07K 14/325 (2006.01) A01N 63/23 (2020.01) A01N 63/50 (2020.01)**
[25] EN
[54] **TOXIN GENE AND METHODS FOR ITS USE**
[54] **GENE DE TOXINE ET SES PROCEDES D'UTILISATION**
[72] CHOUGULE, NANASAHEB, US
[72] DOOLEY, MARGARET, US
[72] ZAITSEVA, JELENA, US
[72] LEHTINEN, DUANE, US
[72] EBERLE, TIMOTHY, US
[72] DING, LEI, US
[72] CARDOZA, YASMIN, US
[71] BASF AGRICULTURAL SOLUTIONS SEED US LLC, US
[85] 2022-08-10
[86] 2021-02-19 (PCT/US2021/018859)
[87] (WO2021/168309)
[30] US (62/979,868) 2020-02-21

[21] **3,167,590**
[13] A1
[51] **Int.Cl. B01J 13/02 (2006.01) B01J 13/04 (2006.01) F28D 20/02 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR PREPARATION OF LIQUID MARBLES**
[54] **DISPOSITIF ET PROCEDE DE PREPARATION DE BILLES LIQUIDES**
[72] RYCHECKY, ONDREJ, CZ
[72] STEPANEK, FRANTISEK, CZ
[72] KROV, MARTIN, CZ
[71] VYSOKA SKOLA CHEMICKO-TECHNOLOGICKA V PRAZE, CZ
[85] 2022-08-10
[86] 2021-02-17 (PCT/CZ2021/050019)
[87] (WO2021/164797)
[30] CZ (PV 2020-84) 2020-02-18

[21] **3,167,591**
[13] A1
[51] **Int.Cl. B29D 35/14 (2010.01) B29D 35/10 (2010.01) A43B 5/08 (2006.01) D04B 21/16 (2006.01)**
[25] EN
[54] **VERTICALLY LAPPED NONWOVEN IN FOOTWEAR**
[54] **NON-TISSE A CHEVAUCHEMENT VERTICAL DANS DES ARTICLES CHAUSSANTS**
[72] HOLLIS, ANDY, US
[72] DEFRANKS, MICHAEL STEPHEN, US
[72] MCCANN, ERIC, US
[72] PIANA, ANDREA, US
[71] PIANA NONWOVENS, LLC., US
[85] 2022-08-10
[86] 2021-03-09 (PCT/US2021/021454)
[87] (WO2021/183476)
[30] US (62/989,198) 2020-03-13

[21] **3,167,593**
[13] A1
[51] **Int.Cl. A61K 38/48 (2006.01) A61K 38/49 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **METHOD AND DRUG FOR TREATING VIRAL PNEUMONIA**
[54] **PROCEDE ET MEDICAMENT POUR LE TRAITEMENT DE LA PNEUMONIE VIRALE**
[72] LI, JINAN, CN
[71] TALENGEN INTERNATIONAL LIMITED, CN
[85] 2022-08-10
[86] 2021-02-08 (PCT/CN2021/076035)
[87] (WO2021/160092)
[30] CN (202010086980.7) 2020-02-11

[21] **3,167,597**
[13] A1
[25] EN
[54] **APPARATUS, METHODS, AND SYSTEMS FOR MAINTAINING HEALTHY PLANKTON POPULATIONS**
[54] **APPAREILS, PROCEDES ET SYSTEMES POUR MAINTENIR DES POPULATIONS DE PLANCTON EN BONNE SANTE**
[72] ROULSTON, ROBERT, CA
[72] DE HAAS, STUART, CA
[72] HAY, WILSON, CA
[71] INDUSTRIAL PLANKTON INC., CA
[85] 2022-08-10
[86] 2021-02-13 (PCT/CA2021/050159)
[87] (3167597)
[30] US (62/976,341) 2020-02-13

[21] **3,167,598**
[13] A1
[51] **Int.Cl. F24F 13/02 (2006.01) F16L 19/00 (2006.01) F16L 41/08 (2006.01)**
[25] EN
[54] **FITTING AND FERRULE FOR CONNECTING TO FLEXIBLE DUCT**
[54] **RACCORD ET FERRULE POUR RACCORDEMENT A UN CONDUIT FLEXIBLE**
[72] POERSCHKE, ANDREW, US
[72] BEACH, ROBERT, US
[72] WATTS, NIGEL, US
[71] RHEIA, LLC, US
[85] 2022-08-10
[86] 2021-02-12 (PCT/US2021/017827)
[87] (WO2021/163457)
[30] US (16/788,772) 2020-02-12

[21] **3,167,599**
[13] A1
[51] **Int.Cl. G01T 1/00 (2006.01) G01V 1/00 (2006.01) G01V 3/08 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR MONITORING THE PRECIPITATION OF PARTICLES IN THE MAGNETOSPHERE**
[54] **PROCEDE ET SYSTEME DE SURVEILLANCE DE PRECIPITATION DE PARTICULES MAGNETOSPHERIQUES**
[72] ARGAN, ANDREA, IT
[72] TAVANI, MARCO, IT
[72] TROIS, ALESSIO, IT
[71] ISTITUTO NAZIONALE DI ASTROFISICA-INAF, IT
[71] AGENZIA SPAZIALE ITALIANA, IT
[85] 2022-08-10
[86] 2021-02-17 (PCT/IB2021/051335)
[87] (WO2021/176289)
[30] IT (102020000004339) 2020-03-02

[21] **3,167,600**
[13] A1
[51] **Int.Cl. E21B 43/01 (2006.01) F16L 53/34 (2018.01) F16L 53/38 (2018.01) E21B 36/04 (2006.01)**
[25] EN
[54] **SUBSEA HYDROCARBON FLOWLINE SYSTEM AND RELATED METHOD AND USE**
[54] **SYSTEME SOUS-MARIN DE CONDUITES D'ECOULEMENT D'HYDROCARBURES ET PROCEDE ET UTILISATION ASSOCIES**
[72] MOE, SIGURD, NO
[72] TAOUIL, RAFAEL, FR
[72] ANDERSSON, JONNY EMIL, NO
[72] GATHERAR, NICHOLAS, GB
[71] FMC KONGSBERG SUBSEA AS, NO
[85] 2022-08-10
[86] 2021-02-08 (PCT/EP2021/052964)
[87] (WO2021/160562)
[30] NO (20200170) 2020-02-11

[21] **3,167,601**
[13] A1
[51] **Int.Cl. A61K 38/48 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **IMMUNOGLOBULIN DETECTION AND ASSOCIATED THERAPIES**
[54] **DETECTION D'IMMUNOGLOBULINE ET THERAPIES ASSOCIEES**
[72] RUNSTROM, ANNA, SE
[72] BOCKERMANN, ROBERT, SE
[72] SJOHOLM, KRISTOFFE, SE
[72] ROUPE, MARKUS, SE
[72] KJELLMAN, CHRISTIAN, SE
[72] LORANT, TOMAS, SE
[71] HANSA BIOPHARMA AB, SE
[85] 2022-08-10
[86] 2021-02-12 (PCT/EP2021/053462)
[87] (WO2021/160805)
[30] GB (2002072.3) 2020-02-14

[21] **3,167,603**
[13] A1
[51] **Int.Cl. C11D 3/30 (2006.01) C11D 3/37 (2006.01) C11D 3/50 (2006.01) C11D 7/32 (2006.01)**
[25] EN
[54] **FRAGRANCE PREMIX COMPOSITIONS AND RELATED CONSUMER PRODUCTS**
[54] **COMPOSITIONS DE PREMELANGE DE PARFUM ET PRODUITS DE CONSOMMATION ASSOCIES**
[72] PANANDIKER, RAJAN KESHAV, US
[72] KLUESENER, BERNARD WILLIAM, US
[72] JAYASUNDARA, CHATHURIKA R.K., US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-08-10
[86] 2021-03-04 (PCT/US2021/070230)
[87] (WO2021/179010)
[30] US (62/985,958) 2020-03-06

[21] **3,167,606**
[13] A1
[51] **Int.Cl. A61K 31/7016 (2006.01) A61K 47/12 (2006.01) A61K 47/18 (2017.01)**
[25] EN
[54] **HIGH MOLECULAR WEIGHT HEPARIN COMPOSITIONS AND METHODS FOR DIAGNOSING, TREATING AND MONITORING EOSINOPHIL MEDIATED INFLAMMATORY DISEASES**
[54] **COMPOSITIONS D'HEPARINE DE POIDS MOLECULAIRE ELEVE ET PROCEDES DE DIAGNOSTIC, DE TRAITEMENT ET DE SURVEILLANCE DE MALADIES INFLAMMATOIRES MEDIEES PAR LES EOSINOPHILES**
[72] GLEICH, GERALD J., US
[72] CONDIE, RUSSELL MORRIS, US
[72] LEIFERMAN, KRISTIN M., US
[72] PETERSON, KATHRYN A., US
[72] ECKERT, DEBRA, US
[72] SAFFARI, HEDIEH, US
[71] UNIVERSITY OF UTAH RESEARCH FOUNDATION, US
[85] 2022-08-10
[86] 2021-02-10 (PCT/US2021/017453)
[87] (WO2021/163190)
[30] US (62/972,224) 2020-02-10

[21] **3,167,609**
[13] A1
[51] **Int.Cl. G06N 3/12 (2006.01)**
[25] EN
[54] **EXTRACTION OF RELEVANT SIGNALS FROM SPARSE DATA SETS**
[54] **EXTRACTION DE SIGNAUX PERTINENTS A PARTIR D'ENSEMBLES DE DONNEES CLAIRSEMES**
[72] LAPIERRE, JENNIFER L., US
[72] TAYLOR, REBECCA E., US
[71] QUEST DIAGNOSTICS INVESTMENTS LLC, US
[85] 2022-08-10
[86] 2021-02-12 (PCT/US2021/017867)
[87] (WO2021/163491)
[30] US (62/976,175) 2020-02-13

[21] **3,167,610**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/02 (2006.01) A61B 5/022 (2006.01) A61B 5/0225 (2006.01) A61B 5/024 (2006.01)**
[25] EN
[54] **HIGH EFFICIENCY EXTERNAL COUNTER PULSATION SYSTEM AND METHOD OF TREATMENT USING THE SYSTEM**
[54] **SYSTEME DE CONTRE-PULSATION EXTERNE A EFFICACITE ELEVEE ET PROCEDE DE TRAITEMENT UTILISANT LE SYSTEME**
[72] YANG, FU-LIANG, TW
[72] CHUNG, CHANG-KUEI, TW
[71] ACADEMIA SINICA, CN
[85] 2022-08-10
[86] 2020-09-14 (PCT/US2020/050606)
[87] (WO2021/167651)
[30] US (62/979,372) 2020-02-20

[21] **3,167,611**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) A61P 31/14 (2006.01) C07K 14/00 (2006.01) C07K 14/005 (2006.01) C07K 14/165 (2006.01)**
[25] EN
[54] **NUCLEIC ACID VACCINE AGAINST THE SARS-COV-2 CORONAVIRUS**
[54] **VACCIN A BASE D'ACIDE NUCLEIQUE CONTRE LE CORONAVIRUS SARS-COV-2**
[72] SIMON-LORIERE, ETIENNE, FR
[72] PROT, MATTHIEU, FR
[72] MONTAGUTELLI, XAVIER, FR
[71] INSTITUT PASTEUR, FR
[85] 2022-08-10
[86] 2021-02-12 (PCT/EP2021/025053)
[87] (WO2021/160346)
[30] EP (20305140.4) 2020-02-13
[30] US (62/976,148) 2020-02-13

[21] **3,167,613**
[13] A1
[51] **Int.Cl. A47J 37/00 (2006.01) A47J 36/26 (2006.01) H05B 3/10 (2006.01) H05B 3/26 (2006.01) H05B 3/68 (2006.01) H05K 3/20 (2006.01)**
[25] EN
[54] **COOKING DEVICE HAVING A MODULAR CERAMIC HEATER**
[54] **DISPOSITIF DE CUISSON DOTE D'UN ELEMENT CHAUFFANT EN CERAMIQUE MODULAIRE**
[72] SMITH, JERRY WAYNE, US
[72] SCHNEIDER, DAVID ANTHONY, US
[72] CAO, JICHANG, US
[71] LEXMARK INTERNATIONAL, INC, US
[85] 2022-08-10
[86] 2021-01-29 (PCT/US2021/015783)
[87] (WO2021/162876)
[30] US (62/972,284) 2020-02-10
[30] US (17/147,921) 2021-01-13
[30] US (63/064,028) 2020-08-11

[21] **3,167,614**
[13] A1
[51] **Int.Cl. A61K 31/36 (2006.01) A61K 31/197 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **SMARTCORE COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS ET PROCEDES SMARTCORE(®)**
[72] YATES, CHARLES RYAN, US
[72] FILI, CAMERON VOLPE, US
[72] LIN, LING, US
[72] CHAPMAN, JONATHAN, US
[72] LOPEZ, HECTOR L., US
[71] NPI, LLC, US
[85] 2022-08-10
[86] 2021-02-12 (PCT/US2021/017819)
[87] (WO2021/163452)
[30] US (62/976,969) 2020-02-14

[21] **3,167,616**
[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01)**
[25] EN
[54] **SYSTEM FOR DETERMINING AN UNDERLYING CAUSE OF ANEMIA**
[54] **SYSTEME DE DETERMINATION D'UNE CAUSE SOUS-JACENTE DE L'ANEMIE**
[72] SNYDER, LOUIS MICHAEL, US
[72] DLOTT, JEFFREY SAMUEL, US
[71] QUEST DIAGNOSTICS INVESTMENTS LLC, US
[85] 2022-08-10
[86] 2021-02-10 (PCT/US2021/017481)
[87] (WO2021/163209)
[30] US (62/972,835) 2020-02-11

[21] **3,167,617**
[13] A1
[51] **Int.Cl. A61N 1/00 (2006.01) A61N 1/378 (2006.01)**
[25] EN
[54] **APPARATUSES AND METHODS FOR WIRELESSLY POWERED CHARGE-BALANCED ELECTRICAL STIMULATION**
[54] **APPAREILS ET PROCEDES DE STIMULATION ELECTRIQUE EQUILIBREE PAR CHARGE A ALIMENTATION SANS FIL**
[72] AKININ, ABRAHAM, US
[72] CAUWENBERGHS, GERT, US
[72] KIM, CHUL, KR
[72] MERCIER, PATRICK, US
[72] THACKER, HIREN, US
[71] NANOVISION BIOSCIENCES, INC., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2022-08-10
[86] 2021-02-10 (PCT/US2021/017513)
[87] (WO2021/163229)
[30] US (62/972,639) 2020-02-10

[21] **3,167,620**
[13] A1
[51] **Int.Cl. C12P 19/32 (2006.01)**
[25] EN
[54] **METHOD FOR THE INCORPORATION OF FORMALDEHYDE INTO BIOMASS**
[54] **PROCEDE D'INCORPORATION DE FORMALDEHYDE DANS UNE BIOMASSE**
[72] HE, HAI, DE
[72] MARLIERE, PHILIPPE, LU
[72] BAR-EVEN, ARREN (DECEASED), XX
[71] SCIENTIST OF FORTUNE S.A., LU
[71] MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN E.V., DE
[85] 2022-08-10
[86] 2021-02-16 (PCT/EP2021/053715)
[87] (WO2021/165229)
[30] EP (20157768.1) 2020-02-17

[21] **3,167,621**
[13] A1
[51] **Int.Cl. B09C 1/06 (2006.01) F23G 7/14 (2006.01)**
[25] EN
[54] **SINTERED WAVE MULTI-MEDIA POLARITY CONVERSION TREATMENT APPARATUS AND PROCESS FOR NONDESTRUCTIVE REMOVAL AND CONDENSATION OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) AND OTHER DANGEROUS COMPOUND**
[54] **APPAREIL DE TRAITEMENT DE CONVERSION DE POLARITE MULTISUPPORT A ONDES FRITTEES ET PROCEDE D'ELIMINATION NON DESTRUCTIVE ET DE CONDENSATION DE SUBSTANCES PER-ET POLYFLUOROALKYLE (PFAS) ET D'AUTRES COMPOSES DANGEREU**
[72] BRADY, PATRICK, US
[71] EZRATERRA, LLC, US
[85] 2022-08-10
[86] 2021-02-03 (PCT/US2021/016413)
[87] (WO2021/162914)
[30] US (16/788,650) 2020-02-12

[21] **3,167,622**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/12 (2006.01) C12M 1/30 (2006.01) C12M 1/32 (2006.01)**
[25] EN
[54] **METHODS AND DEVICES FOR CELL BASED ASSAYS**
[54] **PROCEDES ET DISPOSITIFS POUR DOSAGES A BASE DE CELLULES**
[72] FOWLER, STEPHEN, CH
[72] QIU, NA HONG, CH
[72] CHEN, GUOJUN, CH
[71] F. HOFFMANN-LA ROCHE AG, CH
[71] NCL NEW CONCEPT LAB GMBH, CH
[85] 2022-08-10
[86] 2021-03-22 (PCT/EP2021/057179)
[87] (WO2021/191103)
[30] EP (20164950.6) 2020-03-23

[21] **3,167,623**
[13] A1
[51] **Int.Cl. F03B 17/06 (2006.01) F03B 13/26 (2006.01)**
[25] EN
[54] **WATER-DRIVEN ELONGATED-CONVEYOR TURBINE AND METHOD OF USING A WATER-DRIVEN ELONGATED-CONVEYOR TURBINE**
[54] **TURBINE A CONVOYEUR ALLONGE ENTRAINEE PAR L'EAU ET PROCEDE D'UTILISATION D'UNE TURBINE A CONVOYEUR ALLONGE ENTRAINEE PAR L'EAU**
[72] WILSON, MICHAEL W. N., GB
[72] MOIR, STUART P., GB
[71] WILSON, MICHAEL W. N., GB
[71] MOIR, STUART P., GB
[85] 2022-08-10
[86] 2021-02-10 (PCT/IB2021/051086)
[87] (WO2021/161190)
[30] US (16/787,769) 2020-02-11

[21] **3,167,624**
[13] A1
[51] **Int.Cl. G08B 17/10 (2006.01) G08B 25/00 (2006.01)**
[25] EN
[54] **MESH GATEWAY NETWORK AND METHOD**
[54] **RESEAU MAILLE A PASSERELLES ET PROCEDE**
[72] BONIG, MARCO, DE
[72] BRINKSCHULTE, CARSTEN, DE
[72] HOLLOS, DANIEL, DE
[71] DRYAD NETWORKS GMBH, DE
[85] 2022-08-10
[86] 2021-02-11 (PCT/EP2021/053348)
[87] (WO2021/160747)
[30] DE (10 2020 103 418.0) 2020-02-11
[30] DE (10 2021 103 229.6) 2021-02-11

[21] **3,167,627**
[13] A1
[51] **Int.Cl. G06F 16/215 (2019.01)**
[25] EN
[54] **GENERATING RULES FOR DATA PROCESSING VALUES OF DATA FIELDS FROM SEMANTIC LABELS OF THE DATA FIELDS**
[54] **GENERATION DE REGLES POUR DES VALEURS DE TRAITEMENT DE DONNEES DE CHAMPS DE DONNEES A PARTIR DE MARQUES SEMANTIQUES DES CHAMPS DE DONNEES**
[72] JOYCE, JOHN, US
[72] ISMAN, MARSHALL A., US
[72] MELBOUCI, SANDRICK, US
[71] AB INITIO TECHNOLOGY LLC, US
[85] 2022-08-10
[86] 2021-02-25 (PCT/US2021/019572)
[87] (WO2021/173777)
[30] US (62/981,646) 2020-02-26
[30] US (17/006,504) 2020-08-28

[21] **3,167,628**
[13] A1
[51] **Int.Cl. C08J 3/24 (2006.01) A61K 8/73 (2006.01) A61K 31/722 (2006.01) A61K 47/36 (2006.01) A61L 27/54 (2006.01) C07H 5/06 (2006.01) C08B 37/08 (2006.01) C08J 7/02 (2006.01) C08L 5/08 (2006.01) C12N 1/00 (2006.01) C12N 5/00 (2006.01)**
[25] EN
[54] **NEW METHOD OF SYNTHESIS OF CHITOSAN DERIVATIVES AND USES THEREOF**
[54] **NOUVEAU PROCEDE DE SYNTHESE DE DERIVES DE CHITOSANE ET LEURS UTILISATIONS**
[72] KARGAPOLOV, YURIY, RU
[72] FOMENKO, VLADISLAV, RU
[71] NOVOCHIZOL SA, CH
[85] 2022-08-10
[86] 2021-02-10 (PCT/EP2021/053204)
[87] (WO2021/160667)
[30] RU (RU2020106398) 2020-02-11
[30] EP (20156732.8) 2020-02-11

[21] **3,167,629**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/20 (2006.01) A61K 31/202 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **MARGARIC ACID DECREASES PIEZ02-MEDIATED PAIN**
[54] **REDUCTION DE LA DOULEUR INDUITE PAR LE GENE PIEZ02 PAR L'ACIDE MARGARIQUE**
[72] CHESLER, ALEXANDER THEODORE, US
[72] VASQUEZ, VALERIA, US
[72] CORDERO-MORALES, JULIO FRANCISCO, US
[72] ROMERO, LUIS OCTAVIO, US
[72] ZHI, KAINING, US
[72] KOCHAT, HARRY, US
[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[71] UNIVERSITY OF TENNESSEE RESEARCH FOUNDATION, US
[85] 2022-08-10
[86] 2021-02-12 (PCT/US2021/017780)
[87] (WO2021/163425)
[30] US (62/976,014) 2020-02-13

[21] **3,167,630**
[13] A1
[51] **Int.Cl. A61K 31/506 (2006.01) A61K 31/495 (2006.01) A61K 31/4985 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION FOR PREVENTION OR TREATMENT OF DIABETES AND METABOLIC DISEASES ASSOCIATED THEREWITH**
[54] **COMPOSITION PHARMACEUTIQUE DESTINEE A LA PREVENTION OU AU TRAITEMENT DU DIABETE ET DE MALADIES METABOLIQUES ASSOCIEES A CELUI-CI**
[72] KIM, MI-KYUNG, KR
[72] KIM, TAE HYOUNG, KR
[72] JUNG, IL HOON, KR
[72] CHAE, YU NA, KR
[72] YANG, JAE SUNG, KR
[71] DONG-A ST CO., LTD., KR
[85] 2022-08-10
[86] 2021-03-10 (PCT/KR2021/002990)
[87] (WO2021/182877)
[30] KR (10-2020-0030424) 2020-03-11

[21] **3,167,632**
[13] A1
[51] **Int.Cl. B29C 64/118 (2017.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR PRODUCING BOAT MOLDS BY ADDITIVE MANUFACTURING**
[54] **PROCEDES ET SYSTEMES DE PRODUCTION DE MOULES DE BATEAU PAR FABRICATION ADDITIVE**
[72] SUSNJARA, KENNETH J., US
[71] THERMWOOD CORPORATION, US
[85] 2022-08-10
[86] 2021-02-17 (PCT/US2021/018294)
[87] (WO2021/167929)
[30] US (16/796,366) 2020-02-20

[21] **3,167,633**
[13] A1
[51] **Int.Cl. G16B 20/20 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CALLING VARIANTS USING METHYLATION SEQUENCING DATA**
[54] **SYSTEMES ET PROCEDES POUR L'APPEL DE VARIANTS UTILISANT DES DONNEES DE SEQUENCAGE DE METHYLATION**
[72] SINGH, PRANAV PARMJIT, US
[72] CHANG, CHRISTOPHER, US
[72] MELTON, COLLIN, US
[72] VENN, OLIVER CLAUDE, US
[71] GRAIL, LLC, US
[85] 2022-08-10
[86] 2021-02-25 (PCT/US2021/019746)
[87] (WO2021/173885)
[30] US (62/983,404) 2020-02-28

[21] **3,167,634**
[13] A1
[25] EN
[54] **DEVICES WITH THIRD PARTY CONNECTIVITY**
[54] **DISPOSITIFS A CONNECTIVITE TIERCE**
[72] VOLDSUND, ARVE, NO
[71] ABLY MEDICAL AS, NO
[85] 2022-08-10
[86] 2021-02-12 (PCT/EP2021/053564)
[87] (WO2021/160869)
[30] GB (2001929.5) 2020-02-12

[21] **3,167,635**
[13] A1
[51] **Int.Cl. C03B 5/235 (2006.01) C03B 5/24 (2006.01) C03C 3/087 (2006.01)**
[25] EN
[54] **GLASS REDOX CONTROL IN SUBMERGED COMBUSTION MELTING**
[54] **COMMANDE D'OXYDO-REDUCTION DU VERRE DANS LA FUSION A COMBUSTION IMMERGEE**
[72] VEMPATI, UDAYA, US
[72] PINC, WILLIAM, US
[71] OWENS-BROCKWAY GLASS CONTAINER INC., US
[85] 2022-08-10
[86] 2021-02-11 (PCT/US2021/017654)
[87] (WO2021/163321)
[30] US (16/788,635) 2020-02-12

[21] **3,167,636**
[13] A1
[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/60 (2020.01) A24F 40/65 (2020.01)**
[25] EN
[54] **MONITORING THE COMPOSITION OF A PUFF FROM AN ELECTRONIC VAPORIZER**
[54] **SURVEILLANCE DE LA COMPOSITION D'UNE BOUFFEE A PARTIR D'UN VAPORISATEUR ELECTRONIQUE**
[72] BONASTRE LEIVA, MIQUEL, ES
[71] STEAM CURE S.L., ES
[85] 2022-08-10
[86] 2021-02-24 (PCT/EP2021/054618)
[87] (WO2021/170688)
[30] EP (20382131.9) 2020-02-25

[21] **3,167,637**
[13] A1
[51] **Int.Cl. C07K 14/725 (2006.01) A61K 47/62 (2017.01) A61K 47/68 (2017.01)**
[25] EN
[54] **STABILIZED TCR CONSTRUCTS AND METHODS OF USE**
[54] **CONSTRUCTIONS TCR STABILISEES ET PROCEDE D'UTILISATION**
[72] ESCOBAR-CABRERA, ERIC, CA
[72] FREIBURGER, LEE, CA
[72] PATTON, DANIEL T., CA
[72] PRESTA, LEONARD G., CA
[72] FARBER, PATRICK, CA
[72] STEVENS, CHARLES MICHAEL, CA
[71] ZYMEWORKS INC., CA
[85] 2022-08-10
[86] 2021-12-21 (PCT/CA2021/051855)
[87] (WO2022/133592)
[30] US (63/128,601) 2020-12-21

[21] **3,167,638**
[13] A1
[51] **Int.Cl. H04N 13/282 (2018.01) H04N 13/349 (2018.01) H04N 13/351 (2018.01)**
[25] EN
[54] **MULTIVIEW SYSTEM, METHOD AND DISPLAY FOR RENDERING MULTIVIEW CONTENT, AND VIEWER LOCALISATION SYSTEM, METHOD AND DEVICE THEREFOR**
[54] **SYSTEME MULTIVUE, PROCEDE ET DISPOSITIF D'AFFICHAGE POUR RENDU D'UN CONTENU MULTIVUE, ET SYSTEME, PROCEDE ET DISPOSITIF ASSOCIES DE LOCALISATION DE SPECTATEUR**
[72] ETIGSON, JOSEPH IVAR, CA
[72] MIHALI, RAUL, US
[72] CARTER, JEAN-MICHEL DELISLE, CA
[71] EVOLUTION OPTIKS LIMITED, BB
[85] 2022-08-10
[86] 2021-02-11 (PCT/IB2021/051135)
[87] (WO2021/165798)
[30] US (62/978,129) 2020-02-18
[30] US (62/978,160) 2020-02-18

[21] **3,167,642**
[13] A1
[51] **Int.Cl. G02B 27/01 (2006.01) G02B 30/27 (2020.01) G06F 3/01 (2006.01) G06K 9/00 (2022.01) G06T 5/00 (2006.01)**
[25] EN
[54] **LIGHT FIELD DEVICE, OPTICAL ABERRATION COMPENSATION OR SIMULATION RENDERING METHOD AND VISION TESTING SYSTEM USING SAME**
[54] **DISPOSITIF DE CHAMP LUMINEUX, PROCEDE DE COMPENSATION D'ABERRATION OPTIQUE OU DE RENDU DE SIMULATION ET SYSTEME DE TEST DE LA VISION UTILISANT CEUX-CI**
[72] ALTAL, FALEH MOHAMMAD FALEH, CA
[72] LUSSIER, GUILLAUME, CA
[72] GOC, MATEJ, CA
[72] GARCIA, YAIZA, CA
[71] EVOLUTION OPTIKS LIMITED, BB
[85] 2022-08-10
[86] 2021-03-05 (PCT/IB2021/051868)
[87] (WO2021/176416)
[30] US (16/810,143) 2020-03-05
[30] US (16/854,787) 2020-04-21
[30] IB (PCT/IB2020/057887) 2020-08-22
[30] US (PCT/US2020/058383) 2020-10-30

[21] **3,167,643**
[13] A1
[51] **Int.Cl. C22C 38/02 (2006.01) C21D 8/06 (2006.01) C22C 38/04 (2006.01) C22C 38/42 (2006.01) C22C 38/44 (2006.01) C22C 38/46 (2006.01) C22C 38/48 (2006.01)**
[25] EN
[54] **YIELD-RATIO-CONTROLLED STEEL AND MANUFACTURING METHOD THEREFOR**
[54] **ACIER A COEFFICIENT D'ELASTICITE REGULE ET SON PROCEDE DE FABRICATION**
[72] ZHAO, SIXIN, CN
[72] HUANG, ZONGZE, CN
[72] GAO, JIAQIANG, CN
[72] ZHANG, JUN, CN
[71] BAOSHAN IRON & STEEL CO., LTD., CN
[85] 2022-08-10
[86] 2021-02-07 (PCT/CN2021/075734)
[87] (WO2021/169779)
[30] CN (202010130904.1) 2020-02-28

[21] **3,167,645**
[13] A1
[51] **Int.Cl. B65B 63/08 (2006.01) B65B 11/04 (2006.01) B65B 41/12 (2006.01)**
[25] EN
[54] **LOAD WRAPPING APPARATUS AND METHOD UTILIZING PACKAGING MATERIAL WITH RECYCLED CONTENT**
[54] **APPAREIL DE BANDEROLAGE ET PROCEDE METTANT EN ?UVRE UN MATERIAU D'EMBALLAGE A BASE D'UN MATERIAU RECYCLE**
[72] LANCASTER, III PATRICK R., US
[72] GRUNER, CHRISTIAN MICHAEL, US
[71] LANTECH.COM, LLC, US
[85] 2022-08-10
[86] 2021-02-25 (PCT/US2021/019538)
[87] (WO2021/178189)
[30] US (62/984,514) 2020-03-03

[21] **3,167,646**
[13] A1
[51] **Int.Cl. C07D 495/14 (2006.01) A61K 31/437 (2006.01) A61K 31/444 (2006.01) A61K 31/4545 (2006.01)**
[25] EN
[54] **IMIDAZOTHIENOPYRIDINE COMPOUNDS AND METHODS OF USE**
[54] **COMPOSES D'IMIDAZOTHIENOPYRIDINE ET LEURS PROCEDES D'UTILISATION**
[72] GARNETT, GRAHAM ALBERT EDWIN, CA
[72] BRANT, MICHAEL G., CA
[72] PETERSEN, MARK EDMUND, CA
[71] ZYMEWORKS INC., CA
[85] 2022-08-10
[86] 2021-12-14 (PCT/CA2021/051809)
[87] (WO2022/126263)
[30] US (63/126,980) 2020-12-17

[21] **3,167,659**
[13] A1
[51] **Int.Cl. A63J 5/02 (2006.01)**
[25] EN
[54] **DRY ICE MACHINE FOR CREATING FOG EFFECT**
[54] **MACHINE FONCTIONNANT A LA GLACE CARBONIQUE POUR CREER UN EFFET DE BROUILLARD**
[72] LI, HONG-ZHI, TW
[71] SHEN YUN COLLECTIONS, INC., US
[85] 2022-08-10
[86] 2020-09-14 (PCT/US2020/050666)
[87] (WO2022/055505)

[21] **3,167,693**
[13] A1
[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **DEPLETION OF EXT1 EXPRESSION AND/OR ACTIVITY IMPROVES CELLULAR PRODUCTION OF BIOLOGICAL ENTITIES**
[54] **DEPLETION DE L'EXPRESSION ET/OU DE L'ACTIVITE EXT1 QUI AMELIORE LA PRODUCTION CELLULAIRE D'ENTITES BIOLOGIQUES**
[72] TWIZERE, JEAN-CLAUDE, BE
[72] KERSELIDOU, DESPOINA, BE
[71] UNIVERSITE DE LIEGE, BE
[85] 2022-08-11
[86] 2021-02-19 (PCT/EP2021/054190)
[87] (WO2021/165484)
[30] EP (20158875.3) 2020-02-21

[21] **3,167,694**
[13] A1
[51] **Int.Cl. G16B 20/00 (2019.01) G16H 50/20 (2018.01) G16H 50/70 (2018.01) G06N 20/00 (2019.01) G16B 40/00 (2019.01) G06N 3/08 (2006.01)**
[25] EN
[54] **PANOMIC GENOMIC PREVALENCE SCORE**
[54] **SCORE DE PREVALENCE GENOMIQUE PANOMIQUE**
[72] ABRAHAM, JIM, US
[72] SPETZLER, DAVID, US
[71] CARIS MPI, INC., US
[85] 2022-08-11
[86] 2021-02-16 (PCT/US2021/018263)
[87] (WO2021/163706)
[30] US (63/014,515) 2020-04-23
[30] US (63/052,363) 2020-07-15
[30] US (63/145,305) 2021-02-03

[21] **3,167,696**
[13] A1
[51] **Int.Cl. E01B 25/28 (2006.01) B62D 1/26 (2006.01) E01C 9/02 (2006.01)**
[25] FR
[54] **HIGHLY AUTOMATED MODE OF ROAD TRAFFIC**
[54] **MODE DE CIRCULATION ROUTIERE HAUTEMENT AUTOMATISEE**
[72] NOBILEAU, PHILIPPE, FR
[71] NOBILEAU, PHILIPPE, FR
[85] 2022-08-11
[86] 2021-02-12 (PCT/IB2021/051187)
[87] (WO2021/161247)
[30] FR (2001473) 2020-02-14

[21] **3,167,699**
[13] A1
[51] **Int.Cl. A61L 27/16 (2006.01) A61L 27/18 (2006.01) A61L 27/52 (2006.01)**
[25] EN
[54] **HYBRID HETEROGENEOUS HYDROGEL, METHOD FOR FABRICATION AND USE THEREOF AS NON-DEGRADABLE IN-SITU FILLER IMPLANT**
[54] **HYDROGEL HETEROGENE HYBRIDE, PROCEDE DE FABRICATION ET UTILISATION COMME IMPLANT DE COMBLEMENT NON-DEGRADABLE IN-SITU**
[72] WOERLY, STEPHANE, FR
[71] NEUROBIOMAT, FR
[85] 2022-08-11
[86] 2021-03-17 (PCT/EP2021/056753)
[87] (WO2021/185881)
[30] FR (FR2002619) 2020-03-17

[21] **3,167,714**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 10/06 (2012.01) G06Q 50/28 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MANAGING PACKAGED DANGEROUS GOODS TRANSPORT COMPLIANCE**
[54] **SYSTEME ET PROCEDE DE GESTION DE CONFORMITE DE TRANSPORT DE MARCHANDISES DANGEREUSES EMBALLEES**
[72] O'BRIEN, AMANDA, AU
[72] O'BRIEN, JOHN, AU
[71] PACKAGED DANGEROUS GOODS GUIDE PTY LTD, AU
[85] 2022-08-11
[86] 2020-04-09 (PCT/AU2020/050354)
[87] (WO2021/159163)
[30] AU (2020900427) 2020-02-14

[21] **3,167,720**
[13] A1
[51] **Int.Cl. C03B 5/235 (2006.01) C03C 3/087 (2006.01)**
[25] EN
[54] **FEED MATERIAL FOR PRODUCING COLORLESS GLASS USING SUBMERGED COMBUSTION MELTING**
[54] **MATIERE PREMIERE POUR LA PRODUCTION DE VERRE INCOLORE PAR MISE EN ?UVRE D'UNE FUSION PAR COMBUSTION AVEC IMMERSION**
[72] VEMPATI, UDAYA, US
[72] PINC, WILLIAM, US
[71] OWENS-BROCKWAY GLASS CONTAINER INC., US
[85] 2022-08-11
[86] 2021-02-11 (PCT/US2021/017578)
[87] (WO2021/163271)
[30] US (16/788,631) 2020-02-12

[21] **3,167,731**
[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01)**
[25] EN
[54] **HORIZONTAL CELLS**
[54] **CELLULES HORIZONTALES**
[72] RIZZI BRIGNOLI, MATTEO, GB
[72] OVERSBY-POWELL, KATE LOUISE, GB
[71] UCL BUSINESS LTD, GB
[85] 2022-08-11
[86] 2021-02-12 (PCT/GB2021/050358)
[87] (WO2021/161045)
[30] GB (2002073.1) 2020-02-14

[21] **3,167,734**
[13] A1
[51] **Int.Cl. B01D 53/04 (2006.01) B01D 53/06 (2006.01) B01D 53/14 (2006.01)**
[25] EN
[54] **ATMOSPHERIC WATER HARVESTER WITH HIGH EFFICIENCY, AND METHODS OF USING THEREOF**
[54] **DISPOSITIF DE RECUPERATION D'EAU ATMOSPHERIQUE A RENDEMENT ELEVE, ET PROCEDES D'UTILISATION DE CELLE-CI**
[72] SMITH, TABER HARDESTY, US
[72] KUO, DAVID S., US
[72] KAPUSTIN, EUGENE A., US
[72] MARCHON, BRUNO, US
[72] MANIAR, FAISAL SHAFIKURREHMAN, US
[71] WATER HARVESTING INC., US
[85] 2022-08-11
[86] 2021-02-02 (PCT/US2021/016261)
[87] (WO2021/162894)
[30] US (62/976,824) 2020-02-14
[30] US (63/053,428) 2020-07-17

[21] **3,167,735**
[13] A1
[51] **Int.Cl. C07C 303/06 (2006.01) C07C 309/05 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING ALKANE DISULFONIC ACID COMPOUND**
[54]
[72] MORIYAMA, HIROTAKE, JP
[72] MASUHARA, YUSAKU, JP
[71] SUMITOMO SEIKA CHEMICALS CO., LTD., JP
[85] 2022-08-11
[86] 2021-02-08 (PCT/JP2021/004489)
[87] (WO2021/161944)
[30] JP (2020-023223) 2020-02-14

[21] **3,167,738**
[13] A1
[51] **Int.Cl. C07D 327/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING METHYLENE DISULFONATE COMPOUND**
[54] **PROCEDE DE PRODUCTION D'UN COMPOSE DISULFONATE DE METHYLENE**
[72] ASHIBE, SEIYA, JP
[72] MORIYAMA, HIROTAKE, JP
[71] SUMITOMO SEIKA CHEMICALS CO., LTD., JP
[85] 2022-08-11
[86] 2021-02-08 (PCT/JP2021/004488)
[87] (WO2021/161943)
[30] JP (2020-023222) 2020-02-14

[21] **3,167,739**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 50/30 (2012.01) G06F 21/33 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR COORDINATING SECURE DELIVERY OF GOODS**
[54] **SYSTEMES ET PROCEDES DE COORDINATION DE LIVRAISON SECURISEE DE MARCHANDISES**
[72] BRIDGE, DAVID, CA
[72] HOFFMAN, RUSTON JEROEN, CA
[71] BRIDGE, DAVID, CA
[71] HOFFMAN, RUSTON JEROEN, CA
[85] 2022-08-11
[86] 2021-02-17 (PCT/CA2021/050169)
[87] (WO2021/163791)
[30] US (62/979,548) 2020-02-21

[21] **3,167,742**
[13] A1
[51] **Int.Cl. B23P 23/02 (2006.01) B08B 9/043 (2006.01) B23D 79/02 (2006.01) B23P 23/06 (2006.01) B24B 27/033 (2006.01) B24C 1/08 (2006.01)**
[25] EN
[54] **PIPE COATING REMOVAL APPARATUS**
[54] **APPAREIL D'ELIMINATION DE REVETEMENT DE TUYAU**
[72] CONWAY, SEAN, GB
[72] CONWAY, JAMES, GB
[71] DECOM ENGINEERING LTD, GB
[85] 2022-08-11
[86] 2021-02-11 (PCT/EP2021/025051)
[87] (WO2021/160345)
[30] GB (2001851.1) 2020-02-11

[21] **3,167,749**
[13] A1
[51] **Int.Cl. B60N 2/02 (2006.01) B60N 2/06 (2006.01) B60N 2/12 (2006.01) B60N 2/20 (2006.01) B60N 2/30 (2006.01)**
[25] EN
[54] **SEAT ASSEMBLY WITH POWER EASY ENTRY HAVING CONCENTRIC MOTION**
[54] **ENSEMBLE SIEGE DOTE D'UNE ENTREE FACILE A METTRE EN ?UVRE PRESENTANT UN MOUVEMENT CONCENTRIQUE**
[72] KAPUSKY, MICHAEL, US
[72] RUNDE, DAVID M., US
[72] ZIMMERMAN, RONALD A. II, US
[71] MAGNA SEATING INC., CA
[85] 2022-08-11
[86] 2021-02-15 (PCT/US2021/018092)
[87] (WO2021/163659)
[30] US (62/976,555) 2020-02-14

[21] **3,167,752**
[13] A1
[51] **Int.Cl. C12Q 1/00 (2006.01) G01N 27/30 (2006.01) G01N 33/00 (2006.01)**
[25] EN
[54] **ELECTRONIC CONDUCTANCE IN BIOELECTRONIC DEVICES AND SYSTEMS**
[54] **CONDUCTANCE ELECTRONIQUE DANS DES DISPOSITIFS ET DES SYSTEMES BIOELECTRONIQUES**
[72] LINDSAY, STUART, US
[72] SADAR, JOSHUA, US
[72] QING, QUAN, US
[71] ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, US
[85] 2022-08-11
[86] 2021-02-11 (PCT/US2021/017583)
[87] (WO2021/163275)
[30] US (62/975,748) 2020-02-12

[21] **3,167,755**
[13] A1
[51] **Int.Cl. G06Q 50/12 (2012.01) G06Q 10/06 (2012.01) G06Q 10/08 (2012.01)**
[25] EN
[54] **COORDINATED DELIVERY OF DINING EXPERIENCES**
[54] **LIVRAISON COORDONNEE D'EXPERIENCES DE DINER**
[72] GARCIA-BROSA, MARTIN, US
[71] GARCIA-BROSA, MARTIN, US
[85] 2022-08-11
[86] 2021-02-11 (PCT/US2021/017721)
[87] (WO2021/163376)
[30] US (62/972,762) 2020-02-11
[30] US (17/173,848) 2021-02-11
[30] US (17/173,983) 2021-02-11

[21] **3,167,760**
[13] A1
[51] **Int.Cl. C08L 23/12 (2006.01) C08J 3/22 (2006.01) C08K 5/053 (2006.01) C08L 5/04 (2006.01) C08L 5/08 (2006.01) C08L 71/02 (2006.01)**
[25] EN
[54] **BIOPOLYMER COMPOSITE AND ITS USE AND MANUFACTURE AS WELL AS BIOPOLYMER MASTERBATCH AND KIT FOR PRODUCING THE BIOPOLYMER COMPOSITE**
[54] **COMPOSITE BIOPOLYMERE ET SON UTILISATION ET SA FABRICATION AINSI QUE MELANGE MAITRE DE BIOPOLYMERE ET KIT DE PRODUCTION DU COMPOSITE BIOPOLYMERE**
[72] KHAN, AVIK, CA
[71] COPOL INTERNATIONAL LTD., CA
[85] 2022-08-11
[86] 2021-03-10 (PCT/CA2021/050317)
[87] (WO2021/189128)
[30] US (62/994,275) 2020-03-24

[21] **3,167,761**
[13] A1
[51] **Int.Cl. A61K 31/194 (2006.01) A61K 8/34 (2006.01) A61K 8/36 (2006.01) A61K 8/362 (2006.01) A61K 8/368 (2006.01) A61K 31/05 (2006.01) A61K 31/19 (2006.01) A61K 31/192 (2006.01) A61L 15/44 (2006.01) A61P 15/02 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **BACTERIOSTATIC COMPOSITION, PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **COMPOSITION BACTERIOSTATIQUE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] ZENG, ZHONGMING, CN
[71] SHENZHEN EULIKAN BIOTECHNOLOGY CO., LTD, CN
[71] SINGAPORE ZE&Z INTERNATIONAL PTE.LTD, SG
[85] 2022-08-11
[86] 2021-02-05 (PCT/CN2021/075655)
[87] (WO2021/160049)
[30] CN (202010101402.6) 2020-02-12
[30] CN (202011324292.6) 2020-11-15

[21] **3,167,764**
[13] A1
[51] **Int.Cl. G05D 1/02 (2020.01)**
[25] EN
[54] **VEHICLE AND MOBILE TERMINAL UTILIZED THEREFOR**
[54] **VEHICULE ET ET TERMINAL PORTABLE L'UTILISANT**
[72] ARIMUNE, NOBUYASU, JP
[71] YAMAHA MOTOR POWER PRODUCTS KABUSHIKI KAISHA, JP
[85] 2022-08-11
[86] 2020-12-25 (PCT/JP2020/048761)
[87] (WO2021/161678)
[30] JP (2020-021836) 2020-02-12

[21] **3,167,765**
[13] A1
[51] **Int.Cl. H04L 1/00 (2006.01) H04W 88/06 (2009.01) H04W 88/10 (2009.01) H04L 5/00 (2006.01)**
[25] EN
[54] **BACKWARD COMPATIBLE PHYSICAL LAYER AND SIGNALING FOR SATELLITE COMMUNICATION WITH MCS BASED INDICATION OF THE BURST FORMAT**
[54] **COUCHE PHYSIQUE ET SIGNALISATION RETROCOMPATIBLES POUR UNE COMMUNICATION PAR SATELLITE AVEC INDICATIONS DU FORMAT DE SALVE BASEES SUR MCS**
[72] JONG, JAMES J, US
[72] RAVISHANKAR, CHANNASANDRA, US
[72] WHITMARSH, WILLIAM, US
[72] BENAMMAR, NASSIR, US
[72] GURUMANI, SANTHARAM, US
[72] VALLE, PABLO, US
[72] LUO, JIANXIA, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2022-08-11
[86] 2021-02-23 (PCT/US2021/019256)
[87] (WO2021/173563)
[30] US (62/981,494) 2020-02-25

[21] **3,167,768**
[13] A1
[51] **Int.Cl. F24C 15/00 (2006.01) F24C 15/10 (2006.01)**
[25] EN
[54] **DEVICE FOR REINFORCING AND VENTILATING FURNITURE**
[54] **DISPOSITIF DE RENFORT ET VENTILATION POUR MEUBLE**
[72] MARTINEZ GARCIA, FRANCISCO JOSE, ES
[72] MARTINEZ GARCIA, FABIAN, ES
[71] FAMAR MUEBLES, S.L, ES
[85] 2022-08-11
[86] 2021-02-19 (PCT/ES2021/070122)
[87] (WO2021/165563)
[30] ES (P202030149) 2020-02-21

[21] **3,167,770**
[13] A1
[51] **Int.Cl. C07C 303/06 (2006.01) C07C 309/05 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING ALKANEDISULFONIC ACID COMPOUND**
[54] **PROCEDE DE PRODUCTION D'UN COMPOSE D'ACIDE ALCANEDISULFONIQUE**
[72] MASUHARA, YUSAKU, JP
[72] ASHIBE, SEIYA, JP
[71] SUMITOMO SEIKA CHEMICALS CO., LTD., JP
[85] 2022-08-11
[86] 2021-02-08 (PCT/JP2021/004487)
[87] (WO2021/161942)
[30] JP (2020-023220) 2020-02-14

[21] **3,167,771**
[13] A1
[51] **Int.Cl. A61K 31/566 (2006.01) A61K 31/57 (2006.01) A61P 5/30 (2006.01)**
[25] EN
[54] **PROGESTERONE COMBINATIONS**
[54] **COMBINAISONS A BASE DE PROGESTERONE**
[72] LUO, ZHONGHUI KATIE, US
[72] SAWYER, KENNETH I., US
[72] CHANG, WEI-WEI, US
[71] GLIA, LLC, US
[85] 2022-08-11
[86] 2021-02-11 (PCT/US2021/017553)
[87] (WO2021/163253)
[30] US (62/975,640) 2020-02-12

[21] **3,167,772**
[13] A1
[51] **Int.Cl. B60T 17/22 (2006.01)**
[25] FR
[54] **FILTER IDENTIFICATION IN A SYSTEM FOR CAPTURING BRAKING PARTICLES**
[54] **IDENTIFICATION DE FILTRE DANS UN SYSTEME DE CAPTATION DE PARTICULES DE FREINAGE**
[72] ADAMCZAK, LOIC, FR
[72] ROCCA-SERRA, CHRISTOPHE, FR
[71] TALLANO TECHNOLOGIE, FR
[85] 2022-08-11
[86] 2021-02-24 (PCT/EP2021/054607)
[87] (WO2021/170679)
[30] FR (2002024) 2020-02-28

[21] **3,167,774**
[13] A1
[51] **Int.Cl. B65D 5/72 (2006.01) B65D 83/00 (2006.01)**
[25] EN
[54] **EYEWEAR DISPENSING ASSEMBLY**
[54] **ENSEMBLE DE DISTRIBUTION D'ARTICLES DE LUNETTERIE**
[72] DEAN, MARSHALL R., US
[72] GHAFOURI-KIA, PEYMAUN, US
[72] LIEN, KHOA T., US
[72] DAMIANI, NICHOLAS, US
[71] O&M HALYARD, INC., US
[85] 2022-08-11
[86] 2021-02-11 (PCT/US2021/017537)
[87] (WO2021/163244)
[30] US (62/975,905) 2020-02-13
[30] US (63/085,295) 2020-09-30

[21] **3,167,778**
[13] A1
[51] **Int.Cl. B60R 11/02 (2006.01) G09F 9/33 (2006.01) G09F 9/37 (2006.01)**
[25] EN
[54] **VEHICLE MOUNTABLE HOLOGRAPHIC PROMOTING SYSTEM**
[54] **SYSTEME DE PROMOTION HOLOGRAPHIQUE POUVANT ETRE MONTE SUR UN VEHICULE**
[72] BASTIYALI, TARKAN, US
[71] BASTIYALI, TARKAN, US
[85] 2022-08-11
[86] 2021-07-16 (PCT/US2021/070895)
[87] (WO2022/020839)
[30] US (16/935,796) 2020-07-22

[21] **3,167,782**
[13] A1
[51] **Int.Cl. H04R 1/00 (2006.01) H04R 1/20 (2006.01) H04R 1/22 (2006.01) H04R 1/28 (2006.01)**
[25] EN
[54] **VOCAL ACOUSTIC ATTENUATION**
[54] **ATTENUATION ACOUSTIQUE VOCALE**
[72] D'ORAZIO, ANGELA, US
[72] BORKHOLDER, DAVID A., US
[72] FEATHERMAN, SCOTT J., US
[71] BLACKBOX BIOMETRICS, INC., US
[85] 2022-08-11
[86] 2021-02-11 (PCT/US2021/017673)
[87] (WO2021/163336)
[30] US (62/975,399) 2020-02-12

[21] **3,167,785**
[13] A1
[51] **Int.Cl. C07D 207/16 (2006.01) C07D 401/06 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 409/04 (2006.01) C07D 409/14 (2006.01) C07D 413/12 (2006.01) C07D 417/14 (2006.01) C07D 495/04 (2006.01) C07D 513/04 (2006.01)**
[25] EN
[54] **HETEROCYCLIC COMPOUNDS FOR MODULATING NR2F6**
[54] **COMPOSES HETEROCYCLIQUES POUR LA MODULATION DE NR2F6**
[72] PELLICCIARI, ROBERTO, IT
[71] TES PHARMA S.R.L., IT
[85] 2022-08-11
[86] 2021-02-24 (PCT/EP2021/054559)
[87] (WO2021/170658)
[30] US (62/981,418) 2020-02-25
[30] US (63/139,262) 2021-01-19

[21] **3,167,787**
[13] A1
[51] **Int.Cl. B60R 25/102 (2013.01) G08B 13/02 (2006.01) G08B 13/14 (2006.01) G08B 21/02 (2006.01)**
[25] FR
[54] **DEVICE FOR MONITORING A MOTOR VEHICLE, IN PARTICULAR A MOTORCYCLE, KIT AND METHOD BASED ON SAID DEVICE**
[54] **DISPOSITIF DE SURVEILLANCE POUR VEHICULE MOTORISE, EN PARTICULIER POUR MOTOCYCLETTE, KIT ET PROCEDE SUR LA BASE DE CE DISPOSITIF**
[72] CHAMBON, THOMAS, FR
[71] KIBLE, FR
[85] 2022-08-11
[86] 2021-04-02 (PCT/EP2021/058819)
[87] (WO2021/198522)
[30] FR (FR2003350) 2020-04-03

[21] **3,167,788**
[13] A1
[51] **Int.Cl. G02B 5/00 (2006.01) G02B 5/08 (2006.01) G02B 5/12 (2006.01) G02B 5/122 (2006.01) G02B 5/132 (2006.01) G02B 5/134 (2006.01)**
[25] EN
[54] **LOW PROFILE HOLLOW RETROREFLECTOR ASSEMBLY AND THEIR MOUNTING STRUCTURES AND MOUNTING METHODS**
[54] **ENSEMBLE RETROREFLECTEUR CREUX A PROFIL BAS, LEURS STRUCTURES DE MONTAGE ET PROCEDES DE MONTAGE**
[72] VISHNIA, ITAI, US
[71] PLX, INC., US
[85] 2022-08-11
[86] 2021-06-11 (PCT/US2021/036949)
[87] (WO2021/252854)
[30] US (16/899,402) 2020-06-11

[21] **3,167,789**
[13] A1
[51] **Int.Cl. G01C 21/34 (2006.01) G06Q 10/06 (2012.01)**
[25] EN
[54] **CONFIGURABLE SERVICE TIMES FOR ON-DEMAND TRANSPORTATION**
[54] **DUREES DE SERVICE CONFIGURABLES DE TRANSPORT A LA DEMANDE**
[72] BANTHIA, PRACHIE, US
[72] BAVAR, BRETT, US
[72] RENNER, KEVIN PATRICK, US
[71] GOBRANDS, INC., US
[85] 2022-08-11
[86] 2021-02-10 (PCT/US2021/017413)
[87] (WO2021/163160)
[30] US (62/977,081) 2020-02-14
[30] US (63/044,336) 2020-06-25

[21] **3,167,793**
[13] A1
[51] **Int.Cl. A47B 1/08 (2006.01) F16B 2/18 (2006.01) A47B 3/06 (2006.01)**
[25] EN
[54] **CLAMPING ARRANGEMENTS FOR ASSEMBLING FURNITURE**
[54] **AGENCEMENTS DE SERRAGE POUR L'ASSEMBLAGE DE MEUBLES**
[72] MILLER, JEFFREY F., US
[72] GOMEZ, ADRIAN, US
[71] POPPIN, INC., US
[85] 2022-08-11
[86] 2020-02-11 (PCT/US2020/017670)
[87] (WO2021/162677)

[21] **3,167,798**
[13] A1
[51] **Int.Cl. B25J 9/00 (2006.01) B25J 13/08 (2006.01) B25J 19/02 (2006.01) B25J 19/06 (2006.01) E04H 17/02 (2006.01) F16P 3/14 (2006.01)**
[25] EN
[54] **METHOD FOR DETECTING A CHANGE IN THE ENVIRONMENT OF A CABLE**
[54] **PROCEDE DE DETECTION DE LA MODIFICATION DE L'ENVIRONNEMENT D'UN CABLE**
[72] RASOLOFONDRAIBE, LANTO, FR
[72] POTTIER, BERNARD, FR
[72] ACOULON, SYLVAIN, FR
[71] UNIVERSITE DE REIMS CHAMPAGNE-ARDENNE, FR
[71] CETIM, FR
[85] 2022-08-11
[86] 2021-02-12 (PCT/EP2021/053550)
[87] (WO2021/160858)
[30] FR (FR2001454) 2020-02-13

[21] **3,167,800**
[13] A1
[51] **Int.Cl. H04W 36/00 (2009.01)**
[25] EN
[54] **PATH SWITCHING METHOD AND APPARATUS, PATH SWITCHING CONFIGURATION METHOD AND APPARATUS, COMMUNICATION NODE, AND MEDIUM**
[54] **PROCEDE ET APPAREIL DE COMMUTATION DE LIAISON, PROCEDE ET APPAREIL DE CONFIGURATION DE COMMUTATION DE LIAISON, N?UD DE COMMUNICATION, ET SUPPORT**
[72] WANG, MENGZHEN, CN
[72] CHEN, LIN, CN
[72] ZHANG, BOYUAN, CN
[71] ZTE CORPORATION, CN
[85] 2022-08-11
[86] 2020-12-02 (PCT/CN2020/133342)
[87] (WO2021/159823)
[30] CN (202010091485.5) 2020-02-13

[21] **3,167,802**
[13] A1
[51] **Int.Cl. F21V 21/15 (2006.01) G03B 21/14 (2006.01) G03B 21/54 (2006.01)**
[25] FR
[54] **MOTORIZED BRACKET FOR VIDEO PROJECTOR**
[54] **LYRE MOTORISEE POUR VIDEO PROJECTEUR**
[72] REBIFFE, MAURICE, FR
[71] XYZED, FR
[85] 2022-08-11
[86] 2021-02-24 (PCT/FR2021/050325)
[87] (WO2021/170958)
[30] FR (FR2001934) 2020-02-27

[21] **3,167,804**
[13] A1
[51] **Int.Cl. H04W 36/36 (2009.01) H04W 76/30 (2018.01)**
[25] EN
[54] **SWITCHING PROCESSING METHOD AND TERMINAL DEVICE**
[54] **PROCEDE DE TRAITEMENT DE COMMUTATION ET DISPOSITIF TERMINAL**
[72] YOU, XIN, CN
[72] LI, HAITAO, CN
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2022-08-11
[86] 2020-02-13 (PCT/CN2020/075020)
[87] (WO2021/159371)

[21] **3,167,806**
[13] A1
[51] **Int.Cl. G01R 19/25 (2006.01) G01R 15/14 (2006.01) G01R 23/20 (2006.01)**
[25] EN
[54] **POWER QUALITY ANALYSIS SYSTEM AND METHOD FOR MONITORING FROM THE OUTSIDE OF MULTICONDUCTOR CABLES**
[54] **SYSTEME ET PROCEDE D'ANALYSE DE QUALITE DE PUISSANCE POUR LA SURVEILLANCE DEPUIS L'EXTERIEUR DE CABLES MULTICONDUCTEURS**
[72] ESKEROD MADSEN, BO, DK
[71] REMONI A/S, DK
[85] 2022-08-11
[86] 2021-02-08 (PCT/DK2021/050039)
[87] (WO2021/160230)
[30] DK (PA 2020 00186) 2020-02-15

[21] **3,167,808**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 45/00 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **ANTI-CD137 ANTIGEN-BINDING MOLECULE FOR USE IN CANCER TREATMENT**
[54] **MOLECULE DE LIAISON A L'ANTIGENE ANTI-CD137 POUR UTILISATION DANS LE TRAITEMENT DU CANCER**
[72] SAKURAI, MIKA, JP
[72] NARITA, YOSHINORI, SG
[72] TANIGUCHI, KENJI, JP
[72] MIKAMI, HIROFUMI, JP
[72] HORIKAWA, SAYURI, JP
[72] UCHIKAWA, RYO, JP
[72] ONO, NATSUKI, JP
[72] HAMADA, KOKI, JP
[71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
[85] 2022-08-11
[86] 2021-02-10 (PCT/JP2021/004871)
[87] (WO2021/162020)
[30] JP (2020-021275) 2020-02-12
[30] JP (2020-140489) 2020-08-21

[21] **3,167,810**
[13] A1
[51] **Int.Cl. C09K 5/04 (2006.01)**
[25] EN
[54] **COMPOSITIONS**
[54] **COMPOSITIONS**
[72] LOW, ROBERT E., GB
[71] MEXICHEM FLUOR S.A. DE C.V., MX
[85] 2022-08-11
[86] 2021-02-12 (PCT/GB2021/050348)
[87] (WO2021/161037)
[30] GB (2002052.5) 2020-02-14

[21] **3,167,814**
[13] A1
[51] **Int.Cl. B60C 1/00 (2006.01) C08L 7/00 (2006.01) C08L 15/00 (2006.01)**
[25] FR
[54] **RUBBER COMPOSITION COMPRISING LOW MELTING POINT POLYETHYLENE**
[54] **COMPOSITION DE CAOUTCHOUC COMPRENANT DU POLYETHYLENE A BASSE TEMPERATURE DE FUSION**
[72] LIBERT, ROMAIN, FR
[72] WAECKERLE, NICOLAS, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2022-08-11
[86] 2021-04-06 (PCT/FR2021/050596)
[87] (WO2021/205108)
[30] FR (FR2003478) 2020-04-07

[21] **3,167,816**
[13] A1
[51] **Int.Cl. A61G 13/06 (2006.01) A61G 13/10 (2006.01) A61G 15/02 (2006.01)**
[25] EN
[54] **CHAIR FOR A TREATMENT UNIT, IN PARTICULAR BUT NOT EXCLUSIVELY, AN OPHTHALMIC UNIT**
[54] **FAUTEUIL POUR UNITE DE TRAITEMENT, EN PARTICULIER MAIS PAS EXCLUSIVEMENT, UNE UNITE OPHTALMIQUE**
[72] GIANNOZZI, FRANCO, IT
[71] COSTRUZIONI STRUMENTI OFTALMICI C.S.O. S.R.L., IT
[85] 2022-08-11
[86] 2021-02-16 (PCT/IB2021/051294)
[87] (WO2021/165829)
[30] IT (102020000003641) 2020-02-21

[21] **3,167,817**
[13] A1
[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/10 (2020.01) A24F 40/46 (2020.01) A24F 40/53 (2020.01) A24F 40/65 (2020.01) A24F 40/90 (2020.01)**
[25] EN
[54] **AEROSOL GENERATING DEVICE AND METHOD OF OPERATION THEREOF**
[54] **DISPOSITIF GENERATEUR D'AEROSOL ET PROCEDE ASSOCIE DE FONCTIONNEMENT**
[72] KIM, YONG HWAN, KR
[72] HAN, DAE NAM, KR
[72] YOON, SUNG WOOK, KR
[72] LEE, SEUNG WON, KR
[72] JANG, SEOK SU, KR
[71] KT&G CORPORATION, KR
[85] 2022-08-11
[86] 2021-11-01 (PCT/KR2021/015583)
[87] (WO2022/098020)
[30] KR (10-2020-0145531) 2020-11-03

[21] **3,167,822**
[13] A1
[51] **Int.Cl. B64F 1/305 (2006.01)**
[25] EN
[54] **METHOD FOR OPERATING A PASSENGER BOARDING BRIDGE OF AN AIRPORT**
[54] **PROCEDE DE MAN?UVRE D'UNE PASSERELLE D'EMBARQUEMENT DE PASSAGERS D'UN AEROPORT**
[72] PETRY, FREDERIK, DE
[71] TK AIRPORT SOLUTIONS, S.A., ES
[85] 2022-08-11
[86] 2021-01-21 (PCT/EP2021/051326)
[87] (WO2021/160402)
[30] EP (20 156 870.6) 2020-02-12

[21] **3,167,823**
[13] A1
[51] **Int.Cl. C25B 1/27 (2021.01) C25B 9/15 (2021.01) C01C 1/04 (2006.01) C25C 1/02 (2006.01)**
[25] EN
[54] **ELECTROCHEMICAL AMMONIA SYNTHESIS**
[54] **SYNTHESE ELECTROCHIMIQUE D'AMMONIAC**
[72] ANDERSEN, SUZANNE ZAMANY, DK
[72] CHORKENDORFF, IB, DK
[72] CHAKRABORTY, DEBASHISH, DK
[72] VESBORG, PETER CHRISTIAN KJÆRGAARD, DK
[72] KIBSGAARD, JAKOB, DK
[72] NORSKOV, JENS KEHLET, DK
[72] BUKAS, VANESSA JANE, DK
[71] DANMARKS TEKNISKE UNIVERSITET, DK
[85] 2022-08-11
[86] 2021-03-05 (PCT/EP2021/055565)
[87] (WO2021/176041)
[30] EP (20161234.8) 2020-03-05

[21] **3,167,824**
[13] A1
[51] **Int.Cl. C07K 14/435 (2006.01) C12P 21/02 (2006.01) D01D 5/06 (2006.01) D01D 5/24 (2006.01) D01F 4/00 (2006.01) D01F 4/02 (2006.01) D01F 6/68 (2006.01)**
[25] EN
[54] **RECOMBINANT SILK SOLIDS AND FILMS**
[54] **SOLIDES ET FILMS DE SOIE RECOMBINANTS**
[72] DAVIJANI, AMIR AHMAD BAKHTIARY, US
[72] ANDREWS, WILLIAM JAMES III, US
[71] BOLT THREADS, INC., US
[85] 2022-08-11
[86] 2021-02-12 (PCT/US2021/017871)
[87] (WO2021/163495)
[30] US (62/975,656) 2020-02-12

[21] **3,167,825**
[13] A1
[51] **Int.Cl. C09K 5/04 (2006.01)**
[25] EN
[54] **COMPOSITIONS**
[54] **COMPOSITIONS**
[72] LOW, ROBERT E., GB
[71] MEXICHEM FLUOR S.A. DE C.V., MX
[85] 2022-08-11
[86] 2021-02-12 (PCT/GB2021/050347)
[87] (WO2021/161036)
[30] GB (2002063.2) 2020-02-14

[21] **3,167,826**
[13] A1
[51] **Int.Cl. C12N 1/20 (2006.01) C12N 1/36 (2006.01) C12N 15/52 (2006.01)**
[25] EN
[54] **USE OF MICROBIAL CELL LINES TO MAXIMIZE ORGANIC ACID PRODUCTION**
[54] **UTILISATION DE LIGNEES CELLULAIRES MICROBIENNES POUR MAXIMISER LA PRODUCTION D'ACIDE ORGANIQUE**
[72] WHITE, DERRICK, US
[72] BROPHY, JAMES S., US
[72] PITCHAI, KRISHNAMOORTHY, US
[71] S&P INGREDIENT DEVELOPMENT, LLC, US
[85] 2022-08-11
[86] 2021-02-12 (PCT/US2021/017940)
[87] (WO2021/163548)
[30] US (62/977,087) 2020-02-14

[21] **3,167,827**
[13] A1
[51] **Int.Cl. C25B 1/04 (2021.01) C25B 15/027 (2021.01) C25B 15/02 (2021.01) C25B 15/08 (2006.01)**
[25] EN
[54] **METHOD AND PLANT FOR THE ELECTROCHEMICAL PRODUCTION OF OXYGEN**
[54] **PROCEDE ET INSTALLATION POUR LA PRODUCTION ELECTROCHIMIQUE D'OXYGENE**
[72] PESCHEL, ANDREAS, DE
[72] HENTSCHEL, BENJAMIN, DE
[71] LINDE GMBH, DE
[85] 2022-08-11
[86] 2020-11-19 (PCT/EP2020/025523)
[87] (WO2021/160235)
[30] DE (10 2020 000 936.0) 2020-02-14
[30] EP (20020168.9) 2020-04-09

[21] **3,167,828**
[13] A1
[51] **Int.Cl. C09K 5/04 (2006.01)**
[25] EN
[54] **COMPOSITIONS**
[54] **COMPOSITIONS**
[72] LOW, ROBERT E., GB
[71] MEXICHEM FLUOR S.A. DE C.V., MX
[85] 2022-08-11
[86] 2021-02-12 (PCT/GB2021/050346)
[87] (WO2021/161035)
[30] GB (2002048.3) 2020-02-14

[21] **3,167,829**
[13] A1
[51] **Int.Cl. A61K 31/713 (2006.01) A61K 35/12 (2015.01) A61K 48/00 (2006.01) A61P 25/00 (2006.01) C12N 15/85 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **COMPOSITIONS, METHODS, DEVICES, AND KITS FOR DETECTING THE NUMBER AND GENOMIC LOCATIONS OF POLYMORPHIC LINE-1 ELEMENTS IN AN INDIVIDUAL**
[54] **COMPOSITIONS, PROCEDES, DISPOSITIFS ET KITS POUR DETECTER LE NOMBRE ET LES EMPLACEMENTS GENOMIQUES D'ELEMENTS LINE-1 POLYMORPHES CHEZ UN INDIVIDU**
[72] PEREPELITSA, VICTORIA, US
[72] DEININGER, PRESCOTT, US
[71] ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND, US
[85] 2022-08-11
[86] 2021-03-01 (PCT/US2021/020346)
[87] (WO2021/174217)
[30] US (62/982,596) 2020-02-27

[21] **3,167,830**
[13] A1
[51] **Int.Cl. H04L 1/00 (2006.01)**
[25] EN
[54] **CONFIGURATION METHOD AND APPARATUS, RECEIVING METHOD AND APPARATUS, DEVICE, AND STORAGE MEDIUM**
[54] **PROCEDE ET APPAREIL DE CONFIGURATION, PROCEDE ET APPAREIL DE RECEPTION, DISPOSITIF, ET SUPPORT D'ENREGISTREMENT**
[72] BIAN, LUANJIAN, CN
[72] DAI, BO, CN
[72] HU, YOUJUN, CN
[72] LIU, KUN, CN
[72] YANG, WEIWEI, CN
[71] ZTE CORPORATION, CN
[85] 2022-08-11
[86] 2020-12-15 (PCT/CN2020/136444)
[87] (WO2021/159846)
[30] CN (202010089169.4) 2020-02-12

[21] **3,167,831**
[13] A1
[51] **Int.Cl. F16K 31/64 (2006.01) F03G 7/06 (2006.01)**
[25] EN
[54] **BIDIRECTIONAL THERMALLY ACTUATED COMPONENT FOR USE IN MEDICAL DEVICES**
[54] **COMPOSANT BIDIRECTIONNEL A COMMANDE THERMIQUE DESTINE A ETRE UTILISE DANS DES DISPOSITIFS MEDICAUX**
[72] MULLANEY, MICHAEL W., US
[72] MORAN, DANIEL, US
[71] TETRAVISION, LLC, US
[85] 2022-08-11
[86] 2021-02-16 (PCT/US2021/018201)
[87] (WO2021/163687)
[30] US (62/976,841) 2020-02-14

[21] **3,167,838**
[13] A1
[51] **Int.Cl. G01N 21/78 (2006.01) G01N 21/29 (2006.01)**
[25] EN
[54] **METHOD FOR ENHANCED DETERMINATION OF ANALYTE CONCENTRATION IN BODILY FLUID**
[54] **PROCEDE DE DETERMINATION AMELIOREE DE CONCENTRATION D'ANALYSTE DANS UN FLUIDE CORPOREL**
[72] LIMBURG, BERND, DE
[72] BERG, MAX, DE
[72] HAILER, FREDRIK, DE
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2022-08-11
[86] 2021-02-10 (PCT/EP2021/053119)
[87] (WO2021/160628)
[30] EP (20157055.3) 2020-02-13

[21] **3,167,841**
[13] A1
[51] **Int.Cl. H04B 10/112 (2013.01) H04B 10/40 (2013.01) H01S 5/183 (2006.01)**
[25] EN
[54] **METHODS, DEVICES, AND ARCHITECTURES FOR INTER-SPACECRAFT OPTICAL COMMUNICATION**
[54] **PROCEDES, DISPOSITIFS ET ARCHITECTURES POUR LA COMMUNICATION OPTIQUE ENTRE VAISSEAUX SPATIAUX**
[72] BLANCHETTE, GUILLAUME, CA
[71] SMITHS INTERCONNECT CANADA INC., CA
[85] 2022-08-11
[86] 2021-02-10 (PCT/CA2021/050144)
[87] (WO2021/159204)
[30] US (62/972,804) 2020-02-11

[21] **3,167,842**
[13] A1
[51] **Int.Cl. C12N 5/073 (2010.01) C12N 5/077 (2010.01) A23L 13/00 (2016.01)**
[25] EN
[54] **IN VITRO MEAT PRODUCTION**
[54] **PRODUCTION IN VITRO DE VIANDE**
[72] RONTGEN, MONIKA, DE
[71] FORSCHUNGSINSTITUT FUR NUTZTIERBIOLOGIE, DE
[85] 2022-08-11
[86] 2020-10-14 (PCT/EP2020/078935)
[87] (WO2021/160301)
[30] DE (10 2020 201 661.5) 2020-02-11

[21] **3,167,843**
[13] A1
[51] **Int.Cl. H01M 10/0565 (2010.01) H01M 10/0525 (2010.01) C08F 216/14 (2006.01) C08F 220/20 (2006.01) C08F 222/04 (2006.01)**
[25] EN
[54] **IN-SITU POLYMERIZED HYBRID POLYMER ELECTROLYTE FOR HIGH VOLTAGE LITHIUM BATTERIES**
[54] **ELECTROLYTE POLYMERE HYBRIDE POLYMERISE IN SITU POUR BATTERIES AU LITHIUM A HAUTE TENSION**
[72] JIANG, JINHUA, CN
[72] SU, SHASHA, CN
[72] FENG, JING, CN
[72] YANG, JUN, CN
[72] LU, HUICHAO, CN
[72] XU, ZHIXIN, CN
[72] LI, HONGPING, CN
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-08-11
[86] 2020-02-18 (PCT/CN2020/075672)
[87] (WO2021/163872)

[21] **3,167,847**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4375 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **DIHYDRONAPHTHYRIDINONE COMPOUND, AND PREPARATION METHOD THEREFOR AND MEDICAL USE THEREOF**
[54] **COMPOSE DE DIHYDRONAPHTYRIDINONE, SON PROCEDE DE PREPARATION ET SON UTILISATION MEDICALE**
[72] ZHOU, FUSHENG, CN
[72] XU, XIAOMING, CN
[72] ZHANG, LEITAO, CN
[72] LI, XIN, CN
[72] TANG, LILI, CN
[72] LAN, JIONG, CN
[71] GENFLEET THERAPEUTICS (SHANGHAI) INC., CN
[71] ZHEJIANG GENFLEET THERAPEUTICS CO., LTD., CN
[85] 2022-08-11
[86] 2021-02-09 (PCT/CN2021/076160)
[87] (WO2021/160109)
[30] CN (202010090252.3) 2020-02-13
[30] CN (202110070075.7) 2021-01-19

[21] **3,167,849**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01)**
[25] EN
[54] **ANTAGONIST OF PCSK9**
[54] **ANTAGONISTE DE PCSK9**
[72] MITCHELL, DANIEL, GB
[72] KHAN, MICHAEL, GB
[71] ARGONAUTE RNA LIMITED, GB
[85] 2022-08-11
[86] 2021-03-15 (PCT/EP2021/056540)
[87] (WO2021/185765)
[30] GB (2003756.0) 2020-03-16
[30] GB (2010276.0) 2020-07-03
[30] GB (2013998.6) 2020-09-07
[30] GB (2020553.0) 2020-12-23

[21] **3,167,850**
[13] A1
[51] **Int.Cl. A01K 67/027 (2006.01) A61K 35/76 (2015.01) A61K 48/00 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **GENE THERAPY TREATMENT**
[54] **TRAITEMENT PAR THERAPIE GENIQUE**
[72] AZZOUZ, MIMOUN, GB
[72] SCARROTT, JOSEPH, GB
[72] KARYKA, EVANGELIA, GB
[71] UNIVERSITY OF SHEFFIELD, GB
[85] 2022-08-11
[86] 2021-04-09 (PCT/EP2021/059354)
[87] (WO2021/205028)
[30] GB (2005321.1) 2020-04-09
[30] EP (PCT/EP2021/057996) 2021-03-26

[21] **3,167,854**
[13] A1
[51] **Int.Cl. C07K 16/46 (2006.01) A61K 39/395 (2006.01) C07K 16/00 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **HETERODIMERIC IGA FC CONSTRUCTS AND METHODS OF USE THEREOF**
[54] **CONSTRUCTIONS DE FC IGA HETERODIMERES ET LEURS PROCEDES D'UTILISATION**
[72] ESCOBAR-CABRERA, ERIC, CA
[72] HEINKEL, FLORIAN, CA
[72] SPRETER VON KREUDENSTEIN, THOMAS, CA
[72] VERSTRAETE, MEGHAN MARIE, CA
[72] DIXIT, SURJIT BHIMARAO, CA
[71] ZYMEWORKS INC., CA
[85] 2022-08-11
[86] 2021-12-03 (PCT/CA2021/051732)
[87] (WO2022/115963)
[30] US (63/121,180) 2020-12-03
[30] US (63/194,828) 2021-05-28

[21] **3,167,864**
[13] A1
[25] EN
[54] **PREDICTIVE PROVISIONING OF REMOTELY-STORED FILES**
[54] **FOURNITURE PREDICTIVE DE FICHIERS STOCKES A DISTANCE**
[72] SEUL, MATTHIAS, US
[72] KORCHEMNIY, ALEXANDR PAVLOVICH, US
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-08-12
[86] 2021-03-11 (PCT/IB2021/052018)
[87] (WO2021/186300)
[30] US (16/824,860) 2020-03-20

[21] **3,167,899**
[13] A1
[51] **Int.Cl. C07D 401/12 (2006.01) C07D 241/02 (2006.01) C07D 471/10 (2006.01)**
[25] EN
[54] **QUINOLYL PHOSPHINE OXIDE COMPOUND, AND COMPOSITION AND APPLICATION THEREOF**
[54] **COMPOSE D'OXYDE DE QUINOLYLE PHOSPHINE, ET COMPOSITION ET APPLICATION DE CELUI-CI**
[72] LIU, XIANGYONG, CN
[72] QIU, CHANGYONG, CN
[72] LIU, MENGQIANG, CN
[72] SONG, XIAODONG, CN
[72] SHEN, QICHAO, CN
[72] DU, GUOLONG, CN
[72] SHENG, HAITONG, CN
[72] DING, LIEMING, CN
[72] WANG, JIABING, CN
[71] BETTA PHARMACEUTICALS CO., LTD, CN
[85] 2022-08-12
[86] 2021-02-08 (PCT/CN2021/075994)
[87] (WO2021/160087)
[30] CN (202010094824.5) 2020-02-14
[30] CN (202110142695.7) 2021-02-02

[21] **3,167,900**
[13] A1
[51] **Int.Cl. E01H 5/08 (2006.01) E01H 5/06 (2006.01)**
[25] EN
[54] **SNOWBANK DECONSTRUCTING SYSTEM**
[54] **SYSTEME DE DECONSTRUCTION DE CONGERE**
[72] DUYS, ANTHONY M., US
[72] HARVEY, EDWARD, US
[72] WHITTEMORE, ALEX, US
[71] KLONDIKE ROBOTICS CORPORATION, US
[85] 2022-08-12
[86] 2021-02-19 (PCT/US2021/018755)
[87] (WO2021/168232)
[30] US (62/978,585) 2020-02-19

[21] **3,167,903**
[13] A1
[51] **Int.Cl. E21B 10/25 (2006.01)**
[25] EN
[54] **ROLLER CUTTING TOOL WITH IMPROVED SEALING**
[54] **OUTIL DE COUPE A MOLETTES A ETANCHEITE AMELIOREE**
[72] LOIKKANEN, JOONA, SE
[72] LINDBLOM, ANDERS, SE
[71] SANDVIK MINING AND CONSTRUCTION TOOLS AB, SE
[85] 2022-08-12
[86] 2021-02-17 (PCT/EP2021/053893)
[87] (WO2021/165323)
[30] EP (20158642.7) 2020-02-21

[21] **3,167,904**
[13] A1
[51] **Int.Cl. B32B 7/10 (2006.01) B32B 27/08 (2006.01) B32B 27/10 (2006.01) B32B 27/18 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01) B32B 29/00 (2006.01)**
[25] EN
[54] **ACRYLIC MULTILAYER FOIL WITH IMPROVED MECHANICAL PROPERTIES AND A HIGH WEATHERING RESISTANCE**
[54] **FEUILLE MULTICOUCHE ACRYLIQUE AYANT DES PROPRIETES MECANIQUES AMELIOREES ET UNE RESISTANCE ELEVEE AUX INTEMPERIES**
[72] SEYOUM, GHIRMAY, DE
[72] ENDERS, MICHAEL, DE
[72] GROOTHUES, HERBERT, DE
[72] GUENANTEN, CLAUDE, DE
[72] STRUWE, KIM, DE
[72] HARING, HELMUT, DE
[72] MUSCI, GIROLAMO, DE
[71] ROHM GMBH, DE
[85] 2022-08-12
[86] 2021-02-18 (PCT/EP2021/053998)
[87] (WO2021/165381)
[30] EP (20157833.3) 2020-02-18

[21] **3,167,907**
[13] A1
[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/36 (2006.01) B01D 63/02 (2006.01) B01D 63/04 (2006.01) B01D 71/26 (2006.01) B01D 71/36 (2006.01)**
[25] EN
[54] **DEVICE FOR REMOVING A GAS FROM AN AQUEOUS LIQUID**
[54] **DISPOSITIF POUR RETIRER UNE GAZ D'UN LIQUIDE AQUEUX**
[72] OMLOR, ALBERT, DE
[72] LEPPER, PHILIPP, DE
[71] UNIVERSITAET DES SAARLANDES, DE
[85] 2022-08-12
[86] 2021-02-17 (PCT/EP2021/053800)
[87] (WO2021/165277)
[30] DE (10 2020 104 117.9) 2020-02-18

[21] **3,167,909**
[13] A1
[51] **Int.Cl. F02B 29/00 (2006.01) F02M 26/00 (2016.01) F02D 21/00 (2006.01) F02D 21/04 (2006.01) F02D 21/08 (2006.01) F02D 23/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MANAGEMENT OF MULTIPLE EXHAUST GAS RECIRCULATION COOLERS**
[54] **SYSTEME ET PROCEDE DE GESTION DE MULTIPLES REFROIDISSEURS DE RECIRCULATION DE GAZ D'ECHAPPEMENT**
[72] NIX, LORNE EUGENE, US
[71] INNIO WAUKESHA GAS ENGINES INC., US
[85] 2022-08-12
[86] 2020-02-18 (PCT/US2020/018639)
[87] (WO2021/167593)

[21] **3,167,910**
[13] A1
[51] **Int.Cl. B32B 7/10 (2006.01) B32B 27/08 (2006.01) B32B 27/10 (2006.01) B32B 27/18 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01) B32B 29/00 (2006.01)**
[25] EN
[54] **ACRYLIC MULTILAYER FOIL WITH IMPROVED MECHANICAL PROPERTIES AND A HIGH WEATHERING RESISTANCE**
[54] **FEUILLE MULTICOUCHE ACRYLIQUE PRESENTANT DES PROPRIETES MECANIQUES AMELIOREES ET UNE RESISTANCE AUX INTEMPERIES ELEVEE**
[72] SEYOUM, GHIRMAY, DE
[72] ENDERS, MICHAEL, DE
[72] GROOTHUES, HERBERT, DE
[72] GUENANTEN, CLAUDE, DE
[72] STRUWE, KIM, DE
[72] HARING, HELMUT, DE
[72] MUSCI, GIROLAMO, DE
[71] ROHM GMBH, DE
[85] 2022-08-12
[86] 2021-02-18 (PCT/EP2021/053992)
[87] (WO2021/165379)
[30] EP (20157832.5) 2020-02-18

[21] **3,167,912**
[13] A1
[51] **Int.Cl. E04H 4/10 (2006.01) A63C 19/12 (2006.01) B60J 7/06 (2006.01)**
[25] EN
[54] **DEVICE FOR COVERING A SURFACE COMPRISING MEANS FOR LOCKING A COVER IN A GROOVE**
[54] **DISPOSITIF DE COUVERTURE D'UNE SURFACE COMPRENANT DES MOYENS DE VERROUILLAGE D'UNE COUVERTURE DANS UNE RAINURE**
[72] COENRAETS, BENOIT, BE
[71] BECOFLEX, BE
[85] 2022-08-12
[86] 2021-02-19 (PCT/EP2021/054152)
[87] (WO2021/170500)
[30] BE (BE20205124) 2020-02-26

[21] **3,167,913**
[13] A1
[51] **Int.Cl. A01N 1/02 (2006.01) A61M 1/02 (2006.01) F25D 3/00 (2006.01) F25D 17/06 (2006.01)**
[25] EN
[54] **DIFFERENTIAL AIR FLOW SYSTEM FOR PROMOTING BOTTOM-UP FREEZING OF BLOOD PLASMA IN COMPRESSED BAGS**
[54] **SYSTEME D'ECOULEMENT D'AIR DIFFERENTIEL POUR FAVORISER LA CONGELATION DE BAS EN HAUT DE PLASMA SANGUIN DANS DES POCHES COMPRIMEES**
[72] SILVESTRE DUARTE, ANDREIA FILIPA, PT
[72] SENA REGO, PEDRO GIL, PT
[72] DA SILVA COMPLETO, CARLOS DUARTE, PT
[71] SMARTFREEZ LDA, PT
[85] 2022-08-12
[86] 2021-04-28 (PCT/IB2021/053523)
[87] (WO2021/220186)
[30] PT (116327) 2020-04-30

[21] **3,167,917**
[13] A1
[51] **Int.Cl. A61M 1/34 (2006.01) A61M 1/36 (2006.01)**
[25] EN
[54] **MACHINE FOR THE EXTRACORPOREAL PHOTOPHERESIS OF A BIOLOGICAL FLUID**
[54] **MACHINE POUR LA PHOTOPHERESE EXTRACORPORELLE D'UN FLUIDE BIOLOGIQUE**
[72] PIERGENTINI, MARCO, IT
[71] PELHAM CRESCENT S.R.L., IT
[85] 2022-08-12
[86] 2021-02-16 (PCT/IB2021/051292)
[87] (WO2021/165827)
[30] IT (102020000003407) 2020-02-19

[21] **3,167,920**
[13] A1
[51] **Int.Cl. E01H 1/00 (2006.01) E01H 5/04 (2006.01) E01H 5/06 (2006.01) E01H 5/07 (2006.01) E01H 5/08 (2006.01) E01H 5/09 (2006.01) G01S 15/93 (2020.01)**
[25] EN
[54] **SNOWBANK DECONSTRUCTING SYSTEM**
[54] **SYSTEME DE DECONSTRUCTION DE BANC DE NEIGE**
[72] DUYS, ANTHONY M., US
[72] HARVEY, EDWARD, US
[72] WHITTEMORE, ALEX, US
[71] KLONDIKE ROBOTICS CORPORATION, US
[85] 2022-08-12
[86] 2021-02-19 (PCT/US2021/018742)
[87] (WO2021/168223)
[30] US (62/978,585) 2020-02-19

[21] **3,167,923**
[13] A1
[51] **Int.Cl. F16C 33/04 (2006.01) B64C 25/10 (2006.01) F16C 43/02 (2006.01)**
[25] EN
[54] **FIELD SERVICEABLE LANDING GEAR BUSHING**
[54] **BAGUE DE TRAIN D'ATTERRISSAGE UTILISABLE SUR LE TERRAIN**
[72] SCHMIDT, ROBERT KYLE, CA
[71] SAFRAN LANDING SYSTEMS CANADA INC., CA
[85] 2022-08-12
[86] 2021-02-18 (PCT/CA2021/050181)
[87] (WO2021/163801)
[30] US (16/795,302) 2020-02-19

[21] **3,167,925**
[13] A1
[51] **Int.Cl. E21B 25/16 (2006.01) E21B 47/024 (2006.01)**
[25] EN
[54] **TOOL, SYSTEM AND METHOD FOR ORIENTING CORE SAMPLES DURING BOREHOLE DRILLING**
[54] **OUTIL, SYSTEME ET PROCEDE D'ORIENTATION DE CAROTTES DANS LA PERFORATION DE PUITS**
[72] RAMIREZ OZUNA, ORLANDO RENE, ES
[71] STOCKHOLM PRECISION TOOLS, S.L, ES
[85] 2022-08-12
[86] 2021-03-01 (PCT/ES2021/070147)
[87] (WO2021/170896)
[30] ES (P202030169) 2020-02-28

[21] **3,167,926**
[13] A1
[51] **Int.Cl. G06F 11/36 (2006.01)**
[25] EN
[54] **CHAOS ENGINEERING TRIALS**
[54] **ESSAIS D'INGENIERIE DU CHAOS**
[72] SINGH, GARIMA, US
[72] SARDA, DEEPAK, US
[72] YU, YANG, US
[71] JPMORGAN CHASE BANK, N.A., US
[85] 2022-08-12
[86] 2021-02-22 (PCT/US2021/019008)
[87] (WO2021/168398)
[30] US (16/795,860) 2020-02-20

[21] **3,167,927**
[13] A1
[51] **Int.Cl. A61K 31/34 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **USE OF NUCLEOSIDE COMPOUND IN TREATMENT OF CORONAVIRUS INFECTIOUS DISEASES**
[54] **UTILISATION D'UN COMPOSE NUCLEOSIDE DANS LE TRAITEMENT DES MALADIES INFECTIEUSES A CORONAVIRUS**
[72] CHANG, JUNBIAO, CN
[72] DU, JINFA, CN
[72] JIANG, JIANDONG, CN
[72] LI, YUHUAN, CN
[71] HENAN GENUINE BIOTECH CO., LTD., CN
[85] 2022-08-12
[86] 2021-02-20 (PCT/CN2021/077010)
[87] (WO2021/169861)
[30] CN (202010125799.2) 2020-02-27

[21] **3,167,928**
[13] A1
[51] **Int.Cl. G06Q 20/00 (2012.01) H04M 3/42 (2006.01) H04M 3/51 (2006.01)**
[25] EN
[54] **A SYSTEM AND METHOD FOR SECURELY DELIVERING INFORMATION**
[54] **SYSTEME ET PROCEDE DE DISTRIBUTION SECURISEE D'INFORMATIONS**
[72] WESTLAKE, COLIN PHILIP, GB
[71] SYNTEC HOLDINGS LIMITED, GB
[85] 2022-08-12
[86] 2021-02-15 (PCT/GB2021/050367)
[87] (WO2021/161052)
[30] US (62/976,172) 2020-02-13

[21] **3,167,929**
[13] A1
[51] **Int.Cl. B01J 20/24 (2006.01)**
[25] EN
[54] **ABSORBENT MATERIAL**
[54] **MATERIAU ABSORBANT**
[72] WEBSTER, JOHN, AU
[72] ALDORF, HENRY, SG
[72] SUTCLIFFE, MATTHEW LESLIE, NZ
[71] PELLETON GLOBAL RENEWABLES LTD., VG
[71] ALDORF, HENRY, SG
[71] SUTCLIFFE, MATTHEW LESLIE, NZ
[85] 2022-08-12
[86] 2021-02-12 (PCT/NZ2021/050017)
[87] (WO2021/162559)
[30] AU (2020900430) 2020-02-14

[21] **3,167,932**
[13] A1
[51] **Int.Cl. B60W 30/085 (2012.01) B60W 30/095 (2012.01) B66F 3/35 (2006.01) B66F 7/28 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR AUTOMATICALLY DETERMINING THE MOVEMENT SPACE AND AUTONOMOUSLY OPTIMIZING THE DRIVING BEHAVIOR OF AN OPERATING AUTOMATED GUIDED VEHICLE COMPRISING LOADING IN DYNAMIC PRODUCTION AND LOGISTICS ENVIRONMENT**
[54] **DISPOSITIF ET PROCEDE DE DETERMINATION AUTOMATIQUE DE L'ESPACE DE DEPLACEMENT ET D'OPTIMISATION AUTONOME DU COMPORTEMENT DE MARCHE D'UN VEHICULE AUTOGUIDE EN ACTION AVEC CHARGEMENT DANS DES ENVIRONNEMENTS DE PRODUCTION ET DE LOGISTIQUE DYNAMIQUE**
[72] MARB, PHILIPP, DE
[71] GRENZEBACH MASCHINENBAU GMBH, DE
[85] 2022-08-12
[86] 2021-02-22 (PCT/DE2021/000034)
[87] (WO2021/170166)
[30] DE (10 2020 001 255.8) 2020-02-26

[21] **3,167,933**
[13] A1
[51] **Int.Cl. E21D 9/06 (2006.01) G01N 1/22 (2006.01)**
[25] EN
[54] **DEVICE FOR DETECTING A CONTENT OF CRITICAL GAS IN A CAVITY AND TUNNEL BORING MACHINE HAVING SUCH A DEVICE**
[54] **DISPOSITIF DE DETECTION D'UNE TENEUR EN GAZ CRITIQUE DANS UNE CAVITE ET TUNNELIER COMPORTANT UN TEL DISPOSITIF**
[72] BRANDT, JENS, DE
[72] MUNCHBACH, MARKUS, DE
[72] FEISST, ALBERT, DE
[71] HERRENKNECHT AKTIENGESELLSCHAFT, DE
[85] 2022-08-12
[86] 2021-02-25 (PCT/EP2021/054714)
[87] (WO2021/170733)
[30] DE (10 2020 105 345.2) 2020-02-28

[21] **3,167,934**
[13] A1
[51] **Int.Cl. A61B 18/14 (2006.01) A61B 17/32 (2006.01) A61B 18/00 (2006.01) A61B 17/3205 (2006.01) A61B 17/3207 (2006.01)**
[25] EN
[54] **EXCISION APPARATUS COMPRISING A HOUSING PROVIDED WITH A FIXATION PORTION**
[54] **APPAREIL D'EXCISION COMPRENANT UN BOITIER POURVU D'UNE PARTIE D'IMMOBILISATION**
[72] COEMAN, DIRK CARL LUC, BE
[71] COEMAN, DIRK CARL LUC, BE
[85] 2022-08-12
[86] 2021-02-17 (PCT/EP2021/053887)
[87] (WO2021/165319)
[30] NL (2024926) 2020-02-17

[21] **3,167,935**
[13] A1
[51] **Int.Cl. A01K 1/01 (2006.01)**
[25] EN
[54] **MANURE COLLECTING DEVICE, STABLE CLEANING DEVICE AND METHOD**
[54] **DISPOSITIF DE COLLECTE DE FUMIER, DISPOSITIF DE NETTOYAGE D'ECURIE ET PROCEDE**
[72] ELLING, ROB, NL
[71] JOZ B.V., NL
[85] 2022-08-12
[86] 2021-02-17 (PCT/NL2021/050102)
[87] (WO2021/172980)
[30] NL (2024993) 2020-02-25

[21] **3,167,938**
[13] A1
[51] **Int.Cl. A01D 33/04 (2006.01)**
[25] EN
[54] **METHOD FOR OPERATING A MACHINE FOR HARVESTING AND/OR SEPARATING ROOT CROPS, ASSOCIATED MACHINE AND ASSOCIATED COMPUTER PROGRAM PRODUCT**
[54] **PROCEDE POUR FAIRE FONCTIONNER UNE MACHINE POUR RECOLTER ET/OU SEPARER DES PLANTES SARCLEES, MACHINE CORRESPONDANTE ET PRODUIT-PROGRAMME INFORMATIQUE CORRESPONDANT**
[72] STROTHMANN, WOLFRAM, DE
[71] GRIMME LANDMASCHINENFABRIK GMBH & CO. KG, DE
[85] 2022-08-12
[86] 2021-02-09 (PCT/EP2021/053070)
[87] (WO2021/160607)
[30] DE (10 2020 103 941.7) 2020-02-14

[21] **3,167,939**
[13] A1
[51] **Int.Cl. G01N 21/03 (2006.01)**
[25] EN
[54] **PRECISION OPTICAL CHAMBER DEVICE, SYSTEM, AND METHOD OF MANUFACTURING SAME**
[54] **DISPOSITIF DE CHAMBRE OPTIQUE DE PRECISION, SYSTEME ET PROCEDE DE FABRICATION DE CELUI-CI**
[72] MACZUSZENKO, ANDRZEJ, CA
[72] HOLLOWAY, JAKE, CA
[72] GLAWDEL, TOMASZ, CA
[71] SCRYB INC., CA
[85] 2022-08-12
[86] 2021-02-12 (PCT/CA2021/050151)
[87] (WO2021/159210)
[30] US (62/975,750) 2020-02-12

[21] **3,167,941**
[13] A1
[51] **Int.Cl. A01N 25/22 (2006.01) A01N 59/06 (2006.01) A01N 59/20 (2006.01) A61L 2/18 (2006.01)**
[25] EN
[54] **COMPOSITIONS, KITS, METHODS AND USES FOR CLEANING, DISINFECTING, STERILIZING AND/OR TREATING**
[54] **COMPOSITIONS, KITS, PROCEDES ET UTILISATIONS POUR LE NETTOYAGE, LA DESINFECTION, LA STERILISATION ET/OU LE TRAITEMENT**
[72] ALIMI, HOJABR, US
[72] PRASAD, SRIDHAR GOVINDA, US
[72] SINHA, SANTOSH C., US
[71] COLLIDION, INC., US
[85] 2022-08-12
[86] 2020-06-14 (PCT/US2020/037666)
[87] (WO2021/162736)
[30] US (62/977,095) 2020-02-14

[21] **3,167,942**
[13] A1
[51] **Int.Cl. H02P 6/16 (2016.01) H02P 27/08 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETECTING A WINDING RESISTANCE AND WINDING TEMPERATURE OF AN ALTERNATING CURRENT ELECTRICAL MACHINE**
[54] **PROCEDES ET SYSTEMES DE DETECTION DE RESISTANCE D'ENROULEMENT ET DE TEMPERATURE D'ENROULEMENT D'UNE MACHINE ELECTRIQUE A COURANT ALTERNATIF**
[72] DESAI, TEJAS, US
[72] KLEINHARDT, ROBERT S., US
[72] YANG, YIDA, CA
[72] BRUNING, CLAUDIO, US
[71] AMERICAN AXLE & MANUFACTURING, INC., US
[85] 2022-08-12
[86] 2021-11-16 (PCT/US2021/059486)
[87] (WO2022/159164)
[30] US (63/140,579) 2021-01-22

[21] **3,167,943**
[13] A1
[51] **Int.Cl. H04W 4/06 (2009.01)**
[25] EN
[54] **COMMUNICATION METHOD AND DEVICE AND STORAGE MEDIUM**
[54] **PROCEDE ET DISPOSITIF DE COMMUNICATION ET SUPPORT DE STOCKAGE**
[72] DU, WEIQIANG, CN
[71] ZTE CORPORATION, CN
[85] 2022-08-12
[86] 2021-02-09 (PCT/CN2021/076153)
[87] (WO2021/160105)
[30] CN (202010091507.8) 2020-02-13

[21] **3,167,944**
[13] A1
[51] **Int.Cl. G01N 33/543 (2006.01) G01N 33/558 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR TREATING ISCHAEMIA AND ACUTE RESPIRATORY DISTRESS SYNDROMES**
[54] **DISPOSITIFS ET PROCEDES DE TRAITEMENT DE L'ISCHEMIE ET DES SYNDROMES DE DETRESSE RESPIRATOIRE AIGUE**
[72] PIKE, IAN HUGO, GB
[72] ELDER, TERRY, US
[72] LAROCHE, MAXIME, FR
[72] STANKOV, MILOVAN, FR
[71] GALAXY CCRO, INC., US
[85] 2022-08-12
[86] 2021-02-12 (PCT/US2021/018015)
[87] (WO2021/163608)
[30] US (62/977,133) 2020-02-14
[30] US (63/014,088) 2020-04-22

[21] **3,167,945**
[13] A1
[51] **Int.Cl. C02F 1/50 (2006.01) C02F 1/76 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR CONTROLLING BACTERIA IN BIOFILMS**
[54] **PROCEDES ET SYSTEMES DE LUTTE CONTRE DES BACTERIES DANS DES BIOFILMS**
[72] BARON, CHRISTOPHER D., US
[72] DOTSON, JEFFREY M., US
[72] COHEN, JON J., US
[71] CHEMTREAT, INC., US
[85] 2022-08-12
[86] 2020-12-28 (PCT/US2020/067167)
[87] (WO2021/211174)
[30] US (63/008,945) 2020-04-13

[21] **3,167,946**
[13] A1
[51] **Int.Cl. H02J 3/14 (2006.01)**
[25] EN
[54] **COMPUTING SYSTEM ARRANGEMENT BASED ON RAMPING CAPABILITIES**
[54] **AGENCEMENT DE SYSTEME INFORMATIQUE BASE SUR DES CAPACITES D'AUGMENTATION**
[72] MCNAMARA, MICHAEL T., US
[72] CLINE, RAYMOND E., JR., US
[71] LANCIUM LLC, US
[85] 2022-08-12
[86] 2021-02-26 (PCT/US2021/019875)
[87] (WO2021/173973)
[30] US (16/803,109) 2020-02-27

[21] **3,167,947**
[13] A1
[51] **Int.Cl. H04W 40/22 (2009.01)**
[25] EN
[54] **SIDELINK RELAY COMMUNICATION METHOD AND APPARATUS, DEVICE AND MEDIUM**
[54] **PROCEDE ET APPAREIL DE COMMUNICATION DE RELAIS DE LIAISON LATERALE, DISPOSITIF ET SUPPORT**
[72] WANG, MENGZHEN, CN
[72] CHEN, LIN, CN
[72] DU, WEIQIANG, CN
[71] ZTE CORPORATION, CN
[85] 2022-08-12
[86] 2021-01-13 (PCT/CN2021/071419)
[87] (WO2021/159906)
[30] CN (202010091525.6) 2020-02-13

[21] **3,167,948**
[13] A1
[51] **Int.Cl. B08B 3/02 (2006.01) B67C 3/00 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR ONLINE CLEANING OF BEVERAGE FILLERS**
[54] **PROCEDES ET SYSTEMES DE NETTOYAGE EN LIGNE DE REMPLISSEUSES DE BOISSONS**
[72] LOPICCOLO, DAVID, US
[72] MERINO, VICTOR, US
[72] BRUNDAGE, RICK, US
[71] CHEMTREAT, INC., US
[85] 2022-08-12
[86] 2020-12-30 (PCT/US2020/067508)
[87] (WO2021/201935)
[30] US (63/001,904) 2020-03-30

[21] **3,167,949**
[13] A1
[51] **Int.Cl. A61B 3/12 (2006.01) G06K 9/62 (2022.01) G06T 7/00 (2017.01)**
[25] EN
[54] **REAL-TIME DETECTION AND CORRECTION OF SHADOWING IN HYPERSPECTRAL RETINAL IMAGES**
[54] **DETECTION ET CORRECTION EN TEMPS REEL DE L'OMBRAGE DANS DES IMAGES RETINIENNES HYPERSPECTRALES**
[72] MAETSCHKE, STEFAN, AU
[72] FAUX, NOEL, AU
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-08-12
[86] 2021-04-28 (PCT/IB2021/053515)
[87] (WO2021/224726)
[30] US (16/866,889) 2020-05-05

[21] **3,167,950**
[13] A1
[51] **Int.Cl. C08F 232/08 (2006.01) C08F 8/04 (2006.01) C08F 212/08 (2006.01) C09J 123/02 (2006.01) C09J 123/08 (2006.01)**
[25] EN
[54] **HYDROCARBON RESIN AND PROCESS FOR PRODUCTION THEREOF**
[54] **RESINE HYDROCARBONEE ET PROCEDE DE PRODUCTION CORRESPONDANT**
[72] NAU, MANUEL, DE
[72] DREISEWERD, BJORN, DE
[72] LIU, JUN, DE
[72] FUHRMANN, EDGAR, DE
[72] HEITMANN, MATTHIAS, DE
[71] RAIN CARBON GERMANY GMBH, DE
[85] 2022-08-12
[86] 2021-02-12 (PCT/EP2021/053527)
[87] (WO2021/160844)
[30] EP (20157171.8) 2020-02-13

[21] **3,167,951**
[13] A1
[51] **Int.Cl. A47J 42/08 (2006.01)**
[25] EN
[54] **ADJUSTABLE SPICE MILL**
[54] **MOULIN A EPICES REGLABLE**
[72] FRIES, RUDOLF, AT
[71] JOMA KUNSTSTOFFTECHNIK GMBH, AT
[85] 2022-08-12
[86] 2021-04-09 (PCT/AT2021/060119)
[87] (WO2021/203156)
[30] AT (A 50308/2020) 2020-04-09

[21] **3,167,953**
[13] A1
[51] **Int.Cl. G06T 19/00 (2011.01) G09B 9/00 (2006.01) G09B 23/28 (2006.01) G09B 23/30 (2006.01) G09B 23/32 (2006.01)**
[25] EN
[54] **AIRWAY MANAGEMENT VIRTUAL REALITY TRAINING**
[54] **FORMATION EN REALITE VIRTUELLE A LA GESTION DES VOIES RESPIRATOIRES**
[72] HAREL, AMNON, IL
[72] FISHER, NIV, IL
[72] SYDORUK, KOSTYA, IL
[72] NOTKIN, LEONID, IL
[72] GARFINKEL, YISHAIYA, IL
[71] SIMBIONIX LTD., IL
[85] 2022-08-12
[86] 2021-02-04 (PCT/IL2021/050136)
[87] (WO2021/161302)
[30] US (62/976,587) 2020-02-14

[21] **3,167,954**
[13] A1
[51] **Int.Cl. H04L 9/08 (2006.01) G06F 21/57 (2013.01) G06N 20/00 (2019.01)**
[25] EN
[54] **QUANTUM COMPUTING MACHINE LEARNING FOR SECURITY THREATS**
[54] **APPRENTISSAGE DE MACHINE DE CALCUL QUANTIQUE POUR MENACES DE SECURITE**
[72] RYVER, KELLY NICOLE, US
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-08-12
[86] 2021-04-15 (PCT/EP2021/059812)
[87] (WO2021/223974)
[30] US (16/867,586) 2020-05-06

[21] **3,167,955**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2012.01) G06Q 10/06 (2012.01) G06Q 30/00 (2012.01)**
[25] EN
[54] **INTENT ANALYSIS FOR CALL CENTER RESPONSE GENERATION**
[54] **ANALYSE D'INTENTION POUR GENERER UNE REPONSE D'UN CENTRE D'APPEL**
[72] CLODORE, GLEN, US
[72] SMITH, MATTHEW, US
[71] LIVEPERSON, INC., US
[85] 2022-08-12
[86] 2021-02-24 (PCT/US2021/019327)
[87] (WO2021/173611)
[30] US (62/981,466) 2020-02-25

[21] **3,167,956**
[13] A1
[51] **Int.Cl. C02F 1/28 (2006.01)**
[25] EN
[54] **METHODS OF TREATING WATER WITH POWDER ACTIVATED CARBON TO REDUCE ORGANIC MATTER CONTENT**
[54] **PROCEDES DE TRAITEMENT DE L'EAU AVEC DU CHARBON ACTIF EN POUDRE POUR REDUIRE LA TENEUR EN MATIERE ORGANIQUE**
[72] GODWIN, DOUGLAS A., US
[71] CHEMTREAT, INC, US
[85] 2022-08-12
[86] 2020-12-30 (PCT/US2020/067496)
[87] (WO2021/183204)
[30] US (62/987,052) 2020-03-09

[21] **3,167,957**
[13] A1
[51] **Int.Cl. B09B 3/00 (2022.01) B22F 1/00 (2022.01) B22F 9/08 (2006.01) C22B 1/02 (2006.01) C22B 3/06 (2006.01) C22B 3/08 (2006.01) C22B 3/26 (2006.01) C22B 3/42 (2006.01) C22B 3/44 (2006.01) C22B 5/04 (2006.01) C22B 7/00 (2006.01) C22B 15/00 (2006.01) C22B 19/20 (2006.01) C22B 23/00 (2006.01) H01M 10/54 (2006.01)**
[25] EN
[54] **METHOD FOR TREATING ALLOY**
[54] **PROCEDE DE TRAITEMENT D'ALLIAGE**
[72] TAKENOUCHI, HIROSHI, JP
[72] ASANO, SATOSHI, JP
[72] HEGURI, SHIN-ICHI, JP
[72] SHOUJI, HIROFUMI, JP
[72] KUDOU, KEIJI, JP
[72] MATSUOKA, ITSUMI, JP
[72] SANJO, SHOTA, JP
[72] MATSUGI, TAKUMI, JP
[71] SUMITOMO METAL MINING CO., LTD., JP
[85] 2022-08-12
[86] 2021-02-10 (PCT/JP2021/004903)
[87] (WO2021/166755)
[30] JP (2020-028091) 2020-02-21
[30] JP (2020-044434) 2020-03-13
[30] JP (2020-044435) 2020-03-13
[30] JP (2020-046616) 2020-03-17
[30] JP (2020-046617) 2020-03-17
[30] JP (2021-004484) 2021-01-14

[21] **3,167,958**
[13] A1
[51] **Int.Cl. C22B 9/02 (2006.01) C22B 9/04 (2006.01) F27B 5/04 (2006.01) F27B 17/02 (2006.01) A61L 27/02 (2006.01) C22C 1/00 (2006.01)**
[25] EN
[54] **SIMULTANEOUS DISTILLATION AND ALLOYING**
[54] **DISTILLATION ET ALLIAGE SIMULTANES**
[72] WEGMANN, CHRISTIAN, CH
[72] LOFFLER, JORG, CH
[72] GONZENBACH, URS, CH
[72] BERGER, LEOPOLD, CH
[72] STURZENEGGER, PHILIP, CH
[71] ETH ZURICH, CH
[85] 2022-08-12
[86] 2021-02-11 (PCT/EP2021/053337)
[87] (WO2021/165139)
[30] EP (20157650.1) 2020-02-17

[21] **3,167,960**
[13] A1
[51] **Int.Cl. G01C 21/16 (2006.01) G01C 7/06 (2006.01) G01S 17/89 (2020.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR UNDERGROUND MINING ENVIRONMENT POSITIONING OF A MOVING ENTITY**
[54] **SYSTEME ET PROCEDE DE POSITIONNEMENT D'ENVIRONNEMENT MINIER SOUTERRAIN D'UNE ENTITE MOBILE**
[72] BRASSARD, JEAN, CA
[72] ARSENAULT, ANDRE, CA
[72] MILLER, FABIEN, CA
[72] GRENIER, ALEXANDRE, CA
[71] INTELLIGENCE INDUSTRIELLE NEMESIS INC., CA
[85] 2022-08-12
[86] 2021-02-12 (PCT/CA2021/050152)
[87] (WO2021/159211)
[30] US (62/976,876) 2020-02-14

[21] **3,167,961**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01) B01L 1/00 (2006.01) B01L 9/00 (2006.01)**
[25] EN
[54] **SAMPLE CARTRIDGES**
[54] **CARTOUCHES D'ECHANTILLON**
[72] HINSCH, ANDREW, US
[71] HESKA CORPORATION, US
[85] 2022-08-12
[86] 2021-02-16 (PCT/US2021/018250)
[87] (WO2021/163702)

[21] **3,167,962**
[13] A1
[51] **Int.Cl. A61K 35/76 (2015.01) A61K 47/69 (2017.01) A61L 27/20 (2006.01) A61L 27/38 (2006.01) A61L 27/44 (2006.01) A61L 27/54 (2006.01) A61P 17/02 (2006.01) A61P 31/04 (2006.01) C12N 7/00 (2006.01)**
[25] EN
[54] **BACTERIOPHAGE COCKTAIL-CONTAINING HYDROGEL COMPOSITIONS AND METHODS OF PRODUCTION AND USE THEREOF**
[54] **COMPOSITIONS D'HYDROGEL CONTENANT UN COCKTAIL DE BACTERIOPHAGES ET LEURS PROCEDES DE PRODUCTION ET D'UTILISATION**
[72] COLTON, WILLIAM, US
[71] COLTON, WILLIAM, US
[85] 2022-08-12
[86] 2021-02-15 (PCT/US2021/018113)
[87] (WO2021/163663)
[30] US (62/976,663) 2020-02-14

[21] **3,167,963**
[13] A1
[25] EN
[54] **FENCING NON-RESPONDING PORTS IN A NETWORK FABRIC**
[54] **RETENTION DE PORTS SANS REPONSE DANS UNE STRUCTURE DE RESEAU**
[72] GAVRILOV, CONSTANTINE, IL
[72] KOREN, ELI, IL
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-08-12
[86] 2021-04-27 (PCT/IB2021/053435)
[87] (WO2021/224717)
[30] US (16/870,598) 2020-05-08

[21] **3,167,965**
[13] A1
[51] **Int.Cl. B65H 75/44 (2006.01) B60P 3/035 (2006.01)**
[25] EN
[54] **PIPE DEPLOYMENT REEL ADAPTER SHAFT SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES D'ARBRE D'ADAPTATEUR D'ENROULEUR DE DEPLOIEMENT DE TUYAU**
[72] ALVES, GERALDO SENDY, US
[72] LEGER, JOHN PAUL, US
[72] THETHY, JAGTAR SINGH, US
[71] TRINITY BAY EQUIPMENT HOLDINGS, LLC, US
[85] 2022-08-12
[86] 2021-02-11 (PCT/US2021/017707)
[87] (WO2021/163363)
[30] US (16/791,691) 2020-02-14

[21] **3,167,966**
[13] A1
[51] **Int.Cl. H04N 19/14 (2014.01) H04N 19/154 (2014.01) H04N 19/70 (2014.01) H04N 19/85 (2014.01)**
[25] EN
[54] **VIDEO ENCODING COMPLEXITY MEASURE SYSTEM**
[54] **SYSTEME DE MESURE DE COMPLEXITE DE CODAGE VIDEO**
[72] GOSWAMI, KALYAN, CA
[72] BADR, AHMED, CA
[72] ZENG, KAI, CA
[71] SSIMWAVE INC., CA
[85] 2022-08-12
[86] 2021-02-12 (PCT/IB2021/051150)
[87] (WO2021/161227)
[30] US (62/976,182) 2020-02-13

[21] **3,167,969**
[13] A1
[51] **Int.Cl. B22D 41/13 (2006.01)**
[25] EN
[54] **ROBOTIZED LADLE TURRET SYSTEM**
[54] **SYSTEME DE TOURELLE DE POCHE ROBOTISE**
[72] DELSINE, DAMIEN, BE
[72] RENARD, JEAN-LUC, BE
[72] FAN, XINGQI, CN
[71] VESUVIUS GROUP, S.A., BE
[85] 2022-08-12
[86] 2021-02-17 (PCT/EP2021/053854)
[87] (WO2021/165299)
[30] EP (20157812.7) 2020-02-18

[21] **3,167,970**
[13] A1
[51] **Int.Cl. B01J 8/22 (2006.01)**
[25] EN
[54] **GAS AND LIQUID DISTRIBUTOR FOR BUBBLE COLUMN REACTOR**
[54] **DISTRIBUTEUR DE GAZ ET DE LIQUIDE POUR REACTEUR A COLONNE A BULLES**
[72] RAJA, KANUPARTHY NAGA, IN
[72] BOJJA, RAMACHANDRA RAO, IN
[72] SHARMA, BHAVESH, IN
[71] HINDUSTAN PETROLEUM CORPORATION LIMITED, IN
[85] 2022-08-12
[86] 2021-02-12 (PCT/IN2021/050138)
[87] (WO2021/161344)
[30] IN (202021006163) 2020-02-12

[21] **3,167,971**
[13] A1
[51] **Int.Cl. H04N 21/242 (2011.01) H04N 21/24 (2011.01) H04N 21/643 (2011.01)**
[25] EN
[54] **DISTRIBUTED MEASUREMENT OF LATENCY AND SYNCHRONIZATION DELAY BETWEEN AUDIO/VIDEO STREAMS**
[54] **MESURE DISTRIBUEE DE LATENCE ET DE RETARD DE SYNCHRONISATION ENTRE FLUX AUDIO/VIDEO**
[72] OLEKAS, CHRISTOPHER VYTAUTAS, CA
[72] WORMSBECKER, IAN, CA
[72] BADR, AHMED, CA
[72] MOHAN, JOSHUA VIJAY, CA
[71] SSIMWAVE INC., CA
[85] 2022-08-12
[86] 2021-02-11 (PCT/IB2021/051149)
[87] (WO2021/161226)
[30] US (62/976,169) 2020-02-13
[30] US (63/055,946) 2020-07-24

[21] **3,167,972**
[13] A1
[51] **Int.Cl. A01K 61/54 (2017.01)**
[25] EN
[54] **IMMUNE-ENHANCED AQUACULTURE**
[54] **AQUACULTURE A IMMUNITE AMELIOREE**
[72] LOWENTHAL, ASSAF, IL
[72] LITCHI, TOVIT, IL
[72] ROZENBERG, YTZHAK, IL
[71] ATLANTIUM TECHNOLOGIES LTD, IL
[85] 2022-08-12
[86] 2021-02-15 (PCT/IL2021/050176)
[87] (WO2021/165957)
[30] US (62/977,423) 2020-02-17

[21] **3,167,973**
[13] A1
[51] **Int.Cl. F16L 13/14 (2006.01) F16L 21/02 (2006.01)**
[25] EN
[54] **WEDGED PROTRUSION PROFILE FITTING SEAL SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES D'ETANCHEITE A RACCORDS A PROFILS ANGULEUX DE SAILLIE**
[72] HEGLER, MATTHEW ALLEN, US
[72] SCOGGINS, CHRISTOPHER GROVER, US
[71] TRINITY BAY EQUIPMENT HOLDINGS, LLC, US
[85] 2022-08-12
[86] 2021-02-12 (PCT/US2021/018000)
[87] (WO2021/163596)
[30] US (16/791,698) 2020-02-14

[21] **3,167,974**
[13] A1
[51] **Int.Cl. F21V 33/00 (2006.01) G06Q 90/00 (2006.01) G08B 5/36 (2006.01) G08B 5/38 (2006.01)**
[25] EN
[54] **VISUAL SIGNALING SYSTEM**
[54] **SYSTEME DE SIGNALISATION VISUELLE**
[72] DAY, MICHAEL JOSEPH, US
[72] SANDEFUR, MICHAEL LYNN, US
[71] SAFEEVAC, INC., US
[85] 2022-08-12
[86] 2021-02-19 (PCT/US2021/018779)
[87] (WO2021/168249)
[30] US (62/978,486) 2020-02-19

[21] **3,167,975**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/24 (2006.01)**
[25] EN
[54] **FORMULATIONS OF HUMAN ANTI-TSLP ANTIBODIES AND METHODS OF USING THE SAME**
[54] **FORMULATIONS D'ANTICORPS ANTI-TSLP HUMAINS ET LEURS PROCEDES D'UTILISATION**
[72] ROSCHEN, LAUREN, US
[72] LITOWSKI, JENNIFER, US
[71] AMGEN, INC., US
[85] 2022-08-12
[86] 2021-02-18 (PCT/US2021/018561)
[87] (WO2021/168100)
[30] US (62/978,201) 2020-02-18

[21] **3,167,976**
[13] A1
[51] **Int.Cl. B61B 13/10 (2006.01)**
[25] EN
[54] **WHEELED VEHICLE STATION DOCKING USING A KNEELING LANDING GEAR SYSTEM**
[54] **AMARRAGE EN STATION D'UN VEHICULE A ROUES A L'AIDE D'UN SYSTEME DE TRAIN D'ATTERRISSAGE A ROTULE**
[72] KLIM, GRAEME PETER ARTHUR, FR
[72] ELLIS, ANDREW MICHAEL, CA
[72] CHENG, JUSTIN GUANG YUANG, CA
[71] SAFRAN LANDING SYSTEMS, FR
[71] SAFRAN LANDING SYSTEMS CANADA INC., CA
[85] 2022-08-12
[86] 2021-02-09 (PCT/IB2021/051032)
[87] (WO2021/161165)
[30] US (16/791,903) 2020-02-14

[21] **3,167,977**
[13] A1
[51] **Int.Cl. B01J 8/22 (2006.01)**
[25] EN
[54] **GAS DISTRIBUTOR FOR BUBBLE COLUMN REACTOR**
[54] **DISTRIBUTEUR DE GAZ POUR REACTEUR A COLONNE A BULLES**
[72] RAJA, KANUPARTHY NAGA, IN
[72] BOJJA, RAMACHANDRA RAO, IN
[72] SHARMA, BHAVESH, IN
[71] HINDUSTAN PETROLEUM CORPORATION LIMITED, IN
[85] 2022-08-12
[86] 2021-02-12 (PCT/IN2021/050137)
[87] (WO2021/161343)
[30] IN (202021006164) 2020-02-12

[21] **3,167,978**
[13] A1
[51] **Int.Cl. A61K 9/16 (2006.01) A61K 38/26 (2006.01) A61K 47/12 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) A61P 9/10 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION COMPRISING SUSTAINED-RELEASE MICROSPHERES INCLUDING GLP-1 ANALOGUE OR PHARMACEUTICALLY ACCEPTABLE SALT THEREOF**
[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT DES MICROSPHERES A LIBERATION PROLONGEE COMPORTANT UN ANALOGUE DE GLP -1 OU UN SEL PHARMACEUTIQUEMENT ACCEPTABLE DE CELUI-CI**
[72] NA, YONGHA, KR
[72] WON, DONGPIL, KR
[72] KIM, YEJIN, KR
[72] LEE, JUHAN, KR
[72] CHOE, HEEKYOUNG, KR
[72] SEOL, EUNYOUNG, KR
[72] LEE, HEEYONG, KR
[71] G2GBIO, INC., KR
[85] 2022-08-12
[86] 2021-02-15 (PCT/KR2021/001928)
[87] (WO2021/162532)
[30] KR (10-2020-0018640) 2020-02-14

[21] **3,167,979**
[13] A1
[51] **Int.Cl. A61M 1/00 (2006.01) A61M 1/06 (2006.01)**
[25] EN
[54] **BREASTPUMP UNIT AND METHOD OF OPERATION**
[54] **ENSEMBLE TIRE-LAIT ET PROCEDE DE FONCTIONNEMENT**
[72] HONER, SEBASTIAN, CH
[72] PAWLOWSKI, JAKUB PIOTR, CH
[71] MEDELA HOLDING AG, CH
[85] 2022-08-12
[86] 2021-02-19 (PCT/IB2021/051409)
[87] (WO2021/165892)
[30] AU (2020900501) 2020-02-21

[21] **3,167,980**
[13] A1
[51] **Int.Cl. F16D 66/02 (2006.01) B60T 13/74 (2006.01) B60T 17/22 (2006.01) B64C 25/44 (2006.01)**
[25] EN
[54] **AIRCRAFT BRAKE WEAR OPTIMIZATION**
[54] **OPTIMISATION D'USURES DE FREINS D'AERONEFS**
[72] BURKHALTER, KURT, US
[72] HILL, JAMES L., US
[72] MALONE, JR. JAMES M., US
[72] EVERHARD, KENNETH D., US
[71] MEGGITT AIRCRAFT BRAKING SYSTEMS CORPORATION, US
[85] 2022-08-12
[86] 2021-02-12 (PCT/US2021/017761)
[87] (WO2021/163409)
[30] US (62/975,824) 2020-02-13

[21] **3,167,981**
[13] A1
[51] **Int.Cl. G06F 16/38 (2019.01)**
[25] EN
[54] **OFFLOADING STATISTICS COLLECTION**
[54] **COLLECTE DE STATISTIQUES DE DECHARGEMENT**
[72] BUTTERSTEIN, DENNIS, DE
[72] BENKE, OLIVER, DE
[72] BERGMANN, TOBIAS, DE
[72] BEIER, FELIX, DE
[72] PURCELL, TERENCE, US
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-08-12
[86] 2021-02-24 (PCT/IB2021/051531)
[87] (WO2021/191702)
[30] US (16/827,891) 2020-03-24

[21] **3,167,982**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01)**
[25] FR
[54] **REACTOR HAVING AN OPTIMIZED LIGHTING DEVICE**
[54] **REACTEUR A DISPOSITIF D'ECLAIRAGE OPTIMISE**
[72] BOUDIER, PHILIPPE, FR
[72] GODART, FRANCOIS, FR
[71] FERMENTALG, FR
[85] 2022-08-12
[86] 2021-02-12 (PCT/EP2021/053401)
[87] (WO2021/160776)
[30] FR (FR2001492) 2020-02-14

[21] **3,167,983**
[13] A1
[51] **Int.Cl. A61M 1/00 (2006.01)**
[25] EN
[54] **BREAST SHIELD**
[54] **TETERELLE**
[72] HONER, SEBASTIAN, CH
[72] MITOULAS, LEON, CH
[71] MEDELA HOLDING AG, CH
[85] 2022-08-12
[86] 2021-02-19 (PCT/IB2021/051410)
[87] (WO2021/165893)
[30] AU (2020900501) 2020-02-21
[30] AU (2020902945) 2020-08-18

[21] **3,167,984**
[13] A1
[51] **Int.Cl. C25B 1/04 (2021.01)**
[25] EN
[54] **INERTIAL HYDRODYNAMIC PUMP AND WAVE ENGINE**
[54] **POMPE HYDRODYNAMIQUE INERTIELLE ET MOTEUR A VAGUES**
[72] SHELDON-COULSON, GARTH ALEXANDER, US
[72] MOFFAT, BRIAN LEE, US
[72] PLACE, DANIEL WILLIAM, US
[72] THORSON, IVAR LEE, US
[71] LONE GULL HOLDINGS, LTD., US
[85] 2022-08-12
[86] 2021-02-18 (PCT/US2021/018596)
[87] (WO2021/168125)
[30] US (62/978,299) 2020-02-19
[30] US (63/026,670) 2020-05-18
[30] US (63/060,145) 2020-08-03

[21] **3,167,985**
[13] A1
[51] **Int.Cl. H04N 5/262 (2006.01) H04N 21/845 (2011.01) H04N 5/76 (2006.01)**
[25] EN
[54] **VIDEO DUBBING METHOD. DEVICE, APPARATUS, AND STORAGE MEDIUM**
[54] **PROCEDE DE DOUBLAGE DE VIDEO, DISPOSITIF, APPAREIL ET SUPPORT DE STOCKAGE**
[72] ZENG, YAN, CN
[72] ZHAO, CHEN, CN
[72] ZHENG, QIFAN, CN
[72] FU, PINGFEI, CN
[71] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN
[85] 2022-08-12
[86] 2021-07-22 (PCT/CN2021/107817)
[87] (WO2022/017451)
[30] CN (202010728035.2) 2020-07-23

[21] **3,167,986**
[13] A1
[51] **Int.Cl. G01N 11/08 (2006.01)**
[25] EN
[54] **DETERMINING RHEOLOGICAL PROPERTIES OF FLUIDS**
[54] **DETERMINATION DE PROPRIETES RHEOLOGIQUES DE FLUIDES**
[72] CAYEUX, ERIC, NO
[71] NORCE INNOVATION AS, NO
[85] 2022-08-12
[86] 2021-02-24 (PCT/NO2021/050048)
[87] (WO2021/172999)
[30] NO (20200215) 2020-02-24

[21] **3,167,987**
[13] A1
[51] **Int.Cl. H04L 45/24 (2022.01) H04L 45/302 (2022.01)**
[25] EN
[54] **NETWORK LAYER CHANNEL BONDING**
[54] **LIAISON DE CANAL DE COUCHE DE RESEAU**
[72] BUTEHORN, MATTHEW, US
[72] REGUNATHAN, MURALI, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2022-08-12
[86] 2021-02-12 (PCT/US2021/018013)
[87] (WO2021/163607)
[30] US (16/792,017) 2020-02-14

[21] **3,167,988**
[13] A1
[51] **Int.Cl. A61F 13/15 (2006.01) A61F 13/494 (2006.01)**
[25] EN
[54] **AN ELASTIC COMPOSITE STRUCTURE FOR AN ABSORBENT SANITARY PRODUCT AND AN APPARATUS AND METHOD FOR MAKING SAID ELASTIC COMPOSITE STRUCTURE**
[54] **STRUCTURE COMPOSITE ELASTIQUE POUR PRODUIT SANITAIRE ABSORBANT ET APPAREIL ET PROCEDE DE FABRICATION DE LADITE STRUCTURE COMPOSITE ELASTIQUE**
[72] VELDMAN, CORY D., US
[72] SCHUETTE, DAVID E., US
[72] FRITZ, JEFFREY W., US
[72] RABE, BRENTON A., US
[71] CURT G. JOA, INC., US
[85] 2022-08-12
[86] 2021-02-16 (PCT/US2021/070155)
[87] (WO2021/168473)
[30] US (62/977,438) 2020-02-17
[30] US (62/977,453) 2020-02-17

[21] **3,167,989**
[13] A1
[51] **Int.Cl. A47C 27/06 (2006.01) A47C 27/07 (2006.01) A47C 27/15 (2006.01) A47C 27/20 (2006.01)**
[25] EN
[54] **COMPOSITE MATTRESSES WITH AIR CHAMBERS**
[54] **MATELAS COMPOSITES DOTES DE CHAMBRES A AIR**
[72] HARRIS, BROCK KEITH, US
[72] GRUTTA, JAMES T., US
[72] PEARSON, BRETT, US
[71] PURPLE INNOVATION, LLC, US
[85] 2022-08-12
[86] 2021-02-16 (PCT/US2021/018173)
[87] (WO2021/163682)

[21] **3,167,990**
[13] A1
[51] **Int.Cl. A61G 17/007 (2006.01) A61G 17/04 (2006.01) A01G 24/25 (2018.01) A01G 24/28 (2018.01) A01G 24/44 (2018.01)**
[25] FR
[54] **ANIMAL COFFIN WITH REMOVABLE MEMORIAL CONTAINER COMPRISING A PRE-SOWING COMPOSITION**
[54] **CERCUEIL POUR ANIMAUX AVEC CONTENANT MEMORIAL AMOVIBLE COMPRENANT UNE COMPOSITION PRE-ENSEMENCEE**
[72] IRIART, LAURA JULIE, FR
[72] TRICHELIEU, ARTHUR ANTOINE, FR
[71] NIDOO, FR
[85] 2022-08-12
[86] 2021-02-25 (PCT/EP2021/054684)
[87] (WO2021/170720)
[30] FR (FR20 01886) 2020-02-26
[30] FR (FR20 01888) 2020-02-26

[21] **3,167,991**
[13] A1
[51] **Int.Cl. B05B 1/02 (2006.01) B29C 49/00 (2006.01) B29C 49/06 (2006.01) B29C 49/58 (2006.01)**
[25] EN
[54] **CONTAINER PREFORM AND FORMING/FILLING NOZZLE EACH CONFIGURED TO PROVIDE A SEAL THEREBETWEEN**
[54] **PREFORME DE RECIPIENT ET BUSE DE FORMAGE/REMPLISSAGE, CHACUNE ETANT CONCUE POUR FOURNIR UN JOINT ENTRE ELLES**
[72] CARPENTER, GREGORY, US
[72] MAKI, KIRK EDWARD, US
[72] MCGURK, JONATHAN, US
[71] LIQUIFORM GROUP LLC, US
[85] 2022-08-12
[86] 2020-02-14 (PCT/US2020/018231)
[87] (WO2021/162701)

[21] **3,167,992**
[13] A1
[51] **Int.Cl. G06F 11/14 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR NARROWING THE SCOPE OF A PROBLEM WHEN A MODEM IS BRICKED**
[54] **SYSTEMES ET PROCEDES POUR REDUIRE LA PORTEE D'UN PROBLEME LORSQU'UN MODEM EST BRIQUE**
[72] CAI, LINZHOU, CN
[72] YE, YONGQIANG, CN
[72] ZUO, YONGQIN, CN
[72] TAN, SHENXIA, CN
[72] ZHANG, DONGTING, CN
[71] ARRIS ENTERPRISES LLC, US
[85] 2022-08-12
[86] 2020-02-17 (PCT/CN2020/075491)
[87] (WO2021/163829)

[21] **3,167,993**
[13] A1
[51] **Int.Cl. C12N 5/074 (2010.01) C12N 5/078 (2010.01) C12N 5/095 (2010.01)**
[25] EN
[54] **PLATELET-DERIVED MITOCHONDRIA TREATMENT AND METHOD OF GENERATING MULTIPOTENT CELLS**
[54] **TRAITEMENT DES MITOCHONDRIES DERIVEES DES PLAQUETTES ET PROCEDE DE GENERATION DE CELLULES MULTIPOTENTES**
[72] ZHAO, YONG, US
[72] YU, HAIBO, CN
[72] HU, WEI, US
[72] SONG, XIANG, US
[71] HACKENSACK MERIDIAN HEALTH, INC., US
[85] 2022-08-12
[86] 2021-02-16 (PCT/US2021/018228)
[87] (WO2021/163697)
[30] US (62/976,830) 2020-02-16

[21] **3,167,995**
[13] A1
[51] **Int.Cl. G01R 33/035 (2006.01) G01R 33/00 (2006.01) G01R 33/12 (2006.01) H01L 39/02 (2006.01) H01L 39/22 (2006.01) H03K 19/195 (2006.01)**
[25] EN
[54] **SUPERCONDUCTING CURRENT CONTROL SYSTEM**
[54] **SYSTEME DE COMMANDE DE COURANT SUPRACONDUCTEUR**
[72] STRAND, JOEL D., US
[71] NORTHROP GRUMMAN SYSTEMS CORPORATION, US
[85] 2022-08-12
[86] 2021-03-11 (PCT/US2021/021947)
[87] (WO2021/242356)
[30] US (16/849,595) 2020-04-15

[21] **3,167,996**
[13] A1
[51] **Int.Cl. H01M 10/613 (2014.01) H01M 50/289 (2021.01) H01M 50/291 (2021.01)**
[25] EN
[54] **BATTERY AND RELATED APPARATUS THEREOF, AND PREPARATION METHOD AND PREPARATION DEVICE**
[54] **BATTERIE ET APPAREIL ASSOCIE A CELLE-CI, PROCEDE DE PREPARATION ET DISPOSITIF DE PREPARATION**
[72] GU, MINGGUANG, CN
[72] CHEN, XIAOBO, CN
[72] LI, YAO, CN
[72] LI, XIANDA, CN
[72] YUE, JINRU, CN
[72] YANG, PIAOPIAO, CN
[72] HU, LU, CN
[71] CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED, CN
[85] 2022-08-12
[86] 2021-03-23 (PCT/CN2021/082481)
[87] (WO2022/007435)
[30] CN (PCT/CN2020/101443) 2020-07-10

[21] **3,167,997**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/40 (2006.01)**
[25] EN
[54] **CONTINUOUS REACTOR WITH CROSS FLOW FILTRATION LOOP**
[54] **REACTEUR CONTINU A BOUCLE DE FILTRATION A COURANT TRANSVERSAL**
[72] NORDVANG, RUNE THORBJORN, GB
[71] DAIRY CREST LIMITED, GB
[85] 2022-08-12
[86] 2021-03-08 (PCT/GB2021/050567)
[87] (WO2021/186148)
[30] GB (2004097.8) 2020-03-20

[21] **3,167,998**
[13] A1
[51] **Int.Cl. H01L 31/05 (2014.01) H01L 31/032 (2006.01) H01L 51/46 (2006.01)**
[25] EN
[54] **HIGH PERFORMANCE PEROVSKITE SOLAR CELLS, MODULE DESIGN, AND MANUFACTURING PROCESSES THEREFOR**
[54] **CELLULES SOLAIRES PEROVSKITE A HAUTE PERFORMANCE, CONCEPTION DE MODULE ET PROCEDES DE FABRICATION ASSOCIES**
[72] MARCH, SAMUEL, CA
[72] VALITOVA, IRINA, CA
[72] GEORGE, DANE, CA
[72] RAMACHANDRAN, AJAN, CA
[71] RAYLEIGH SOLAR TECH INC., CA
[85] 2022-08-12
[86] 2021-02-12 (PCT/CA2021/050155)
[87] (3167998)

[21] **3,167,999**
[13] A1
[51] **Int.Cl. C07D 239/70 (2006.01) C07D 401/14 (2006.01) C07D 487/08 (2006.01)**
[25] EN
[54] **FUSED BICYCLIC DERIVATIVE, PREPARATION METHOD THEREFOR, AND PHARMACEUTICAL USE THEREOF**
[54] **DERIVE BICYCLIQUE FUSIONNE, SON PROCEDE DE PREPARATION ET SON UTILISATION PHARMACEUTIQUE**
[72] LI, XIN, CN
[72] ZHANG, ZHIGAO, CN
[72] CHEN, YANG, CN
[72] LI, ZHIHAO, CN
[72] HE, FENG, CN
[72] TAO, WEIKANG, CN
[71] JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., CN
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN
[85] 2022-08-12
[86] 2021-03-16 (PCT/CN2021/081033)
[87] (WO2021/185238)
[30] CN (202010185224.X) 2020-03-17
[30] CN (202010418453.1) 2020-05-18
[30] CN (202110241159.2) 2021-03-04

[21] **3,168,000**
[13] A1
[51] **Int.Cl. A63H 33/08 (2006.01)**
[25] EN
[54] **CONSTRUCTION SYSTEM WITH LINKABLE ELEMENTS AND METHOD THEREFOR**
[54] **SYSTEME DE CONSTRUCTION AVEC ELEMENTS POUVANT ETRE RELIES ET PROCEDE ASSOCIE**
[72] MACQUARRIE, STUART, CA
[71] STUDIOWEAPON MUSIC & DESIGN LTD., CA
[85] 2022-08-12
[86] 2021-02-18 (PCT/CA2021/050180)
[87] (WO2021/163800)
[30] US (62/979,016) 2020-02-20

[21] **3,168,001**
[13] A1
[51] **Int.Cl. A61K 38/26 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01) C07K 14/605 (2006.01)**
[25] EN
[54] **GLP-1R AND GCGR AGONISTS, FORMULATIONS, AND METHODS OF USE**
[54] **AGONISTES DE GLP-1R ET GCGR, FORMULATIONS ET PROCEDES D'UTILISATION**
[72] NESTOR, JOHN, US
[72] KRISHNAN, VYJAYANTHI, US
[71] SPITFIRE PHARMA LLC, US
[85] 2022-08-12
[86] 2021-02-21 (PCT/US2021/018947)
[87] (WO2021/168386)
[30] US (62/980,093) 2020-02-21
[30] US (63/122,108) 2020-12-07
[30] US (63/133,540) 2021-01-04

[21] **3,168,007**
[13] A1
[51] **Int.Cl. A61M 11/00 (2006.01) A61M 15/00 (2006.01) B05B 9/08 (2006.01)**
[25] EN
[54] **INHALATION DEVICE SYSTEM**
[54] **SYSTEME DE DISPOSITIF D'INHALATION**
[72] RAWERT, JURGEN, DE
[72] DUDLEY, STEVEN, GB
[71] SOFTHALE NV, BE
[85] 2022-08-15
[86] 2021-03-29 (PCT/EP2021/058102)
[87] (WO2021/198151)
[30] EP (20167228.4) 2020-03-31
[30] US (63/002,812) 2020-03-31

[21] **3,168,020**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) C12N 5/079 (2010.01) A61B 5/107 (2006.01)**
[25] EN
[54] **METHODS OF THERAPEUTIC PROGNOSTICATION**
[54] **PROCEDES DE PRONOSTIC THERAPEUTIQUE**
[72] COHEN SOLAL, TALIA, IL
[72] LAIFENFELD, DAPHNA, IL
[72] NITZAN, EREZ, IL
[72] AVIOR, YISHAI, IL
[71] GENETIKAPLUS LTD., IL
[85] 2022-08-15
[86] 2021-02-16 (PCT/IL2021/050183)
[87] (WO2021/161323)
[30] US (62/977,308) 2020-02-16

[21] **3,168,021**
[13] A1
[51] **Int.Cl. B64C 25/36 (2006.01) F16D 11/14 (2006.01)**
[25] EN
[54] **CLUTCH ASSEMBLY FOR AUTONOMOUS TAXIING OF AIRCRAFT**
[54] **ENSEMBLE EMBRAYAGE POUR ROULAGE AUTONOME D'AERONEF**
[72] SCHMIDT, ROBERT KYLE, CA
[72] AMBERG, STEVE, CA
[72] BROWN, JASON, CA
[71] SAFRAN LANDING SYSTEMS CANADA INC., CA
[85] 2022-08-15
[86] 2021-02-17 (PCT/CA2021/050173)
[87] (WO2021/163793)
[30] US (16/793,898) 2020-02-18

[21] **3,168,024**
[13] A1
[51] **Int.Cl. F16C 19/26 (2006.01) F16C 19/52 (2006.01) F16C 33/58 (2006.01) F16C 33/66 (2006.01) F16N 7/38 (2006.01) F16N 29/02 (2006.01) G01N 29/032 (2006.01) G01N 29/14 (2006.01) G01N 29/36 (2006.01) G01N 29/44 (2006.01)**
[25] EN
[54] **A METHOD AND SYSTEM FOR LUBRICATING ONE OR MORE ROTARY BEARINGS**
[54] **PROCEDE ET SYSTEME DE LUBRIFICATION D'UN OU PLUSIEURS PALIERS ROTATIFS**
[72] TROBRADOVIC, HARIS, HR
[72] MACHADO, CHARLES, FR
[71] SDT INTERNATIONAL SA-NV, BE
[85] 2022-08-15
[86] 2021-02-25 (PCT/EP2021/054738)
[87] (WO2021/180485)
[30] EP (20162123.2) 2020-03-10

[21] **3,168,025**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) C07K 14/005 (2006.01) C12N 7/00 (2006.01)**
[25] EN
[54] **NOVEL ERYTHROPARVOVIRUS ASSOCIATED WITH RESPIRATORY DISTRESS IN EQUINE**
[54] **NOUVEAU ERYTHROPARVOVIRUS ASSOCIE A LA DETRESSE RESPIRATOIRE CHEZ LES EQUIDES**
[72] DE GROOF, AD, NL
[72] VAN DER HOEK, CORNELIA MARIA, NL
[72] DEIJS, MARTIN, NL
[72] MAANEN VAN, CORNELIS, NL
[71] INTERVET INTERNATIONAL B.V., NL
[85] 2022-08-15
[86] 2021-02-22 (PCT/EP2021/054329)
[87] (WO2021/165533)
[30] EP (20158648.4) 2020-02-21

[21] **3,168,026**
[13] A1
[51] **Int.Cl. A61K 31/343 (2006.01) A61P 43/00 (2006.01) C07D 307/94 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING AGE-RELATED DISEASES AND PREMATURE AGING DISORDERS**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE MALADIES LIEES A L'AGE ET DE TROUBLES DU VIEILLISSEMENT PREMATURE**
[72] ACKERMANN, MICHAEL FRIEDRICH, US
[72] ABERNATHY, KELLY J., US
[72] RIGDON, GREGORY COOKSEY, US
[72] BUTTS, STEPHEN E., US
[71] SIRTSEI PHARMACEUTICALS, INC., US
[85] 2022-08-15
[86] 2021-04-01 (PCT/US2021/025295)
[87] (WO2021/202822)
[30] US (63/003,977) 2020-04-02

[21] **3,168,027**
[13] A1
[51] **Int.Cl. A61M 11/00 (2006.01) A61M 15/00 (2006.01)**
[25] EN
[54] **AEROSOL DELIVERY OF AT LEAST TWO LIQUID COMPOSITIONS**
[54] **DISTRIBUTION D'AEROSOL D'AU MOINS DEUX COMPOSITIONS LIQUIDES**
[72] RAWERT, JURGEN, DE
[72] BARTELS, FRANK, DE
[72] DUDLEY, STEVEN, GB
[71] SOFTHALE NV, BE
[85] 2022-08-15
[86] 2021-03-29 (PCT/EP2021/058109)
[87] (WO2021/198154)
[30] EP (20167140.1) 2020-03-31
[30] US (63/002,836) 2020-03-31

[21] **3,168,029**
[13] A1
[51] **Int.Cl. B65D 83/22 (2006.01)**
[25] FR
[54] **TRIGGER TYPE DISTRIBUTION HEAD**
[54] **TETE DE DISTRIBUTION DU TYPE A GACHETTE**
[72] BODET, HERVE, FR
[72] GAILLARD, ERIC, FR
[71] LINDAL FRANCE SAS, FR
[85] 2022-08-15
[86] 2021-03-18 (PCT/EP2021/056983)
[87] (WO2021/185981)
[30] FR (FR2002669) 2020-03-18

[21] **3,168,031**
[13] A1
[51] **Int.Cl. G01N 33/564 (2006.01)**
[25] EN
[54] **DETECTION OF KLOTHO**
[54] **DETECTION DE KLOTHO**
[72] STANGL, MANFRED, DE
[72] ABENDROTH, DIETMAR, DE
[71] SALION GMBH, DE
[85] 2022-08-15
[86] 2021-03-08 (PCT/EP2021/055756)
[87] (WO2021/180636)
[30] EP (20162195.0) 2020-03-10

[21] **3,168,033**
[13] A1
[51] **Int.Cl. A61K 31/315 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR SKINCARE AND USE THEREOF**
[54] **COMPOSITIONS POUR SOINS DE LA PEAU ET LEUR UTILISATION**
[72] AFARGAN, MICHEL, US
[72] RONEN, RAZIEL, US
[71] ANJON BIOLOGICS, INC., US
[85] 2022-08-15
[86] 2021-02-08 (PCT/US2021/017099)
[87] (WO2021/167810)
[30] US (62/979,858) 2020-02-21

[21] **3,168,038**
[13] A1
[51] **Int.Cl. B09C 1/00 (2006.01) B09C 1/02 (2006.01) B09C 1/06 (2006.01) B09C 1/08 (2006.01) B09C 1/10 (2006.01)**
[25] EN
[54] **A DECONTAMINATION UNIT, A DECONTAMINATION SET, A DECONTAMINATION ARRANGEMENT AND A METHOD FOR DECONTAMINATING SOIL**
[54] **UNITE, ENSEMBLE ET AGENCEMENT DE DECONTAMINATION, ET PROCEDE DE DECONTAMINATION DE SOL**
[72] SCHWALBE, PONTUS, SE
[71] GLOBE WATER AB, SE
[85] 2022-08-15
[86] 2021-03-11 (PCT/EP2021/056181)
[87] (WO2021/180845)
[30] EP (20162758.5) 2020-03-12

[21] **3,168,039**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 35/28 (2015.01) A61P 37/06 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR ALLOGENEIC TRANSPLANTATION**
[54] **COMPOSITIONS ET PROCEDES DE TRANSPLANTATION ALLOGENIQUE**
[72] GILLARD, GEOFFREY O., US
[72] PROCTOR, JENNIFER LYNN, US
[72] HYZY, SHARON, US
[72] BOITANO, ANTHONY, US
[72] COOKE, MICHAEL, US
[71] MAGENTA THERAPEUTICS, INC., US
[85] 2022-08-15
[86] 2021-02-18 (PCT/US2021/018599)
[87] (WO2021/168128)
[30] US (62/978,141) 2020-02-18
[30] US (63/062,845) 2020-08-07

[21] **3,168,040**
[13] A1
[51] **Int.Cl. H04W 16/04 (2009.01) H04W 16/14 (2009.01) H04W 28/16 (2009.01) H04W 48/16 (2009.01)**
[25] EN
[54] **COMMUNICATION SYSTEM, COMMUNICATION DEVICE, AND INFORMATION PROCESSING DEVICE**
[54] **SYSTEME DE COMMUNICATION, DISPOSITIF DE COMMUNICATION ET DISPOSITIF DE TRAITEMENT D'INFORMATIONS**
[72] FURUICHI, SHO, JP
[71] SONY CORPORATION, JP
[85] 2022-08-15
[86] 2021-03-03 (PCT/JP2021/008283)
[87] (WO2021/187120)
[30] JP (2020-045375) 2020-03-16

[21] **3,168,043**
[13] A1
[51] **Int.Cl. C12C 5/02 (2006.01) A23L 2/62 (2006.01) C12C 7/04 (2006.01) C12C 7/06 (2006.01)**
[25] EN
[54] **APPLICATION OF PUNICALAGIN/ELLAGIC ACID TO IMPROVE OXIDATIVE AND COLLOIDAL STABILITY OF BEVERAGES (ESP. BEER)**
[54] **APPLICATION D'ACIDE PUNICALAGINE/ELLAGIQUE POUR AMELIORER LA STABILITE OXYDATIVE ET COLLOIDALE DE BOISSONS (NOTAMMENT DE BIERE)**
[72] MERTENS, TUUR, DE
[72] KUNZ, THOMAS, DE
[71] TECHNISCHE UNIVERSITAT BERLIN, DE
[85] 2022-08-15
[86] 2021-02-26 (PCT/EP2021/054885)
[87] (WO2021/170827)
[30] EP (20160167.1) 2020-02-28

[21] **3,168,044**
[13] A1
[51] **Int.Cl. C01F 11/18 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR TREATMENT OF LIMESTONE TO FORM VATERITE**
[54] **PROCEDES ET SYSTEMES POUR LE TRAITEMENT DE CALCAIRE POUR FORMER DE LA VATERITE**
[72] WEISS, MICHAEL JOSEPH, US
[72] GILLIAM, RYAN J., US
[71] ARELAC, INC., US
[85] 2022-08-15
[86] 2021-02-25 (PCT/US2021/019585)
[87] (WO2021/173784)
[30] US (62/981,266) 2020-02-25

[21] **3,168,045**
[13] A1
[51] **Int.Cl. D21H 17/37 (2006.01) D21H 17/41 (2006.01) D21H 17/42 (2006.01) D21H 17/44 (2006.01) D21H 17/55 (2006.01) D21H 21/20 (2006.01)**
[25] EN
[54] **COMPOSITION AND METHOD FOR MANUFACTURE OF PAPER, BOARD OR THE LIKE**
[54] **COMPOSITION ET PROCEDE POUR LA FABRICATION DE PAPIER, DE CARTON OU SIMILAIRE**
[72] STRENGELL, KIMMO, FI
[72] KARPPI, ASKO, FI
[71] KEMIRA OYJ, FI
[85] 2022-08-15
[86] 2021-03-04 (PCT/FI2021/050156)
[87] (WO2021/176143)
[30] FI (20205241) 2020-03-06

[21] **3,168,048**
[13] A1
[51] **Int.Cl. A61K 31/7088 (2006.01) A61K 31/7105 (2006.01) A61K 31/711 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR ORGAN-PROTECTIVE EXPRESSION AND MODULATION OF CODING RIBONUCLEIC ACIDS**
[54] **COMPOSITIONS ET PROCEDES D'EXPRESSION ET DE MODULATION DU CODAGE D'ACIDES RIBONUCLEIQUES POUR LA PROTECTION D'ORGANES**
[72] MICOL, ROMAIN, US
[72] DUVAL, VALERIE, US
[71] COMBINED THERAPEUTICS, INC., US
[85] 2022-08-15
[86] 2021-02-22 (PCT/US2021/019028)
[87] (WO2021/168405)
[30] US (62/979,619) 2020-02-21
[30] US (63/059,458) 2020-07-31

[21] **3,168,051**
[13] A1
[51] **Int.Cl. B64F 5/00 (2017.01) B64F 5/40 (2017.01) B66F 5/00 (2006.01) B66F 5/04 (2006.01) B66F 7/00 (2006.01) B66F 7/04 (2006.01)**
[25] EN
[54] **AIRCRAFT GANTRY SYSTEM**
[54] **SYSTEME DE PORTIQUE D'AERONEF**
[72] JOHNSTON, DANIEL, US
[71] JOHNSTON, DANIEL, US
[85] 2022-08-15
[86] 2021-02-15 (PCT/US2021/018115)
[87] (WO2021/167863)
[30] US (16/797,758) 2020-02-21

[21] **3,168,054**
[13] A1
[51] **Int.Cl. B21C 23/00 (2006.01) C23C 4/131 (2016.01) C22C 21/00 (2006.01) C22F 1/04 (2006.01) C23C 4/08 (2016.01) C23C 4/12 (2016.01) C23C 30/00 (2006.01) F16L 9/02 (2006.01) F28F 21/08 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A CORROSION AND HIGH TEMPERATURE RESISTANT ALUMINIUM ALLOY EXTRUSION MATERIAL**
[54] **PROCEDE DE PRODUCTION D'UN MATERIAU D'EXTRUSION EN ALLIAGE D'ALUMINIUM RESISTANT A LA CORROSION ET A HAUTE TEMPERATURE**
[72] ESPEDAL, ARVID, DK
[72] JIANG, XIAO-JUN, NO
[72] LI, MINXIA, CN
[71] HYDRO EXTRUDED SOLUTIONS AS, NO
[85] 2022-08-15
[86] 2021-02-16 (PCT/EP2021/053784)
[87] (WO2021/165266)
[30] SE (2050177-1) 2020-02-17
[30] SE (2050198-7) 2020-02-21

[21] **3,168,055**
[13] A1
[51] **Int.Cl. A61K 38/17 (2006.01) A61K 48/00 (2006.01) C07K 14/47 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING NON-AGE-ASSOCIATED HEARING IMPAIRMENT IN A HUMAN SUBJECT**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT D'UNE HYPOACOUSIE NON ASSOCIEE A L'AGE CHEZ UN SUJET HUMAIN**
[72] SIMONS, EMMANUEL JOHN, US
[72] NG, ROBERT, US
[71] AKOUOS, INC., US
[85] 2022-08-15
[86] 2021-02-19 (PCT/US2021/018919)
[87] (WO2021/168362)
[30] US (62/979,792) 2020-02-21

[21] **3,168,056**
[13] A1
[51] **Int.Cl. B32B 7/12 (2006.01) B32B 17/10 (2006.01) H01L 31/048 (2014.01)**
[25] EN
[54] **PHOTOVOLTAIC MODULE WITH TEXTURED SUPERSTRATE PROVIDING SHINGLE-MIMICKING APPEARANCE**
[54] **MODULE PHOTOVOLTAIQUE A SUPERSTRAT TEXTURE CONFERANT UN ASPECT IMITANT UN BARDEAU**
[72] PERKINS, RICHARD, US
[72] SHARENKO, ALEX, US
[72] NGUYEN, THIERRY, US
[72] BUNEA, GABRIELA, US
[72] WOJTOWICZ, ANNA, US
[71] GAF ENERGY LLC, US
[85] 2022-08-15
[86] 2021-02-18 (PCT/US2021/018597)
[87] (WO2021/168126)
[30] US (62/977,863) 2020-02-18

[21] **3,168,057**
[13] A1
[51] **Int.Cl. G06K 9/00 (2022.01) G06T 7/246 (2017.01) G06K 9/62 (2022.01)**
[25] EN
[54] **METHOD, SYSTEM AND COMPUTER PROGRAMS FOR TRACEABILITY OF LIVING SPECIMENS**
[54] **PROCEDE, SYSTEME ET PROGRAMMES INFORMATIQUES POUR LA TRACABILITE D'ECHANTILLONS VIVANTS**
[72] AMAT ROLDAN, IVAN, ES
[71] TOUCHLESS ANIMAL METRICS, SL, ES
[85] 2022-08-15
[86] 2021-01-20 (PCT/EP2021/051171)
[87] (WO2021/164972)
[30] EP (20382117.8) 2020-02-17

[21] **3,168,059**
[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) C07K 19/00 (2006.01) C12N 15/09 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **IGG VARIANTS FOR INDUCTION OF IMMUNE RESPONSE WITHOUT ADJUVANT**
[54] **VARIANTS D'IGG POUR L'INDUCTION D'UNE REPONSE IMMUNITAIRE SANS ADJUVANT**
[72] MASON, HUGH, US
[72] DIAMOS, ANDREW, US
[72] PARDHE, MARY, US
[71] ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, US
[85] 2022-08-15
[86] 2021-02-22 (PCT/US2021/019090)
[87] (WO2021/168434)
[30] US (62/980,012) 2020-02-21

[21] **3,168,062**
[13] A1
[25] EN
[54] **SERVICE CHAINING IN MULTI-FABRIC CLOUD NETWORKS**
[54] **CHAINAGE DE SERVICES DANS DES RESEAUX EN NUAGE A MATRICES MULTIPLES**
[72] JANAKIRAMAN, RAJAGOPALAN, US
[72] GANAPATHY, SIVAKUMAR, US
[72] ASGHAR, JAVED, US
[72] SULEMAN, AZEEM MUHAMMAD, US
[71] CISCO TECHNOLOGY, INC., US
[85] 2022-08-15
[86] 2021-02-04 (PCT/US2021/016625)
[87] (WO2021/173319)
[30] US (16/801,500) 2020-02-26

[21] **3,168,063**
[13] A1
[51] **Int.Cl. B23K 35/28 (2006.01) C22C 21/00 (2006.01) C22C 21/10 (2006.01) C22F 1/04 (2006.01) C22F 1/053 (2006.01)**
[25] EN
[54] **HIGH CORROSION AND HEAT RESISTANT ALUMINIUM ALLOY**
[54] **ALLIAGE D'ALUMINIUM HAUTEMENT RESISTANT A LA CORROSION ET A LA CHALEUR**
[72] ESPEDAL, ARVID, DK
[72] JIANG, XIAO-JUN, NO
[72] LI, MINXIA, CN
[71] HYDRO EXTRUDED SOLUTIONS AS, NO
[85] 2022-08-15
[86] 2021-02-16 (PCT/EP2021/053781)
[87] (WO2021/165264)
[30] SE (2050175-5) 2020-02-17
[30] SE (2050197-9) 2020-02-21

[21] **3,168,064**
[13] A1
[51] **Int.Cl. G02B 6/38 (2006.01) G02B 6/44 (2006.01)**
[25] EN
[54] **RETROFIT COVER FOR FIBER OPTIC CABLE CONNECTION**
[54] **COUVERCLE DE RENOVATION POUR CONNEXION DE CABLE A FIBRE OPTIQUE**
[72] OLSZEWSKI, JONATHAN RANDALL, US
[72] HORNSBY, JOHN LEWIS, US
[72] CIESIELCZYK, BENJAMIN FRANKLIN, US
[71] PREFORMED LINE PRODUCTS CO., US
[85] 2022-08-15
[86] 2020-03-17 (PCT/US2020/023228)
[87] (WO2021/188099)

[21] **3,168,065**
[13] A1
[51] **Int.Cl. F28D 7/16 (2006.01) B64D 33/08 (2006.01)**
[25] EN
[54] **HEAT EXCHANGER**
[54] **ECHANGEUR DE CHALEUR**
[72] VARVILL, RICHARD, GB
[72] PARKER, RICHARD, GB
[72] DALLIMORE, SAMUEL, GB
[71] REACTION ENGINES LIMITED, GB
[85] 2022-08-15
[86] 2021-02-05 (PCT/EP2021/052743)
[87] (WO2021/165052)
[30] GB (2002302.4) 2020-02-19

[21] **3,168,067**
[13] A1
[51] **Int.Cl. G11C 13/00 (2006.01)**
[25] EN
[54] **MULTI-TERMINAL PHASE CHANGE MEMORY DEVICE**
[54] **DISPOSITIF DE MEMOIRE A CHANGEMENT DE PHASE MULTITERMINAL**
[72] PHILIP, TIMOTHY MATTHEW, US
[72] CLEVENGER, LAWRENCE, US
[72] BREW, KEVIN, US
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-08-15
[86] 2021-02-12 (PCT/IB2021/051178)
[87] (WO2021/191696)
[30] US (16/828,242) 2020-03-24

[21] **3,168,069**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **SETD2 INHIBITORS AND RELATED METHODS AND USES, INCLUDING COMBINATION THERAPIES**
[54] **INHIBITEURS DE SETD2 ET PROCEDES ET UTILISATIONS ASSOCIES, Y COMPRIS DES POLYTHERAPIES**
[72] RAIMONDI, MARIA ALEJANDRA, US
[72] TOTMAN, JENNIFER ANNE, US
[72] MOTWANI, VINNY, US
[72] COSMOPOULOS, KATHERINE LOUISE, US
[72] LAMPE, JOHN, US
[71] EPIZYME, INC., US
[85] 2022-08-15
[86] 2021-02-19 (PCT/US2021/018863)
[87] (WO2021/168313)
[30] US (62/978,692) 2020-02-19

[21] **3,168,070**
[13] A1
[51] **Int.Cl. A61K 31/4704 (2006.01) A61K 31/407 (2006.01) A61K 31/454 (2006.01) A61K 31/69 (2006.01) A61K 38/05 (2006.01) A61K 38/07 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **TASQUINIMOD OR A PHARMACEUTICALLY ACCEPTABLE SALT THEREOF FOR USE IN COMBINATION THERAPY**
[54] **TASQUINIMOD OU SEL PHARMACEUTIQUEMENT ACCEPTABLE DE CELUI-CI DESTINE A ETRE UTILISE EN POLYTHERAPIE**
[72] NEFEDOVA, YULIYA, US
[72] TORNGREN, MARIE, SE
[72] ERIKSSON, HELENA, SE
[72] GABRILOVICH, DMITRY, US
[72] SCHMIDLIN, FABIEN, FR
[71] ACTIVE BIOTECH AB, SE
[71] THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY, US
[85] 2022-08-15
[86] 2021-03-03 (PCT/EP2021/055337)
[87] (WO2021/175924)
[30] EP (20160815.5) 2020-03-03
[30] US (62/984,474) 2020-03-03
[30] US (63/148,522) 2021-02-11

[21] **3,168,071**
[13] A1
[51] **Int.Cl. H04L 12/46 (2006.01)**
[25] EN
[54] **DYNAMIC FIREWALL DISCOVERY ON A SERVICE PLANE IN A SDWAN ARCHITECTURE**
[54] **DECOUVERTE DYNAMIQUE DE PARE-FEU SUR UN PLAN DE SERVICE DANS UNE ARCHITECTURE SDWAN**
[72] SUNDARARAJAN, BALAJI, US
[72] GOTA BR, VENKATESH, IN
[72] YERUVA, SIREESHA, US
[72] BALASUBRAMANIAN, CHANDRAMOULI, US
[72] OSWAL, ANAND, US
[71] CISCO TECHNOLOGY, INC., US
[85] 2022-08-15
[86] 2021-02-11 (PCT/US2021/017522)
[87] (WO2021/173355)
[30] US (16/801,430) 2020-02-26

[21] **3,168,073**
[13] A1
[51] **Int.Cl. G06K 19/07 (2006.01)**
[25] FR
[54] **CIRCUIT FOR PASSIVE RADIO-FREQUENCY IDENTIFICATION TAG COMPRISING A STRAIN SENSOR AND METHOD FOR MANUFACTURING A CIRCUIT**
[54] **CIRCUIT POUR ETIQUETTE DE RADIO-IDENTIFICATION PASSIVE COMPRENANT UN CAPTEUR DE CONTRAINTE ET PROCEDE POUR FABRIQUER UN CIRCUIT**
[72] GEYNET, LIONEL, FR
[72] DELORME, NICOLAS, FR
[71] ASYGN, FR
[85] 2022-08-15
[86] 2021-03-16 (PCT/FR2021/050437)
[87] (WO2021/186128)
[30] FR (FR2002676) 2020-03-18

[21] **3,168,075**
[13] A1
[51] **Int.Cl. A61K 47/34 (2017.01) C09D 7/63 (2018.01) C09D 7/65 (2018.01) C07C 215/12 (2006.01) C07D 305/14 (2006.01) C09D 133/26 (2006.01)**
[25] EN
[54] **POLYMERIC BINDER AND HIGH MOLECULAR WEIGHT POLYMER ANTIFOULING COMPOSITIONS**
[54] **LIANT POLYMERE ET COMPOSITIONS POLYMERES ANTISALISSURES DE POIDS MOLECULAIRE ELEVE**
[72] YAZDANI-AHMADABADI, HOSSEIN, CA
[72] YU, KAI, CA
[72] LANGE, DIRK, CA
[72] KIZHAKKEDATHU, JAYACHANDRAN, CA
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA
[85] 2022-08-15
[86] 2021-02-19 (PCT/CA2021/050195)
[87] (WO2021/163811)
[30] US (62/979,558) 2020-02-21

[21] **3,168,076**
[13] A1
[51] **Int.Cl. G01C 11/02 (2006.01) B64G 1/28 (2006.01) G02B 17/06 (2006.01) G05D 1/04 (2006.01) H04N 5/335 (2011.01)**
[25] FR
[54] **METHOD FOR ACQUIRING IMAGES OF A TERRESTRIAL REGION USING A SPACECRAFT**
[54] **PROCEDE D'ACQUISITION D'IMAGES D'UNE ZONE TERRESTRE PAR UN ENGIN SPATIAL**
[72] GHEZAL, MEHDI, FR
[72] GIRAUD, EMMANUEL, FR
[71] AIRBUS DEFENCE AND SPACE SAS, FR
[85] 2022-08-15
[86] 2021-03-03 (PCT/FR2021/050360)
[87] (WO2021/176181)
[30] FR (20 02158) 2020-03-03

[21] **3,168,077**
[13] A1
[51] **Int.Cl. E21B 17/10 (2006.01)**
[25] EN
[54] **SUCKER ROD GUIDE**
[54] **LANTERNE DE GUIDAGE**
[72] BAHEMIA, DAVID, AU
[72] HEITZMANN, MICHAEL, AU
[72] VILLACORTA, BYRON HERNANDEZ, AU
[71] OILFIELD PIPING SYSTEMS PTY LTD, AU
[85] 2022-08-15
[86] 2021-09-21 (PCT/AU2021/051098)
[87] (WO2022/061399)
[30] AU (2020903408) 2020-09-22

[21] **3,168,078**
[13] A1
[51] **Int.Cl. C08J 7/12 (2006.01) C08J 7/06 (2006.01) C09K 21/14 (2006.01)**
[25] FR
[54] **CHEMICAL MODIFICATION PROCESS FOR A POLYMER COMPONENT**
[54] **PROCEDE DE MODIFICATION CHIMIQUE D'UNE PIECE POLYMERIQUE**
[72] PILUSO, PIERRE, FR
[72] AUGER, AURELIEN, FR
[72] BLANCHOT, OLIVIER, FR
[72] DELMAS, JEROME, FR
[72] PONCELET, OLIVIER, FR
[72] ROUGEAUX, ISABELLE, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES, FR
[85] 2022-08-15
[86] 2021-02-17 (PCT/FR2021/050272)
[87] (WO2021/170936)
[30] FR (2001881) 2020-02-26

[21] **3,168,079**
[13] A1
[51] **Int.Cl. F25D 3/06 (2006.01)**
[25] EN
[54] **THERMAL REGULATING DEVICES**
[54] **DISPOSITIFS DE REGULATION THERMIQUE**
[72] MASSENZO, TRISHA J., US
[72] GREY, CASEY P., US
[72] DALLEN, LUCAS, US
[71] WESTROCK MWV, LLC, US
[85] 2022-08-15
[86] 2021-02-12 (PCT/US2021/017796)
[87] (WO2021/163435)
[30] US (16/791,228) 2020-02-14

[21] **3,168,080**
[13] A1
[51] **Int.Cl. B64D 11/06 (2006.01)**
[25] FR
[54] **SYSTEM AND METHOD FOR CONTROLLING AN AIRCRAFT SEAT AND ITS ENVIRONMENT VIA A WIRELESS CONNECTION**
[54] **SYSTEME ET PROCEDE DE COMMANDE D'UN SIEGE D'AERONEF ET DE SON ENVIRONNEMENT VIA UNE CONNEXION SANS-FIL**
[72] IMBERT, VINCENT, FR
[72] DUCHESNE, JULIEN, FR
[71] AIRBUS ATLANTIC, FR
[85] 2022-08-15
[86] 2021-02-17 (PCT/EP2021/053895)
[87] (WO2021/165324)
[30] FR (FR2001529) 2020-02-17

[21] **3,168,081**
[13] A1
[51] **Int.Cl. H01L 39/16 (2006.01)**
[25] EN
[54] **OPERATING A SUPERCONDUCTING CHANNEL BY ELECTRON INJECTION**
[54] **UTILISATION D'UN CANAL SUPRACONDUCTEUR PAR INJECTION D'ELECTRONS**
[72] FUHRER JANETT, ANDREAS, CH
[72] NICHELE, FABRIZIO, CH
[72] RITTER, MARKUS, CH
[72] RIEL, HEIKE, CH
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-08-15
[86] 2021-03-10 (PCT/EP2021/056076)
[87] (WO2021/190939)
[30] US (16/831,241) 2020-03-26

[21] **3,168,082**
[13] A1
[51] **Int.Cl. B60N 2/02 (2006.01) A61H 23/00 (2006.01) B61B 5/00 (2006.01) B64D 11/00 (2006.01) B64D 11/06 (2006.01) A61M 21/02 (2006.01)**
[25] FR
[54] **SYSTEM FOR MONITORING THE SLEEP AND/OR WELL-BEING OF A PASSENGER OF AN AIRCRAFT AND METHOD FOR IMPLEMENTING SUCH A SYSTEM**
[54] **SYSTEME DE GESTION DU SOMMEIL ET/OU DU BIEN-ETRE D'UN PASSAGER D'UN AERONEF ET PROCEDE DE MISE EN OEUVRE D'UN TEL SYSTEME**
[72] BORRAZ, ARMAND, FR
[72] CAPITAINE, TANGUY, FR
[72] DUCHESNE, JULIEN, FR
[71] AIRBUS ATLANTIC, FR
[85] 2022-08-15
[86] 2021-02-18 (PCT/EP2021/053957)
[87] (WO2021/165355)
[30] FR (FR2001732) 2020-02-21

[21] **3,168,083**
[13] A1
[51] **Int.Cl. F25D 3/12 (2006.01) F25D 3/08 (2006.01) F25D 21/04 (2006.01)**
[25] EN
[54] **THERMAL REGULATING DEVICES WITH CONDENSATION MITIGATION**
[54] **DISPOSITIFS DE REGULATION THERMIQUE AVEC ATTENUATION DE LA CONDENSATION**
[72] MASSENZO, TRISHA J., US
[72] WIEMANN, DAVID J., US
[71] WESTROCK MWV, LLC, US
[85] 2022-08-15
[86] 2021-02-12 (PCT/US2021/017811)
[87] (WO2021/163446)
[30] US (16/791,228) 2020-02-14
[30] US (17/165,863) 2021-02-02

[21] **3,168,084**
[13] A1
[51] **Int.Cl. B01D 19/04 (2006.01) C08G 77/16 (2006.01) C08G 77/18 (2006.01) C08K 3/36 (2006.01) C08L 83/04 (2006.01)**
[25] EN
[54] **FOAM CONTROL COMPOSITION**
[54] **COMPOSITION DE COMMANDE DE MOUSSE**
[72] CHAO, SUNG-HSUEN, BE
[72] DEGLAS, CHRISTOPHE, BE
[72] THIBAUT, MARC, BE
[71] DOW SILICONES CORPORATION, US
[85] 2022-08-15
[86] 2021-01-19 (PCT/US2021/013886)
[87] (WO2021/167728)
[30] US (62/978,982) 2020-02-20

[21] **3,168,085**
[13] A1
[51] **Int.Cl. A61K 9/51 (2006.01) A61K 31/403 (2006.01) A61K 31/4184 (2006.01) A61K 31/435 (2006.01) A61K 31/498 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **METHOD OF TREATING BACTERIAL INFECTIONS AND PHARMACEUTICAL COMPOSITION FOR TREATING BACTERIAL INFECTIONS**
[54] **PROCEDE DE TRAITEMENT D'INFECTIONS BACTERIENNES ET COMPOSITION PHARMACEUTIQUE POUR LE TRAITEMENT D'INFECTIONS BACTERIENNES**
[72] RAMA RAO, NALINI, FR
[72] TRAN, SEAV-LY, FR
[71] INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT, FR
[85] 2022-08-15
[86] 2021-02-19 (PCT/EP2021/054136)
[87] (WO2021/165463)
[30] EP (20305172.7) 2020-02-21

[21] **3,168,086**
[13] A1
[51] **Int.Cl. C10L 3/04 (2006.01)**
[25] EN
[54] **IMPROVED SOLVENTS FOR ACETYLENE FLUID STORAGE**
[54] **SOLVANTS AMELIORES POUR LE STOCKAGE DE FLUIDE D'ACETYLENE**
[72] SONG, XUEMEI, US
[72] KANE, WILLIAM S., US
[72] SINHA, ASHWINI K., US
[71] PRAXAIR TECHNOLOGY, INC., US
[85] 2022-08-15
[86] 2021-02-18 (PCT/US2021/018537)
[87] (WO2021/168085)
[30] US (62/978,989) 2020-02-20
[30] US (63/129,805) 2020-12-23
[30] US (17/177,636) 2021-02-17

[21] **3,168,087**
[13] A1
[51] **Int.Cl. C08G 77/58 (2006.01) C09D 183/14 (2006.01)**
[25] EN
[54] **DECORATIVE AND PROTECTIVE COATING COMPOSITION FOR METAL, GLASS AND PLASTICS SUBSTRATES**
[54] **COMPOSITION DE REVETEMENT DECORATIVE ET PROTECTRICE POUR DES SUBSTRATS DE METAL, DE VERRE ET DE PLASTIQUE**
[72] SCHACKMANN, BILLY, FR
[71] EPG-F S.A.R.L., FR
[85] 2022-08-15
[86] 2021-02-18 (PCT/EP2021/053958)
[87] (WO2021/165356)
[30] EP (20305165.1) 2020-02-20

[21] **3,168,088**
[13] A1
[51] **Int.Cl. A42B 3/22 (2006.01)**
[25] EN
[54] **STRUCTURAL ARRANGEMENT FOR A MOTOR HELMET WITH AUTOMATED VISOR**
[54] **AGENCEMENT STRUCTURAL POUR CASQUE AUTOMOBILE AVEC AUTOMATISATION DE VISIERE**
[72] SOARES DE OLIVEIRA, ELIMAR, BR
[71] FERREIRA DA SILVA, RODRIGO CARLOS, BR
[71] SOARES DE OLIVEIRA, ELIMAR, BR
[85] 2022-08-15
[86] 2020-03-02 (PCT/BR2020/050066)
[87] (WO2021/174321)

[21] **3,168,089**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01)**
[25] EN
[54] **CRISPR-BASED FOXP3 GENE ENGINEERED T CELLS AND HEMATOPOIETIC STEM CELL PRECURSORS TO TREAT IPEX SYNDROME PATIENTS**
[54] **LYMPHOCYTES T MODIFIES PAR UN GENE FOXP3 A BASE DE CRISPR ET PRECURSEURS DE CELLULES SOUCHES HEMATOPOIETIQUES PERMETTANT DE TRAITER DES PATIENTS ATTEINTS DE SYNDROME IPEX**
[72] BACCHETTA, ROSA, US
[72] RONCAROLO, MARIA-GRAZIA, US
[72] PORTEUS, MATTHEW, US
[72] GOODWIN, MARIANNE, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2022-08-15
[86] 2021-02-13 (PCT/US2021/018057)
[87] (WO2021/163642)
[30] US (62/976,233) 2020-02-13

[21] **3,168,090**
[13] A1
[51] **Int.Cl. A47C 7/74 (2006.01) A61G 5/10 (2006.01) A61G 5/12 (2006.01)**
[25] EN
[54] **THERMAL COMFORT WHEELCHAIR BACKREST**
[54] **DOSSIER DE FAUTEUIL ROULANT A CONFORT THERMIQUE**
[72] QIU, JINTAO, CN
[72] CAI, MINGJIE, CA
[72] MAGYAR, ROBERT STANFORD, CA
[71] THUJA INNOVATIONS INC., CA
[85] 2022-08-15
[86] 2021-09-09 (PCT/CA2021/051244)
[87] (WO2022/051851)
[30] CA (3,092,701) 2020-09-10

[21] **3,168,091**
[13] A1
[51] **Int.Cl. G06F 15/16 (2006.01)**
[25] EN
[54] **COMMUNICATION ROUTING BASED ON USER CHARACTERISTICS AND BEHAVIOR**
[54] **ROUTAGE DE COMMUNICATION BASE SUR DES CARACTERISTIQUES ET UN COMPORTEMENT D'UTILISATEUR**
[72] SCOTT, BRANDON ANTHONY, US
[72] RAVICHANDRAN, AUROBIND, US
[72] OEY, MATTHEW SURJANA, US
[72] WILSON, GREGORY SHUNSUKE, US
[71] ZENPAYROLL, INC., US
[85] 2022-08-15
[86] 2021-03-24 (PCT/US2021/023979)
[87] (WO2021/202209)
[30] US (16/835,853) 2020-03-31

[21] **3,168,092**
[13] A1
[51] **Int.Cl. C12M 1/34 (2006.01) C12Q 1/04 (2006.01) G01N 15/14 (2006.01) G01N 21/64 (2006.01) G01N 33/58 (2006.01)**
[25] EN
[54] **ATTENUATED-BACKGROUND MICROBIOLOGICAL NUTRIENT MEDIA AND METHODS OF USING THE SAME**
[54] **MILIEUX NUTRITIFS MICROBIOLOGIQUES A FOND ATTENUE ET PROCEDES D'UTILISATION DE CES MILIEUX**
[72] BARRA, JESSICA TSE, US
[72] RODRIGUEZ SANTANA, JUAN PABLO, US
[72] GRABAR, TAMMY BOHANNON, US
[72] RIPPETH, JOHN, GB
[72] NOBLE, MICHAEL, GB
[72] HUGHES, GWILYM, GB
[71] RAPID MICRO BIOSYSTEMS, INC., US
[85] 2022-08-15
[86] 2021-04-15 (PCT/US2021/027483)
[87] (WO2021/211845)
[30] US (63/010,337) 2020-04-15

[21] **3,168,109**
[13] A1
[51] **Int.Cl. A61H 1/00 (2006.01) A63B 23/00 (2006.01) A63B 23/035 (2006.01) A63B 23/04 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING OSCILLATORY MOTION TO AN INDIVIDUAL**
[54] **SYSTEMES ET PROCEDES DE FOURNITURE DE MOUVEMENT OSCILLATOIRE A UN INDIVIDU**
[72] STONE, STEVEN PATRICK, US
[72] PELTOLA, ERIC RICHARD, US
[71] INNAWAVE INC, US
[85] 2022-08-16
[86] 2021-02-18 (PCT/US2021/018612)
[87] (WO2021/168139)
[30] US (62/978,774) 2020-02-19

[21] **3,168,121**
[13] A1
[51] **Int.Cl. H01S 3/067 (2006.01)**
[25] EN
[54] **FEMTOSECOND LASER SOURCE AND MULTIPHOTON MICROSCOPE**
[54] **SOURCE LASER FEMTOSECONDE ET MICROSCOPE MULTIPHOTONIQUE**
[72] AL-KADRY, ALAA, CA
[72] KARPOV, VLADIMIR, CA
[72] CLEMENTS, WALLACE, CA
[71] MPB COMMUNICATIONS INC., CA
[85] 2022-08-16
[86] 2020-11-03 (PCT/CA2020/051489)
[87] (WO2021/243435)
[30] US (16/892,242) 2020-06-03

[21] **3,168,126**
[13] A1
[51] **Int.Cl. B23B 45/00 (2006.01) B23Q 11/10 (2006.01) B24B 55/02 (2006.01) B24B 57/02 (2006.01)**
[25] EN
[54] **FLUID DISPENSING DEVICE WITH COUPLING TO POWER-DRIVEN TURNING TOOLS AND TURNING TOOL COMPRISING THE SAME**
[54] **DISPOSITIF DE DOSAGE DE FLUIDES AVEC ACCOUPLEMENT A DES OUTILS DE ROTATION MOTORISES ET OUTIL LE COMPRENANT**
[72] SORIANO ASENSIO, ANTONI JOSEP, ES
[72] ANILLO LOPEZ, MARIA JOSEFA, ES
[71] SORIANO ASENSIO, ANTONI JOSEP, ES
[71] ANILLO LOPEZ, MARIA JOSEFA, ES
[85] 2022-08-16
[86] 2021-02-18 (PCT/ES2021/070115)
[87] (WO2021/165560)
[30] ES (P202030140) 2020-02-18

[21] **3,168,127**
[13] A1
[51] **Int.Cl. A61K 31/05 (2006.01) A61K 31/352 (2006.01) C12N 9/10 (2006.01)**
[25] EN
[54] **NOVEL SYSTEMS, METHODS, AND COMPOSITIONS FOR THE GLYCOSYLATION OF CANNABINOID COMPOUNDS**
[54] **NOUVEAUX SYSTEMES, PROCEDES ET COMPOSITIONS POUR LA GLYCOSYLATION DE COMPOSES CANNABINOIDES**
[72] TRAVERS, TIMOTHY, US
[72] LEBRUN, ERICK, US
[71] TRAIT BIOSCIENCES, INC., US
[85] 2022-08-16
[86] 2021-02-26 (PCT/US2021/020040)
[87] (WO2021/174092)
[30] US (62/983,019) 2020-02-28

[21] **3,168,132**
[13] A1
[51] **Int.Cl. G09B 9/04 (2006.01)**
[25] EN
[54] **SUPPORT FOR DRIVING SIMULATORS**
[54] **SUPPORT POUR SIMULATEURS DE CONDUITE**
[72] MARTINELLI, ALEX, IT
[71] MARTY & NELLY S.R.L., IT
[85] 2022-08-16
[86] 2021-02-11 (PCT/IB2021/051110)
[87] (WO2021/165793)
[30] IT (102020000003101) 2020-02-17

[21] **3,168,134**
[13] A1
[51] **Int.Cl. H01M 50/204 (2021.01) G01R 31/396 (2019.01) H01M 50/502 (2021.01)**
[25] EN
[54] **APPARATUS, SYSTEM AND METHODS FOR BATTERIES**
[54] **APPAREIL, SYSTEME ET PROCEDES POUR BATTERIES**
[72] HOWELL, STEVEN ROBERT, AU
[71] 3ME TECHNOLOGY PTY LTD, AU
[85] 2022-08-16
[86] 2021-03-05 (PCT/AU2021/050194)
[87] (WO2021/174312)
[30] AU (2020900686) 2020-03-05

[21] **3,168,136**
[13] A1
[51] **Int.Cl. A61B 6/00 (2006.01)**
[25] EN
[54] **A METHOD OF AND SYSTEM FOR CALCIUM SCORING OF CORONARY ARTERIES**
[54] **PROCEDE ET SYSTEME D'EVALUATION DU CALCIUM D'ARTERES CORONAIRES**
[72] LICKFOLD, CASEY JACK, AU
[72] JOYNER, JACK REX, AU
[72] FLACK, JULIEN CHARLES, AU
[72] DWIVEDI, GIRISH, AU
[72] IHDAYHID, ABDUL RAHMAN, AU
[71] ARTRYA LIMITED, AU
[85] 2022-08-16
[86] 2021-02-26 (PCT/AU2021/050168)
[87] (WO2021/168517)
[30] AU (2020900593) 2020-02-28
[30] AU (2020902072) 2020-06-22
[30] AU (2020902398) 2020-07-10

[21] **3,168,137**
[13] A1
[51] **Int.Cl. A61C 19/06 (2006.01)**
[25] EN
[54] **ELECTRODE APPLICATORS FOR CONJUNCTIVE USE IN A DENTAL IMPLANT TREATMENT SYSTEM**
[54] **APPLICATEURS D'ELECTRODE DESTINES A ETRE UTILISES CONJOINTEMENT DANS UN SYSTEME DE TRAITEMENT D'IMPLANT DENTAIRE**
[72] KOPERA, TIMOTHY M., US
[72] HOBBLE, JACKSON G., US
[72] BACON, WAYNE D., US
[72] PETERSON, BRIAN R., US
[71] CIPO, CA
[71] GARWOOD MEDICAL DEVICES, LLC, US
[85] 2022-08-16
[86] 2020-07-07 (PCT/US2020/041022)
[87] (WO2021/177995)
[30] US (62/984,332) 2020-03-03
[30] US (16/884,664) 2020-05-27

[21] **3,168,139**
[13] A1
[51] **Int.Cl. C12Q 1/6883 (2018.01)**
[25] EN
[54] **METHOD FOR DIAGNOSIS AND TREATMENT MONITORING AND INDIVIDUAL THERAPY END DECISION IN TUBERCULOSIS INFECTION**
[54] **PROCEDE DE DIAGNOSTIC ET DE SURVEILLANCE DE TRAITEMENT AINSI QUE DE PRISE DE DECISION DE FIN DE THERAPIE INDIVIDUELLE ASSOCIE A UNE INFECTION TUBERCULEUSE**
[72] HEYCKENDORF, JAN, DE
[72] MARWITZ, SEBASTIAN, DE
[72] REIMANN, MAJA, DE
[72] GOLDMANN, TORSTEN, DE
[72] LANGE, CHRISTOPH, DE
[71] FORSCHUNGSZENTRUM BORSTEL LEIBNIZ-LUNGENZENTRUM, DE
[85] 2022-08-16
[86] 2021-02-22 (PCT/EP2021/054288)
[87] (WO2021/165523)
[30] EP (20158652.6) 2020-02-21

[21] **3,168,140**
[13] A1
[51] **Int.Cl. A23K 20/10 (2016.01) A23K 50/10 (2016.01) A23K 50/30 (2016.01) A23C 3/02 (2006.01) A61K 31/765 (2006.01)**
[25] EN
[54] **SUPPLEMENTED ANIMAL FEEDS FOR MAMMALS**
[54] **ALIMENTS POUR ANIMAUX SUPPLEMENTES POUR MAMMIFERES**
[72] BURTON, GRAHAM WILLIAM, CA
[72] RILEY, WILLIAM W., PH
[72] NICKERSON, JAMES GARY, CA
[71] AVIVAGEN INC., CA
[85] 2022-08-16
[86] 2021-02-15 (PCT/CA2021/050162)
[87] (WO2021/163786)
[30] US (62/977,990) 2020-02-18

[21] **3,168,141**
[13] A1
[51] **Int.Cl. G06N 7/08 (2006.01) G06F 30/23 (2020.01)**
[25] EN
[54] **EQUIPMENT FAILURE PROBABILITY CALCULATION AND LIFETIME ESTIMATION METHODS AND SYSTEMS**
[54] **CALCUL DE PROBABILITE DE DEFAILLANCE D'EQUIPEMENT ET PROCEDES ET SYSTEMES D'ESTIMATION DE DUREE DE VIE**
[72] A. DZUBIR, FAIZUL AZLY B., MY
[72] AYOB, M. ADNAN B., MY
[72] OTHMAN, A. RAHIM B., MY
[71] PETROLIAM NASIONAL BERHAD (PETRONAS), MY
[85] 2022-08-16
[86] 2021-01-27 (PCT/MY2021/050004)
[87] (WO2021/167443)
[30] MY (PI 2020000840) 2020-02-17

[21] **3,168,142**
[13] A1
[51] **Int.Cl. B29C 45/28 (2006.01)**
[25] EN
[54] **COMPONENT FOR A NOZZLE OF AN INJECTION MOLDING APPARATUS AS WELL AS CORRESPONDING NOZZLE AND INJECTION MOLDING APPARATUS**
[54] **COMPOSANT POUR UNE BUSE D'UN APPAREIL DE MOULAGE PAR INJECTION AINSI QUE BUSE ET APPAREIL DE MOULAGE PAR INJECTION CORRESPONDANTS**
[72] CAMAROTTO, SIMONE, IT
[72] SPINAZZE', PAOLO, IT
[72] ZOPPAS, MATTEO, IT
[71] S.I.P.A. SOCIETA' INDUSTRIALIZZAZIONE PROGETTAZIONE E AUTOMAZIONE S.P.A., IT
[85] 2022-08-16
[86] 2021-03-02 (PCT/IB2021/051726)
[87] (WO2021/176346)
[30] IT (102020000004351) 2020-03-02

[21] **3,168,143**
[13] A1
[51] **Int.Cl. B63B 21/08 (2006.01) B63B 21/54 (2006.01)**
[25] EN
[54] **MOORING DEVICE, MOORING SYSTEM AND VESSEL**
[54] **DISPOSITIF D'AMARRAGE, SYSTEME D'AMARRAGE ET NAVIRE**
[72] BANGSLUND, THOMAS, DK
[71] SVITZER A/S, DK
[85] 2022-08-16
[86] 2021-02-20 (PCT/EP2021/054244)
[87] (WO2021/175624)
[30] DK (PA202070147) 2020-03-06

[21] **3,168,153**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/12 (2006.01) A61K 39/215 (2006.01) A61P 31/14 (2006.01) C07K 14/005 (2006.01) C07K 14/165 (2006.01)**
[25] EN
[54] **2019-NCOV (SARS-COV-2) VACCINE**
[54] **VACCIN 2019-NCOV (SARS-COV-2)**
[72] GUPTA, GAURAV, GB
[72] GLUECK, REINHARD, IT
[71] VAXBIO LTD, GB
[85] 2022-08-16
[86] 2021-02-17 (PCT/GB2021/050383)
[87] (WO2021/165667)
[30] GB (2002166.3) 2020-02-17

[21] **3,168,156**
[13] A1
[51] **Int.Cl. G06N 10/00 (2022.01)**
[25] EN
[54] **QUANTUM COMPUTING DEVICE BASED ON INDIVIDUAL RYDBERG ATOMS**
[54] **DISPOSITIF DE CALCUL QUANTIQUE BASE SUR DES ATOMES DE RYDBERG INDIVIDUELS**
[72] LAHAYE, THIERRY, FR
[72] BROWAEYS, ANTOINE, FR
[72] NOGRETTE, FLORENCE, FR
[72] BARREDO, DANIEL, FR
[72] SCHYMIK, KAI-NIKLAS, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] INSTITUT D'OPTIQUE THEORIQUE ET APPLIQUEE, FR
[85] 2022-08-16
[86] 2021-02-12 (PCT/EP2021/053488)
[87] (WO2021/165155)
[30] FR (2001646) 2020-02-19

[21] **3,168,158**
[13] A1
[51] **Int.Cl. C07K 16/18 (2006.01) C07K 16/30 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **NEW METHOD AND COMPOUND FOR PROSTATE CANCER DIAGNOSIS**
[54] **NOUVELLE METHODE ET NOUVEAU COMPOSE POUR LE DIAGNOSTIC DU CANCER DE LA PROSTATE**
[72] WALDENSTROM, ANDERS, SE
[72] LARSSON, ANDERS, SE
[71] PROSMEDIC SWEDEN AB, SE
[85] 2022-08-16
[86] 2021-03-01 (PCT/EP2021/055061)
[87] (WO2021/175788)
[30] EP (20160712.4) 2020-03-03

[21] **3,168,160**
[13] A1
[51] **Int.Cl. A24D 1/20 (2020.01) A24C 5/56 (2006.01) A24D 1/02 (2006.01)**
[25] EN
[54] **AEROSOL-GENERATING ARTICLE HAVING BRIDGING ELEMENT WITH BASIS WEIGHT**
[54] **ARTICLE DE GENERATION D'AEROSOL DOTE D'UN ELEMENT DE LIAISON AYANT UN POIDS DE BASE**
[72] CAMUS, ALEXANDRE, CH
[72] CIFTCIOGLU, YALIN, CH
[72] LEKILI, LEVENT, CH
[71] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2022-08-16
[86] 2021-02-19 (PCT/EP2021/054229)
[87] (WO2021/165509)
[30] EP (20158535.3) 2020-02-20

[21] **3,168,162**
[13] A1
[51] **Int.Cl. B30B 11/20 (2006.01)**
[25] EN
[54] **PELLET MILL ROLL TEMPERATURE SENSING**
[54] **DETECTION DE TEMPERATURE D'UN ROULEAU DE PRESSE A GRANULES**
[72] DUNCAN, TIMOTHY EDWARD, US
[72] SCHAPPELL, BENJAMIN MICHAEL, US
[72] DELANY, FRED MATTHEW, US
[71] ANDRITZ INC., US
[85] 2022-08-16
[86] 2021-03-11 (PCT/US2021/021865)
[87] (WO2021/194753)
[30] US (62/994,144) 2020-03-24

[21] **3,168,164**
[13] A1
[51] **Int.Cl. A61K 38/01 (2006.01) A61K 38/39 (2006.01) A61P 1/02 (2006.01)**
[25] EN
[54] **COLLAGEN HYDROLYSATE AS ACTIVE SUBSTANCE AGAINST PERIODONTITIS OR GINGIVITIS**
[54] **HYDROLYSAT DE COLLAGENE COMME SUBSTANCE ACTIVE CONTRE LA PERIODONTITE OU LA GINGIVITE**
[72] HAUSMANNS, STEPHAN, DE
[72] FRECH, HANS-ULRICH, DE
[72] OESSER, STEFFEN, DE
[72] LIPP, TONJA, US
[71] GELITA AG, DE
[85] 2022-08-16
[86] 2020-12-17 (PCT/EP2020/086865)
[87] (WO2021/164925)
[30] DE (10 2020 104 279.5) 2020-02-18

[21] **3,168,165**
[13] A1
[51] **Int.Cl. B01D 61/14 (2006.01) C07K 14/81 (2006.01)**
[25] EN
[54] **METHOD FOR OBTAINING ALPHA-1 PROTEINASE INHIBITOR**
[54] **PROCEDE D'OBTENTION D'UN INHIBITEUR DE PROTEINASE ALPHA -1**
[72] REBBEOR, JAMES, US
[72] YUZIUK, JEFFREY A., US
[72] GRADY, GEORGE, US
[72] MCBRIDE, DENNIS, US
[71] GRIFOLS WORLDWIDE OPERATIONS LIMITED, IE
[85] 2022-08-16
[86] 2021-02-22 (PCT/EP2021/054302)
[87] (WO2021/170531)
[30] US (62/981410) 2020-02-25

[21] **3,168,166**
[13] A1
[51] **Int.Cl. A24D 1/18 (2006.01) A24D 1/20 (2020.01)**
[25] EN
[54] **AEROSOL-GENERATING ARTICLE INCLUDING UPSTREAM ELEMENT**
[54] **ARTICLE DE GENERATION D'AEROSOL COMPRENANT UN ELEMENT AMONT**
[72] BERTOLDO, MASSIMILIANO, IT
[72] D'AMBRA, GIANPAOLO, IT
[72] MONTANARI, EDOARDO, IT
[72] ORSOLINI, PAOLA, CH
[72] PRESTIA, IVAN, IT
[71] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2022-08-16
[86] 2021-02-24 (PCT/EP2021/054551)
[87] (WO2021/170651)
[30] EP (20160254.7) 2020-02-28

[21] **3,168,168**
[13] A1
[51] **Int.Cl. B05D 1/06 (2006.01) B05D 7/00 (2006.01) C09D 5/03 (2006.01) C09D 5/44 (2006.01) C09D 133/00 (2006.01) C09D 163/00 (2006.01) C09D 175/00 (2006.01)**
[25] EN
[54] **TWO-LAYER DIELECTRIC COATING**
[54] **REVETEMENT DIELECTRIQUE BICOUCHE**
[72] VISSER, SIJMEN J., NL
[72] WOODWORTH, BRIAN E., US
[72] GONDER-JONES, HOLLI, US
[72] SCHNEIDER, JOHN R., US
[72] MOORE, KELLY L., US
[72] FOLLET, MARK L., US
[72] MA, LIANG, US
[72] MUNRO, CALUM H., US
[72] POLLUM, JR. MARVIN M., US
[72] FRENCH, MARIA S., GB
[72] CONDIE, ALLISON G., US
[72] HARRISON, AMY E., US
[72] SCHWENDEMAN, IRINA G., US
[72] DEI, DANIEL K., US
[72] BANCROFT, CASSANDRA NOELLE, US
[72] APANIUS, CHRISTOPHER, US
[72] SYLVESTER, KEVIN T., US
[72] DEDOMENIC, COREY J., US
[72] PUODZIUKYNAITE, EGLE, US
[71] PPG INDUSTRIES OHIO, INC., US
[85] 2022-08-16
[86] 2021-02-26 (PCT/US2021/019895)
[87] (WO2021/173991)
[30] US (62/981,943) 2020-02-26

[21] **3,168,170**
[13] A1
[51] **Int.Cl. B25J 9/16 (2006.01) B25J 19/02 (2006.01) G01N 35/00 (2006.01)**
[25] EN
[54] **METHOD FOR REMOVING INTERFERING COMPONENTS OF A LIQUID SAMPLE PRIOR TO DISPENSING SAME ON A CHEMICAL REAGENT TEST SLIDE**
[54] **METHODE D'ELIMINATION DE CONSTITUANTS INTERFERENTS D'UN ECHANTILLON LIQUIDE AVANT SA DISTRIBUTION SUR UNE LAME DE TEST DE REACTIF CHIMIQUE**
[72] CACAVAS, PAMELA ANN, US
[72] FOX, LUCIUS S., US
[72] LACHAPELLE, ROBERT W., US
[72] LEPAGE, WENDY O'MALLEY, US
[72] PECK, EVAN M., US
[72] PELLETIER, DOMINIC, US
[72] STEVA, ERIC ALLEN, US
[72] YERRAMILLI, MURTHY V.S.N., US
[71] IDEXX LABORATORIES, INC., US
[85] 2022-08-16
[86] 2021-03-08 (PCT/US2021/021331)
[87] (WO2021/183423)
[30] US (62/986,988) 2020-03-09

[21] **3,168,171**
[13] A1
[51] **Int.Cl. A24B 15/14 (2006.01) A24B 15/167 (2020.01) A24D 1/20 (2020.01) A24D 1/18 (2006.01)**
[25] EN
[54] **NOVEL AEROSOL-GENERATING SUBSTRATE COMPRISING ROSMARINUS SPECIES**
[54] **NOUVEAU SUBSTRAT DE GENERATION D'AEROSOL COMPRENANT DES ESPECES DE ROSMARINUS**
[72] ARNDT, DANIEL, CH
[72] JARRIAULT, MARINE, CH
[72] SCHALLER, JEAN-PIERRE, CH
[71] PHILIP MORRIS PRODUCTS SA, CH
[85] 2022-08-16
[86] 2021-02-24 (PCT/EP2021/054556)
[87] (WO2021/170655)
[30] EP (20160178.8) 2020-02-28

[21] **3,168,172**
[13] A1
[51] **Int.Cl. G01N 21/01 (2006.01) G01N 21/17 (2006.01) G01N 21/25 (2006.01) G01N 21/31 (2006.01) G01N 21/64 (2006.01) G01N 21/85 (2006.01) G01N 33/18 (2006.01) G01N 21/53 (2006.01)**
[25] EN
[54] **MODULAR OPTICAL SENSOR**
[54] **CAPTEUR OPTIQUE MODULAIRE**
[72] DAVIS, BRANDON MATTHEW, US
[72] HINTERLONG, STEPHEN J., US
[72] AMBROSE, DAVID ALAN, US
[71] ECOLAB USA INC., US
[85] 2022-08-16
[86] 2021-02-19 (PCT/US2021/018842)
[87] (WO2021/168294)
[30] US (62/979,874) 2020-02-21

[21] **3,168,173**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-GITR ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-GITR ET LEURS UTILISATIONS**
[72] BABB, ROBERT, US
[72] DUDGEON, DREW, US
[72] HUANG, YU, US
[72] MOLDEN, ROSALYNN, US
[72] OLSON, WILLIAM, US
[72] SLEEMAN, MATTHEW, US
[72] SKOKOS, DIMITRIS, US
[72] WANG, BEI, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-08-16
[86] 2021-03-05 (PCT/US2021/021109)
[87] (WO2021/178814)
[30] US (62/986,494) 2020-03-06

[21] **3,168,174**
[13] A1
[51] **Int.Cl. A01K 61/70 (2017.01) A01K 61/73 (2017.01) A01K 61/77 (2017.01) E02B 3/04 (2006.01) E02B 3/06 (2006.01) E02B 3/12 (2006.01)**
[25] EN
[54] **INTERLOCKING ECOLOGICAL ARMORING UNITS AND USES THEREOF IN FORMING A COSTAL BARRIER**
[54] **UNITES DE BLINDAGE ECOLOGIQUES INTER-VERROUILLABLES ET LEURS UTILISATIONS DANS LA FORMATION D'UNE BARRIERE COSTALE**
[72] SELLA, IDO, IL
[72] SAAR, BARAK, IL
[71] ECONCRETE TECH LTD., IL
[85] 2022-08-16
[86] 2021-02-25 (PCT/IL2021/050215)
[87] (WO2021/171296)
[30] US (62/981,053) 2020-02-25

[21] **3,168,178**
[13] A1
[51] **Int.Cl. B32B 9/00 (2006.01) B32B 27/36 (2006.01) B65D 65/40 (2006.01)**
[25] EN
[54] **LAMINATED FILM**
[54]
[72] YAMAZAKI, ATSUSHI, JP
[72] YAMAGUCHI, YUYA, JP
[71] TOYOBO CO., LTD., JP
[85] 2022-08-16
[86] 2021-02-16 (PCT/JP2021/005630)
[87] (WO2021/166881)
[30] JP (2020-027457) 2020-02-20

[21] **3,168,179**
[13] A1
[51] **Int.Cl. A01D 34/835 (2006.01) A01D 34/43 (2006.01)**
[25] EN
[54] **MULCHING DEVICE**
[54] **BROYEUR**
[72] MUTHING, MICHAEL, DE
[72] BOGGE, KLAUS, DE
[71] MUTHING GMBH & CO. KG, DE
[85] 2022-08-16
[86] 2021-03-29 (PCT/EP2021/058157)
[87] (WO2021/209250)
[30] DE (10 2020 002 342.8) 2020-04-17

[21] **3,168,181**
[13] A1
[51] **Int.Cl. G06F 3/0482 (2013.01) G06F 3/0362 (2013.01) G06F 3/0487 (2013.01)**
[25] EN
[54] **A GESTURE DETECTION SYSTEM**
[54] **SYSTEME DE DETECTION DE GESTE**
[72] AUSTAD, TOM, NO
[72] ZWART, HANS, NL
[71] TK&H HOLDING AS, NO
[85] 2022-08-16
[86] 2021-02-16 (PCT/EP2021/053735)
[87] (WO2021/165242)
[30] NO (20200205) 2020-02-17
[30] NO (20200912) 2020-08-18

[21] **3,168,182**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR IMPLEMENTING UNIVERSAL TARGETS IN NETWORK TRAFFIC CLASSIFICATION**
[54] **SYSTEMES ET PROCEDES D'IMPLEMENTATION DE CIBLES UNIVERSELLES DANS UNE CLASSIFICATION DE TRAFIC RESEAU**
[72] LU, MINGZHE, US
[72] LI, HONGQING, US
[72] LEUNG, DIANA, US
[72] ZHANG, JIALIANG, US
[72] GINDI, MADHUSUDAN V., US
[71] CISCO TECHNOLOGY, INC., US
[85] 2022-08-16
[86] 2021-02-16 (PCT/US2021/018227)
[87] (WO2021/178130)
[30] US (16/806,794) 2020-03-02

[21] **3,168,185**
[13] A1
[51] **Int.Cl. B65H 16/04 (2006.01) B65B 41/12 (2006.01)**
[25] EN
[54] **WOUND BODY, CORE BODY FOR WOUND BODY, COMBINATION OF WOUND BODY AND SUPPORT SHAFT, AND COMBINATION OF WOUND BODY AND MEDICINE PACKING APPARATUS**
[54] **CORPS D'ENROULEMENT, NOYAU POUR CORPS D'ENROULEMENT, COMBINAISON D'UN CORPS D'ENROULEMENT ET D'UN ARBRE DE SUPPORT, ET COMBINAISON D'UN CORPS D'ENROULEMENT ET D'UN DISPOSITIF D'EMBALLAGE DE MEDICAMEN**
[72] MATSUHISA, YOSHIKI, JP
[72] MICHIHATA, YOSHIYUKI, JP
[72] YOSHIMURA, TOMOHIRO, JP
[72] IWASAKI, SHINJI, JP
[72] NAKAMURA, AKIHIRO, JP
[71] TAKAZONO CORPORATION, JP
[85] 2022-08-16
[86] 2021-04-20 (PCT/JP2021/015943)
[87] (WO2021/215415)
[30] JP (2020-077411) 2020-04-24
[30] JP (2020-077431) 2020-04-24
[30] JP (2020-078881) 2020-04-28
[30] JP (2020-078895) 2020-04-28

[21] **3,168,188**
[13] A1
[51] **Int.Cl. A61K 31/255 (2006.01) A61P 31/04 (2006.01) A61P 31/10 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR DISRUPTING BIOFILM FORMATION AND FOR TREATING BIOFILM-RELATED DISORDERS**
[54] **COMPOSITIONS POUR PERTURBER LA FORMATION DE BIOFILM ET POUR TRAITER DES TROUBLES LIES AU BIOFILM**
[72] STREEFLAND, GERRIT JAN, NL
[72] DE ROOIJ, JAN, NL
[71] AHV INTERNATIONAL B.V., NL
[85] 2022-08-16
[86] 2021-03-12 (PCT/NL2021/050168)
[87] (WO2021/182958)
[30] EP (20163157.9) 2020-03-13

[21] **3,168,190**
[13] A1
[51] **Int.Cl. C10G 27/04 (2006.01) B01J 21/02 (2006.01) B01J 23/18 (2006.01) B01J 23/34 (2006.01) C07C 5/48 (2006.01) C10G 27/12 (2006.01)**
[25] EN
[54] **FLUIDIZATION ENHANCERS FOR THE OXIDATIVE DEHYDROGENATION OF HYDROCARBONS**
[54] **AGENTS D'AMELIORATION DE LA FLUIDISATION POUR LA DESHYDROGENATION OXYDANTE D'HYDROCARBURES**
[72] CHUNG, ELENA Y., US
[72] SOFRANKO, JOHN A., US
[72] WANG, WILLIAM K., US
[72] KUNDU, SOUMEN, US
[72] WANG, HANGYAO, US
[72] FISH, BARRY B., US
[72] PRETZ, MATTHEW T., US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[71] ECOCATALYTIC INC., US
[85] 2022-08-16
[86] 2021-02-19 (PCT/US2021/018649)
[87] (WO2021/168165)
[30] US (62/979,051) 2020-02-20

[21] **3,168,191**
[13] A1
[51] **Int.Cl. A23C 9/12 (2006.01) A23L 33/19 (2016.01) A23C 9/13 (2006.01) A23C 9/15 (2006.01) A23J 1/20 (2006.01) A23J 3/08 (2006.01)**
[25] EN
[54] **NOVEL HIGH PROTEIN, ACIDIFIED DAIRY PRODUCT, ITS METHOD OF PRODUCTION AND A NOVEL WHEY PROTEIN POWDER FOR PRODUCING THE ACIDIFIED DAIRY PRODUCT**
[54] **NOUVEAU PRODUIT LAITIER ACIDIFIE A HAUTE TENEUR EN PROTEINES, PROCEDE POUR SA PRODUCTION ET NOUVELLE POUDRE DE PROTEINE DE LACTOSERUM POUR PRODUIRE LE PRODUIT LAITIER ACIDIFIE**
[72] ELVERLOV-JAKOBSEN, JANNIK EJNAR, DK
[71] ARLA FOODS AMBA, DK
[85] 2022-08-16
[86] 2021-03-16 (PCT/EP2021/056719)
[87] (WO2021/185858)
[30] EP (20163384.9) 2020-03-16

[21] **3,168,192**
[13] A1
[51] **Int.Cl. E21B 34/14 (2006.01) E21B 33/127 (2006.01) E21B 33/128 (2006.01) E21B 34/06 (2006.01)**
[25] EN
[54] **EXPANDED BALL SEAT**
[54] **SIEGE DE BILLE EXPANSE**
[72] O'BRIEN, ROBERT, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2022-08-16
[86] 2021-02-19 (PCT/US2021/018728)
[87] (WO2021/168211)
[30] US (16/796,133) 2020-02-20

[21] **3,168,195**
[13] A1
[51] **Int.Cl. G01D 21/00 (2006.01) G08B 31/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR OPERATING A DETECTION AND RESPONSE SYSTEM**
[54] **APPAREIL ET PROCEDE D'ACTIONNEMENT D'UN SYSTEME DE DETECTION ET DE REPONSE**
[72] KERWIN, KEVIN RICHARD, US
[71] K2AI, LLC, US
[85] 2022-08-16
[86] 2021-02-08 (PCT/US2021/017014)
[87] (WO2021/167806)
[30] US (16/796,112) 2020-02-20

[21] **3,168,199**
[13] A1
[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/19 (2006.01) A61K 31/496 (2006.01) A61K 31/506 (2006.01) A61K 47/02 (2006.01) A61K 47/04 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/14 (2017.01) A61K 47/18 (2017.01) A61K 47/22 (2006.01) A61P 25/22 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **TRANSDERMAL ABSORPTION PREPARATION**
[54] **PREPARATION A ABSORPTION TRANSDERMIQUE**
[72] ICHIBAYASHI, ERI, JP
[72] TANAKA, MASAYASU, JP
[72] IKEDA, YUKI, JP
[72] TAKITA, TOMOHITO, JP
[72] TAMURA, KEI, JP
[72] NAKAMURA, TETSUYA, JP
[72] FUJIWARA, KAIJI, JP
[71] SUMITOMO DAINIPPON PHARMA CO., LTD., JP
[85] 2022-08-16
[86] 2021-02-18 (PCT/JP2021/006052)
[87] (WO2021/166987)
[30] JP (2020-026337) 2020-02-19
[30] JP (2020-132798) 2020-08-05

[21] **3,168,200**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 10/04 (2012.01) G01R 31/382 (2019.01) A47K 5/06 (2006.01)**
[25] EN
[54] **DISPENSING SYSTEM**
[54] **SYSTEME DE DISTRIBUTION**
[72] HOWELL, REILLY, US
[72] BECKER, STEPHEN, US
[71] KIMBERLY-CLARK WORLDWIDE, INC., US
[85] 2022-08-16
[86] 2020-02-21 (PCT/US2020/019310)
[87] (WO2021/167623)

[21] **3,168,201**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/09 (2006.01) A61K 39/112 (2006.01) A61K 39/116 (2006.01) A61P 9/00 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **GROUP A STREP IMMUNOGENIC COMPOSITIONS WITH POLYSACCHARIDE-PROTEIN CONJUGATES**
[54] **COMPOSITIONS IMMUNOGENES DE STREP. DU GROUPE A COMPRENANT DES CONJUGUES POLYSACCHARIDE-PROTEINE**
[72] FAIRMAN, JEFFERY C., US
[72] KAPOOR, NEERAJ, US
[72] DAVEY, PETER T., US
[72] SEDRA, ANGIE A., US
[71] VAXCYTE, INC., US
[85] 2022-08-16
[86] 2021-02-17 (PCT/US2021/018402)
[87] (WO2021/167996)
[30] US (62/977,886) 2020-02-18
[30] US (63/013,924) 2020-04-22
[30] US (63/090,069) 2020-10-09
[30] US (63/123,293) 2020-12-09

[21] **3,168,202**
[13] A1
[51] **Int.Cl. C12Q 1/6841 (2018.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR INTEGRATED IN SITU SPATIAL ASSAY**
[54] **METHODES ET COMPOSITIONS POUR DOSAGE SPATIAL IN SITU INTEGRE**
[72] BAVA, FELICE ALESSIO, US
[72] BENT, ZACHARY, US
[71] 10X GENOMICS, INC., US
[85] 2022-08-16
[86] 2021-02-19 (PCT/US2021/018826)
[87] (WO2021/168287)
[30] US (62/980,078) 2020-02-21
[30] US (63/111,518) 2020-11-09

[21] **3,168,205**
[13] A1
[51] **Int.Cl. B05D 3/04 (2006.01) B05D 5/04 (2006.01) B05D 7/14 (2006.01) B21D 51/26 (2006.01) B32B 1/08 (2006.01) B32B 7/02 (2019.01) B32B 27/36 (2006.01) B41J 2/01 (2006.01) B65D 25/14 (2006.01) B65D 25/20 (2006.01) B65D 25/34 (2006.01)**
[25] EN
[54] **CAN CONTAINER**
[54] **CONTENANT DU TYPE CANETTE**
[72] SAITO, YUKIKO, JP
[72] MURAKAMI, SHIGENOBU, JP
[72] YAMADA, KOUJI, JP
[71] TOYO SEIKAN CO., LTD., JP
[85] 2022-08-16
[86] 2021-05-07 (PCT/JP2021/017452)
[87] (WO2021/225156)
[30] JP (2020-082264) 2020-05-07
[30] JP (2020-082275) 2020-05-07
[30] JP (2020-082277) 2020-05-07
[30] JP (2021-076833) 2021-04-28
[30] JP (2021-076781) 2021-04-28
[30] JP (2021-076965) 2021-04-30

[21] **3,168,208**
[13] A1
[51] **Int.Cl. C09D 133/06 (2006.01) C09D 133/08 (2006.01)**
[25] EN
[54] **STAIN-BLOCKING POLYMERS, PRIMERS, KITS, AND METHODS**
[54] **POLYMERES ANTITACHES, AMORCES, KITS ET PROCEDES**
[72] WANG, HSUAN-CHIN, US
[72] HIBBEN, MARY JANE, US
[71] SWIMC LLC, US
[85] 2022-08-16
[86] 2021-02-18 (PCT/US2021/018494)
[87] (WO2021/168062)
[30] US (62/979,931) 2020-02-21

[21] **3,168,212**
[13] A1
[51] **Int.Cl. C23G 1/08 (2006.01)**
[25] EN
[54] **FERRITIC STAINLESS STEEL AND METHOD FOR MANUFACTURING SAME**
[54] **ACIER INOXYDABLE FERRITIQUE ET SON PROCEDE DE FABRICATION**
[72] FUJIMURA, YOSHITOMO, JP
[72] HAMADA, TAKAHITO, JP
[72] MIZOGUCHI, TAICHIRO, JP
[71] NIPPON STEEL STAINLESS STEEL CORPORATION, JP
[85] 2022-08-16
[86] 2021-03-04 (PCT/JP2021/008317)
[87] (WO2021/182266)
[30] JP (2020-043212) 2020-03-12

[21] **3,168,213**
[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE D'AEROSOL**
[72] LEADLEY, DAVID, GB
[72] STANIFORTH, MARTYN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-08-16
[86] 2021-02-19 (PCT/GB2021/050423)
[87] (WO2021/170980)
[30] GB (2002898.1) 2020-02-28

[21] **3,168,219**
[13] A1
[51] **Int.Cl. B63B 35/66 (2006.01) B63H 5/08 (2006.01)**
[25] EN
[54] **A VESSEL**
[54] **VAISSEAU**
[72] VAN SCHAIK, JAN HENDRIK, NL
[71] DAMEN 40 B.V., NL
[85] 2022-08-16
[86] 2021-02-19 (PCT/EP2021/054099)
[87] (WO2021/170493)
[30] EP (20159261.5) 2020-02-25

[21] **3,168,220**
[13] A1
[51] **Int.Cl. G01C 11/06 (2006.01) G01B 11/00 (2006.01) G01B 11/16 (2006.01) G01C 15/00 (2006.01) G01C 15/04 (2006.01) G01C 15/06 (2006.01) G01S 5/16 (2006.01)**
[25] EN
[54] **APPARATUS, METHOD AND SYSTEM FOR MEASURING LOCATIONS ON AN OBJECT**
[54] **APPAREIL, PROCEDE ET SYSTEME DE MESURE D'EMPLACEMENTS SUR UN OBJET**
[72] JONGSMA, ARNOUD MARC, NL
[72] VAN WEEREN, DENNIS, NL
[72] DE BIJL, MARIO JOSEPHUS, NL
[71] FNV IP B.V., NL
[85] 2022-08-16
[86] 2021-02-18 (PCT/NL2021/050104)
[87] (WO2021/167452)
[30] NL (2024966) 2020-02-21

[21] **3,168,229**
[13] A1
[51] **Int.Cl. A47G 5/00 (2006.01) E06B 9/00 (2006.01) E06B 9/08 (2006.01)**
[25] EN
[54] **RETRACTABLE SCREEN SYSTEMS**
[54] **SYSTEMES D'ECRANS RETRACTABLES**
[72] JAMES, ARTHUR, US
[72] GROSS, JAN, US
[71] DEFENDER SCREENS INTERNATIONAL, LLC, US
[85] 2022-08-16
[86] 2021-02-23 (PCT/US2021/019154)
[87] (WO2021/173506)
[30] US (62/980,800) 2020-02-24
[30] US (62/980,667) 2020-02-24
[30] US (62/980,724) 2020-02-24
[30] US (62/980,826) 2020-02-24

[21] **3,168,233**
[13] A1
[51] **Int.Cl. E04H 17/14 (2006.01) E04F 11/18 (2006.01) F16B 7/00 (2006.01)**
[25] EN
[54] **RAILING SYSTEMS AND BRACKETS FOR SAME**
[54] **SYSTEMES DE GARDE-CORPS ET SUPPORTS POUR CEUX-CI**
[72] WALKER, SIMON, CA
[72] LAWSON, CRAIG, CA
[72] YOUNG, CHARLES, CA
[72] MANTEI, ADAM, CA
[71] PEAK PRODUCTS MANUFACTURING INC., CA
[85] 2022-08-16
[86] 2021-03-24 (PCT/CA2021/050384)
[87] (WO2021/189140)
[30] US (62/993,886) 2020-03-24

[21] **3,168,243**
[13] A1
[51] **Int.Cl. B61F 5/32 (2006.01)**
[25] EN
[54] **A PEDESTAL LINER**
[54] **REVETEMENT DE SOCLE**
[72] LEGER, JEAN-PATRICK, ZA
[71] LEGER, JEAN-PATRICK, ZA
[85] 2022-08-16
[86] 2021-02-22 (PCT/ZA2021/050010)
[87] (WO2021/168488)
[30] ZA (2020/01068) 2020-02-20
[30] ZA (2020/02795) 2020-05-15

[21] **3,168,253**
[13] A1
[51] **Int.Cl. F16C 33/12 (2006.01) C09J 7/35 (2018.01) C09J 7/38 (2018.01) F16C 33/14 (2006.01)**
[25] EN
[54] **BEARINGS AND COMPONENTS THEREOF COMPRISING A HOT-MELT PRESSURE SENSITIVE ADHESIVE AND METHODS OF THEIR PREPARATION**
[54] **PALIERS ET COMPOSANTS DE PALIERS COMPRENANT UN ADHESIF SENSIBLE A LA PRESSION THERMOFUSIBLE ET PROCEDES DE FABRICATION ASSOCIES**
[72] WILLIAMS, CHARLES TERRELL, US
[72] LA FLEUR, EDWARD EWART, US
[71] CIPO, CA
[71] NAUTILUS SOLUTIONS, LLC, US
[85] 2022-08-16
[86] 2021-03-12 (PCT/US2021/022078)
[87] (WO2021/183864)
[30] US (62/989,553) 2020-03-13

[21] **3,168,288**
[13] A1
[51] **Int.Cl. C12N 15/10 (2006.01) C12Q 1/68 (2018.01) G01N 27/447 (2006.01)**
[25] EN
[54] **SYSTEMS, DEVICES, AND METHODS FOR ELECTROPHORETIC EXTRACTING AND ENRICHING EXTRACHROMOSOMAL DNA**
[54] **SYSTEMES, DISPOSITIFS ET PROCEDES D'EXTRACTION ELECTROPHORETIQUE ET D'ENRICHISSEMENT D'ADN EXTRACHROMOSOMIQUE**
[72] BOLES, T. CHRISTIAN, US
[71] SAGE SCIENCE, INC., US
[85] 2022-08-17
[86] 2021-04-23 (PCT/US2021/028922)
[87] (WO2021/217052)
[30] US (63/015,288) 2020-04-24

[21] **3,168,292**
[13] A1
[51] **Int.Cl. A61B 5/287 (2021.01) A61N 1/05 (2006.01) A61N 1/362 (2006.01)**
[25] EN
[54] **A MULTIDIRECTIONAL BALLOON TIPPED CATHETER SYSTEM FOR CONDUCTING HIS BUNDLE SENSING AND PACING**
[54] **SYSTEME DE CATHETER A POINTE A BALLONNET MULTIDIRECTIONNEL POUR CONDUIRE LA DETECTION ET LA STIMULATION DE FAISCEAU DE HIS**
[72] MAINI, BRIJESHWAR S., US
[71] EAST END MEDICAL, LLC, US
[85] 2022-08-17
[86] 2021-02-11 (PCT/US2021/017528)
[87] (WO2021/167825)
[30] US (62/977,973) 2020-02-18

[21] **3,168,293**
[13] A1
[51] **Int.Cl. A61K 38/12 (2006.01) A61P 25/00 (2006.01) C07K 14/665 (2006.01)**
[25] EN
[54] **CYCLOTIDES IN COMBINATION WITH KAPPA OPIOID RECEPTOR LIGANDS FOR MS THERAPY**
[54] **CYCLOTIDES EN COMBINAISON AVEC DES LIGANDS DU RECEPTEUR OPIOIDE KAPPA POUR UNE THERAPIE DE LA SEP**
[72] GRUBER, CHRISTIAN, AT
[72] MURATSPAHIC, EDIN, AT
[71] CIPO, CA
[71] MEDIZINISCHE UNIVERSITAT WIEN, AT
[85] 2022-08-17
[86] 2021-03-19 (PCT/EP2021/057094)
[87] (WO2021/186035)
[30] EP (20164576.9) 2020-03-20

[21] **3,168,299**
[13] A1
[51] **Int.Cl. B64D 13/06 (2006.01) A62B 7/14 (2006.01)**
[25] EN
[54] **OBOGS COMPOSITION CONTROL AND HEALTH MONITORING**
[54] **CONTROLE DE LA COMPOSITION D'OBOGS ET SURVEILLANCE DE LA SANTE**
[72] PEAKE, STEVEN C., US
[71] COBHAM MISSION SYSTEMS DAVENPORT LSS INC., US
[85] 2022-08-17
[86] 2021-02-18 (PCT/US2021/018548)
[87] (WO2021/168093)
[30] US (62/978,097) 2020-02-18

[21] **3,168,301**
[13] A1
[51] **Int.Cl. A61M 25/10 (2013.01)**
[25] EN
[54] **DEFLECTABLE ANCHOR BALLOON CATHETER FOR VASCULAR PROCEDURES**
[54] **CATHETER A BALLONNET D'ANCRAGE POUVANT ETRE DEVIE POUR PROCEDURES VASCULAIRES**
[72] MAINI, BRIJESHWAR S., US
[71] EAST END MEDICAL, LLC, US
[85] 2022-08-17
[86] 2021-02-17 (PCT/US2021/018409)
[87] (WO2021/168003)
[30] US (62/977,993) 2020-02-18

[21] **3,168,306**
[13] A1
[51] **Int.Cl. A47J 31/00 (2006.01) B67D 1/00 (2006.01) B67D 1/08 (2006.01)**
[25] EN
[54] **MONITORING EQUILIBRIUM AND DISPENSEMENT OF A FLUID DISPENSEMENT SYSTEM TO IMPROVE QUALITY AND EFFICIENCY**
[54] **SURVEILLANCE DE L'EQUILIBRE ET DE LA DISTRIBUTION D'UN SYSTEME DE DISTRIBUTION DE FLUIDE POUR AMELIORER LA QUALITE ET L'EFFICACITE**
[72] DANIELSON, BRETT, US
[72] MARKLE, HUNTER, US
[72] HOBAR, GRANT, US
[72] CESNIK, JEFFREY T., US
[72] ATHERTON, DAVID, US
[71] BARTRACK, INC., US
[85] 2022-08-17
[86] 2021-02-12 (PCT/US2021/017845)
[87] (WO2021/167843)
[30] US (16/797,790) 2020-02-21

[21] **3,168,312**
[13] A1
[51] **Int.Cl. A61J 1/14 (2006.01) A61J 1/20 (2006.01) A61J 7/00 (2006.01)**
[25] EN
[54] **MATRIX AND ASSOCIATED SAMPLE OR MIXING CUP USED FOR REMOVING COMPONENTS OF A LIQUID SAMPLE**
[54] **MATRICE ET COUPELLE A ECHANTILLON OU DE MELANGE ASSOCIEE UTILISEE POUR ELIMINER DES COMPOSANTS D'UN ECHANTILLON LIQUIDE**
[72] FALLER, JESSE DANIEL, US
[72] LACHAPELLE, ROBERT W., US
[72] PELLETIER, DOMINIC, US
[71] IDEXX LABORATORIES, INC., US
[85] 2022-08-17
[86] 2021-03-08 (PCT/US2021/021359)
[87] (WO2021/183434)
[30] US (62/987,077) 2020-03-09

[21] **3,168,315**
[13] A1
[51] **Int.Cl. A61M 25/01 (2006.01)**
[25] EN
[54] **TUBULAR INSTRUMENT TO REDUCE VEIN TRAUMA AND RELATED DEVICES AND METHODS**
[54] **INSTRUMENT TUBULAIRE POUR REDUIRE UN TRAUMATISME VEINEUX ET DISPOSITIFS ET PROCEDES ASSOCIES**
[72] BURKHOLZ, JONATHAN KARL, US
[72] BLANCHARD, CURTIS H., US
[72] SCHERICH, MEGAN, US
[72] HARDING, WESTON F., US
[72] SPATARO, JOSEPH, US
[72] MA, YIPING, US
[72] ISAACSON, S. RAY, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2022-08-17
[86] 2021-02-09 (PCT/US2021/017252)
[87] (WO2021/173341)
[30] US (62/980,837) 2020-02-24
[30] US (17/168,784) 2021-02-05

[21] **3,168,316**
[13] A1
[51] **Int.Cl. A61B 17/22 (2006.01) A61F 2/01 (2006.01)**
[25] EN
[54] **CLOT REMOVAL DISTAL PROTECTION METHODS**
[54] **METHODES DE PROTECTION DISTALE D'ELIMINATION DE CAILLOTS**
[72] GRIFFIN, STEPHEN, US
[71] CERUS ENDOVASCULAR LIMITED, GB
[85] 2022-08-17
[86] 2021-02-19 (PCT/EP2021/054103)
[87] (WO2021/165443)
[30] US (16/796,788) 2020-02-20

[21] **3,168,320**
[13] A1
[51] **Int.Cl. A63G 7/00 (2006.01) A63G 31/00 (2006.01)**
[25] EN
[54] **RIDER MONITORING USING DEPTH SENSOR**
[54] **SURVEILLANCE D'UTILISATEUR A L'AIDE D'UN CAPTEUR DE PROFONDEUR**
[72] KRAUTHAMER, AKIVA MEIR, US
[72] GARNIER, TIMOTHY FITZGERALD, US
[72] PEARSE, MATTHEW SEAN, US
[72] LIN, YU-JEN, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2022-08-17
[86] 2021-03-01 (PCT/US2021/020310)
[87] (WO2021/178316)
[30] US (62/984,092) 2020-03-02
[30] US (16/827,113) 2020-03-23

[21] **3,168,324**
[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01) A61K 47/54 (2017.01) A61P 25/00 (2006.01)**
[25] EN
[54] **LIPID CONJUGATED PEPTIDE INHIBITORS OF PICK1**
[54] **INHIBITEURS PEPTIDIQUES CONJUGUES A DES LIPIDES DE PI1**
[72] MADSEN, KENNETH L., DK
[72] GETHER, ULRIK, DK
[72] CHRISTENSEN, NIKOLAJ RIIS, DK
[71] UNIVERSITY OF COPENHAGEN, DK
[85] 2022-08-17
[86] 2021-03-05 (PCT/EP2021/055678)
[87] (WO2021/176094)
[30] EP (20161493.0) 2020-03-06

[21] **3,168,327**
[13] A1
[51] **Int.Cl. A63F 9/02 (2006.01) A63G 31/00 (2006.01) A63G 33/00 (2006.01) F41A 33/02 (2006.01) F41J 5/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETECTING DATA CORRESPONDING TO FLUID STREAM**
[54] **SYSTEMES ET PROCEDES PERMETTANT DE DETECTER DES DONNEES CORRESPONDANT A UN COURANT DE FLUIDE**
[72] JEROMIN, AARON CHANDLER, US
[72] KRAUTHAMER, AKIVA MEIR, US
[72] HERTZLER, ELAM KEVIN, US
[72] RAIJ, ANDREW BRIAN, US
[72] LUGO, VICTOR ALEXANDER, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2022-08-17
[86] 2021-03-01 (PCT/US2021/020323)
[87] (WO2021/178322)
[30] US (62/983,998) 2020-03-02
[30] US (16/827,336) 2020-03-23

[21] **3,168,330**
[13] A1
[51] **Int.Cl. A61K 35/28 (2015.01) A61P 37/06 (2006.01)**
[25] EN
[54] **METHOD FOR TREATING CHRONIC GRAFT VERSUS HOST DISEASE**
[54] **METHODE DE TRAITEMENT DE MALADIE CHRONIQUE DU GREFFON CONTRE L'HOTE**
[72] ITESCU, SILVIU, AU
[71] MESOBLAST INTERNATIONAL SARL, CH
[85] 2022-08-17
[86] 2021-02-18 (PCT/EP2021/054066)
[87] (WO2021/165420)
[30] AU (2020900472) 2020-02-19

[21] **3,168,332**
[13] A1
[51] **Int.Cl. F23B 60/00 (2006.01) F23M 20/00 (2014.01) F23B 90/00 (2011.01) F23G 7/06 (2006.01) F24B 1/197 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IMPROVING THE COMBUSTION PROCESS OF A SOLID FUEL BY MEANS OF AN INERT POROUS MEDIUM**
[54] **SYSTEME ET PROCEDE POUR AMELIORER LE PROCESSUS DE COMBUSTION D'UN COMBUSTIBLE SOLIDE AU MOYEN D'UN MILIEU POREUX INERTE**
[72] TOLEDO TORRES, MARIO GONZALO, CL
[71] UNIVERSIDAD TECNICA FEDERICO SANTA MARIA, CL
[85] 2022-08-17
[86] 2020-12-15 (PCT/CL2020/050179)
[87] (WO2021/119871)
[30] CL (3683-2019) 2019-12-16

[21] **3,168,333**
[13] A1
[51] **Int.Cl. G06F 30/27 (2020.01) H02J 50/05 (2016.01) H02J 50/10 (2016.01) G06F 30/39 (2020.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MODELING WIRELESS POWER TRANSFER SYSTEMS INCLUDING STACKED RING RESONATORS**
[54] **SYSTEMES ET PROCEDES DE MODELISATION DE SYSTEMES DE TRANSFERT D'ENERGIE SANS FIL COMPRENANT DES RESONATEURS EN ANNEAU EMPILES**
[72] HANSEN, JOHN FREDDY, US
[71] TC1 LLC, US
[85] 2022-08-17
[86] 2021-02-24 (PCT/US2021/019378)
[87] (WO2021/173642)
[30] US (62/980,575) 2020-02-24

[21] **3,168,334**
[13] A1
[51] **Int.Cl. A61K 8/04 (2006.01) A61K 8/31 (2006.01) A61K 8/73 (2006.01)**
[25] EN
[54] **DRY SHAMPOO COMPOSITION**
[54] **COMPOSITION DE SHAMPOING SEC**
[72] ALPASLAN, SEYFI, GB
[72] DESALE, SHIRISH, GB
[71] CHURCH & DWIGHT CO., INC., US
[85] 2022-08-17
[86] 2021-02-25 (PCT/IB2021/051584)
[87] (WO2021/171222)
[30] US (62/983,261) 2020-02-28

[21] **3,168,335**
[13] A1
[51] **Int.Cl. E06B 9/06 (2006.01) E06B 3/92 (2006.01) E06B 7/08 (2006.01) E06B 7/082 (2006.01)**
[25] EN
[54] **VERTICALLY TELESCOPING CLOSURE APPARATUS**
[54] **APPAREIL DE FERMETURE TELESCOPIQUE VERTICALEMENT**
[72] ORTIZ MEDRANO, SERGIO A., US
[72] ZAPATA, OMAR, US
[71] ORTIZ MEDRANO, SERGIO A., US
[71] ZAPATA, OMAR, US
[85] 2022-08-17
[86] 2021-01-21 (PCT/US2021/014393)
[87] (WO2021/167741)
[30] US (16/792,986) 2020-02-18

[21] **3,168,337**
[13] A1
[51] **Int.Cl. C07K 14/545 (2006.01) A61K 35/17 (2015.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS FOR EXPANSION OF TUMOR INFILTRATING LYMPHOCYTES AND USE THEREOF**
[54] **PROCEDES D'EXPANSION DE LYMPHOCYTES INFILTRANT LES TUMEURS ET LEUR UTILISATION**
[72] FORGET, MARIE-ANDREE, US
[72] BERNATCHEZ, CHANTALE, US
[72] HAYMAKER, CARA, US
[72] CURRAN, MICHAEL A., US
[72] HWU, PATRICK, US
[72] YEE, CASSIAN, US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2022-08-17
[86] 2021-02-16 (PCT/US2021/018252)
[87] (WO2021/167908)
[30] US (62/977,672) 2020-02-17

[21] **3,168,338**
[13] A1
[51] **Int.Cl. F24C 15/20 (2006.01)**
[25] EN
[54] **EXHAUST FAN FOR A COMMERCIAL KITCHEN**
[54] **VENTILATEUR D'EXTRACTION POUR UNE CUISINE PROFESSIONNELLE**
[72] MCELRONE, PATRICK, US
[72] HESS, JOSHUA, US
[71] CAPTIVE-AIRE SYSTEMS, INC., US
[85] 2022-08-17
[86] 2020-12-18 (PCT/US2020/065921)
[87] (WO2021/167692)
[30] US (16/795,888) 2020-02-20

[21] **3,168,341**
[13] A1
[51] **Int.Cl. A61N 5/06 (2006.01) B82Y 20/00 (2011.01) A61K 9/06 (2006.01) A61N 5/02 (2006.01) H01L 51/50 (2006.01)**
[25] EN
[54] **PHOTOTHERAPY DEVICES AND METHODS**
[54] **DISPOSITIFS ET METHODES PHOTOTHERAPEUTIQUES**
[72] BOLDUC, ZACHARY, US
[72] BOLDUC, ROY ALAN, US
[72] HEMLEPP, DOUGLAS PRICE, US
[71] BOLDUC, ZACHARY, US
[71] BOLDUC, ROY ALAN, US
[71] HEMLEPP, DOUGLAS PRICE, US
[85] 2022-08-17
[86] 2021-02-19 (PCT/US2021/018873)
[87] (WO2021/168322)
[30] US (62/995,927) 2020-02-21
[30] US (63/107,515) 2020-10-30
[30] US (63/109,015) 2020-11-03
[30] US (63/109,058) 2020-11-03

[21] **3,168,342**
[13] A1
[51] **Int.Cl. B05D 1/06 (2006.01) C09D 5/03 (2006.01) C09D 163/00 (2006.01) C09D 171/12 (2006.01)**
[25] EN
[54] **THERMALLY CONDUCTIVE AND ELECTRICALLY INSULATING POWDER COATING COMPOSITIONS**
[54] **COMPOSITIONS DE REVETEMENT EN POUDRE THERMIQUEMENT CONDUCTRICES ET ELECTRIQUEMENT ISOLANTES**
[72] MA, LIANG, US
[72] MUNRO, CALUM H., US
[72] POLLUM, JR. MARVIN M., US
[72] DEI, DANIEL K., US
[72] WOODWORTH, BRIAN E., US
[72] SCHNEIDER, JOHN R., US
[72] FRENCH, MARIA S., GB
[72] CONDIE, ALLISON G., US
[72] GONDER-JONES, HOLLI, US
[72] APANIUS, CHRISTOPHER, US
[72] BANCROFT, CASSANDRA NOELLE, US
[71] PPG INDUSTRIES OHIO, INC., US
[85] 2022-08-17
[86] 2021-02-26 (PCT/US2021/019831)
[87] (WO2021/173941)
[30] US (62/981,741) 2020-02-26

[21] **3,168,345**
[13] A1
[51] **Int.Cl. A63G 31/16 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR REACTIVE PROJECTION-MAPPED SHOW ROBOT**
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT POUR ROBOT DE SPECTACLE CARTOGRAPHIE PAR PROJECTION REACTIVE**
[72] SMITH, MICHELLE ELIZABETH, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2022-08-17
[86] 2021-03-01 (PCT/US2021/020325)
[87] (WO2021/178324)
[30] US (16/806,722) 2020-03-02

[21] **3,168,346**
[13] A1
[51] **Int.Cl. E04H 17/14 (2006.01)**
[25] EN
[54] **FENCE**
[54] **CLOTURE**
[72] MESSELIS, TIMOTHY, BE
[72] SYNODINOS, STEFANOS, BE
[71] GUARDIAR EUROPE BVBA, BE
[85] 2022-08-17
[86] 2020-12-17 (PCT/EP2020/086734)
[87] (WO2021/164923)
[30] GB (2002340.4) 2020-02-20

[21] **3,168,347**
[13] A1
[51] **Int.Cl. G06F 9/451 (2018.01) G06F 3/0482 (2013.01) G06F 9/448 (2018.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR DISPLAYING ACTIVE FRIEND INFORMATION, ELECTRONIC DEVICE, AND STORAGE MEDIUM**
[54] **PROCEDE ET APPAREIL D'AFFICHAGE D'INFORMATIONS D'ACTIVITES D'AMIS, DISPOSITIF ELECTRONIQUE, ET SUPPORT DE STOCKAGE**
[72] XU, JIANNAN, CN
[72] CHANG, WEIYI, CN
[72] ZHANG, CHAO, CN
[72] LIU, RUIPENG, CN
[72] LI, LIANYING, CN
[72] PENG, YUCHEN, CN
[72] ZHENG, ZIYANG, CN
[71] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN
[85] 2022-08-17
[86] 2021-08-16 (PCT/CN2021/112811)
[87] (WO2022/042357)
[30] CN (202010868841.X) 2020-08-25

[21] **3,168,349**
[13] A1
[51] **Int.Cl. G06F 9/50 (2006.01)**
[25] EN
[54] **FUNCTION-AS-A-SERVICE (FAAS) MODEL FOR SPECIALIZED PROCESSING UNITS**
[54] **MODELE DE FONCTION EN TANT QUE SERVICE (FAAS) POUR UNITES DE TRAITEMENT SPECIALISEES**
[72] BARTON, ROBERT EDGAR, CA
[72] HENRY, JEROME, US
[72] GYUREK, RUSSELL PAUL, US
[72] BROCKNERS, FRANK, DE
[71] CISCO TECHNOLOGY, INC., US
[85] 2022-08-17
[86] 2021-02-12 (PCT/US2021/017906)
[87] (WO2021/183258)
[30] US (16/817,390) 2020-03-12

[21] **3,168,350**
[13] A1
[51] **Int.Cl. E01C 11/22 (2006.01)**
[25] EN
[54] **EDGE RESTRAINT WITH MECHANISM FOR RESTRICTED HORIZONTAL MOVEMENT**
[54] **BORDURE AVEC MECANISME POUR LIMITATION DE DEPLACEMENT HORIZONTAL**
[72] JONES, STEPHEN, US
[71] JONES, STEPHEN, US
[85] 2022-08-17
[86] 2021-02-18 (PCT/US2021/018538)
[87] (WO2021/168086)
[30] US (62/978,659) 2020-02-19

[21] **3,168,351**
[13] A1
[51] **Int.Cl. E05F 15/619 (2015.01) G05B 15/02 (2006.01)**
[25] EN
[54] **DEVICE FOR OPENING OR CLOSING OF A WINDOW OR DOOR AND A SYSTEM AND METHOD FOR CONTROLLING AND MANAGEMENT OF THE AIR QUALITY OF INDOOR PREMISES**
[54] **DISPOSITIF D'OUVERTURE OU DE FERMETURE D'UNE FENETRE OU D'UNE PORTE ET SYSTEME ET PROCEDE DE COMMANDE ET DE GESTION DE LA QUALITE DE L'AIR DES LOCAUX D'INTERIEUR**
[72] TODOROV, GABRIEL TODOROV, BG
[72] SLAVCHEV, KRASIMIR GEORGIEV, BG
[71] BULINFO EOOD, BG
[85] 2022-08-17
[86] 2021-02-23 (PCT/EP2021/054409)
[87] (WO2021/170563)
[30] EP (20472001.5) 2020-02-26

[21] **3,168,352**
[13] A1
[51] **Int.Cl. B41M 3/14 (2006.01) B42D 25/351 (2014.01) B42D 25/373 (2014.01) B42D 25/405 (2014.01) B41M 7/00 (2006.01)**
[25] EN
[54] **SECURITY FEATURE FOR PRINTED PRODUCTS**
[54] **ELEMENT DE SECURITE POUR PRODUITS IMPRIMES**
[72] THURAILINGAM, THIVAHARAN, CA
[71] CANADIAN BANK NOTE COMPANY, LIMITED, CA
[85] 2022-08-17
[86] 2021-02-20 (PCT/CA2021/050198)
[87] (WO2021/163813)
[30] CA (3,073,416) 2020-02-21

[21] **3,168,353**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) A61K 39/215 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **VACCINES AGAINST CORONAVIRUS AND METHODS OF USE**
[54] **VACCINS CONTRE LE CORONAVIRUS ET LEURS METHODES D'UTILISATION**
[72] YAN, JIAN, US
[72] BRODERICK, KATE, US
[72] WEINER, DAVID, US
[72] MUTHUMANI, KAR, US
[72] PATEL, AMI, US
[71] INOVIO PHARMACEUTICALS, INC., US
[71] THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY, US
[85] 2022-08-17
[86] 2021-02-25 (PCT/US2021/019662)
[87] (WO2021/173829)
[30] US (62/981,451) 2020-02-25
[30] US (63/062,762) 2020-08-07
[30] US (63/056,996) 2020-07-27
[30] US (63/136,973) 2021-01-13
[30] US (63/063,157) 2020-08-07
[30] US (63/033,349) 2020-06-02
[30] US (63/040,865) 2020-06-18
[30] US (63/022,032) 2020-05-08
[30] US (62/981,168) 2020-02-25
[30] US (63/028,404) 2020-05-21
[30] US (63/130,593) 2020-12-24
[30] US (63/114,858) 2020-11-17
[30] US (63/004,380) 2020-04-02
[30] US (63/046,415) 2020-06-30

[21] **3,168,354**
[13] A1
[51] **Int.Cl. H02H 9/00 (2006.01) H01C 7/12 (2006.01) H02B 1/04 (2006.01)**
[25] EN
[54] **POWER SURGE PROTECTOR**
[54] **PARASURTENSEUR**
[72] BEAUREGARD, MARTIAL, CA
[72] BEAUREGARD, MAXIM, CA
[72] FONTAINE, JEAN, CA
[71] 10551554 CANADA INC. D/B/A ARMADA SURGE PROTECTION, CA
[85] 2022-08-17
[86] 2021-02-26 (PCT/CA2021/050252)
[87] (WO2021/168585)
[30] US (62/981,657) 2020-02-26

[21] **3,168,355**
[13] A1
[51] **Int.Cl. C07D 515/22 (2006.01)**
[25] EN
[54] **MACROCYCLIC INDOLE DERIVATIVES AS INHIBITORS OF MCL-1**
[54] **DERIVES D'INDOLE MACROCYCLIQUES EN TANT QU'INHIBITEURS DE MCL-1**
[72] ROMBOUTS, FREDERIK JAN RITA, BE
[72] REUILLON, TRISTAN, BE
[72] PESCHIULLI, ALDO, BE
[72] VELTER, ADRIANA INGRID, BE
[72] VOS, ANN MARLEEN, BE
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2022-08-17
[86] 2021-02-18 (PCT/EP2021/053973)
[87] (WO2021/165370)
[30] EP (20158764.9) 2020-02-21
[30] EP (20169887.5) 2020-04-16
[30] EP (20184956.9) 2020-07-09

[21] **3,168,357**
[13] A1
[51] **Int.Cl. B65D 51/18 (2006.01) A24F 1/14 (2006.01) A47J 41/00 (2006.01) B65D 39/00 (2006.01) B65D 47/04 (2006.01) B65D 47/32 (2006.01) B65D 51/24 (2006.01) B65D 51/28 (2006.01)**
[25] EN
[54] **DUAL-ACCESS CONTAINER CLOSURE**
[54] **FERMETURE DE RECIPIENT A DOUBLE ACCES**
[72] ASHTON, JASON, US
[71] ASHTON, JASON, US
[85] 2022-08-17
[86] 2021-02-19 (PCT/US2021/018860)
[87] (WO2021/168310)
[30] US (16/797,665) 2020-02-21

[21] **3,168,358**
[13] A1
[51] **Int.Cl. G01F 15/14 (2006.01) H01R 13/52 (2006.01) H01R 13/533 (2006.01) G01F 1/84 (2006.01)**
[25] EN
[54] **ASSEMBLIES, COMPONENTS, AND METHODS FOR CREATING A FLAMEPROOF OR EXPLOSION PROOF BARRIER**
[54] **ENSEMBLES, COMPOSANTS ET PROCEDES DE CREATION D'UNE BARRIERE PARE-FLAMMES OU ANTIDEFLAGRANTE**
[72] PAVOL, ERIC, US
[72] JAMES, CLAYTON T., US
[72] SHANAHAN, SHAUN E., US
[72] DESHPANDE, ATUL VASANT, IN
[72] SOHM, HOWARD IRVING, JR., US
[71] MICRO MOTION, INC., US
[85] 2022-08-17
[86] 2020-02-18 (PCT/US2020/018559)
[87] (WO2021/167589)

[21] **3,168,359**
[13] A1
[51] **Int.Cl. A24D 1/20 (2020.01)**
[25] EN
[54] **AEROSOL-GENERATING ARTICLE WITH IMPROVED CONFIGURATION**
[54] **ARTICLE DE GENERATION D'AEROSOL A CONFIGURATION AMELIOREE**
[72] D'AMBRA, GIANPAOLO, IT
[72] NESOVIC, MILICA, CH
[72] UTHURRY, JEROME, CH
[71] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2022-08-17
[86] 2021-02-24 (PCT/EP2021/054538)
[87] (WO2021/170640)
[30] EP (20160212.5) 2020-02-28

[21] **3,168,363**
[13] A1
[51] **Int.Cl. G06F 9/451 (2018.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR USER GUIDE, DEVICE AND STORAGE MEDIUM**
[54] **PROCEDE ET APPAREIL DE GUIDAGE D'UTILISATEURS, DISPOSITIF ET SUPPORT DE STOCKAGE**
[72] LIANG, CHENQI, CN
[72] BAI, XIAOSHUANG, CN
[72] WANG, YUXI, CN
[71] BEIJING ZITIAO NETWORK TECHNOLOGY CO., LTD., CN
[85] 2022-08-17
[86] 2021-09-18 (PCT/CN2021/119400)
[87] (WO2022/063090)
[30] CN (202011027615.5) 2020-09-25

[21] **3,168,364**
[13] A1
[51] **Int.Cl. H01M 8/16 (2006.01) H01M 8/1025 (2016.01)**
[25] FR
[54] **DUAL-CATHODE FUEL BIOCELL**
[54] **BIOPILE BI-CATHODIQUE A? COMBUSTIBLE**
[72] HOLZINGER, MICHAEL, FR
[72] HAMMOND, JULES, FR
[72] GROSS, ANDREW, FR
[72] BLOCH, JEAN-FRANCIS, FR
[72] COSNIER, SERGE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] INSTITUT POLYTECHNIQUE DE GRENOBLE, FR
[71] UNIVERSITE GRENOBLE ALPES, FR
[85] 2022-08-17
[86] 2021-02-26 (PCT/EP2021/054882)
[87] (WO2021/170826)
[30] FR (FR2001980) 2020-02-27

[21] **3,168,365**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) A61P 27/02 (2006.01) C07K 14/47 (2006.01) C12N 7/01 (2006.01) C12N 15/12 (2006.01) C12N 15/864 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **TREATING AUTOSOMAL DOMINANT BESTROPHINOPATHIES AND METHODS FOR EVALUATING SAME**
[54] **TRAITEMENT DE BESTROPHINOPATHIES DOMINANTES AUTOSOMIQUES ET PROCEDES D'EVALUATION DE CELLES-CI**
[72] CIDECIYAN, ARTUR V., US
[72] JACOBSON, SAMUEL G., US
[72] GUZIEWICZ, KARINA E., US
[72] BELTRAN, WILLIAM A., US
[72] AGUIRRE, GUSTAVO D., US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2022-08-17
[86] 2021-02-28 (PCT/US2021/020169)
[87] (WO2021/174173)
[30] US (62/983,052) 2020-02-28
[30] US (62/983,046) 2020-02-28

[21] **3,168,366**
[13] A1
[51] **Int.Cl. C01B 32/18 (2017.01) C01B 32/158 (2017.01) C01B 32/159 (2017.01) C01B 32/20 (2017.01)**
[25] EN
[54] **CARBON-BASED CONDUCTING INKS**
[54] **ENCRES CONDUCTRICES A BASE DE CARBONE**
[72] DALTON, ALAN, GB
[72] LARGE, MATTHEW, GB
[72] OGILVIE, SEAN, GB
[72] JOHNSTONE, JAMES, GB
[71] ADVANCED MATERIAL DEVELOPMENT LIMITED, GB
[85] 2022-08-17
[86] 2021-03-04 (PCT/EP2021/055458)
[87] (WO2021/175989)
[30] EP (20161263.7) 2020-03-05

[21] **3,168,368**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61P 35/02 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTIBODY-DRUG CONJUGATE INCLUDING NOVEL CYCLIC DINUCLEOTIDE DERIVATIVE**
[54] **CONJUGUE ANTICORPS-MEDICAMENT COMPRENANT UN NOUVEAU DERIVE DE DINUCLEOTIDE CYCLIQUE**
[72] ISHIZAKI, MASAYUKI, JP
[72] SUZUKI, OSAMU, JP
[72] KYUTOKU, MARIKO, JP
[72] YUKIURA, HIROSHI, JP
[72] HARA, KYOKO, JP
[72] CHIHARA, MASATAKA, JP
[72] OTSUKA, TAKAFUMI, JP
[72] WADA, TEIJI, JP
[71] DAIICHI SANKYO COMPANY, LIMITED, JP
[85] 2022-08-17
[86] 2021-03-05 (PCT/JP2021/008635)
[87] (WO2021/177438)
[30] JP (2020-038983) 2020-03-06

[21] **3,168,369**
[13] A1
[51] **Int.Cl. B01J 23/745 (2006.01) C25B 1/01 (2021.01) C25B 9/23 (2021.01) B01J 23/755 (2006.01) B01J 23/83 (2006.01) B01J 37/02 (2006.01) C07B 61/00 (2006.01) C07C 1/12 (2006.01) C07C 9/04 (2006.01) C25B 1/04 (2021.01)**
[25] EN
[54] **REVERSE WATER-GAS SHIFT CATALYST, ELECTROLYTIC REACTION SYSTEM, HYDROCARBON PRODUCTION SYSTEM, AND PRODUCTION METHOD AND USE METHOD THEREFOR**
[54]
[72] ECHIGO, MITSUAKI, JP
[72] TSUDA, YUJI, JP
[72] HIRANO, TAKENORI, JP
[71] OSAKA GAS CO., LTD., JP
[85] 2022-08-17
[86] 2021-03-31 (PCT/JP2021/014081)
[87] (WO2021/201190)
[30] JP (2020-065253) 2020-03-31

---

[21] **3,168,370**
[13] A1
[51] **Int.Cl. A61K 31/225 (2006.01) A61K 45/06 (2006.01) A61P 3/06 (2006.01)**
[25] EN
[54] **AZELAIC ACID ESTERS IN THE TREATMENT OR PREVENTION OF DYSLIPIDEMIA AND ASSOCIATED CONDITIONS**
[54] **ESTERS D'ACIDE AZELAIQUE DANS LE TRAITEMENT OU LA PREVENTION DE LA DYSLIPIDEMIE ET DE PATHOLOGIES ASSOCIEES**
[72] STREEPER, ROBERT T., US
[72] IZBICKA, ELZBIETA, US
[71] NEW FRONTIER LABS, LLC, US
[85] 2022-08-17
[86] 2021-02-19 (PCT/IB2021/051451)
[87] (WO2021/165924)
[30] US (62/978,785) 2020-02-19

---

[21] **3,168,371**
[13] A1
[51] **Int.Cl. A61F 13/15 (2006.01) A61F 13/49 (2006.01) B32B 5/02 (2006.01) B32B 7/04 (2019.01) B32B 37/15 (2006.01)**
[25] EN
[54] **ELASTIC DIAPER ELEMENT**
[54] **ELEMENT DE COUCHE ELASTIQUE**
[72] WILLING, CHRISTOPH, DE
[71] RKW SE, DE
[85] 2022-08-17
[86] 2020-10-29 (PCT/EP2020/080352)
[87] (WO2021/170261)
[30] DE (10 2020 105 263.4) 2020-02-28

---

[21] **3,168,373**
[13] A1
[51] **Int.Cl. A61K 8/64 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING HYDROLYSED PROTEINS**
[54] **COMPOSITIONS COMPRENANT DES PROTEINES HYDROLYSEES**
[72] JAMES, NEIL, GB
[72] PARK, KIMUN, US
[71] CRODA, INC., US
[71] CRODA INTERNATIONAL PLC, GB
[85] 2022-08-17
[86] 2021-02-26 (PCT/US2021/019848)
[87] (WO2021/173954)
[30] US (62/982,862) 2020-02-28

---

[21] **3,168,374**
[13] A1
[51] **Int.Cl. B60P 3/22 (2006.01) B65D 90/10 (2006.01) B65D 90/34 (2006.01)**
[25] EN
[54] **TANK TRAILER WITH FLUID COLLECTION SYSTEM**
[54] **REMORQUE-CITERNE AVEC SYSTEME COLLECTE DE FLUIDE**
[72] SYNNOTT, ALEXANDRE, CA
[72] BEAUDETTE, PIERRE-LUC, CA
[71] TREMCAR INC., CA
[85] 2022-08-17
[86] 2021-12-16 (PCT/CA2021/051814)
[87] (WO2022/126267)
[30] US (63/126,600) 2020-12-17

---

[21] **3,168,377**
[13] A1
[51] **Int.Cl. A61K 31/4439 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **USE OF COMPOUND IN PREVENTING AND/OR TREATING PATHOGEN INFECTION IN ANIMALS**
[54] **UTILISATION D'UN COMPOSE DANS LA PREVENTION ET/OU LE TRAITEMENT DE L'INFECTION PAR UN PATHOGENE CHEZ LES ANIMAUX**
[72] KANG, DI, CN
[72] LI, DANNI, CN
[72] LIN, XINGYU, CN
[72] LU, TINGTING, CN
[71] FELICAMED BIOTECHNOLOGY CO., LTD., CN
[85] 2022-08-17
[86] 2021-06-11 (PCT/CN2021/099650)
[87] (WO2021/254265)
[30] CN (202010547186.8) 2020-06-16

---

[21] **3,168,378**
[13] A1
[51] **Int.Cl. A61K 31/573 (2006.01) C12N 5/0783 (2010.01)**
[25] EN
[54] **LYPMPHOCYTE POPULATION AND METHODS FOR PRODUCING SAME**
[54] **POPULATION DE LYMPHOCYTES ET PROCEDES POUR LES PRODUIRE**
[72] DEISHER, THERESA, US
[72] MCKAY, SCOT WAYNE, US
[71] AVM BIOTECHNOLOGY, LLC, US
[85] 2022-08-17
[86] 2021-02-26 (PCT/US2021/019773)
[87] (WO2021/173900)
[30] US (62/983,005) 2020-02-28
[30] US (63/009,050) 2020-04-13
[30] US (63/123,054) 2020-12-09

[21] **3,168,381**
[13] A1
[51] **Int.Cl. G06Q 10/02 (2012.01) G06Q 30/06 (2012.01) G06Q 50/30 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MANAGING RENTAL OF A VEHICLE**
[54] **SYSTEME ET PROCEDE DE GESTION DE LA LOCATION D'UN VEHICULE**
[72] BLOUIN, SEBASTIEN, CA
[72] ROY, FRANCIS, CA
[72] HUBERT, MARTIN, CA
[71] BLOUIN, SEBASTIEN, CA
[71] ROY, FRANCIS, CA
[71] HUBERT, MARTIN, CA
[85] 2022-08-17
[86] 2021-02-22 (PCT/CA2021/050205)
[87] (WO2021/163816)
[30] US (62/979,823) 2020-02-21

[21] **3,168,383**
[13] A1
[51] **Int.Cl. B60C 1/00 (2006.01) C08L 7/00 (2006.01)**
[25] FR
[54] **RUBBER COMPOSITION BASED ON AN EPOXY RESIN AND A HARDENER HAVING HIGH LATENCY**
[54] **COMPOSITION DE CAOUTCHOUC A BASE DE RESINE EPOXYDE ET D'UN DURCISSEUR A LATENCE ELEVEE**
[72] BIZET, SEVERINE, FR
[72] BONNETTE, FABIEN, FR
[72] LANDREAU, EMMANUEL, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2022-08-17
[86] 2021-03-04 (PCT/FR2021/050371)
[87] (WO2021/181033)
[30] FR (FR2002371) 2020-03-10

[21] **3,168,384**
[13] A1
[51] **Int.Cl. C01G 53/00 (2006.01) H01M 4/00 (2006.01)**
[25] EN
[54] **PROCESS FOR MAKING AN ELECTRODE ACTIVE MATERIAL, AND ELECTRODE ACTIVE MATERIAL**
[54] **PROCEDE DE FABRICATION D'UN MATERIAU ACTIF D'ELECTRODE ET MATERIAU ACTIF D'ELECTRODE**
[72] BIANCHINI, MATTEO, DE
[72] HARTMANN, PASCAL, DE
[72] BREZESINSKI, TORSTEN, DE
[72] KITSCHE, DAVID, DE
[72] JANEK, JURGEN, DE
[71] BASF SE, DE
[71] KARLSRUHER INSTITUT FUR TECHNOLOGIE, DE
[85] 2022-08-17
[86] 2021-02-18 (PCT/EP2021/054030)
[87] (WO2021/170483)
[30] EP (20159666.5) 2020-02-27

[21] **3,168,385**
[13] A1
[51] **Int.Cl. E01C 23/14 (2006.01) E01C 23/06 (2006.01)**
[25] EN
[54] **MICROWAVE CELL SYSTEM AND METHOD FOR ASPHALT TREATMENT**
[54] **SYSTEME DE PILE A MICRO-ONDES ET PROCEDE DE TRAITEMENT D'ASPHALTE**
[72] HOLODNAK, GARY J., US
[71] HOLODNAK, GARY J., US
[85] 2022-08-17
[86] 2021-02-18 (PCT/US2021/018448)
[87] (WO2021/168029)
[30] US (62/978,041) 2020-02-18

[21] **3,168,386**
[13] A1
[51] **Int.Cl. B23K 26/06 (2014.01) H01M 50/54 (2021.01) B23K 26/073 (2006.01) B23K 26/22 (2014.01) B23K 26/32 (2014.01)**
[25] EN
[54] **LASER WELDING STACKED FOILS**
[54] **SOUDAGE LASER DE FEUILLES EMPILEES**
[72] NARHI, MATTI, FI
[72] PAJUKOSKI, HENRI, FI
[71] CORELASE OY, FI
[85] 2022-08-17
[86] 2021-03-08 (PCT/EP2021/055772)
[87] (WO2021/190911)
[30] US (16/828,194) 2020-03-24

[21] **3,168,387**
[13] A1
[51] **Int.Cl. C12N 15/86 (2006.01) C12N 15/87 (2006.01)**
[25] EN
[54] **TREATING AUTOSOMAL RECESSIVE BESTROPHINOPATHIES AND METHODS FOR EVALUATING SAME**
[54] **TRAITEMENT DE BESTROPHINOPATHIES RECESSIVES AUTOSOMIQUES ET PROCEDES D'EVALUATION DE CELLES-CI**
[72] GUZIEWICZ, KARINA E., US
[72] CIDECIYAN, ARTUR V., US
[72] BELTRAN, WILLIAM A., US
[72] JACOBSON, SAMUEL G., US
[72] AGUIRRE, GUSTAVO D., US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2022-08-17
[86] 2021-02-28 (PCT/US2021/020171)
[87] (WO2021/174175)
[30] US (62/983,046) 2020-02-28
[30] US (62/983,052) 2020-02-28

[21] **3,168,388**
[13] A1
[51] **Int.Cl. B60C 1/00 (2006.01) C08L 7/00 (2006.01)**
[25] FR
[54] **RUBBER COMPOSITION BASED ON EPOXY RESIN AND A HARDENER HAVING HIGH LATENCY**
[54] **COMPOSITION DE CAOUTCHOUC A BASE DE RESINE EPOXYDE ET D'UN DURCISSEUR A LATENCE ELEVEE**
[72] BIZET, SEVERINE, FR
[72] BONNETTE, FABIEN, FR
[72] LANDREAU, EMMANUEL, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2022-08-17
[86] 2021-03-04 (PCT/FR2021/050370)
[87] (WO2021/181032)
[30] FR (2002369) 2020-03-10

[21] **3,168,390**
[13] A1
[51] **Int.Cl. A61K 35/741 (2015.01) A61K 31/573 (2006.01) A61P 17/06 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR REDUCING CYTOKINE EXPRESSION**
[54] **COMPOSITIONS ET METHODES POUR REDUIRE L'EXPRESSION DES CYTOKINES**
[72] EPSTEIN, DAVID, US
[72] MCHALE, DUNCAN, US
[71] EVELO BIOSCIENCES, INC., US
[85] 2022-08-17
[86] 2021-02-26 (PCT/US2021/019968)
[87] (WO2021/174041)
[30] US (62/981,867) 2020-02-26
[30] US (63/074,429) 2020-09-03
[30] US (63/000,201) 2020-03-26
[30] US (63/053,916) 2020-07-20
[30] US (63/021,224) 2020-05-07
[30] US (62/983,091) 2020-02-28

[21] **3,168,391**
[13] A1
[51] **Int.Cl. G06T 5/00 (2006.01) G06T 5/10 (2006.01)**
[25] EN
[54] **INTERACTION METHOD AND APPARATUS, AND ELECTRONIC DEVICE AND COMPUTER-READABLE STORAGE MEDIUM**
[54] **PROCEDE ET APPAREIL D'INTERACTION, AINSI QUE DISPOSITIF ELECTRONIQUE ET SUPPORT DE STOCKAGE LISIBLE PAR ORDINATEUR**
[72] QI, XIAOJIA, CN
[72] ZHENG, JIE, CN
[71] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN
[85] 2022-08-17
[86] 2021-07-07 (PCT/CN2021/104985)
[87] (WO2022/017184)
[30] CN (202010719988.2) 2020-07-23

[21] **3,168,392**
[13] A1
[51] **Int.Cl. H04N 21/242 (2011.01) H04N 21/231 (2011.01) H04N 21/24 (2011.01) H04N 21/845 (2011.01)**
[25] EN
[54] **REAL-TIME LATENCY MEASUREMENT OF VIDEO STREAMS**
[54] **MESURE DE LATENCE EN TEMPS REEL DE FLUX VIDEO**
[72] YEGANEH, HOJATOLLAH, CA
[72] WANG, JIHENG, CA
[72] ZENG, KAI, CA
[72] YE, KAIWEN, CA
[72] REHMAN, ABDUL, CA
[72] WANG, ZHOU, CA
[71] SSIMWAVE INC., CA
[85] 2022-08-17
[86] 2021-02-26 (PCT/IB2021/051640)
[87] (WO2021/171259)
[30] US (62/982,485) 2020-02-27
[30] US (63/002,761) 2020-03-31

[21] **3,168,393**
[13] A1
[51] **Int.Cl. G16H 10/20 (2018.01) G16H 10/60 (2018.01) G16H 50/30 (2018.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR GENERATING BEHAVIORAL INSIGHTS USING SURVEY INSTRUMENTS AND DIABETES TREATMENT INFORMATION**
[54] **PROCEDES ET SYSTEMES PERMETTANT DE GENERER DES INTROSPECTIONS COMPORTEMENTALES A L'AIDE D'INSTRUMENTS DE SONDAGE ET D'INFORMATIONS DE TRAITEMENT DU DIABETE**
[72] ALDEN, RHETT GUY, US
[72] EDWARDS, STEPHANIE SMITH, US
[72] FISHER, LAWRENCE, US
[72] JOHNSON, JENNAL LYNN, US
[72] JONES, DANIELLE MARIE-HESSLER, US
[72] POLONSKY, WILLIAM HOWARD, US
[72] WOLPERT, HOWARD ALLAN, US
[71] ELI LILLY AND COMPANY, US
[85] 2022-08-17
[86] 2021-02-17 (PCT/US2021/018311)
[87] (WO2021/167938)
[30] US (62/977,773) 2020-02-18

[21] **3,168,395**
[13] A1
[51] **Int.Cl. G06T 7/90 (2017.01)**
[25] EN
[54] **METHOD AND DEVICE FOR DEPLOYING AND USING AN IMAGE SIMILARITY METRIC WITH DEEP LEARNING**
[54] **PROCEDE ET DISPOSITIF DESTINE AU DEPLOIEMENT ET D'UTILISATION D'UNE METRIQUE DE SIMILARITE D'IMAGES A APPRENTISSAGE PROFOND**
[72] BAUGHMAN, DONALD R., US
[72] LEOPOLD, MATTHEW, US
[72] BISCHOFF, GUIDO, DE
[72] SCOTT, STUART K., US
[72] MCGUCKIN, JESSICA J., US
[71] BASF COATINGS GMBH, DE
[85] 2022-08-17
[86] 2021-02-26 (PCT/EP2021/054820)
[87] (WO2021/170796)
[30] EP (20159532.9) 2020-02-26

[21] **3,168,396**
[13] A1
[51] **Int.Cl. A24F 40/465 (2020.01)**
[25] EN
[54] **AEROSOL-GENERATING ARTICLE WITH ELONGATE SUSCEPTOR**
[54] **ARTICLE DE GENERATION D'AEROSOL AVEC SUSCEPTEUR ALLONGE**
[72] BERTOLDO, MASSIMILIANO, IT
[72] NESOVIC, MILICA, CH
[72] PRESTIA, IVAN, IT
[72] ROSSOLL, ANDREAS MICHAEL, CH
[72] SCHMIDT, JOHANN FRIEDRICH, CH
[72] STURA, ENRICO, CH
[71] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2022-08-17
[86] 2021-02-24 (PCT/EP2021/054596)
[87] (WO2021/170673)
[30] EP (20160236.4) 2020-02-28

[21] **3,168,399**
[13] A1
[51] **Int.Cl. H01Q 15/16 (2006.01) H01Q 15/20 (2006.01)**
[25] EN
[54] **WRINKLE FREE FOLDABLE REFLECTORS MADE WITH COMPOSITE MATERIALS**
[54] **REFLECTEURS PLIABLES EXEMPTS DE PLIS, FABRIQUES AVEC DES MATERIAUX COMPOSITES**
[72] MURPHEY, THOMAS W., US
[72] RODRIGUEZ, PATRICK ALEXANDER, US
[71] OPTERUS RESEARCH AND DEVELOPMENT, INC., US
[85] 2022-08-17
[86] 2021-02-25 (PCT/US2021/019519)
[87] (WO2021/236188)
[30] US (62/982,214) 2020-02-27
[30] US (17/183,550) 2021-02-24

[21] **3,168,400**
[13] A1
[51] **Int.Cl. A61K 31/506 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **TREATMENT OF CORNEAL VASCULARISATION**
[54] **TRAITEMENT DE LA VASCULARISATION CORNEENNE**
[72] BREDRUP, CECILIE, NO
[72] BRULAND, OVE, NO
[72] RODAHL, EYVIND, NO
[72] HOUGE, GUNNAR, NO
[71] VESTLANDETS INNOVASJONSSELSKAP AS, NO
[85] 2022-08-17
[86] 2021-02-18 (PCT/EP2021/053972)
[87] (WO2021/165369)
[30] GB (2002291.9) 2020-02-19
[30] GB (2002294.3) 2020-02-19

[21] **3,168,401**
[13] A1
[51] **Int.Cl. A24D 1/20 (2020.01) A24D 3/02 (2006.01) A24D 3/04 (2006.01)**
[25] EN
[54] **AEROSOL-GENERATING ARTICLE WITH DUAL HOLLOW TUBULAR SEGMENT**
[54] **ARTICLE DE GENERATION D'AEROSOL DOTE D'UN DOUBLE SEGMENT TUBULAIRE CREUX**
[72] D'AMBRA, GIANPAOLO, IT
[72] MONTANARI, EDOARDO, IT
[72] NESOVIC, MILICA, CH
[72] UTHURRY, JEROME, CH
[71] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2022-08-17
[86] 2021-02-24 (PCT/EP2021/054593)
[87] (WO2021/170672)
[30] EP (20160242.2) 2020-02-28

[21] **3,168,402**
[13] A1
[51] **Int.Cl. H02G 1/16 (2006.01) H01B 7/28 (2006.01) H01B 7/285 (2006.01)**
[25] EN
[54] **METHOD FOR INJECTING STRAND-BLOCKED CABLE**
[54] **PROCEDE D'INJECTION DANS UN CABLE BLOQUE A TORONS**
[72] CHATTERTON, WAYNE J., US
[72] STEELE, JAMES, US
[72] KEITGES, NORMAN E., US
[72] BUSBY, DAVID C., US
[72] LAUX, KEVIN, US
[72] FORD, WESTON PHILIPS CHAPIN, US
[72] LAURIE, NATHANAEL, US
[71] NOVINIUM, INC., US
[85] 2022-08-17
[86] 2021-03-04 (PCT/US2021/020902)
[87] (WO2021/178686)
[30] US (62/985,637) 2020-03-05
[30] US (63/079,913) 2020-09-17
[30] US (63/145,412) 2021-02-03

[21] **3,168,404**
[13] A1
[51] **Int.Cl. A47C 7/74 (2006.01) B60N 2/56 (2006.01) F25B 21/02 (2006.01) H05B 3/14 (2006.01) H05B 3/20 (2006.01) H05B 3/34 (2006.01)**
[25] EN
[54] **SEAT THERMAL MANAGEMENT AND POSITIONAL SENSING**
[54] **GESTION THERMIQUE DE SIEGE ET DETECTION DE POSITION**
[72] DURFEE, JASON A., US
[72] SALTSMAN, BENJAMIN, US
[71] MAGNA INTERNATINAL INC., CA
[85] 2022-08-17
[86] 2021-03-04 (PCT/US2021/020808)
[87] (WO2021/178625)
[30] US (62/985,505) 2020-03-05

[21] **3,168,407**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 9/10 (2006.01) A61K 33/00 (2006.01) A61K 47/02 (2006.01)**
[25] EN
[54] **PREPARATION FOR MAGNETIZING KIDNEY STONES AND KIDNEY STONE FRAGMENTS AND KIT FOR REMOVING KIDNEY STONES AND KIDNEY STONE FRAGMENTS**
[54] **PREPARATION POUR MAGNETISER DES CALCULS RENAUX ET DES FRAGMENTS DE CALCULS RENAUX ET KIT POUR ELIMINER DES CALCULS RENAUX ET DES FRAGMENTS DE CALCULS RENAUX**
[72] SCHWAMINGER, SEBASTIAN PATRICK, US
[72] SRINIVASAN, SHYAM, DE
[72] SOLVIE, LAURA ANNABELLE, DE
[72] TOLOZA, CAMILO, DE
[72] WENGLER, MICHAEL, DE
[71] TECHNISCHE UNIVERSITAT MUNCHEN, DE
[85] 2022-08-17
[86] 2021-02-23 (PCT/EP2021/054434)
[87] (WO2021/175660)
[30] EP (20160490.7) 2020-03-02

[21] **3,168,415**
[13] A1
[51] **Int.Cl. B32B 15/08 (2006.01) B32B 27/08 (2006.01) B32B 27/32 (2006.01) C08J 11/04 (2006.01)**
[25] EN
[54] **METALLIZED PACKAGING FILMS FROM RECYCLED PLASTICS**
[54] **FILMS D'EMBALLAGE METALLISES FABRIQUES A PARTIR DE MATIERES PLASTIQUES RECYCLEES**
[72] RIEKER, FRANK, DE
[71] KBG KUNSTSTOFF BETEILIGUNGEN GMBH, DE
[85] 2022-08-17
[86] 2021-01-05 (PCT/EP2021/050060)
[87] (WO2021/197674)
[30] DE (10 2020 109 370.5) 2020-04-03
[30] DE (10 2020 111 086.3) 2020-04-23

[21] **3,168,421**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 38/19 (2006.01) A61K 47/10 (2017.01) A61K 47/26 (2006.01) A61K 47/42 (2017.01) A61P 11/00 (2006.01) A61P 11/04 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **LIQUID FORMULATION OF GM-CSF FOR INHALATION**
[54] **FORMULATION LIQUIDE DE GM-CSF POUR INHALATION**
[72] SKRIVER, LARS, DK
[72] WATTS, ALAN, DK
[71] DRUGRECURE APS, DK
[85] 2022-08-17
[86] 2021-03-17 (PCT/EP2021/056851)
[87] (WO2021/185921)
[30] US (62/990,810) 2020-03-17
[30] EP (20164648.6) 2020-03-20

[21] **3,168,426**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/10 (2017.01) A61K 47/26 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01) C07K 16/22 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL FORMULATION COMPRISING BEVACIZUMAB**
[54] **FORMULATIONS PHARMACEUTIQUES COMPRENANT DU BEVACIZUMAB**
[72] LIU, MUJUN, CN
[72] FANG, YUAN, CN
[72] HAN, DONGMEI, CN
[71] SHANGHAI HENLIUS BIOTECH, INC., CN
[85] 2022-08-17
[86] 2021-03-01 (PCT/CN2021/078395)
[87] (WO2021/175175)
[30] CN (202010143839.6) 2020-03-04

[21] **3,168,430**
[13] A1
[51] **Int.Cl. A61M 5/158 (2006.01)**
[25] EN
[54] **DRUG SOLUTION INJECTION NEEDLE AND DRUG SOLUTION INJECTION NEEDLE SYSTEM**
[54] **AIGUILLE D'INJECTION DE SOLUTION MEDICAMENTEUSE ET SYSTEME D'AIGUILLE D'INJECTION DE SOLUTION MEDICAMENTEUSE**
[72] KOISO, TOMOHARU, JP
[72] HOSHIDA, AKI, JP
[72] YOSHINUMA, MASAKI, JP
[72] MORI, KENJI, JP
[72] MACHINO, TAKESHI, JP
[72] SATO, AKIRA, JP
[72] MURAKOSHI, NOBUYUKI, JP
[71] JAPAN LIFELINE CO., LTD., JP
[85] 2022-08-18
[86] 2020-03-27 (PCT/JP2020/014251)
[87] (WO2021/192283)

[21] **3,168,432**
[13] A1
[51] **Int.Cl. A61K 31/122 (2006.01) A61K 31/436 (2006.01) A61K 31/4709 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING AN RNA VIRUS INDUCED DISEASE**
[54] **PROCEDES ET COMPOSITIONS POUR TRAITER UNE MALADIE INDUITE PAR UN VIRUS A ARN**
[72] LIU, SHENG-YUNG, CN
[72] SU, CHING-TIEN, CN
[72] WEN, WU-CHE, CN
[72] CHEN, PEI-NI, CN
[71] GOLDEN BIOTECHNOLOGY CORPORATION, US
[85] 2022-08-17
[86] 2021-05-07 (PCT/US2021/031202)
[87] (WO2021/226412)
[30] US (63/022,375) 2020-05-08

[21] **3,168,435**
[13] A1
[51] **Int.Cl. G16B 30/00 (2019.01) G16B 40/20 (2019.01)**
[25] EN
[54] **ARTIFICIAL INTELLIGENCE-BASED MANY-TO-MANY BASE CALLING**
[54] **APPEL DE BASE DE PLUSIEURS A PLUSIEURS BASE SUR L'INTELLIGENCE ARTIFICIELLE**
[72] DUTTA, ANINDITA, US
[72] VESSERE, GERY, US
[72] KASHEFHAGHIGHI, DORNA, US
[72] JAGANATHAN, KISHORE, US
[72] KIA, AMIRALI, US
[71] ILLUMINA INC., US
[85] 2022-08-18
[86] 2021-02-19 (PCT/US2021/018910)
[87] (WO2021/168353)
[30] US (62/979,414) 2020-02-20
[30] US (17/180,542) 2021-02-19

[21] **3,168,437**
[13] A1
[51] **Int.Cl. A61K 33/242 (2019.01) B82Y 5/00 (2011.01) A61K 33/26 (2006.01) A61K 47/36 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **NANOPARTICLES FOR USE IN THE TREATMENT AND DIAGNOSIS OF CNS DISORDERS**
[54] **NANOPARTICULES DESTINEES A ETRE UTILISEES DANS LE TRAITEMENT ET LE DIAGNOSTIC DE TROUBLES DU SNC**
[72] OOMMEN, OOMMEN PODIYAN, FI
[72] OOMMEN PODIYAN, VARGHESE, SE
[71] UPPSALA THERAPEUTICS AB, SE
[85] 2022-08-18
[86] 2021-02-26 (PCT/SE2021/050162)
[87] (WO2021/173069)
[30] SE (2050224-1) 2020-02-28

[21] **3,168,441**
[13] A1
[51] **Int.Cl. A61K 47/10 (2017.01) A61K 47/44 (2017.01)**
[25] EN
[54] **TRANSMUCOSAL DRUG DELIVERY SYSTEM**
[54] **SYSTEME D'ADMINISTRATION TRANSMUCOSALE DE MEDICAMENTS**
[72] MASIZ, JOHN J., US
[72] ZHU, ZHEN, US
[71] NORTH ATLANTIC HOLDINGS LLC, US
[71] MASIZ, JOHN J., US
[85] 2022-08-18
[86] 2021-02-17 (PCT/US2021/018318)
[87] (WO2021/167942)
[30] US (62/979,239) 2020-02-20
[30] US (17/177,430) 2021-02-17

[21] **3,168,442**
[13] A1
[51] **Int.Cl. E04B 9/08 (2006.01)**
[25] FR
[54] **RAIL FOR SUSPENDED CEILING COMPRISING EXPANSION ABSORBERS**
[54] **RAIL POUR PLAFOND SUSPENDU COMPORTANT DES ABSORBEURS DE DILATATION**
[72] LEFRANC, MAXIME, FR
[72] CZYZEWICZ, ROBIN, US
[71] SAINT-GOBAIN PLACO, FR
[85] 2022-08-18
[86] 2021-03-22 (PCT/FR2021/050481)
[87] (WO2021/191545)
[30] FR (2002817) 2020-03-23

[21] **3,168,444**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **BISPECIFIC GD2 AND B7H2 BINDING MOLECULES AND METHODS OF USE**
[54] **MOLECULES BISPECIFIQUES DE LIAISON GD2 ET B7H2 ET LEURS PROCEDES D'UTILISATION**
[72] SONDEL, PAUL, US
[72] GERHARDT, DANIEL JUSTIN, US
[71] WIN THERAPEUTICS, INC., US
[71] INVENRA INC., US
[71] WISCONSIN ALUMNI RESEARCH FOUNDATION, US
[85] 2022-08-18
[86] 2021-02-20 (PCT/US2021/018939)
[87] (WO2021/168379)
[30] US (62/979,245) 2020-02-20

[21] **3,168,449**
[13] A1
[51] **Int.Cl. C08F 293/00 (2006.01) C09J 153/00 (2006.01)**
[25] EN
[54] **HIGH-MOLECULAR ACRYLIC TRIBLOCK COPOLYMER AND ADHESIVE COMPOSITION INCLUDING THE SAME**
[54] **COPOLYMERE ACRYLIQUE TRIBLOC A POIDS MOLECULAIRE ELEVE ET COMPOSITION ADHESIVE SENSIBLE A LA PRESSION LE CONTENANT**
[72] TAKASAKI, TOMOE, JP
[72] ONO, TOMOHIRO, JP
[71] KURARAY CO., LTD., JP
[85] 2022-08-18
[86] 2021-02-25 (PCT/JP2021/006990)
[87] (WO2021/172398)
[30] JP (2020-032767) 2020-02-28

[21] **3,168,451**
[13] A1
[51] **Int.Cl. G16B 40/10 (2019.01) G16B 40/20 (2019.01)**
[25] EN
[54] **KNOWLEDGE DISTILLATION AND GRADIENT PRUNING-BASED COMPRESSION OF ARTIFICIAL INTELLIGENCE-BASED BASE CALLER**
[54] **DISTILLATION DE CONNAISSANCES ET COMPRESSION BASEE SUR UN ELAGAGE DE GRADIENT D'UN APPELANT DE BASE BASE SUR L'INTELLIGENCE ARTIFICIELLE**
[72] DUTTA, ANINDITA, US
[72] VESSERE, GERY, US
[72] KASHEFHAGHIGHI, DORNA, US
[72] JAGANATHAN, KISHORE, US
[72] KIA, AMIRALI, US
[71] ILLUMINA, INC., US
[85] 2022-08-18
[86] 2021-02-17 (PCT/US2021/018422)
[87] (WO2021/168014)
[30] US (62/979,385) 2020-02-20
[30] US (17/176,151) 2021-02-15

[21] **3,168,454**
[13] A1
[51] **Int.Cl. A61K 38/17 (2006.01) A61K 45/00 (2006.01) A61K 47/34 (2017.01) A61P 17/14 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR STIMULATING HAIR GROWTH**
[54] **COMPOSITIONS ET PROCEDES POUR STIMULER LA POUSSE DES CHEVEUX**
[72] ROSEN, DAVID K., US
[72] RASSMAN, WILLIAM, US
[71] AMPLIFICA, INC., US
[85] 2022-08-18
[86] 2021-02-25 (PCT/US2021/019522)
[87] (WO2021/173749)
[30] US (62/981,480) 2020-02-25

[21] **3,168,464**
[13] A1
[51] **Int.Cl. A61H 9/00 (2006.01)**
[25] EN
[54] **STRUCTURE FOR THERAPEUTIC APPLICATIONS**
[54] **STRUCTURE POUR APPLICATIONS THERAPEUTIQUES**
[72] GERSTENMEIER, JURGEN, DE
[71] JK-HOLDING GMBH, DE
[85] 2022-08-18
[86] 2021-02-17 (PCT/IB2021/051328)
[87] (WO2021/165845)
[30] CH (00176/20) 2020-02-18

[21] **3,168,470**
[13] A1
[51] **Int.Cl. A61K 31/133 (2006.01) A61K 31/192 (2006.01) A61K 31/198 (2006.01)**
[25] EN
[54] **GEMFIBROZIL FORMULATION**
[54] **FORMULATION DE GEMFIBROZIL**
[72] LEE, HAHN-JUN, US
[71] POLARYX THERAPEUTICS, INC., US
[85] 2022-08-18
[86] 2021-02-15 (PCT/US2021/018098)
[87] (WO2021/167860)
[30] US (62/978,375) 2020-02-19

[21] **3,168,474**
[13] A1
[51] **Int.Cl. A61K 31/506 (2006.01) A61K 31/192 (2006.01) A61K 31/495 (2006.01) A61K 31/4985 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION FOR PREVENTION OR TREATMENT OF NONALCOHOLIC STEATOHEPATITIS**
[54] **COMPOSITION PHARMACEUTIQUE POUR LA PREVENTION OU LE TRAITEMENT D'UNE STEATOHEPATITE NON ALCOOLIQUE**
[72] KIM, MI-KYUNG, KR
[72] PARK, HANSU, KR
[72] LEE, SEUNG HO, KR
[71] DONG-A ST CO., LTD, KR
[85] 2022-08-18
[86] 2021-03-10 (PCT/KR2021/002989)
[87] (WO2021/182876)
[30] KR (10-2020-0030423) 2020-03-11

[21] **3,168,477**
[13] A1
[51] **Int.Cl. H01M 8/0213 (2016.01) H01M 8/0221 (2016.01) H01M 8/0226 (2016.01)**
[25] EN
[54] **SEPARATOR PLATE FOR A FUEL CELL, PRECURSOR THEREFORE AND ITS METHOD OF PRODUCTION**
[54] **PLAQUE SEPARATRICE POUR UNE PILE A COMBUSTIBLE, PRECURSEUR DE CELLE-CI ET SON PROCEDE DE PRODUCTION**
[72] GROMADSKYI, DENYS, DK
[72] HROMADSKA, LARYSA, DK
[71] BLUE WORLD TECHNOLOGIES HOLDING APS, DK
[85] 2022-08-18
[86] 2021-06-01 (PCT/DK2021/050168)
[87] (WO2021/244719)
[30] DK (PA 2020 00656) 2020-06-04
[30] DK (PA 2020 01469) 2020-12-30

[21] **3,168,479**
[13] A1
[51] **Int.Cl. H04N 21/462 (2011.01) H04N 21/2343 (2011.01) H04N 21/466 (2011.01) H04N 21/63 (2011.01) H04N 21/845 (2011.01)**
[25] EN
[54] **METHOD FOR PLAYING ON A PLAYER OF A CLIENT DEVICE A CONTENT STREAMED IN A NETWORK**
[54] **PROCEDE DE LECTURE SUR UN LECTEUR D'UN DISPOSITIF CLIENT D'UN CONTENU DIFFUSE EN CONTINU DANS UN RESEAU**
[72] YOUSEF, HIBA, FR
[72] STORELLI, ALEXANDRE, FR
[71] STREAMROOT, FR
[85] 2022-08-18
[86] 2021-02-23 (PCT/EP2021/054477)
[87] (WO2021/170594)
[30] EP (20305202.2) 2020-02-28

[21] **3,168,520**
[13] A1
[51] **Int.Cl. H04L 41/0659 (2022.01) H04L 43/50 (2022.01)**
[25] EN
[54] **CONTAINING A FAULTY STIMULUS IN A CONTENT DELIVERY NETWORK**
[54] **BLOCAGE D'UN STIMULUS DEFECTUEUX DANS UN RESEAU DE DIFFUSION DE CONTENU**
[72] CROWDER, WILLIAM, US
[71] LEVEL 3 COMMUNICATIONS, LLC, US
[85] 2022-08-18
[86] 2020-07-06 (PCT/US2020/040935)
[87] (WO2021/177994)
[30] US (62/984,745) 2020-03-03

[21] **3,168,740**
[13] A1
[51] **Int.Cl. B60W 30/095 (2012.01) G01S 17/931 (2020.01)**
[25] EN
[54] **METHOD FOR OBJECT AVOIDANCE DURING AUTONOMOUS NAVIGATION**
[54] **PROCEDE D'EVITEMENT D'OBJETS PENDANT UNE NAVIGATION AUTONOME**
[72] PAZHAYAMPALLIL, JOEL, US
[72] MOON, CHRISTINE, US
[71] BLUESPACE AI, INC., US
[85] 2022-08-19
[86] 2021-02-22 (PCT/US2021/019122)
[87] (WO2021/168452)
[30] US (62/980,131) 2020-02-21
[30] US (63/064,316) 2020-08-11
[30] US (62/980,132) 2020-02-21

[21] **3,169,191**
[13] A1
[51] **Int.Cl. A61K 33/38 (2006.01) A01N 25/08 (2006.01) A01N 59/00 (2006.01) A01N 59/16 (2006.01) A01P 1/00 (2006.01) A01P 3/00 (2006.01) A61K 31/194 (2006.01) A61K 33/00 (2006.01) A61L 2/16 (2006.01) A61P 31/04 (2006.01) A61P 31/10 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) C07C 65/15 (2006.01)**
[25] EN
[54] **GRAPHENE OXIDE-CATIONIC SILVER NANOCOMPOSITES AND THEIR USE AS BROAD-SPECTRUM ANTIMICROBIAL AGENTS**
[54] **NANOCOMPOSITES D'ARGENT CATIONIQUE-OXYDE DE GRAPHENE ET LEUR UTILISATION EN TANT QU'AGENTS ANTIMICROBIENS A LARGE SPECTRE**
[72] HADDADI, SEYYEDARASH, CA
[72] VAN DER KUUR, COLIN, CA
[72] KORKIS, JOSEPH, CA
[72] SRIDHAR, DEEPAK, CA
[71] ZENTEK LTD., CA
[85] 2022-08-23
[86] 2021-12-20 (PCT/CA2021/051849)
[87] (WO2022/133587)
[30] US (63/128,993) 2020-12-22
[30] US (63/161,873) 2021-03-16
[30] CA (PCT/CA2021/051308) 2021-09-20

[21] **3,169,247**
[13] A1
[51] **Int.Cl. G10H 1/00 (2006.01)**
[25] EN
[54] **ELECTRONIC FLUTE**
[54] **FLUTE ELECTRONIQUE**
[72] MANCINI, DAVIDE, IT
[71] ARTINOISE S.R.L., IT
[85] 2022-08-24
[86] 2020-03-31 (PCT/EP2020/059063)
[87] (WO2020/201257)
[30] IT (IT 102019000005274) 2019-04-05

[21] **3,169,283**
[13] A1
[51] **Int.Cl. H04R 1/40 (2006.01) H04R 3/00 (2006.01)**
[25] EN
[54] **WIRELESS MICROPHONE SYSTEM**
[54] **SYSTEME DE MICROPHONE SANS FIL**
[72] SOLVANG, AUDUN, NO
[72] RYDAL, VIKTOR, NO
[71] NOMONO AS, NO
[85] 2022-08-24
[86] 2021-03-12 (PCT/NO2021/050065)
[87] (WO2021/182974)
[30] GB (2003606.7) 2020-03-12

[21] **3,171,522**
[13] A1
[51] **Int.Cl. G01N 21/05 (2006.01)**
[25] EN
[54] **FLOW CELL ASSEMBLY AND SPECTROSCOPY DEVICE ASSEMBLY FOR USE IN A BIOPROCESS**
[54] **ENSEMBLE CUVE A CIRCULATION ET ENSEMBLE DISPOSITIF DE SPECTROSCOPIE DESTINE A ETRE UTILISE DANS UN PROCEDE BIOLOGIQUE**
[72] HOEHSE, MAREK, DE
[72] REGEN, THOMAS, DE
[72] GRIMM, CHRISTIAN, DE
[71] SARTORIUS STEDIM BIOTECH GMBH, DE
[85] 2022-09-13
[86] 2021-04-01 (PCT/EP2021/058634)
[87] (WO2021/198427)
[30] EP (20167621.0) 2020-04-01

[21] **3,172,964**
[13] A1
[51] **Int.Cl. D21H 19/82 (2006.01) B65D 65/42 (2006.01)**
[25] EN
[54] **OIL/GREASE RESISTANT PAPER PRODUCTS**
[54] **PRODUITS EN PAPIER RESISTANT A L'HUILE/LA GRAISSE**
[72] POMEROY, PAIGE ALLISON CASE, US
[72] OSGOOD, ALONZO K., US
[72] WAECKER, THOMAS A., US
[72] RAJBANSHI, ARBIN, US
[71] SAPPI NORTH AMERICA, INC., US
[85] 2022-09-22
[86] 2021-08-11 (PCT/US2021/045562)
[87] (WO2022/103458)
[30] US (16/949,693) 2020-11-11

[21] **3,176,363**
[13] A1
[51] **Int.Cl. C07F 17/00 (2006.01) C08F 4/6592 (2006.01) C08F 210/16 (2006.01)**
[25] EN
[54] **CYCLOPENTADIENYL/ADAMANTYL PHOSPHINIMINE TITANIUM COMPLEXES**
[54] **COMPLEXES DE TITANE ET DE CYCLOPENTADIENYLE / ADAMANTYL-PHOSPHINIMINE**
[72] GAO, XIAOLIANG, CA
[72] SMILEY-WIENS, JANELLE, CA
[72] FAN, CHENG, CA
[72] MOLLOY, BRIAN, CA
[72] CHISHOLM, P. SCOTT, CA
[72] CARTER, CHARLES A. G., CA
[72] GOETTEL, JAMES, CA
[71] NOVA CHEMICALS CORPORATION, CA
[85] 2022-09-16
[86] 2021-04-19 (PCT/IB2021/053207)
[87] (WO2021/214629)
[30] US (63/012,997) 2020-04-21

[21] **3,176,388**
[13] A1
[51] **Int.Cl. B01D 53/96 (2006.01) B01D 53/14 (2006.01) B01D 53/62 (2006.01)**
[25] EN
[54] **NOVEL COMPOSITION OF MATTER & CARBON DIOXIDE CAPTURE SYSTEMS**
[54] **NOUVELLE COMPOSITION DE MATIERE ET SYSTEMES DE CAPTURE DE DIOXYDE DE CARBONE**
[72] EISENBERGER, PETER, US
[72] PING, ERIC W., US
[72] SAKWA-NOVAK, MILES, US
[71] GLOBAL THERMOSTAT OPERATIONS, LLC, US
[85] 2022-09-20
[86] 2021-03-22 (PCT/US2021/023473)
[87] (WO2021/189042)
[30] US (62/992,782) 2020-03-20
[30] US (62/705,061) 2020-06-09
[30] US (63/198,418) 2020-10-16

[21] **3,176,389**
[13] A1
[51] **Int.Cl. G21C 5/02 (2006.01) G21C 5/12 (2006.01) G21C 19/40 (2006.01) G21F 1/06 (2006.01) G21F 1/08 (2006.01)**
[25] EN
[54] **NEUTRON ABSORBING EMBEDDED HYDRIDE SHIELD**
[54] **BLINDAGE D'HYDRURE INTEGRE ABSORBANT LES NEUTRONS**
[72] SNEAD, LANCE, US
[72] TRELEWICZ, JASON, US
[71] THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK, US
[85] 2022-09-20
[86] 2021-03-23 (PCT/US2021/023676)
[87] (WO2021/195081)
[30] US (62/993,309) 2020-03-23

[21] **3,176,399**
[13] A1
[25] EN
[54] **MIXING ASSEMBLY FOR A CONTAINER AND METHOD OF OPERATING THE SAME**
[54] **ENSEMBLE DE MELANGE POUR UN RECIPIENT ET SON PROCEDE DE FONCTIONNEMENT**
[72] GERBOTH, DON MARK, US
[72] CRAWFORD, GORDON, US
[72] RICHARDSON, JOHN, US
[71] ATKINS NUCLEAR SECURED HOLDINGS CORPORATION, US
[85] 2022-09-20
[86] 2021-02-26 (PCT/US2021/020019)
[87] (WO2021/194691)
[30] US (62/993,511) 2020-03-23

[21] **3,176,418**
[13] A1
[51] **Int.Cl. A61K 31/713 (2006.01) C12N 15/113 (2010.01) A61P 3/06 (2006.01)**
[25] EN
[54] **RNAI AGENTS FOR INHIBITING EXPRESSION OF PNPLA3, PHARMACEUTICAL COMPOSITIONS THEREOF, AND METHODS OF USE**
[54] **AGENTS D'ARNI PERMETTANT D'INHIBER L'EXPRESSION DE PNPLA3, LEURS COMPOSITIONS PHARMACEUTIQUES, ET PROCEDES D'UTILISATION**
[72] NICHOLAS, ANTHONY, US
[72] PEI, TAO, US
[72] XU, ZHAO, US
[72] SCHIENEBECK, CASI, US
[72] DING, ZHI-MING, US
[71] ARROWHEAD PHARMACEUTICALS, INC., US
[85] 2022-09-20
[86] 2021-03-26 (PCT/US2021/024299)
[87] (WO2021/195467)
[30] US (63/000,137) 2020-03-26

[21] **3,176,420**
[13] A1
[51] **Int.Cl. A01K 61/95 (2017.01) G06V 10/764 (2022.01) G06V 40/10 (2022.01)**
[25] EN
[54] **ANALYSIS AND SORTING IN AQUACULTURE**
[54] **ANALYSE ET TRI EN AQUACULTURE**
[72] CHROBAK, LAURA VALENTINE, US
[72] JAMES, BARNABY JOHN, US
[71] X DEVELOPMENT LLC, US
[85] 2022-09-21
[86] 2021-03-19 (PCT/US2021/023097)
[87] (WO2021/242368)
[30] US (16/885,646) 2020-05-28

[21] **3,176,421**
[13] A1
[51] **Int.Cl. A01K 61/13 (2017.01)**
[25] EN
[54] **MULTI-CHAMBER LIGHTING CONTROLLER FOR AQUACULTURE**
[54] **DISPOSITIF DE COMMANDE D'ECLAIRAGE A CHAMBRES MULTIPLES POUR AQUACULTURE**
[72] THORNTON, CHRISTOPHER, US
[72] MESSANA, MATTHEW, US
[72] HALEY, JAMES DANIEL, US
[72] WASHBURN, SHANE, US
[71] X DEVELOPMENT LLC, US
[85] 2022-09-21
[86] 2021-03-19 (PCT/US2021/023104)
[87] (WO2021/206890)
[30] US (16/845,189) 2020-04-10

[21] **3,176,422**
[13] A1
[51] **Int.Cl. A61F 9/007 (2006.01) A61F 2/14 (2006.01) A61F 9/00 (2006.01)**
[25] EN
[54] **MACULAR INDENTOR AND METHODS OF USE AND MANUFACTURE THEREOF**
[54] **SYSTEME D'INDENTATION MACULAIRE ET SES PROCEDES D'UTILISATION ET DE FABRICATION**
[72] CHAN, IAN, US
[71] OPTICGON LLC, US
[85] 2022-09-21
[86] 2021-03-23 (PCT/US2021/023714)
[87] (WO2021/195102)
[30] US (62/993,608) 2020-03-23

[21] **3,176,423**
[13] A1
[51] **Int.Cl. H04B 7/005 (2006.01) H04W 72/04 (2009.01) H04L 1/00 (2006.01) H04L 1/08 (2006.01) H04L 1/16 (2006.01)**
[25] EN
[54] **INTELLIGENT PACKET REPETITION IN MOBILE SATELLITE SERVICE (MSS) LINKS TO OVERCOME CHANNEL BLOCKAGES**
[54] **REPETITION DE PAQUETS INTELLIGENTE DANS DES LIAISONS DE SERVICE MOBILE PAR SATELLITE (MSS) POUR SURMONTER DES OBSTRUCTIONS DE CANAL**
[72] DUTTA, SANTANU, US
[72] ZHENG, DUNMIIN, US
[71] ATC TECHNOLOGIES LLC, US
[85] 2022-09-21
[86] 2021-03-24 (PCT/US2021/023872)
[87] (WO2021/195203)
[30] US (62/994,560) 2020-03-25

[21] **3,176,426**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/145 (2006.01) A61N 1/36 (2006.01) A61N 1/372 (2006.01)**
[25] EN
[54] **ENCLOSURE FOR A WIRELESS IMPLANTABLE DEVICE WITH EMBEDDED POWER SOURCE**
[54] **ENCEINTE POUR DISPOSITIF IMPLANTABLE SANS FIL A SOURCE D'ALIMENTATION INTEGREE**
[72] DEHENNIS, ANDREW, US
[72] CHAVAN, ABHI, US
[72] MASCIOTTI, JAMES, US
[72] HAYS, BRYAN, US
[72] HOSSEINI, YAHYA, US
[72] CITIRIK, ERMAN, US
[71] SENSEONICS, INCORPORATED, US
[85] 2022-09-21
[86] 2021-03-24 (PCT/US2021/023914)
[87] (WO2021/195230)
[30] US (62/994,809) 2020-03-25

[21] **3,176,427**
[13] A1
[51] **Int.Cl. A24D 1/20 (2020.01) A24D 3/17 (2020.01) A24D 3/06 (2006.01) A24D 3/10 (2006.01)**
[25] EN
[54] **MEDIUM DPF AND TOTAL DENIER CELLULOSE ACETATE TOW**
[54] **MECHE D'ACETATE DE CELLULOSE A DENIER PAR FILAMENT ET DENIER TOTAL MOYENS**
[72] CAENEN, PHILIP, US
[72] LOIX, CHRISTOPHE, US
[72] BUNDREN, CHRISTOPHER, US
[72] BANKS, AUSTIN, US
[72] SANDERSON, WILLIAM, US
[71] ACETATE INTERNATIONAL LLC, US
[85] 2022-09-21
[86] 2021-03-24 (PCT/US2021/023951)
[87] (WO2021/195261)
[30] US (62/994,056) 2020-03-24

[21] **3,176,429**
[13] A1
[51] **Int.Cl. A61K 31/445 (2006.01) A61K 31/5375 (2006.01) A61K 31/54 (2006.01) A61P 7/06 (2006.01) C07D 295/192 (2006.01) C07D 401/06 (2006.01)**
[25] EN
[54] **MODULATORS OF HEMOGLOBIN**
[54] **MODULATEURS DE L'HEMOGLOBINE**
[72] LI, ZHE, US
[71] GLOBAL BLOOD THERAPEUTICS, INC., US
[85] 2022-09-21
[86] 2021-03-26 (PCT/US2021/024384)
[87] (WO2021/202284)
[30] US (63/003,104) 2020-03-31
[30] US (63/003,106) 2020-03-31

[21] **3,176,430**
[13] A1
[51] **Int.Cl. F25B 13/00 (2006.01) F25B 41/20 (2021.01) F25B 41/40 (2021.01) F24F 3/153 (2006.01) F25B 49/02 (2006.01)**
[25] EN
[54] **HEATING, VENTILATION, AND AIR-CONDITIONING SYSTEM WITH REHEAT**
[54] **SYSTEME DE CHAUFFAGE, DE VENTILATION ET DE CLIMATISATION AVEC RECHAUFFAGE**
[72] TARAS, MICHAEL F., US
[71] GOODMAN GLOBAL GROUP, INC., US
[85] 2022-09-21
[86] 2021-03-26 (PCT/US2021/024444)
[87] (WO2021/202297)
[30] US (63/002,568) 2020-03-31
[30] US (17/212,923) 2021-03-25

[21] **3,176,431**
[13] A1
[51] **Int.Cl. A45D 40/00 (2006.01) A45D 33/38 (2006.01) A45D 34/00 (2006.01) A45D 34/02 (2006.01) A45D 37/00 (2006.01) A45D 44/00 (2006.01)**
[25] EN
[54] **FREE-STANDING BLISTER PACK**
[54] **EMBALLAGE-COQUE AUTOPORTANT**
[72] CRIDER, MATTHEW, US
[72] ISOLA, SARA ANN, US
[72] AN, SAVY MINA, US
[72] WEMETT, CHRISTOPHER, US
[72] RIVERA, JEANINE, US
[71] AKI, INC., US
[85] 2022-09-21
[86] 2021-04-16 (PCT/US2021/027622)
[87] (WO2021/211932)
[30] US (63/010,730) 2020-04-16

[21] **3,176,432**
[13] A1
[51] **Int.Cl. A61K 31/4709 (2006.01) A61K 9/20 (2006.01)**
[25] EN
[54] **PREVENTATIVE TREATMENT OF MIGRAINE**
[54] **TRAITEMENT PREVENTIF DE LA MIGRAINE**
[72] CORIC, VLADIMIR, US
[72] CROOP, ROBERT, US
[71] BIOHAVEN PHARMACEUTICAL IRELAND DAC, IE
[85] 2022-09-21
[86] 2021-03-29 (PCT/US2021/024551)
[87] (WO2021/202321)
[30] US (63/001,341) 2020-03-29
[30] US (63/111,138) 2020-11-09
[30] US (63/125,247) 2020-12-14

[21] **3,176,433**
[13] A1
[51] **Int.Cl. A01N 37/28 (2006.01) A01N 43/22 (2006.01) A01N 43/36 (2006.01) A01N 43/40 (2006.01) A01N 43/50 (2006.01) A01N 43/56 (2006.01) A01N 43/707 (2006.01) A01N 43/80 (2006.01) A01N 43/88 (2006.01) A01N 43/90 (2006.01) A01N 47/02 (2006.01) A01N 47/12 (2006.01) A01N 47/22 (2006.01) A01N 47/34 (2006.01) A01N 47/40 (2006.01) A01N 53/06 (2006.01) A01N 57/28 (2006.01) A01P 7/04 (2006.01)**
[25] EN
[54] **PEST CONTROL METHOD, PEST CONTROL AGENT COMPOSITION, AND PEST CONTROL AGENT SET**
[54] **PROCEDE DE LUTTE ANTIPARASITAIRE, COMPOSITION D'AGENT DE LUTTE ANTIPARASITAIRE ET ENSEMBLE D'AGENTS DE LUTTE ANTIPARASITAIRE**
[72] SAKANISHI, KEITA, JP
[71] NIPPON SODA CO., LTD., JP
[85] 2022-09-21
[86] 2021-03-24 (PCT/JP2021/012299)
[87] (WO2021/200488)
[30] JP (2020-067049) 2020-04-02

[21] **3,176,434**
[13] A1
[51] **Int.Cl. C07K 16/22 (2006.01) C07K 16/24 (2006.01)**
[25] EN
[54] **FELINE ANTIBODY VARIANTS**
[54] **VARIANTS D'ANTICORPS FELIN**
[72] BERGERON, LISA MARIE, US
[72] CAMPOS, HENRY LUIS, US
[71] ZOETIS SERVICES LLC, US
[85] 2022-09-21
[86] 2021-04-16 (PCT/US2021/027839)
[87] (WO2021/212084)
[30] US (63/011,491) 2020-04-17

[21] **3,176,435**
[13] A1
[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/06 (2006.01)**
[25] EN
[54] **RAPIDLY INSERTABLE CENTRAL CATHETERS INCLUDING CATHETER ASSEMBLIES AND METHODS THEREOF**
[54] **CATHETERS CENTRAUX A INSERTION RAPIDE COMPRENANT DES ENSEMBLES CATHETER ET PROCEDES ASSOCIES**
[72] HOWELL, GLAD H., US
[71] BARD ACCESS SYSTEMS, INC., US
[85] 2022-09-21
[86] 2021-04-19 (PCT/US2021/028018)
[87] (WO2021/216470)
[30] US (63/012,793) 2020-04-20

[21] **3,176,439**
[13] A1
[51] **Int.Cl. B65D 71/18 (2006.01) B65D 71/42 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR ATTACHING ARTICLES TO A CARRIER**
[54] **PROCEDE ET SYSTEME DE FIXATION D'ARTICLES SUR UN SUPPORT**
[72] FORD, COLIN P., US
[72] HAWLEY, CORY, US
[72] WARNER, DAVID F., US
[71] GRAPHIC PACKAGING INTERNATIONAL, LLC, US
[85] 2022-09-21
[86] 2021-04-26 (PCT/US2021/029069)
[87] (WO2021/222060)
[30] US (63/016,607) 2020-04-28

[21] **3,176,440**
[13] A1
[51] **Int.Cl. G06Q 20/36 (2012.01) G06Q 20/10 (2012.01) G06Q 30/02 (2012.01)**
[25] EN
[54] **VIRTUAL GIFT CARDS WITH INSTANT DELIVERY AND SECURED REMOTE REDEMPTION**
[54] **CARTES-CADEAUX VIRTUELLES AVEC UNE LIVRAISON INSTANTANEE ET REMBOURSEMENT A DISTANCE SECURISE**
[72] TU, HARRY, US
[71] ALDELO, LP, US
[85] 2022-09-21
[86] 2021-05-06 (PCT/US2021/031092)
[87] (WO2021/226335)
[30] US (63/022,156) 2020-05-08

[21] **3,176,442**
[13] A1
[51] **Int.Cl. F01K 13/00 (2006.01) F25B 7/00 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **PRODUCING CARBON DIOXIDE WITH WASTE HEAT**
[54] **PRODUCTION DE DIOXYDE DE CARBONE AVEC DE LA CHALEUR PERDUE**
[72] GILROYSMITH, BRYAN CHRISTOPHER, US
[72] GAGNE, JACQUES, US
[72] NELSON, ROBERT, US
[72] MALONE, CHRISTOPHER GREGORY, US
[71] X DEVELOPMENT LLC, US
[85] 2022-09-21
[86] 2021-03-30 (PCT/US2021/024843)
[87] (WO2021/202499)
[30] US (63/001,948) 2020-03-30
[30] US (63/029,255) 2020-05-22

[21] **3,176,443**
[13] A1
[51] **Int.Cl. G06F 3/16 (2006.01) G06N 3/02 (2006.01)**
[25] EN
[54] **CONTROLLABLE READING GUIDES AND NATURAL LANGUAGE GENERATION**
[54] **GUIDES DE LECTURE REGLABLES ET GENERATION DE LANGAGE NATUREL**
[72] PELEG, BARAK, IL
[72] PADNOS, DAN, IL
[72] MORAG, AMNON, IL
[72] LUMBROSO, GILAD, IL
[72] SHOHAM, YOAV, IL
[72] GOSHEN, ORI, IL
[72] LENZ, BARAK, IL
[72] DAGAN, OR, IL
[72] EINY, GUY, IL
[71] AI21 LABS, IL
[85] 2022-09-21
[86] 2021-07-13 (PCT/US2021/041428)
[87] (WO2022/015730)
[30] US (63/051,288) 2020-07-13
[30] US (63/084,500) 2020-09-28
[30] US (63/086,254) 2020-10-01
[30] US (63/187,162) 2021-05-11
[30] US (63/187,170) 2021-05-11

[21] **3,176,445**
[13] A1
[51] **Int.Cl. C12N 15/67 (2006.01) C07K 14/005 (2006.01) C12N 9/10 (2006.01) C12N 9/12 (2006.01) C12N 9/16 (2006.01) C12N 15/72 (2006.01)**
[25] EN
[54] **PRODUCTION OF VACCINIA CAPPING ENZYME**
[54] **PRODUCTION D'ENZYME DE COIFFAGE DE LA VACCINE**
[72] BOBER, JOSEF, US
[72] BOUCHER, JEFFREY IAN, US
[72] GARDIN, JUSTIN MICHAEL, US
[72] KING, JASON, US
[72] MARR, SCOTT, US
[72] MCMAHON, MATTHEW, US
[72] PATEL, KRISHNABEN S., US
[72] WALDMAN, ABRAHAM, US
[71] GINKGO BIOWORKS, INC., US
[85] 2022-09-21
[86] 2022-03-29 (PCT/US2022/022303)
[87] (WO2022/212342)
[30] US (63/167,249) 2021-03-29
[30] US (63/188,977) 2021-05-14

[21] **3,176,446**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01) C07K 16/00 (2006.01) G01N 30/00 (2006.01)**
[25] EN
[54] **METHODS FOR CHARACTERIZING LOW-ABUNDANCE HOST CELL PROTEINS**
[54] **PROCEDES DE CARACTERISATION DE PROTEINES DE CELLULES HOTES A FAIBLE ABONDANCE**
[72] CHEN, I-HSUAN, US
[72] XIAO, HUI, US
[72] LI, NING, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-09-21
[86] 2021-03-30 (PCT/US2021/024919)
[87] (WO2021/202554)
[30] US (63/001,690) 2020-03-30
[30] US (63/031,336) 2020-05-28

[21] **3,176,448**
[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01)**
[25] EN
[54] **BARCODABLE EXCHANGEABLE PEPTIDE-MHC MULTIMER LIBRARIES**
[54] **BIBLIOTHEQUES DE MULTIMERES DE CMH DE PEPTIDE ECHANGEABLES ET A CODES-BARRES**
[72] YOSEFSON, OHAD, US
[72] MALIA, THOMAS, US
[72] HAMEL, ANDREW, US
[72] SWAIN, JOANNA, US
[72] ROSCOE, BENJAMIN, US
[72] RASHIDIAN, MOHAMMAD, US
[71] REPERTOIRE IMMUNE MEDICINES, INC., US
[85] 2022-09-21
[86] 2021-03-31 (PCT/US2021/025167)
[87] (WO2021/202727)
[30] US (63/003,177) 2020-03-31

[21] **3,176,449**
[13] A1
[51] **Int.Cl. G06F 16/23 (2019.01)**
[25] EN
[54] **SALES LOCKING METHOD AND SYSTEM BASED ON A CACHING**
[54] **PROCEDE ET SYSTEME BASES SUR LA MISE EN MEMOIRE CACHE POUR VERROUILLAGE DE VENTE**
[72] YANG, QINGFENG, CN
[72] SI, XIAOBO, CN
[72] QIN, GANG, CN
[72] WANG, KANGLONG, CN
[72] LI, LEI, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-09-22
[86] 2019-09-29 (PCT/CN2019/109094)
[87] (WO2020/192063)
[30] CN (201910247896.6) 2019-03-28

[21] **3,176,453**
[13] A1
[51] **Int.Cl. C09D 13/00 (2006.01)**
[25] EN
[54] **WATER-SOLUBLE COLORING COMPOSITIONS COMPRISING ALCOHOL ALKOXYLATES WITH 40 TO 160 ETHOXY UNITS DERIVED FROM PRIMARY ALCOHOLS HAVING A CHAIN LENGTH BETWEEN 20 AND 30 CARBON ATOMS**
[54] **COMPOSITIONS COLORANTES HYDROSOLUBLES COMPRENANT DES ALCOXYLATES D'ALCOOL AYANT DE 40 A 160 UNITES ETHOXY DERIVES D'ALCOOLS PRIMAIRES AYANT UNE LONGUEUR DE CHAINE COMPRISE ENTRE 20 ET 30 ATOMES DE CARBONE**
[72] BICKEL, JENNIFER, US
[72] NORMAND, OLLIE, US
[71] SASOL (USA) CORPORATION, US
[85] 2022-09-21
[86] 2021-04-01 (PCT/US2021/025307)
[87] (WO2021/202829)
[30] US (63/004,097) 2020-04-02

[21] **3,176,454**
[13] A1
[25] EN
[54] **METHOD FOR ACHIEVING CROSS-CLUSTER HIGH AVAILABILITY, APPARATUS, SYSTEM, AND DEVICE**
[54] **PROCEDE PERMETTANT D'OBTENIR UNE DISPONIBILITE ELEVEE ENTRE GRAPPES, APPAREIL, SYSTEME ET DISPOSITIF**
[72] ZHAO, YUN, CN
[72] WANG, ZHIQIANG, CN
[72] XU, GENLIN, CN
[72] SUN, QIAN, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-09-22
[86] 2019-09-29 (PCT/CN2019/109106)
[87] (WO2020/192065)
[30] CN (201910225014.6) 2019-03-22

[21] **3,176,455**
[13] A1
[51] **Int.Cl. A61B 17/11 (2006.01) A61M 27/00 (2006.01)**
[25] EN
[54] **HIGH RETENTION DRAINAGE DEVICE**
[54] **DISPOSITIF DE DRAINAGE A RETENTION ELEVEE**
[72] GUPTA, SAURAV V., US
[72] BARTHET, MARC A., FR
[72] GONZALEZ, JEAN-MICHEL, FR
[72] HAGEMEYER, CAMRON, US
[72] CURRAN, DARREN, IE
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2022-09-21
[86] 2021-04-05 (PCT/US2021/025802)
[87] (WO2021/207088)
[30] US (63/005,936) 2020-04-06

[21] **3,176,456**
[13] A1
[25] EN
[54] **METHOD AND APPARATUS APPLICABLE TO RELEASE AND UPGRADE OF HYBRID APPLICATION, AND INTELLIGENT DEVICE**
[54] **PROCEDE ET APPAREIL APPLICABLES A LA PUBLICATION ET A LA MISE A NIVEAU D'UNE APPLICATION HYBRIDE, ET DISPOSITIF INTELLIGENT**
[72] WANG, GUIBIN, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-09-22
[86] 2019-09-29 (PCT/CN2019/109119)
[87] (WO2020/199543)
[30] CN (201910256806.X) 2019-04-01

[21] **3,176,457**
[13] A1
[51] **Int.Cl. A61K 31/137 (2006.01) A61K 9/50 (2006.01) A61K 31/5513 (2006.01)**
[25] EN
[54] **THERAPEUTIC STRATEGIES TO MANAGE FACIAL CONTRACTURES POST INJURY**
[54] **STRATEGIES THERAPEUTIQUES POUR GERER DES CONTRACTURES FACIALES APRES UNE LESION**
[72] ROY, SASHWATI, US
[72] EL MASRY, MOHAMED, US
[72] GOPALAKRISHNAN, VINOJ, US
[72] SEN, CHANDAN K., US
[71] THE TRUSTEES OF INDIANA UNIVERSITY, US
[85] 2022-09-21
[86] 2021-04-07 (PCT/US2021/026214)
[87] (WO2021/207380)
[30] US (63/007,101) 2020-04-08

[21] **3,176,458**
[13] A1
[51] **Int.Cl. A47J 31/46 (2006.01) A47J 31/54 (2006.01)**
[25] EN
[54] **AIR PREHEATING OF BREW CHAMBER**
[54] **PRECHAUFFAGE D'AIR D'UNE CHAMBRE D'INFUSION**
[72] HUANG, JIANMING, US
[72] MIKKELSEN, BLAIR, US
[72] JOHNSON, ROGER, US
[72] KAMMER, CARL GOTTFRIED, US
[71] KEURIG GREEN MOUNTAIN, INC., US
[85] 2022-09-21
[86] 2021-04-08 (PCT/US2021/026312)
[87] (WO2021/207450)
[30] US (16/844,163) 2020-04-09

[21] **3,176,459**
[13] A1
[51] **Int.Cl. A61K 31/47 (2006.01) A61K 31/337 (2006.01) A61K 31/517 (2006.01) A61K 31/7048 (2006.01) A61P 35/00 (2006.01) C07D 215/233 (2006.01) C07D 239/88 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION COMPRISING PROTEIN KINASE INHIBITOR AND CHEMOTHERAPEUTIC DRUG AND USE THEREOF**
[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT UN INHIBITEUR DE PROTEINE KINASE ET UN MEDICAMENT CHIMIOTHERAPEUTIQUE ET SON UTILISATION**
[72] LU, XIANPING, CN
[72] NING, ZHIQIANG, CN
[72] WANG, XIAONING, CN
[71] SHENZHEN CHIPSCREEN BIOSCIENCES CO., LTD., CN
[71] CHENGDU CHIPSCREEN PHARMACEUTICAL CO., LTD, CN
[85] 2022-09-22
[86] 2021-03-24 (PCT/CN2021/082656)
[87] (WO2021/190546)
[30] CN (202010212751.5) 2020-03-24

[21] **3,176,460**
[13] A1
[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/20 (2006.01) A61K 9/48 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITIONS, METHOD OF MAKING AND METHOD OF USING THEREOF**
[54] **COMPOSITIONS PHARMACEUTIQUES, LEUR PROCEDE DE FABRICATION ET LEUR PROCEDE D'UTILISATION**
[72] WU, JINZI JASON, CN
[72] CHAI, XUYU, CN
[71] GANNEX PHARMA CO., LTD., CN
[85] 2022-09-22
[86] 2021-03-26 (PCT/CN2021/083207)
[87] (WO2021/190624)
[30] CN (202010227177.0) 2020-03-27
[30] US (17/212,623) 2021-03-25

[21] **3,176,461**
[13] A1
[51] **Int.Cl. A61K 8/02 (2006.01) A61K 8/27 (2006.01) A61K 8/34 (2006.01) A61K 8/37 (2006.01) A61K 8/49 (2006.01) A61K 8/92 (2006.01) A61K 9/00 (2006.01) A61K 9/14 (2006.01) A61K 9/68 (2006.01) A61K 31/09 (2006.01) A61K 31/135 (2006.01) A61K 31/137 (2006.01) A61K 31/167 (2006.01) A61K 31/192 (2006.01) A61K 31/485 (2006.01) A61K 47/26 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **MOUTHWASH FOR ORAL CARE BENEFITS**
[54] **BAIN DE BOUCHE A ACTION DE SOINS BUCCAUX**
[72] WITTORFF, HELLE, DK
[72] PEDERSEN, CHRISTINE NOHR, DK
[71] FERTIN PHARMA A/S, DK
[85] 2022-09-22
[86] 2021-04-30 (PCT/DK2021/050138)
[87] (WO2021/223826)
[30] DK (PA 2020 70298) 2020-05-08

[21] **3,176,462**
[13] A1
[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/36 (2006.01)**
[25] EN
[54] **BLOOD TREATMENT SYSTEMS AND RELATED COMPONENTS AND METHODS**
[54] **SYSTEMES DE TRAITEMENT DU SANG, ELEMENTS ET PROCEDES ASSOCIES**
[72] BERGMAN, ERIC, US
[72] JENSEN, LYNN E., US
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2022-09-21
[86] 2021-04-09 (PCT/US2021/026507)
[87] (WO2021/211360)
[30] US (16/848,410) 2020-04-14

[21] **3,176,464**
[13] A1
[51] **Int.Cl. C01B 25/37 (2006.01) C01G 49/06 (2006.01) C09C 1/00 (2006.01) C09C 1/24 (2006.01)**
[25] EN
[54] **STRONGLY COLOURED MANGANESE FERRITE COLOUR PIGMENTS**
[54] **PIGMENTS DE COULEUR A BASE DE FERRITE DE MANGANESE RESISTANTS A LA DECOLORATION**
[72] ROSENHAHN, CARSTEN, DE
[72] HEMPELMANN, UWE, DE
[71] LANXESS DEUTSCHLAND GMBH, DE
[85] 2022-09-22
[86] 2021-03-12 (PCT/EP2021/056356)
[87] (WO2021/190957)
[30] EP (20166327.5) 2020-03-27

[21] **3,176,465**
[13] A1
[51] **Int.Cl. A61K 41/00 (2020.01) A61K 9/20 (2006.01) A61K 9/28 (2006.01)**
[25] EN
[54] **METHODS OF TREATING DIABETIC KIDNEY DISEASE**
[54] **METHODES DE TRAITEMENT D'UNE MALADIE RENALE DIABETIQUE**
[72] MELNICK, JOEL Z., US
[72] MILLER, MICHAEL G., US
[72] YI, TINGTING, US
[72] HEERSPINK, HIDDO LAMBERS, US
[72] KING, ANDREW JAMES, US
[72] NOONBERG, SARAH B., US
[71] CHINOOK THERAPEUTICS, INC., US
[71] ABBVIE INC., US
[85] 2022-09-21
[86] 2021-04-12 (PCT/US2021/026803)
[87] (WO2021/207723)
[30] US (63/008,099) 2020-04-10
[30] US (63/119,806) 2020-12-01

[21] **3,176,467**
[13] A1
[51] **Int.Cl. B65D 85/804 (2006.01)**
[25] EN
[54] **CONTAINER FOR INGREDIENTS FOR MAKING BEVERAGES**
[54] **RECIPIENT POUR INGREDIENTS POUR LA PREPARATION DE BOISSONS**
[72] LEHENMEIER, MAXIMILIAN, DE
[72] SCHWEIGER, CHRISTIAN, DE
[72] EBLI, SEBASTIAN, DE
[72] HOHENSTEIN, THOMAS, DE
[71] BASF SE, DE
[85] 2022-09-22
[86] 2021-03-23 (PCT/EP2021/057346)
[87] (WO2021/191178)
[30] EP (20164890.4) 2020-03-23

[21] **3,176,468**
[13] A1
[51] **Int.Cl. A41B 3/06 (2006.01) A41C 3/00 (2006.01) A41D 27/06 (2006.01) A44B 7/00 (2006.01) A61K 8/18 (2006.01) B65D 81/28 (2006.01)**
[25] EN
[54] **DISPOSABLE DIFFUSING COLLAR STAY**
[54] **BALEINE A DIFFUSEUR JETABLE**
[72] DEVASSINE, MICKAEL, US
[72] CRIDER, MATTHEW, US
[72] O'HALLORAN, DAVID, US
[72] BROHMI, AMAL, US
[72] DEVASSINE, HRAZHYNA, US
[71] AKI, INC., US
[85] 2022-09-21
[86] 2021-04-12 (PCT/US2021/026900)
[87] (WO2021/211464)
[30] US (63/009,178) 2020-04-13
[30] US (63/009,182) 2020-04-13

[21] **3,176,470**
[13] A1
[51] **Int.Cl. C01G 53/02 (2006.01) C22B 1/00 (2006.01) C22B 23/02 (2006.01) C22B 23/06 (2006.01)**
[25] EN
[54] **BATTERY RECYCLING BY REDUCTION AND CARBONYLATION**
[54] **RECYCLAGE DE PILES PAR REDUCTION ET CARBONYLATION**
[72] ROHDE, WOLFGANG, DE
[72] ADERMANN, TORBEN, DE
[72] SCHIERLE-ARNDT, KERSTIN, DE
[72] HUGUET SUBIELA, NURIA, DE
[72] KEMPTER, ANDREAS, DE
[72] GERKE, BIRGIT, DE
[71] BASF SE, DE
[85] 2022-09-22
[86] 2021-03-23 (PCT/EP2021/057442)
[87] (WO2021/191211)
[30] EP (20164834.2) 2020-03-23

[21] **3,176,472**
[13] A1
[51] **Int.Cl. A61K 8/58 (2006.01) A61K 8/81 (2006.01) A61Q 19/00 (2006.01)**
[25] EN
[54] **ANHYDROUS SILKY COSMETIC PRODUCT**
[54] **PRODUIT COSMETIQUE SOYEUX ANHYDRE**
[72] DEVASSINE, MICKAEL, US
[72] DEVASSINE, HRAZHYNA, US
[71] AKI, INC., US
[85] 2022-09-21
[86] 2021-04-12 (PCT/US2021/026921)
[87] (WO2021/211468)
[30] US (63/009,187) 2020-04-13

[21] **3,176,473**
[13] A1
[51] **Int.Cl. F24T 10/30 (2018.01) F04D 17/02 (2006.01) F04D 29/58 (2006.01) F28D 1/02 (2006.01)**
[25] EN
[54] **HEAT EXCHANGER ARRANGEMENT**
[54] **SYSTEME D'ECHANGEUR DE CHALEUR**
[72] SCHECHNER, ALEXANDER, DE
[72] IHLE, GERHARD, DE
[71] ENVOLA GMBH, DE
[85] 2022-09-22
[86] 2021-03-25 (PCT/EP2021/057787)
[87] (WO2021/191371)
[30] DE (10 2020 108 377.7) 2020-03-26
[30] DE (10 2020 125 030.4) 2020-09-25

[21] **3,176,474**
[13] A1
[51] **Int.Cl. B60C 11/03 (2006.01) B60C 11/12 (2006.01) B60C 11/13 (2006.01)**
[25] EN
[54] **TYRE**
[54] **PNEU**
[72] DEL GUERCIO, GERARDO, IT
[72] GIUSTINIANO, MATTIA, IT
[71] BRIDGESTONE EUROPE NV/SA, BE
[85] 2022-09-22
[86] 2021-03-26 (PCT/EP2021/058019)
[87] (WO2021/198105)
[30] EP (20020140.8) 2020-03-30

[21] **3,176,475**
[13] A1
[51] **Int.Cl. G01V 1/28 (2006.01) G01V 99/00 (2009.01) G01V 1/30 (2006.01) G01V 1/34 (2006.01)**
[25] EN
[54] **SUBSURFACE LITHOLOGICAL MODEL WITH MACHINE LEARNING**
[54] **MODELE LITHOLOGIQUE DE SOUS-SOL A L'AIDE D'UN APPRENTISSAGE AUTOMATIQUE**
[72] PRINDLE, KENTON LEE, US
[72] GONCHARUK, ARTEM, US
[72] TREAT, NEIL DAVID, US
[72] SMITH, KEVIN FORSYTHE, US
[72] HUNT, THOMAS PETER, US
[72] DAVIS, KAREN R., US
[72] ZHAO, ALLEN RICHARD, US
[71] X DEVELOPMENT LLC, US
[85] 2022-09-21
[86] 2021-04-13 (PCT/US2021/027076)
[87] (WO2021/211579)
[30] US (63/009,311) 2020-04-13

[21] **3,176,479**
[13] A1
[51] **Int.Cl. C12N 15/57 (2006.01) A23L 5/20 (2016.01) A01H 5/00 (2018.01) A23L 2/84 (2006.01) C12N 5/10 (2006.01) C12N 9/50 (2006.01)**
[25] EN
[54] **NUCLEIC ACID MOLECULE, AND POLYPEPTIDE HAVING EPOXY GROUP-REMOVAL CATALYTIC ACTIVITY AND USE THEREOF**
[54] **MOLECULE D'ACIDE NUCLEIQUE, POLYPEPTIDE AYANT UNE ACTIVITE CATALYTIQUE D'ELIMINATION DE GROUPE EPOXY ET UTILISATION CORRESPONDANTE**
[72] KONG, LINGRANG, CN
[72] WANG, HONGWEI, CN
[72] SUN, SILONG, CN
[72] GE, WENYANG, CN
[72] HOU, BINGQIAN, CN
[71] SHANDONG AGRICULTURAL UNIVERSITY, CN
[85] 2022-09-02
[86] 2020-12-11 (PCT/CN2020/135821)
[87] (WO2021/174949)

[21] **3,176,508**
[13] A1
[51] **Int.Cl. H04B 10/2507 (2013.01) H04B 10/2513 (2013.01) H04B 10/50 (2013.01) H04B 10/516 (2013.01) H04B 10/54 (2013.01)**
[25] EN
[54] **LOW-POWER PRE-COMPENSATION OF LINEAR AND NONLINEAR TRANSMITTER EFFECTS IN NARROW-SPECTRUM OPTICAL SIGNALS**
[54] **PRE-COMPENSATION DE FAIBLE PUISSANCE D'EFFETS D'EMETTEUR LINEAIRE ET NON LINEAIRE DANS DES SIGNAUX OPTIQUES A SPECTRE ETROIT**
[72] HARLEY, JAMES, CA
[72] OVEIS GHARAN, SHAHAB, US
[72] ZIMMER, KENDAL, CA
[72] BOURGET, CHRISTIAN, CA
[71] CIENA CORPORATION, US
[85] 2022-09-15
[86] 2022-03-07 (PCT/IB2022/051996)
[87] (WO2022/189933)
[30] US (63/160,073) 2021-03-12
[30] US (17/460,437) 2021-08-30

[21] **3,176,552**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 14/55 (2006.01) C07K 14/705 (2006.01) C07K 16/24 (2006.01) C07K 16/28 (2006.01) C07K 16/42 (2006.01)**
[25] EN
[54] **IMMUNE ACTIVATING FC DOMAIN BINDING MOLECULES**
[54] **MOLECULES DE LIAISON AU DOMAINE FC ACTIVANT L'IMMUNITE**
[72] AMANN, MARIA, CH
[72] CARPY GUTIERREZ CIRLOS, ALEJANDRO, DE
[72] CLAUS, CHRISTINA, CH
[72] CODARRI DEAK, LAURA, CH
[72] DAROWSKI, DIANA, CH
[72] FAUTI, TANJA, CH
[72] FERRARA KOLLER, CLAUDIA, CH
[72] FREIMOSER-GRUNDSCHOBER, ANNE, CH
[72] HERTER, SYLVIA, CH
[72] HOFER, THOMAS, CH
[72] KLEIN, CHRISTIAN, CH
[72] LAUENER, LAURA, CH
[72] LECLAIR, STEPHANE, DE
[72] MOESSNER, EKKEHARD, CH
[72] NEUMANN, CHRISTIANE, CH
[72] UMANA, PABLO, CH
[72] SUROWKA, MARLENA, CH
[72] BRANSI, ALI, CH
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2022-09-22
[86] 2021-06-17 (PCT/EP2021/066337)
[87] (WO2021/255138)
[30] EP (20181087.6) 2020-06-19

[21] **3,176,555**
[13] A1
[51] **Int.Cl. A61K 31/33 (2006.01) A61K 47/12 (2006.01) A61K 47/44 (2017.01) A61Q 13/00 (2006.01)**
[25] EN
[54] **STABILIZED MENTHOL AND OTHER VOLATILE COMPOUND COMPOSITIONS AND METHODS**
[54] **MENTHOL STABILISE ET AUTRES COMPOSITIONS DE COMPOSES VOLATILS ET PROCEDES**
[72] GOLDBERG, ARTHUR, US
[72] GHALILI, BABAK, US
[72] BORJA, JOHN, US
[71] GOLDBERG, ARTHUR, US
[71] GHALILI, BABAK, US
[71] BORJA, JOHN, US
[85] 2022-07-29
[86] 2021-01-28 (PCT/US2021/015467)
[87] (WO2021/154979)
[30] US (62/968,249) 2020-01-31
[30] US (62/981,772) 2020-02-26

[21] **3,176,556**
[13] A1
[51] **Int.Cl. A61P 27/02 (2006.01) C07K 16/22 (2006.01)**
[25] EN
[54] **ANTI-BETACELLULIN ANTIBODIES, FRAGMENTS THEREOF, AND MULTI-SPECIFIC BINDING MOLECULES**
[54] **ANTICORPS ANTI-BETACELLULINE, FRAGMENTS DE CEUX-CI ET MOLECULES DE LIAISON MULTI-SPECIFIQUES**
[72] BIGELOW, CHAD ERIC, US
[72] CARRION, ANA MARIA, US
[72] CHASTAIN, JAMES EDGAR, US
[72] CLARK, KIRK LEE, US
[72] ETEMAD-GILBERTSON, BIJAN ALEXANDRE, US
[72] GHOSH, JOY GISPATI, US
[72] HANKS, SHAWN MICHAEL, US
[72] HAUBST, NICOLE, DE
[72] IYER, GANESH RAJAN, US
[72] MOKER, NINA, DE
[72] NGUYEN, ANDREW ANH, US
[72] POOR, STEPHEN HENDRICK, US
[72] QIU, YUBIN, US
[72] RANGASWAMY, NALINI VELAMUR, US
[72] STEFANIDAKIS, MICHAEL, US
[72] TOKSOZ, ENGIN, DE
[72] TWAROG, MICHAEL ZBIGNIEW, US
[71] NOVARTIS AG, CH
[85] 2022-09-22
[86] 2021-07-14 (PCT/IB2021/056363)
[87] (WO2022/013787)
[30] US (63/052,789) 2020-07-16
[30] US (63/156,709) 2021-03-04

[21] **3,176,557**
[13] A1
[51] **Int.Cl. E04B 1/74 (2006.01) B23B 5/02 (2006.01) C09K 5/02 (2006.01) E04B 1/76 (2006.01) F16L 59/00 (2006.01)**
[25] EN
[54] **INSULATION INCLUDING PHASE CHANGE MATERIALS**
[54] **ISOLATION COMPRENANT DES MATERIAUX A CHANGEMENT DE PHASE**
[72] LOHSE, ALEXANDER, US
[72] DECAROLIS, DAVID, US
[72] NEWSOME, TONI, US
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[85] 2022-09-20
[86] 2021-03-22 (PCT/US2021/023403)
[87] (WO2021/194925)
[30] US (62/993,351) 2020-03-23

[21] **3,176,558**
[13] A1
[51] **Int.Cl. E04G 1/14 (2006.01) E04G 3/20 (2006.01) E04G 5/14 (2006.01) E04G 7/00 (2006.01) E06C 7/08 (2006.01) E06C 7/18 (2006.01)**
[25] EN
[54] **SYSTEM FOR ACCESSING AND/OR ALLOWING SAFE MOVEMENT ON A UNIT MOUNTED ON A STRUCTURAL SUPPORT**
[54] **SYSTEME POUR ACCEDER ET/OU PERMETTRE UN MOUVEMENT SUR SUR UNE UNITE MONTEE SUR UN SUPPORT STRUCTURAL**
[72] KERFIEN, RYAN CHARLES, US
[72] SOLLENBERGER, NATHAN BRIAN, US
[71] HOFFMAN & HOFFMAN, INC., US
[85] 2022-09-22
[86] 2021-03-31 (PCT/US2021/025143)
[87] (WO2021/202705)
[30] US (63/002,800) 2020-03-31

[21] **3,176,559**
[13] A1
[51] **Int.Cl. A61K 9/48 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **25-HYDROXYVITAMIN D FOR THE TREATMENT OF SARS-COV-2 INFECTION**
[54] **25-HYDROXYVITAMINE D POUR LE TRAITEMENT D'UNE INFECTION PAR LE SARS-COV-2**
[72] BISHOP, CHARLES W., US
[72] STRUGNELL, STEPHEN A., US
[72] ASHFAQ, AKHTAR, US
[72] ELSIDDIG, REEM ELAMEIN, IE
[72] NULTY, COLM, IE
[71] EIRGEN PHARMA LTD., IE
[85] 2022-09-22
[86] 2021-04-06 (PCT/IB2021/000220)
[87] (WO2021/205225)
[30] US (63/006,034) 2020-04-06
[30] US (63/006,563) 2020-04-07
[30] US (63/009,155) 2020-04-13
[30] US (63/012,781) 2020-04-20
[30] US (63/032,714) 2020-05-31

[21] **3,176,560**
[13] A1
[51] **Int.Cl. B63H 20/00 (2006.01) B63H 25/02 (2006.01) B63H 25/04 (2006.01)**
[25] EN
[54] **CLUTCH MECHANISMS FOR STEERING CONTROL SYSTEM**
[54] **MECANISMES D'EMBRAYAGE POUR COLONNE DE COMMANDE DE DIRECTION**
[72] AMBLER, LINDSAY, US
[72] MOGLE, TOM, US
[72] ARMSTRONG, CHUCK, US
[72] AMBLER, RICHARD WILLIAM, US
[71] RHODAN MARINE SYSTEMS OF FLORIDA, LLC, US
[85] 2022-09-20
[86] 2021-03-25 (PCT/US2021/024194)
[87] (WO2021/195407)
[30] US (63/000,773) 2020-03-27

[21] **3,176,561**
[13] A1
[51] **Int.Cl. A61K 8/02 (2006.01) A61Q 90/00 (2009.01) A61K 8/20 (2006.01) A61K 8/34 (2006.01) A61K 8/36 (2006.01) A61K 8/73 (2006.01) A61K 8/92 (2006.01) A61P 11/02 (2006.01) A61P 11/14 (2006.01) A61P 29/00 (2006.01) A61Q 5/00 (2006.01) A61Q 9/02 (2006.01) A61Q 19/00 (2006.01) A61Q 19/10 (2006.01)**
[25] EN
[54] **STRUCTURED RHEOLOGICAL SOLID PERSONAL CARE COMPOSITIONS**
[54] **COMPOSITIONS DE SOINS PERSONNELS SOLIDES RHEOLOGIQUES STRUCTUREES**
[72] LYNCH, MATTHEW LAWRENCE, US
[72] ILLIE, BRANDON PHILIP, US
[72] ZHU, TAOTAO, US
[72] DRIA, JAMIE LYNN, US
[72] LIN, TINLEE, US
[72] LUDHER, BALTEJ, US
[72] VEINTIMILLA, GREG, US
[72] MOLL, CORRIE, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-09-22
[86] 2021-04-08 (PCT/US2021/026313)
[87] (WO2021/207451)
[30] US (63/007,963) 2020-04-10
[30] US (63/081,436) 2020-09-22

[21] **3,176,564**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) G01N 33/531 (2006.01) G01N 33/563 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **ANTI-HUMAN LAG-3 ANTIBODIES AND THEIR USE IN IMMUNOHISTOCHEMISTRY (IHC)**
[54] **ANTICORPS ANTI-LAG-3 HUMAINS ET LEUR UTILISATION EN IMMUNOHISTOCHIMIE (IHC)**
[72] SORENSEN, MORTEN DRAEBY, US
[72] HAGEDORN-OLSEN, TINE, US
[71] AGILENT TECHNOLOGIES, INC., US
[85] 2022-09-20
[86] 2021-05-26 (PCT/US2021/034278)
[87] (WO2021/242876)
[30] US (63/030,873) 2020-05-27

[21] **3,176,565**
[13] A1
[51] **Int.Cl. A61K 8/31 (2006.01) A61K 8/34 (2006.01) A61K 8/37 (2006.01) A61K 8/891 (2006.01) A61Q 5/00 (2006.01) A61Q 5/06 (2006.01)**
[25] EN
[54] **LEAVE-ON PENETRATING OIL HAIR COMPOSITION**
[54] **COMPOSITION CAPILLAIRE A BASE D'HUILE PENETRANTE SANS RINCAGE**
[72] EKMAN-GUNN, EUEN, US
[72] NOGUEIRA, ANA CAROLINA, US
[71] JOHNSON & JOHNSON CONSUMER INC., US
[85] 2022-09-22
[86] 2021-03-23 (PCT/IB2021/052395)
[87] (WO2021/191790)
[30] US (16/829,234) 2020-03-25

[21] **3,176,566**
[13] A1
[51] **Int.Cl. A23L 33/18 (2016.01) A23C 11/10 (2021.01) A23C 20/02 (2021.01) A23J 3/14 (2006.01) A23L 2/38 (2021.01) A23L 2/66 (2006.01) C12N 9/16 (2006.01) C12N 9/78 (2006.01)**
[25] EN
[54] **USE OF PHYTASE TO OBTAIN IMPROVED FOOD**
[54] **UTILISATION DE PHYTASE POUR OBTENIR UN ALIMENT AMELIORE**
[72] VLASIE, MONICA DIANA, NL
[72] LANGEVELD, PIETER CORNELIS, NL
[71] DSM IP ASSETS B.V., NL
[85] 2022-09-22
[86] 2021-03-29 (PCT/EP2021/058137)
[87] (WO2021/198167)
[30] EP (20167149.2) 2020-03-31

[21] **3,176,567**
[13] A1
[51] **Int.Cl. C12N 15/81 (2006.01) C12N 15/52 (2006.01)**
[25] EN
[54] **BIOSYNTHESIS OF MOGROSIDES**
[54] **BIOSYNTHESE DE MOGROSIDES**
[72] BECKER, DIVEENA, US
[72] BOBER, JOSEF, US
[72] GARDIN, JUSTIN MICHAEL, US
[72] MCMAHON, MATTHEW, US
[71] GINKGO BIOWORKS, INC., US
[85] 2022-09-22
[86] 2022-03-11 (PCT/US2022/019977)
[87] (WO2022/192688)
[30] US (63/160,712) 2021-03-12

[21] **3,176,568**
[13] A1
[51] **Int.Cl. B01D 53/04 (2006.01) C10L 3/10 (2006.01) G05B 19/414 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR OPERATING AN ADSORPTION-BASED SYSTEM FOR REMOVING WATER FROM A PROCESS STREAM**
[54] **PROCEDE ET SYSTEME POUR FAIRE FONCTIONNER UN SYSTEME A BASE D'ADSORPTION POUR ELIMINER L'EAU D'UN FLUX DE TRAITEMENT**
[72] VENKATESAN, SARAVANAN, IN
[72] MADYASTHA, VENKATESH KATTIGARI, IN
[72] CONRADUS, ISABEL MARGUERITE ANTONIA, NL
[72] SMALING, CORNELIS MARCO, NL
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2022-09-22
[86] 2021-04-01 (PCT/EP2021/058636)
[87] (WO2021/204678)
[30] IN (202041015254) 2020-04-07
[30] EP (20176309.1) 2020-05-25

[21] **3,176,569**
[13] A1
[51] **Int.Cl. A61K 9/20 (2006.01) A61K 31/4545 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01)**
[25] EN
[54] **TREATMENT OF TYPE 2 DIABETES OR OBESITY OR OVERWEIGHT WITH 2-[(4-{6-[(4-CYANO-2-FLUOROBENZYL)OXY]PYRIDIN-2-YL} PIPERIDIN-1-YL)METHYL]-1-[(2S)-OXETAN-2-YLMETHYL]-1H-BENZIMIDAZOLE-6-CARBOXYLIC ACID OR A PHARMACEUTICALLY SALT THEREOF**
[54] **TRAITEMENT DU DIABETE DE TYPE 2 OU DE L'OBESITE OU DU SURPOIDS AVEC DE L'ACIDE 2-[(4-{6-[(4-CYANO-2-FLUOROBENZYL) OXY]PYRIDIN-2-YL}PIPERIDIN-1-YL)METHYL]-1-[(2S)-OXETAN-2-YLMETHYL]-1H-BENZIMIDAZOLE-6-CARBOXYLIQUE OU UN SEL PHARMACEUTIQUEMENT ACCEPTABLE CORRESPONDANT**
[72] LEE, KAI TECK, GB
[72] MANTHENA, SWETA, US
[72] SAXENA, ADITI RAO, US
[71] PFIZER INC., US
[85] 2022-09-22
[86] 2021-03-24 (PCT/IB2021/052430)
[87] (WO2021/191812)
[30] US (63/000,787) 2020-03-27
[30] US (63/126,113) 2020-12-16
[30] US (63/135,870) 2021-01-11

[21] **3,176,570**
[13] A1
[51] **Int.Cl. A61K 8/34 (2006.01) A61Q 11/00 (2006.01) A61Q 13/00 (2006.01)**
[25] EN
[54] **MINT FLAVOR COMPOSITIONS**
[54] **COMPOSITIONS D'AROME DE MENTHE**
[72] MORGAN, GEORGE KAVIN, III, US
[72] SANKER, LOWELL ALAN, US
[72] ANDERSON, DAWN LOUISE, US
[72] HOKE, STEVEN HAMILTON, II, US
[72] LEI, QINGXIN, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-09-22
[86] 2021-04-29 (PCT/US2021/029772)
[87] (WO2021/222485)
[30] US (63/018,524) 2020-05-01
[30] US (63/018,526) 2020-05-01
[30] US (63/018,527) 2020-05-01

[21] **3,176,571**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 11/00 (2006.01) A61P 29/00 (2006.01) A61P 31/14 (2006.01) C07K 16/24 (2006.01) G01N 33/569 (2006.01)**
[25] EN
[54] **TREATING ACUTE RESPIRATORY DISTRESS SYNDROME WITH IL-33 AXIS BINDING ANTAGONISTS**
[54] **TRAITEMENT DU SYNDROME DE DETRESSE RESPIRATOIRE AIGUE AVEC DES ANTAGONISTES DE LIAISON A L'AXE IL-33**
[72] PANDYA, HITESH CHAMPAKLAL, GB
[72] COHEN, EMMA SUZANNE, GB
[72] KELL, CHRISTOPHER MARTIN, GB
[71] MEDIMMUNE LIMITED, GB
[85] 2022-09-22
[86] 2021-04-01 (PCT/EP2021/058749)
[87] (WO2021/204707)
[30] US (63/005,649) 2020-04-06
[30] US (63/015,915) 2020-04-27
[30] US (63/140,502) 2021-01-22

[21] **3,176,573**
[13] A1
[51] **Int.Cl. A61K 38/19 (2006.01) C12N 5/0735 (2010.01) A61K 8/14 (2006.01) A61K 8/64 (2006.01) A61K 9/127 (2006.01) A61K 38/18 (2006.01) A61K 38/20 (2006.01) A61K 38/39 (2006.01) A61P 17/02 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL AND COSMETIC COMPOSITIONS COMPRISING SECRETOMES**
[54] **COMPOSITIONS PHARMACEUTIQUES ET COSMETIQUES COMPRENANT DES SECRETOMES**
[72] LEE, JAU-NAN, TW
[72] LEE, YUTA, TW
[72] LEE, TONY TUNG-YIN, US
[71] ACCELERATED BIOSCIENCES CORP., US
[85] 2022-09-22
[86] 2021-05-04 (PCT/US2021/030681)
[87] (WO2021/226108)
[30] US (63/020,250) 2020-05-05

[21] **3,176,574**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61P 25/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **OFATUMUMAB FOR TREATING MS WHILE MAINTAINING SERUM IGG**
[54] **OFATUMUMAB POUR TRAITER LA SCLEROSE EN PLAQUES TOUT EN MAINTENANT L'IGG SERIQUE**
[72] PINGILI, RATNAKAR, US
[72] MERSCHHEMKE, MARTIN, CH
[71] NOVARTIS AG, CH
[85] 2022-09-22
[86] 2021-04-09 (PCT/EP2021/059285)
[87] (WO2021/204994)
[30] EP (20169007.0) 2020-04-09
[30] EP (20176057.6) 2020-05-22
[30] US (63/076,628) 2020-09-10
[30] US (63/166,054) 2021-03-25

[21] **3,176,575**
[13] A1
[51] **Int.Cl. B29C 48/10 (2019.01) B29C 48/25 (2019.01) B29C 48/32 (2019.01) B29C 48/95 (2019.01) B29C 48/27 (2019.01)**
[25] EN
[54] **POLYMER EXTRUSION PROCESS**
[54] **PROCEDE D'EXTRUSION DE POLYMERE**
[72] WASYLENKO, DEREK, CA
[72] CHISHOLM, P. SCOTT, CA
[72] TIKUISIS, TONY, CA
[72] AUBEE, NORMAN, CA
[72] WALDIE, FRASER, CA
[72] CHECKNITA, DOUGLAS, CA
[71] NOVA CHEMICALS CORPORATION, CA
[85] 2022-09-22
[86] 2021-04-26 (PCT/IB2021/053417)
[87] (WO2021/220134)
[30] US (63/017,089) 2020-04-29

[21] **3,176,576**
[13] A1
[51] **Int.Cl. G02B 1/14 (2015.01) C09D 5/00 (2006.01) G02C 7/02 (2006.01) G02C 7/06 (2006.01)**
[25] EN
[54] **LENS WITH SURFACE MICROSTRUCTURES ENCAPSULATED BY A SELF-STRATIFIED HARD COAT**
[54] **LENTILLE AVEC MICROSTRUCTURES DE SURFACE ENCAPSULEES PAR UN REVETEMENT DUR AUTO-STRATIFIE**
[72] BITEAU, JOHN, US
[71] ESSILOR INTERNATIONAL, FR
[85] 2022-09-22
[86] 2021-04-22 (PCT/EP2021/060478)
[87] (WO2021/214197)
[30] EP (20305401.0) 2020-04-23

[21] **3,176,577**
[13] A1
[51] **Int.Cl. A23G 4/06 (2006.01) A23L 27/20 (2016.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **MINT FLAVOR COMPOSITIONS**
[54] **COMPOSITIONS D'AROME DE MENTHE**
[72] MORGAN, GEORGE KAVIN, III, US
[72] SANKER, LOWELL ALAN, US
[72] ANDERSON, DAWN LOUISE, US
[72] HOKE, STEVEN HAMILTON, II, US
[72] LEI, QINGXIN, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-09-22
[86] 2021-04-29 (PCT/US2021/029773)
[87] (WO2021/222486)
[30] US (63/018,525) 2020-05-01

[21] **3,176,579**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C07K 16/40 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **ANTIBODIES BINDING TO CD3**
[54] **ANTICORPS SE LIANT A CD3**
[72] CARPY GUTIERREZ CIRLOS, ALEJANDRO, DE
[72] FREIMOSER-GRUNDSCHOBER, ANNE, CH
[72] HOFER, THOMAS, CH
[72] KLEIN, CHRISTIAN, CH
[72] MOESSNER, EKKEHARD, CH
[72] NEUMANN, CHRISTIANE, CH
[72] UMANA, PABLO, CH
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2022-09-22
[86] 2021-06-17 (PCT/EP2021/066346)
[87] (WO2021/255142)
[30] EP (20180968.8) 2020-06-19

[21] **3,176,580**
[13] A1
[51] **Int.Cl. A61K 8/31 (2006.01) A61K 8/9789 (2017.01) A61K 8/34 (2006.01) A61Q 13/00 (2006.01)**
[25] EN
[54] **MINT FLAVOR COMPOSITIONS**
[54] **COMPOSITIONS D'AROME DE MENTHE**
[72] MORGAN, GEORGE KAVIN, III, US
[72] SANKER, LOWELL ALAN, US
[72] ANDERSON, DAWN LOUISE, US
[72] HOKE, STEVEN HAMILTON, II, US
[72] LEI, QINGXIN, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-09-22
[86] 2021-04-29 (PCT/US2021/029774)
[87] (WO2021/222487)
[30] US (63/018,528) 2020-05-01

[21] **3,176,581**
[13] A1
[51] **Int.Cl. G06Q 50/06 (2012.01) H01M 8/0656 (2016.01) C25B 1/04 (2021.01) C25B 9/00 (2021.01) H01M 8/04 (2016.01) H02J 3/38 (2006.01) H02J 15/00 (2006.01)**
[25] EN
[54] **WIDE-AREA POWER SUPPLY SYSTEM**
[54] **SYSTEME D'ALIMENTATION ELECTRIQUE A GRANDE SURFACE**
[72] KAMEI, MASAMICHI, JP
[71] LAND BUSINESS CO.,LTD., JP
[85] 2022-09-22
[86] 2021-02-17 (PCT/JP2021/005803)
[87] (WO2021/177028)
[30] JP (2020-036883) 2020-03-04

[21] **3,176,582**
[13] A1
[51] **Int.Cl. A61M 60/104 (2021.01) A61M 1/00 (2006.01) A61M 1/16 (2006.01) A61M 1/36 (2006.01) B01D 61/28 (2006.01) B01D 61/32 (2006.01)**
[25] EN
[54] **FLOW BALANCING DEVICES, METHODS, AND SYSTEMS**
[54] **DISPOSITIFS, PROCEDES, ET SYSTEMES D'EQUILIBRAGE DE DEBITS**
[72] TREU, DENNIS M., US
[72] JAMES, JEROME, US
[72] BURBANK, JEFFREY H., US
[72] RUBERY, JR., DANIEL JOSEPH, US
[71] NXSTAGE MEDICAL, INC., US
[85] 2022-09-22
[86] 2021-04-21 (PCT/US2021/028428)
[87] (WO2021/216730)
[30] US (63/013,802) 2020-04-22

[21] **3,176,584**
[13] A1
[51] **Int.Cl. A61J 1/05 (2006.01) A61K 9/08 (2006.01) A61K 31/4704 (2006.01) A61K 31/7084 (2006.01) A61K 47/02 (2006.01) A61K 47/32 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **SILVER SALT-CONTAINING OPHTHALMIC AQUEOUS COMPOSITION FILLED IN RESIN CONTAINER**
[54] **COMPOSITION OPHTALMIQUE AQUEUSE CONTENANT UN SEL D'ARGENT AU MOYEN DE LAQUELLE UN RECIPIENT DE RESINE EST REMPLI**
[72] MOMOKAWA, YUSUKE, JP
[72] IIDA, MAKI, JP
[72] ASADA, HIROYUKI, JP
[72] FUJISAWA, TOYOMI, JP
[71] SANTEN PHARMACEUTICAL CO., LTD., JP
[85] 2022-09-22
[86] 2021-02-26 (PCT/JP2021/007366)
[87] (WO2021/199814)
[30] JP (2020-062252) 2020-03-31

[21] **3,176,586**
[13] A1
[51] **Int.Cl. A61K 31/00 (2006.01) A61K 31/33 (2006.01) C12Q 1/00 (2006.01) C12Q 1/04 (2006.01) C12Q 1/18 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING POLYMICROBIAL INFECTIONS**
[54] **PROCEDES DE TRAITEMENT D'INFECTIONS POLYMICROBIENNES**
[72] BAUNOCH, DAVID A., US
[72] PENARANDA, MIGUEL F.R., US
[72] OPEL, MICHAEL L., US
[72] BADIR, MAHER, US
[72] LUKE, NATALIE, US
[71] CAP DIAGNOSTICS, LLC, DBA PATHNOSTICS, US
[85] 2022-09-22
[86] 2021-04-14 (PCT/US2021/027336)
[87] (WO2021/211746)
[30] US (16/848,651) 2020-04-14
[30] US (63/047,846) 2020-07-02
[30] US (63/063,093) 2020-08-07
[30] US (63/111,287) 2020-11-09
[30] US (63/119,328) 2020-11-30
[30] US (17/178,091) 2021-02-17

[21] **3,176,587**
[13] A1
[51] **Int.Cl. A61F 5/445 (2006.01)**
[25] EN
[54] **OSTOMY APPLIANCE**
[54] **APPAREIL DE STOMIE**
[72] HOGGARTH, MARCUS, GB
[72] POYNTZ, OLIVER, GB
[71] CONVATEC LIMITED, GB
[85] 2022-09-22
[86] 2021-04-14 (PCT/GB2021/050895)
[87] (WO2021/209750)
[30] GB (2005464.9) 2020-04-15
[30] GB (2005463.1) 2020-04-15
[30] GB (2005465.6) 2020-04-15

[21] **3,176,588**
[13] A1
[51] **Int.Cl. A61K 8/25 (2006.01) A61K 8/81 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **TOOTHPASTE COMPOSITIONS COMPRISING SILICA AND SURFACE ACTIVE POLYMER**
[54] **COMPOSITIONS DE DENTIFRICE COMPRENANT DE LA SILICE ET UN POLYMERE TENSIOACTIF**
[72] AZIRBAYEVA, LARISSA, US
[72] MEZA, JESSICA ONG, US
[72] CAGGIONI, MARCO, US
[72] LAIRD, MATTHEW FRAZIER, US
[72] ROITER, YURI VOLODYMYROVYCH, US
[72] MEDLEY, CHRISTOPHER, US
[72] HU, FANG, US
[72] HARTT, WILLIAM HANDY, US
[72] SHAHSAVARI, SETAREH, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-09-22
[86] 2021-04-19 (PCT/US2021/027872)
[87] (WO2021/216394)
[30] US (63/012,419) 2020-04-20
[30] US (63/034,420) 2020-06-04

[21] **3,176,591**
[13] A1
[51] **Int.Cl. A61M 25/00 (2006.01)**
[25] EN
[54] **A WETTING MECHANISM FOR A CATHETER**
[54] **MECANISME DE MOUILLAGE POUR UN CATHETER**
[72] KENDRICK, ANDREW, GB
[72] LAMBRETHSEN, JULIE, GB
[72] PFLEGER, OLIVER WALTER, GB
[72] WROBLEWSKI, MICHAL, GB
[71] CONVATEC LIMITED, GB
[85] 2022-09-22
[86] 2021-04-23 (PCT/GB2021/050980)
[87] (WO2021/214477)
[30] GB (2006055.4) 2020-04-24

[21] **3,176,593**
[13] A1
[51] **Int.Cl. C12N 5/0735 (2010.01) C12N 5/00 (2006.01)**
[25] EN
[54] **HEPES-CONTAINING MEDIUM**
[54] **MILIEU CONTENANT DE L'HEPES**
[72] SUZUKI, YU, JP
[72] KITAZAWA, MANABU, JP
[72] OGAWA, SHIMPEI, JP
[71] AJINOMOTO CO., INC., JP
[85] 2022-09-22
[86] 2021-03-24 (PCT/JP2021/012327)
[87] (WO2021/193748)
[30] JP (2020-054572) 2020-03-25

[21] **3,176,594**
[13] A1
[51] **Int.Cl. A61L 9/015 (2006.01)**
[25] EN
[54] **SCENT CONTROL DEVICE AND METHODS FOR TREATING AN ENVIRONMENT**
[54] **DISPOSITIF DE CONTROLE D'ODEUR ET METHODES DE TRAITEMENT D'UN ENVIRONNEMENT**
[72] ELROD, SCOTT A., US
[71] ELROD, SCOTT A., US
[85] 2022-09-22
[86] 2021-04-09 (PCT/US2021/026604)
[87] (WO2021/207619)
[30] US (63/008,157) 2020-04-10

[21] **3,176,597**
[13] A1
[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/01 (2006.01)**
[25] EN
[54] **A WETTING MECHANISM FOR A CATHETER**
[54] **MECANISME D'HUMIDIFICATION POUR UN CATHETER**
[72] KENDRICK, ANDREW, GB
[72] LAMBRETHSEN, JULIE, GB
[72] PFLEGER, OLIVER WALTER, GB
[72] WROBLEWSKI, MICHAL, GB
[71] CONVATEC LIMITED, GB
[85] 2022-09-22
[86] 2021-04-23 (PCT/GB2021/050983)
[87] (WO2021/214480)
[30] GB (2006060.4) 2020-04-24

[21] **3,176,598**
[13] A1
[51] **Int.Cl. B01D 57/02 (2006.01) B01L 3/00 (2006.01) B03C 5/00 (2006.01) B81B 1/00 (2006.01) G01N 1/00 (2006.01) G01N 27/30 (2006.01) G01N 27/447 (2006.01)**
[25] EN
[54] **A TUNABLE MICROFLUIDIC DIELECTROPHORESIS SORTER**
[54] **TRIEUSE DE DIELECTROPHORESE MICROFLUIDIQUE ACCORDABLE**
[72] CARDENAS BENITEZ, BRAULIO, US
[72] AGHAAMOO, MOHAMMAD, US
[72] BIRO, RONALD L., US
[72] DAY, KEVIN, US
[72] LEE, ABRAHAM P., US
[72] MENDEZ, EDWIN, US
[72] SAMUEL, PON, US
[72] SCHARES, JUSTIN, US
[72] YUN, YUE, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[85] 2022-09-22
[86] 2021-04-19 (PCT/US2021/027945)
[87] (WO2021/212102)
[30] US (63/011,426) 2020-04-17

[21] **3,176,599**
[13] A1
[51] **Int.Cl. G01N 33/48 (2006.01) A61B 5/00 (2006.01)**
[25] EN
[54] **GLUCOSE PREDICTION USING MACHINE LEARNING AND TIME SERIES GLUCOSE MEASUREMENTS**
[54] **PREDICTION DU GLUCOSE A L'AIDE D'UN APPRENTISSAGE AUTOMATIQUE ET DE MESURES DE GLUCOSE EN SERIE CHRONOLOGIQUE**
[72] DERDZINSKI, MARK, US
[72] PARKER, ANDREW SCOTT, US
[71] DEXCOM, INC., US
[85] 2022-09-22
[86] 2020-12-04 (PCT/US2020/063437)
[87] (WO2021/242304)
[30] US (63/030,492) 2020-05-27

[21] **3,176,601**
[13] A1
[51] **Int.Cl. A61B 5/257 (2021.01) C09J 7/38 (2018.01) A61B 5/263 (2021.01)**
[25] EN
[54] **ISOTROPIC NON-AQUEOUS ELECTRODE SENSING MATERIAL**
[54] **MATERIAU DE DETECTION D'ELECTRODE NON AQUEUSE ISOTROPE**
[72] SKOV, RICHARD, US
[72] BURNHAM, KENNETH, US
[72] MARIUCCI, PATRICE, US
[72] FITZGERALD, PAMELA, US
[72] CASEY, JAMES, US
[71] FLEXCON COMPANY, INC., US
[85] 2022-09-22
[86] 2021-03-25 (PCT/US2021/024083)
[87] (WO2021/195332)
[30] US (62/994,558) 2020-03-25

[21] **3,176,603**
[13] A1
[51] **Int.Cl. G16H 50/30 (2018.01) A61B 5/00 (2006.01) A61B 5/0205 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR NON-INVASIVE FORECASTING, DETECTION AND MONITORING OF VIRAL INFECTIONS**
[54] **PROCEDES ET SYSTEMES DE PREVISION, DETECTION ET SURVEILLANCE D'INFECTIONS VIRALES**
[72] TOGNETTI, SIMONE, IT
[72] REGALIA, GIULIA, IT
[72] MORTERA, ANDREA, IT
[72] LAI, MATTEO, US
[72] PICARD, ROSALIND, US
[72] ONORATI, FRANCESCO, US
[71] EMPATICA SRL, IT
[85] 2022-09-22
[86] 2021-04-19 (PCT/US2021/027988)
[87] (WO2021/212112)
[30] US (63/011,833) 2020-04-17

[21] **3,176,604**
[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 15/015 (2020.01) A24F 40/10 (2020.01) A24F 40/40 (2020.01) A24F 40/46 (2020.01) A24F 7/00 (2006.01)**
[25] EN
[54] **PERSONAL VAPORIZER FOR USE WITH VIAL**
[54] **VAPORISATEUR PERSONNEL DESTINE A ETRE UTILISE AVEC UN FLACON**
[72] RADO, J. CHRISTIAN, US
[71] VAPOROUS TECHNOLOGIES, INC., US
[85] 2022-09-22
[86] 2021-01-19 (PCT/US2021/014030)
[87] (WO2021/146739)
[30] US (62/962,125) 2020-01-16

[21] **3,176,605**
[13] A1
[51] **Int.Cl. A61K 9/12 (2006.01) C12N 15/115 (2010.01) A61K 9/20 (2006.01) A61K 31/712 (2006.01) A61P 31/16 (2006.01)**
[25] EN
[54] **APTAMERS FOR PERSONAL HEALTH CARE APPLICATIONS**
[54] **APTAMERES POUR DES APPLICATIONS DE SOINS DE SANTE PERSONNELS**
[72] VELASQUEZ, JUAN ESTEBAN, US
[72] RUPARD, SPENCER CHRISTOPHER, US
[72] TREJO, AMY VIOLET, US
[72] PITZ, ADAM MICHAEL, US
[72] SCHMEICHEL, KELLY LEE, US
[72] SWIGART, ERIN NICOLE, US
[72] PENNER, GREGORY ALLEN, CA
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-09-22
[86] 2021-06-24 (PCT/US2021/038785)
[87] (WO2021/262911)
[30] US (63/043,952) 2020-06-25

[21] **3,176,606**
[13] A1
[51] **Int.Cl. A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-PD-1 ANTIBODIES AND METHODS OF USE**
[54] **ANTICORPS ANTI-PD1 ET METHODES D'UTILISATION**
[72] LI, YIWEN, US
[72] HU, YUXIANG, CA
[71] CUREIMMUNE THERAPEUTICS INC., CA
[85] 2022-09-22
[86] 2021-03-25 (PCT/US2021/024208)
[87] (WO2021/195415)
[30] US (63/000,386) 2020-03-26

[21] **3,176,607**
[13] A1
[51] **Int.Cl. A01N 59/00 (2006.01) A01N 43/26 (2006.01)**
[25] EN
[54] **MODIFIED PLANTS AND METHODS TO DETECT PATHOGENIC DISEASE**
[54] **PLANTES MODIFIEES ET PROCEDES POUR DETECTER UNE MALADIE PATHOGENE**
[72] MOHLER, KYLE, US
[72] GERMAN, MARCELO, US
[71] INSIGNUM AGTECH, LLC, US
[85] 2022-09-22
[86] 2021-03-23 (PCT/US2021/023631)
[87] (WO2021/195050)
[30] US (62/994,036) 2020-03-24

[21] **3,176,608**
[13] A1
[51] **Int.Cl. G09B 19/00 (2006.01)**
[25] EN
[54] **REFLECTIVE VIDEO DISPLAY APPARATUS FOR INTERACTIVE TRAINING AND DEMONSTRATION AND METHODS OF USING SAME**
[54] **APPAREIL D'AFFICHAGE VIDEO REFLECHISSANT PERMETTANT UN APPRENTISSAGE ET UNE DEMONSTRATION INTERACTIFS ET SES PROCEDES D'UTILISATION**
[72] PUTNAM, BRYNN, US
[72] D'AMBROSIO-CORRELL, KRISTIE, US
[71] CURIOUSER PRODUCTS INC., US
[85] 2022-09-22
[86] 2021-04-29 (PCT/US2021/029786)
[87] (WO2021/222497)
[30] US (63/017,781) 2020-04-30
[30] US (63/173,587) 2021-04-12

[21] **3,176,609**
[13] A1
[51] **Int.Cl. C07D 417/04 (2006.01) A61K 31/015 (2006.01) A61K 31/16 (2006.01) A61K 31/4192 (2006.01)**
[25] EN
[54] **KCNT1 INHIBITORS AND METHODS OF USE**
[54] **INHIBITEURS DE KCNT1 ET PROCEDES D'UTILISATION**
[72] MARTINEZ BOTELLA, GABRIEL, US
[72] GRIFFIN, ANDREW MARK, CA
[71] PRAXIS PRECISION MEDICINES, INC., US
[85] 2022-09-22
[86] 2021-03-23 (PCT/US2021/023653)
[87] (WO2021/195066)
[30] US (62/993,359) 2020-03-23

[21] **3,176,613**
[13] A1
[51] **Int.Cl. A61K 47/54 (2017.01) A61K 38/00 (2006.01) C07K 14/605 (2006.01)**
[25] EN
[54] **GLUCAGON ANALOGUES AS LONG-ACTING GLP-1/GLUCAGON RECEPTOR AGONISTS IN THE TREATMENT OF FATTY LIVER DISEASE AND STEATOHEPATITIS**
[54] **ANALOGUES DU GLUCAGON UTILISES EN TANT QU'AGONISTES DU RECEPTEUR DE GLP-1/GLUCAGON A ACTION PROLONGEE DANS LE TRAITEMENT DE LA STEATOSE HEPATIQUE ET DE LA STEATOHEPATITE**
[72] THOMAS, LEO, DE
[71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE
[85] 2022-09-23
[86] 2021-04-22 (PCT/EP2021/060532)
[87] (WO2021/214220)
[30] EP (20171285.8) 2020-04-24

[21] **3,176,614**
[13] A1
[51] **Int.Cl. A61K 39/215 (2006.01) A61K 39/385 (2006.01) A61K 39/39 (2006.01) C07K 14/165 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TARGETING CORONAVIRUS USING LIPID VESICLES INCLUDING EXOSOMES**
[54] **COMPOSITIONS ET METHODES DE CIBLAGE DE CORONAVIRUS A L'AIDE DE VESICULES LIPIDIQUES COMPRENANT DES EXOSOMES**
[72] KALLURI, RAGHU, US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2022-09-22
[86] 2021-03-23 (PCT/US2021/023731)
[87] (WO2021/195113)
[30] US (62/993,424) 2020-03-23

[21] **3,176,615**
[13] A1
[51] **Int.Cl. C12Q 1/6806 (2018.01) C12Q 1/6853 (2018.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR PREPARING NUCLEIC ACID LIBRARIES**
[54] **PROCEDES ET COMPOSITIONS UTILISABLES EN VUE DE LA PREPARATION DE BANQUES D'ACIDES NUCLEIQUES**
[72] CHRISTIANSEN, LENA, US
[72] POKHOLOK, DMITRY, US
[72] STEEMERS, FRANK J., US
[72] PANTOJA, RIGO, US
[72] CHU, MEGAN, US
[72] IAVICOLI, PATRIZIA, US
[72] CHANG, WEIHUA, US
[72] BRODIN, JEFFREY, US
[72] VERMAAS, ERIC, US
[72] THOMAS, JERUSHAH, US
[72] ZHANG, FAN, US
[71] ILLUMINA, INC., US
[85] 2022-09-22
[86] 2021-03-29 (PCT/US2021/024695)
[87] (WO2021/202403)
[30] US (63/001,684) 2020-03-30

[21] **3,176,617**
[13] A1
[51] **Int.Cl. A61K 51/04 (2006.01) A61K 39/395 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **FGFR3-TARGETED RADIOIMMUNOCONJUGATES AND USES THEREOF**
[54] **RADIOIMMUNOCONJUGUES CIBLES PAR FGFR3 ET LEURS UTILISATIONS**
[72] BURAK, ERIC STEVEN, CA
[72] SCHWABISH, MARC, US
[72] GRINSHTEIN, NATALIE, US
[71] FUSION PHARMACEUTICALS INC., CA
[85] 2022-09-22
[86] 2021-03-23 (PCT/US2021/023755)
[87] (WO2021/195131)
[30] US (62/993,622) 2020-03-23

[21] **3,176,618**
[13] A1
[51] **Int.Cl. A61K 31/496 (2006.01) A61P 31/16 (2006.01) C07D 307/77 (2006.01) C07D 405/12 (2006.01)**
[25] EN
[54] **ANTIVIRAL 1,3-DI-OXO-INDENE COMPOUNDS**
[54] **COMPOSES DE 1,3-DI-OXO-INDENE ANTIVIRAUX**
[72] NEYTS, JOHAN, BE
[72] POON, DANIEL, US
[72] PFISTER, KEITH BRUCE, US
[72] MALPANI, YASHWARDHAN R., KR
[72] JUNG, YOUNG-SIK, KR
[72] HAN, SOO BONG, KR
[72] BISWAS, BISHYAJIT KUMAR, KR
[72] CHAKRASALI, PRASHANT, KR
[72] KIM, CHONSAENG, KR
[72] SHIN, JIN SOO, KR
[72] KIM, HAE SOO, KR
[72] LEE, CHONG-KYO, KR
[71] NOVARTIS AG, CH
[71] KATHOLIEKE UNIVERSITEIT LEUVEN, BE
[71] KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY, KR
[85] 2022-09-23
[86] 2021-04-20 (PCT/EP2021/060271)
[87] (WO2021/214080)
[30] US (63/012,780) 2020-04-20

[21] **3,176,619**
[13] A1
[51] **Int.Cl. A61K 31/422 (2006.01) A61K 31/559 (2006.01)**
[25] EN
[54] **METHODS AND PHARMACEUTICAL COMPOSITIONS OF THROMBOXANE A2 RECEPTOR ANTAGONIST FOR THE TREATMENT OF COVID-19**
[54] **METHODES ET COMPOSITIONS PHARMACEUTIQUES D'ANTAGONISTE DU RECEPTEUR DU THROMBOXANE A2 POUR LE TRAITEMENT DE LA COVID-19**
[72] OGLETREE, MARTIN, US
[71] OGLETREE, MARTIN, US
[85] 2022-09-22
[86] 2021-03-30 (PCT/US2021/024760)
[87] (WO2021/202437)
[30] US (63/002,511) 2020-03-31

[21] **3,176,620**
[13] A1
[51] **Int.Cl. C12Q 1/686 (2018.01) C12Q 1/6806 (2018.01) C12Q 1/6827 (2018.01) C12Q 1/6851 (2018.01) C12Q 1/6874 (2018.01) C12Q 1/6886 (2018.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR NUCLEIC ACID QUALITY DETERMINATION**
[54] **COMPOSITIONS ET PROCEDES POUR DETERMINER LA QUALITE D'ACIDES NUCLEIQUES**
[72] THOMPSON, JOHN F., US
[71] PERSONAL GENOME DIAGNOSTICS INC., US
[85] 2022-09-22
[86] 2021-03-30 (PCT/US2021/024962)
[87] (WO2021/202583)
[30] US (63/002,785) 2020-03-31

[21] **3,176,621**
[13] A1
[51] **Int.Cl. C12N 9/02 (2006.01) C07C 39/19 (2006.01) C07D 311/58 (2006.01) C07D 311/80 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **BIOSYNTHESIS OF CANNABINOIDS AND CANNABINOID PRECURSORS**
[54] **BIOSYNTHESE DE CANNABINOIDES ET DE PRECURSEURS DE CANNABINOIDES**
[72] ANDERSON, KIM CECELIA, US
[72] BOUCHER, JEFFREY IAN, US
[72] BREVNOVA, ELENA, US
[72] CARLIN, DYLAN ALEXANDER, US
[72] CARVALHO, BRIAN, US
[72] FLORES, NICHOLAS, US
[72] FORREST, KATRINA, US
[72] RODRIGUEZ, GABRIEL, US
[72] SPENCER, MICHELLE, US
[71] GINKGO BIOWORKS, INC., US
[85] 2022-09-22
[86] 2021-03-26 (PCT/US2021/024398)
[87] (WO2021/195520)
[30] US (63/000,419) 2020-03-26

[21] **3,176,622**
[13] A1
[51] **Int.Cl. C12Q 1/6883 (2018.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR DIAGNOSIS AND TREATMENT OF FEMALE PATTERN HAIR LOSS**
[54] **PROCEDES ET COMPOSITIONS POUR LE DIAGNOSTIC ET LE TRAITEMENT DE LA CHUTE DES CHEVEUX CHEZ LA FEMME**
[72] GOREN, OFER A., US
[72] MCCOY, JOHN, US
[71] FOLLEA INTERNATIONAL, US
[85] 2022-09-22
[86] 2021-04-01 (PCT/US2021/025405)
[87] (WO2021/202890)
[30] US (63/004,159) 2020-04-02
[30] US (16/946,219) 2020-06-10

[21] **3,176,625**
[13] A1
[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/01 (2006.01) A61M 25/06 (2006.01) A61M 25/09 (2006.01)**
[25] EN
[54] **RAPIDLY INSERTABLE CENTRAL CATHETERS INCLUDING CATHETER ASSEMBLIES**
[54] **CATHETERS CENTRAUX A INSERTION RAPIDE INCLUANT DES ENSEMBLES CATHETER**
[72] HOWELL, GLADE H., US
[72] STATS, JASON R., US
[72] TRAN, HUY NGOC, US
[71] BARD ACCESS SYSTEMS, INC., US
[85] 2022-09-22
[86] 2021-04-22 (PCT/US2021/028683)
[87] (WO2021/216902)
[30] US (63/014,555) 2020-04-23

[21] **3,176,635**
[13] A1
[51] **Int.Cl. A61K 31/5513 (2006.01) A61P 21/00 (2006.01) C07D 243/24 (2006.01) C07D 401/06 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/04 (2006.01) C07D 403/06 (2006.01) C07D 403/10 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 405/06 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 409/12 (2006.01) C07D 413/04 (2006.01) C07D 413/12 (2006.01) C07D 413/14 (2006.01) C07D 417/04 (2006.01) C07D 417/12 (2006.01) C07D 471/04 (2006.01) C07D 471/10 (2006.01) C07D 487/04 (2006.01) C07D 498/04 (2006.01)**
[25] EN
[54] **BICYCLIC 1,4-DIAZEPANONES AND THERAPEUTIC USES THEREOF**
[54] **1,4-DIAZEPANONES BICYCLIQUES ET LEURS UTILISATIONS THERAPEUTIQUES**
[72] MORGAN, BRADLEY P., US
[72] EVANS, CHRIS, US
[72] LU, PU-PING, US
[72] YAMASAKI, MAKOTO, US
[72] WANG, WENYUE, US
[72] COLLIBEE, SCOTT, US
[72] MAKINO, TAKUYA, JP
[72] TSUCHIYA, KAZUYUKI, JP
[72] KUROSAKI, TOSHIO, JP
[72] YAMAKI, SUSUMU, JP
[72] HONJO, ERIKO, JP
[72] KOIZUMI, YUKA, JP
[72] KATOH, NAOTO, JP
[72] SEKIOKA, RYUICHI, JP
[72] KURIWAKI, IKUMI, JP
[71] CYTOKINETICS, INC., US
[85] 2022-09-22
[86] 2021-11-05 (PCT/US2021/058260)
[87] (WO2022/099011)
[30] US (63/110,776) 2020-11-06

[21] **3,176,636**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/103 (2006.01) A61B 5/145 (2006.01) A61B 5/20 (2006.01) A61B 10/00 (2006.01)**
[25] EN
[54] **DISPOSABLE INDICATOR COMPONENT FOR MEASURING ANALYTE CONCENTRATION IN BODILY FLUIDS**
[54] **COMPOSANT INDICATEUR JETABLE POUR MESURER LA CONCENTRATION D'UN ANALYTE DANS DES FLUIDES CORPORELS**
[72] BINNER, CURT, US
[72] MELLINGER, JUSTIN, US
[72] PAUNESCU, ALEXANDRU, US
[71] JOHNSON & JOHNSON CONSUMER INC., US
[85] 2022-09-22
[86] 2021-03-22 (PCT/US2021/070294)
[87] (WO2021/195656)
[30] US (62/993,137) 2020-03-23
[30] US (17/205,460) 2021-03-18

[21] **3,176,637**
[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01) C12N 5/0793 (2010.01) A61P 25/00 (2006.01) A61P 25/02 (2006.01) A61P 25/04 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **METHODS OF REDUCING NEUROPATHY AND NEUROPATHIC SYMPTOMS AND TREATING CANCER**
[54] **METHODES DE REDUCTION DE NEUROPATHIE ET DE SYMPTOMES NEUROPATHIQUES, ET DE TRAITEMENT DU CANCER**
[72] TAKIGIKU, RAY, US
[72] WOLFE, DARREN P., US
[72] NOONAN, ANNE MARY, US
[72] WESOLOWSKI, ROBERT, US
[72] CURRY, III, RICHARD CHARLES, US
[72] GAZDA, MICHAEL, US
[72] CRUZE, III, CHARLES A., US
[72] TAPOLSKY, GILLES HUGUES, US
[71] BEXION PHARMACEUTICALS INC., US
[85] 2022-09-22
[86] 2022-01-07 (PCT/US2022/011731)
[87] (WO2022/150666)
[30] US (63/135,579) 2021-01-09
[30] US (63/135,585) 2021-01-09
[30] US (63/159,809) 2021-03-11

[21] **3,176,713**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/54 (2017.01) C07C 275/16 (2006.01)**
[25] EN
[54] **USE OF FGFR INHIBITORS FOR TREATMENT OF IDIOPATHIC SHORT STATURE**
[54] **UTILISATION D'INHIBITEURS DE FGFR POUR LE TRAITEMENT DE SUJETS PRESENTANT UN RETARD DE CROISSANCE IDIOPATHIQUE**
[72] DANIELPOUR, MOISE, US
[72] MAJLESSIPOUR, FATANEH, US
[72] HWA, VIVIAN, US
[71] CEDARS-SINAI MEDICAL CENTER, US
[71] HWA, VIVIAN, US
[85] 2022-06-06
[86] 2020-12-09 (PCT/US2020/063979)
[87] (WO2021/119108)
[30] US (62/945,713) 2019-12-09

[21] **3,176,714**
[13] A1
[51] **Int.Cl. B23P 19/02 (2006.01) B25B 11/02 (2006.01) B25B 27/06 (2006.01)**
[25] EN
[54] **BUSHING INSERTION SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES D'INSERTION DE DOUILLE**
[72] ANDREWS, MICHAEL, CA
[71] TIGER TOOL INTERNATIONAL INCORPORATED, CA
[85] 2022-09-12
[86] 2021-03-11 (PCT/US2021/021963)
[87] (WO2021/183800)
[30] US (62/989,537) 2020-03-13

[21] **3,176,715**
[13] A1
[51] **Int.Cl. A61K 31/167 (2006.01) A61K 31/18 (2006.01) A61K 31/426 (2006.01) A61K 31/431 (2006.01) A61K 31/496 (2006.01) A61K 31/546 (2006.01) A61K 31/573 (2006.01) A61K 31/616 (2006.01) A61K 31/635 (2006.01) A61K 31/7052 (2006.01) A61K 31/706 (2006.01) A61K 31/727 (2006.01) A61K 38/20 (2006.01) A61K 45/06 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **CXCL8 INHIBITORS FOR USE IN THE TREATMENT OF COVID-19**
[54] **INHIBITEURS DE CXCL8 DESTINES A ETRE UTILISES DANS LE TRAITEMENT DE LA COVID-19**
[72] ALLEGRETTI, MARCELLO, IT
[72] MANTELLI, FLAVIO, IT
[72] PIEMONTI, LORENZO, IT
[71] DOMPE' FARMACEUTICI SPA, IT
[85] 2022-09-20
[86] 2021-03-24 (PCT/EP2021/057624)
[87] (WO2021/191305)
[30] EP (20166073.5) 2020-03-26
[30] EP (20211370.0) 2020-12-02

---

[21] **3,176,716**
[13] A1
[51] **Int.Cl. B65G 37/00 (2006.01) B65G 43/08 (2006.01) B65G 47/91 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TRANSFERRING PARCELS FROM A FIRST CONVEYOR TO A SECOND CONVEYOR**
[54] **SYSTEME ET PROCEDE DE TRANSFERT DE COLIS D'UN PREMIER CONVOYEUR A UN DEUXIEME CONVOYEUR**
[72] HILLERICH, JR., THOMAS ANTHONY, US
[72] MCCUE, MICHAEL ALAN, US
[71] MATERIAL HANDLING SYSTEMS, INC., US
[85] 2022-09-20
[86] 2021-03-23 (PCT/US2021/023564)
[87] (WO2021/202149)
[30] US (63/004,675) 2020-04-03

---

[21] **3,176,717**
[13] A1
[51] **Int.Cl. F16B 19/05 (2006.01) F16B 31/02 (2006.01)**
[25] EN
[54] **SWAGED FASTENERS**
[54] **ELEMENTS DE FIXATION EMBOUTIS**
[72] STARBUCK, DANIEL IAN, GB
[71] STAR FASTENERS (UK) LIMITED, GB
[85] 2022-09-21
[86] 2020-04-09 (PCT/EP2020/060298)
[87] (WO2020/208215)
[30] GB (1905043.4) 2019-04-09

---

[21] **3,176,719**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) G16H 50/30 (2018.01) A61B 5/08 (2006.01) A61B 5/085 (2006.01) A61B 5/087 (2006.01) A61B 5/091 (2006.01) A61B 5/1455 (2006.01) A61M 16/00 (2006.01)**
[25] EN
[54] **IMPROVEMENTS RELATING TO RESPIRATORY SUPPORT**
[54] **AMELIORATIONS APPORTEES A UNE ASSISTANCE RESPIRATOIRE**
[72] TATKOV, STANISLAV, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[85] 2022-09-21
[86] 2021-06-16 (PCT/IB2021/055293)
[87] (WO2022/009000)
[30] US (63/049,509) 2020-07-08

---

[21] **3,176,720**
[13] A1
[51] **Int.Cl. B65D 85/804 (2006.01) C08L 1/28 (2006.01) C08L 99/00 (2006.01)**
[25] EN
[54] **COMPOSTABLE MATERIAL FOR PACKAGING FOOD PRODUCTS**
[54] **MATERIAU COMPOSTABLE POUR L'EMBALLAGE DE PRODUITS ALIMENTAIRES**
[72] DI MARCO, MASSIMO, IT
[72] DIMAKOU, JULIE, GB
[72] ARGYLE, IAIN, GB
[71] LUIGI LAVAZZA S.P.A., IT
[85] 2022-09-22
[86] 2021-03-24 (PCT/IB2021/052432)
[87] (WO2021/205269)
[30] IT (102020000007519) 2020-04-08

---

[21] **3,176,721**
[13] A1
[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/20 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR CONVERTIBLE VOLUME AND PRESSURE-CONTROLLED LUNG-PROTECTIVE VENTILATION**
[54] **APPAREIL ET PROCEDE DE VENTILATION DE PROTECTION PULMONAIRE A VOLUME VARIABLE ET REGULATION DE PRESSION**
[72] MAGUIRE, MICHAEL D., US
[71] AIRMID CRITICAL CARE PRODUCTS, INC., US
[85] 2022-09-22
[86] 2021-03-29 (PCT/US2021/024677)
[87] (WO2021/202394)
[30] US (63/001,911) 2020-03-30

---

[21] **3,176,722**
[13] A1
[51] **Int.Cl. E04D 1/06 (2006.01) E04D 1/00 (2006.01) E04D 1/36 (2006.01)**
[25] EN
[54] **METAL ROOFING SHINGLES WITH SIDE LAP AND HEADLAP ALIGNMENT AND SEALING FEATURES**
[54] **BARDEAUX DE TOITURE METALLIQUES AVEC ELEMENTS D'ALIGNEMENT ET D'ETANCHEITE A RECOUVREMENT LATERAL ET A RECOUVREMENT DE TETE**
[72] SVEC, JAMES A., US
[72] ANDERSON, ERIC R., US
[72] BOEHLING, STEVEN V., US
[71] BMIC LLC, US
[85] 2022-09-22
[86] 2021-04-08 (PCT/US2021/026343)
[87] (WO2021/211349)
[30] US (63/009,806) 2020-04-14
[30] US (63/010,458) 2020-04-15
[30] US (63/020,353) 2020-05-05
[30] US (63/105,498) 2020-10-26
[30] US (17/225,243) 2021-04-08

[21] **3,176,723**
[13] A1
[51] **Int.Cl. B01D 61/14 (2006.01) B01D 61/16 (2006.01) B01D 67/00 (2006.01) B01D 69/12 (2006.01) C02F 1/28 (2006.01) C02F 1/52 (2006.01)**
[25] EN
[54] **RARE EARTH TREATMENT OF MEMBRANES TO REMOVE CONTAMINANTS**
[54] **TRAITEMENT AUX TERRES RARES DE MEMBRANES POUR ELIMINER DES CONTAMINANTS**
[72] HANELINE, MASON REAMES, US
[71] NEO WATER TREATMENT, LLC, US
[85] 2022-09-20
[86] 2021-03-23 (PCT/US2021/023768)
[87] (WO2021/195141)
[30] US (62/993,516) 2020-03-23

[21] **3,176,724**
[13] A1
[51] **Int.Cl. A61K 35/19 (2015.01) A61K 47/46 (2006.01) A61L 27/36 (2006.01) A61P 1/02 (2006.01) A61P 17/02 (2006.01) A61P 19/08 (2006.01) A61P 27/02 (2006.01) C12N 5/00 (2006.01)**
[25] FR
[54] **PLATELET LYSATE FOAM FOR CELL CULTURE, CELL THERAPY AND TISSULAR REGENERATION AND METHOD FOR OBTAINING SAME**
[54] **MOUSSE DE LYSAT PLAQUETTAIRE POUR LA CULTURE CELLULAIRE, LA THERAPIE CELLULAIRE ET LA REGENERATION TISSULAIRE ET PROCEDE D'OBTENTION**
[72] CAZALBOU, SOPHIE, FR
[72] CANCEILL, THIBAULT, FR
[71] UNIVERSITE PAUL SABATIER TOULOUSE III, FR
[71] CENTRE HOSPITALIER UNIVERSITAIRE DE TOULOUSE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE-CNRS, FR
[85] 2022-09-23
[86] 2021-03-15 (PCT/FR2021/050427)
[87] (WO2021/191525)
[30] FR (20 02800) 2020-03-23

[21] **3,176,727**
[13] A1
[51] **Int.Cl. A61K 31/496 (2006.01) A61P 31/16 (2006.01) C07D 307/77 (2006.01)**
[25] EN
[54] **ANTIVIRAL 1,3-DI-OXO-INDENE COMPOUNDS**
[54] **COMPOSES ANTIVIRAUX DE 1,3-DI-OXO-INDENE**
[72] NEYTS, JOHAN, BE
[72] POON, DANIEL, US
[72] PFISTER, KEITH BRUCE, US
[72] JUNG, YOUNG-SIK, KR
[72] HAN, SOO BONG, KR
[72] MALPANI, YASHWARDHAN R., KR
[72] CHAKRASALI, PRASHANT, KR
[72] KIM, CHONSAENG, KR
[72] SHIN, JIN SOO, KR
[72] KIM, HAE SOO, KR
[72] LEE, CHONG-KYO, KR
[72] LEE, SANG-HO, KR
[71] NOVARTIS AG, CH
[71] KATHOLIEKE UNIVERSITEIT LEUVEN, BE
[71] KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY, KR
[85] 2022-09-23
[86] 2021-04-20 (PCT/EP2021/060263)
[87] (WO2021/214073)
[30] US (63/012,770) 2020-04-20

[21] **3,176,728**
[13] A1
[51] **Int.Cl. E21F 1/00 (2006.01) F04D 19/00 (2006.01) F04D 29/54 (2006.01) F04D 29/60 (2006.01)**
[25] EN
[54] **JET FAN FOR VENTILATING TUNNELS, JET FAN SYSTEM AND METHOD**
[54] **VENTILATEUR A JET POUR LA VENTILATION DE TUNNELS, SYSTEME DE VENTILATEUR A JET ET PROCEDE**
[72] WITT, KARSTEN, DE
[71] W & S MANAGEMENT GMBH & CO. KG, DE
[85] 2022-09-23
[86] 2021-02-16 (PCT/EP2021/053720)
[87] (WO2021/190820)
[30] DE (10 2020 107 955.9) 2020-03-23

[21] **3,176,734**
[13] A1
[51] **Int.Cl. G01N 33/543 (2006.01) G01N 33/573 (2006.01) G01N 33/577 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **MISFOLDED SOD1 ASSAY**
[54] **DOSAGE DE SOD1 MAL PLIE**
[72] MAIER, MARCEL, CH
[72] SALZMANN, MICHAEL, CH
[72] GRIMM, JAN, CH
[71] AL-S PHARMA AG, CH
[71] NEURIMMUNE AG, CH
[85] 2022-09-16
[86] 2021-03-18 (PCT/EP2021/056933)
[87] (WO2021/185961)
[30] EP (20163909.3) 2020-03-18

[21] **3,176,735**
[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01) A61K 47/68 (2017.01) A61K 38/16 (2006.01) A61K 38/17 (2006.01) A61K 38/18 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **ACTIVIN RECEPTOR TYPE II CHIMERAS AND METHODS OF USE THEREOF**
[54] **CHIMERES DE TYPE II DU RECEPTEUR D'ACTIVINE ET LEURS METHODES D'UTILISATION**
[72] SEEHRA, JASBIR S., US
[72] LACHEY, JENNIFER, US
[72] TSENG, CLAIRE, US
[72] O'NEILL, JASON, US
[72] THOGERSEN, HENNING, DK
[72] FURUTANI, ELISSA, US
[71] KEROS THERAPEUTICS, INC., US
[85] 2022-09-16
[86] 2021-03-19 (PCT/US2021/023353)
[87] (WO2021/189019)
[30] US (62/992,839) 2020-03-20
[30] US (63/029,443) 2020-05-23
[30] US (63/109,821) 2020-11-04

[21] **3,176,743**
[13] A1
[51] **Int.Cl. C07K 16/18 (2006.01) C12N 5/16 (2006.01) C12N 15/13 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **USE OF A.BETA.34 TO ASSESS ALZHEIMER'S DISEASE PROGRESSION**
[54] **UTILISATION DE A.BETA.34 POUR EVALUER LA PROGRESSION DE LA MALADIE D'ALZHEIMER**
[72] MULTHAUP, GERHARD, CA
[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING / MCGILL UNIVERSITY, CA
[85] 2022-09-23
[86] 2020-04-02 (PCT/CA2020/050432)
[87] (WO2020/198866)
[30] US (62/829,284) 2019-04-04

[21] **3,176,746**
[13] A1
[51] **Int.Cl. F41H 13/00 (2006.01) G09B 9/00 (2006.01) A61B 5/00 (2006.01)**
[25] EN
[54] **GARMENT SUPPORTED ELECTRODE**
[54] **ELECTRODE SOUTENUE SUR UN VETEMENT**
[72] QUAIL, JEFFREY JAMES, CA
[72] NESS, MICHAEL, CA
[71] SETCAN CORPORATION, CA
[85] 2022-09-23
[86] 2021-03-05 (PCT/CA2021/050295)
[87] (WO2021/232140)
[30] US (16/880,011) 2020-05-21

[21] **3,176,747**
[13] A1
[51] **Int.Cl. F03G 7/08 (2006.01) B63B 39/00 (2006.01) F03G 3/06 (2006.01)**
[25] EN
[54] **ENERGY CAPTURE FROM OSCILLATING OBJECT**
[54] **CAPTURE D'ENERGIE A PARTIR D'UN OBJET OSCILLANT**
[72] TSAPOVSKI, YAROSLAV, CA
[71] TSAPOVSKI, YAROSLAV, CA
[85] 2022-09-23
[86] 2021-05-26 (PCT/CA2021/050712)
[87] (WO2021/237353)
[30] US (63/030,497) 2020-05-27

[21] **3,176,751**
[13] A1
[51] **Int.Cl. C07K 1/22 (2006.01)**
[25] EN
[54] **REUSE OF INTEIN-BOUND RESINS FOR PROTEIN PURIFICATION**
[54] **REUTILISATION DE RESINES LIEES A L'INTEINE POUR LA PURIFICATION DE PROTEINES**
[72] RAMMO, OLIVER, DE
[72] SKUDAS, ROMAS, DE
[71] MERCK PATENT GMBH, DE
[85] 2022-09-23
[86] 2021-03-23 (PCT/EP2021/057399)
[87] (WO2021/191194)
[30] EP (20165535.4) 2020-03-25

[21] **3,176,752**
[13] A1
[51] **Int.Cl. C01B 32/168 (2017.01) H01B 1/18 (2006.01)**
[25] EN
[54] **CONDUCTIVE ELEMENT**
[54] **ELEMENT CONDUCTEUR**
[72] FRANKS, JOHN EDWARD, GB
[71] QUANTUM CONDUCTORS LTD, GB
[85] 2022-09-23
[86] 2021-03-24 (PCT/GB2021/050712)
[87] (WO2021/191601)
[30] GB (2004267.7) 2020-03-24

[21] **3,176,753**
[13] A1
[51] **Int.Cl. B23B 49/00 (2006.01) B25J 9/16 (2006.01) B25J 11/00 (2006.01) B25J 13/08 (2006.01) B25J 15/00 (2006.01)**
[25] EN
[54] **ROBOT DRILLING CLAMP AND COMPUTER-IMPLEMENTED METHODS FOR OPERATING A ROBOTIC DRILL**
[54] **PINCE DE FORAGE ROBOTISEE ET PROCEDES MIS EN □UVRE PAR ORDINATEUR POUR FAIRE FONCTIONNER UN FORET ROBOTIQUE**
[72] HOLDEN, ROGER, GB
[71] TRUE POSITION ROBOTICS LIMITED, GB
[85] 2022-09-23
[86] 2021-03-25 (PCT/GB2021/050723)
[87] (WO2021/191610)
[30] GB (2004306.3) 2020-03-25

[21] **3,176,754**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **ANTIGEN POOL**
[54] **GROUPE D'ANTIGENES**
[72] KASSIOTIS, GEORGE, GB
[72] YOUNG, GEORGE, GB
[72] ATTIG, JAN, GB
[72] SNIJDERS, AMBROSIUS, GB
[72] PERKINS, DAVID, GB
[72] MARINO, FABIO, GB
[72] JUPP, RAY, GB
[72] VON ESSEN, MAGDALENA, GB
[72] MASON, PETER, GB
[72] TERNETTE, NICOLA, GB
[71] ENARA BIO LIMITED, GB
[71] THE FRANCIS CRICK INSTITUTE LIMITED, GB
[85] 2022-09-23
[86] 2021-04-19 (PCT/GB2021/050940)
[87] (WO2021/209775)
[30] EP (20170255.2) 2020-04-17

[21] **3,176,756**
[13] A1
[51] **Int.Cl. E21B 43/12 (2006.01) E21B 47/11 (2012.01)**
[25] EN
[54] **SELECTIVELY INJECTABLE TRACER FLOWMETER**
[54] **DEBITMETRE UTILISANT UN TRACEUR SELECTIVEMENT INJECTABLE**
[72] SHAW, JOEL DAVID, US
[71] SILVERWELL TECHNOLOGY LIMITED, GB
[85] 2022-09-23
[86] 2021-04-27 (PCT/GB2021/051018)
[87] (WO2021/219993)
[30] US (16/861,167) 2020-04-28

[21] **3,176,757**
[13] A1
[51] **Int.Cl. C08K 5/00 (2006.01) C08K 5/11 (2006.01) C08L 27/06 (2006.01) C08L 29/14 (2006.01)**
[25] EN
[54] **CYCLOHEXANOL-CAPPED COMPOUNDS AND THEIR USE AS PLASTICIZERS**
[54] **COMPOSES A COIFFE CYCLOHEXANOL ET LEUR UTILISATION EN TANT QUE PLASTIFIANTS**
[72] STORZUM, UWE, US
[72] TIMPA, SAMUEL DAVID, US
[72] BREITSCHEIDEL, BORIS, DE
[71] BASF SE, DE
[85] 2022-09-23
[86] 2021-03-15 (PCT/EP2021/056480)
[87] (WO2021/190968)
[30] US (62/994,334) 2020-03-25
[30] EP (20181524.8) 2020-06-23

[21] **3,176,758**
[13] A1
[51] **Int.Cl. G06F 16/51 (2019.01) G06F 16/53 (2019.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR INTRODUCING DATA TO A GRAPH DATABASE**
[54] **PROCEDE ET APPAREIL D'IMPORTATION DE DONNEES DE BASE DE DONNEES DE GRAPHIQUE**
[72] WANG, BO, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-09-23
[86] 2019-09-29 (PCT/CN2019/109096)
[87] (WO2020/206952)
[30] CN (201910282923.3) 2019-04-09

[21] **3,176,760**
[13] A1
[51] **Int.Cl. A23K 10/00 (2016.01) A23K 10/30 (2016.01) A23K 20/163 (2016.01) A23K 20/20 (2016.01) A23K 50/40 (2016.01) A23K 50/42 (2016.01) A23K 50/45 (2016.01) A23K 50/48 (2016.01)**
[25] EN
[54] **PET FOOD COMPOSITIONS**
[54] **COMPOSITIONS ALIMENTAIRES POUR ANIMAUX DE COMPAGNIE**
[72] WERNIMONT, SUSAN, US
[72] GROSS, KATHY, US
[72] JACKSON, MATTHEW, US
[72] STORMER, ANDREW, US
[71] HILL'S PET NUTRITION, INC., US
[85] 2022-09-26
[86] 2021-04-06 (PCT/US2021/070355)
[87] (WO2021/207755)
[30] US (63/005,959) 2020-04-06

[21] **3,176,787**
[13] A1
[51] **Int.Cl. F16H 25/22 (2006.01) F16H 25/20 (2006.01)**
[25] EN
[54] **SHOCK ABSORBING ACTUATOR END STOP**
[54] **BUTEE D'EXTREMITE D'ACTIONNEUR AMORTISSEUR DE CHOCS**
[72] GITNES, SETH E., US
[71] MOOG INC., US
[85] 2022-09-23
[86] 2021-03-24 (PCT/US2021/023814)
[87] (WO2021/195168)
[30] US (62/994,894) 2020-03-26

[21] **3,176,808**
[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) C07D 207/02 (2006.01) C07D 265/28 (2006.01)**
[25] EN
[54] **PYRROLOPYRIMIDINE AMINES AS COMPLEMENT INHIBITORS**
[54] **PYRROLOPYRIMIDINE AMINES EN TANT QU'INHIBITEURS DU COMPLEMENT**
[72] KOTIAN, PRAVIN L., US
[72] BABU, YARLAGADDA S., US
[72] WU, MINWAN, US
[72] DANG, ZHAO, US
[72] NGUYEN, TRUNG XUAN, US
[72] RAMAN, KRISHNAN, US
[71] BIOCRYST PHARMACEUTICALS, INC., US
[85] 2022-09-22
[86] 2021-04-02 (PCT/US2021/025547)
[87] (WO2021/202977)
[30] US (63/004,799) 2020-04-03

[21] **3,176,810**
[13] A1
[51] **Int.Cl. A47K 3/10 (2006.01) A61H 33/00 (2006.01)**
[25] EN
[54] **NANO-BUBBLE GENERATING APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE GENERATION DE NANO-BULLES**
[72] SCHOLTEN, BRUCE, US
[72] RUSSELL, WARREN STUART, US
[72] WHITE, ANDREA, US
[71] MOLEAER, INC, US
[85] 2022-09-23
[86] 2021-03-09 (PCT/US2021/021438)
[87] (WO2021/194736)
[30] US (62/993,871) 2020-03-24

[21] **3,176,814**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01) G06Q 50/02 (2012.01) E21B 44/00 (2006.01) G01V 1/00 (2006.01) G06N 3/00 (2006.01)**
[25] EN
[54] **GROUND ROLL ATTENUATION USING UNSUPERVISED DEEP LEARNING**
[54] **ATTENUATION D'ONDE DE SURFACE A L'AIDE D'UN APPRENTISSAGE PROFOND NON SUPERVISE**
[72] DI, HAIBIN, US
[72] MOLDOVEANU, NICOLAE, US
[72] MANIAR, HIREN, US
[72] ABUBAKAR, ARIA, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2022-09-23
[86] 2021-03-22 (PCT/US2021/023415)
[87] (WO2021/194933)
[30] US (62/993,817) 2020-03-24

[21] **3,176,815**
[13] A1
[51] **Int.Cl. A45F 5/10 (2006.01)**
[25] EN
[54] **CARRY STRAP FOR CONTAINER**
[54] **SANGLE DE TRANSPORT POUR RECIPIENT**
[72] NICHOLS, STEVE CHARLES, US
[72] BONDHUS, ANDY, US
[72] MORRIS, LIZA, US
[72] NIXON, RYAN, US
[72] LOUDENSLAGER, JOHN, US
[72] DOW, JOHN W., US
[72] SULLIVAN, DEREK G., US
[72] BULLOCK, DUSTIN, US
[71] YETI COOLERS, LLC, US
[85] 2022-09-23
[86] 2021-03-23 (PCT/US2021/023632)
[87] (WO2021/195051)
[30] US (16/828,282) 2020-03-24

[21] **3,176,853**
[13] A1
[51] **Int.Cl. F16L 37/127 (2006.01) B64D 39/06 (2006.01) F16L 37/096 (2006.01) F16L 37/098 (2006.01) F16L 37/12 (2006.01) F16L 37/133 (2006.01)**
[25] EN
[54] **MATERIAL TRANSFER INTERFACES FOR SPACE VEHICLES, AND ASSOCIATED SYSTEMS AND METHODS**
[54] **INTERFACES DE TRANSFERT DE MATERIAUX POUR VEHICULES SPATIAUX, AINSI QUE SYSTEMES ET PROCEDES ASSOCIES**
[72] BULTITUDE, JAMES, US
[72] SIGUR, WANDA, US
[72] POLER, SEBASTIAN, US
[72] AILTS, GARRETT, US
[72] LOUIE, AVERY, US
[72] FABER, DANIEL, US
[72] DEUITCH, ALEXANDER, US
[72] PUTMAN, PHIL, US
[72] KNAUER, LARRY, US
[71] ORBIT FAB, INC., US
[71] PUTMAN, PHIL, US
[71] KNAUER, LARRY, US
[85] 2022-09-23
[86] 2021-03-24 (PCT/US2021/023974)
[87] (WO2021/195274)
[30] US (62/994,668) 2020-03-25

[21] **3,176,854**
[13] A1
[51] **Int.Cl. A61K 31/427 (2006.01) A61K 31/437 (2006.01) A61K 31/5025 (2006.01) A61K 31/513 (2006.01) A61K 31/57 (2006.01) A61K 31/706 (2006.01) A61K 45/06 (2006.01) A61P 11/00 (2006.01)**
[25] EN
[54] **USE OF AGENTS FOR TREATMENT OF RESPIRATORY CONDITIONS**
[54] **UTILISATION D'AGENTS POUR LE TRAITEMENT D'AFFECTIONS RESPIRATOIRES**
[72] KANES, STEPHEN JAY, US
[71] SAGE THERAPEUTICS, INC., US
[85] 2022-09-23
[86] 2021-03-24 (PCT/US2021/024010)
[87] (WO2021/195297)
[30] US (62/994,803) 2020-03-25
[30] US (62/994,805) 2020-03-25
[30] US (63/000,418) 2020-03-26
[30] US (63/000,415) 2020-03-26
[30] US (63/006,672) 2020-04-07
[30] US (63/006,671) 2020-04-07
[30] US (63/063,803) 2020-08-10
[30] US (63/063,780) 2020-08-10

[21] **3,176,855**
[13] A1
[51] **Int.Cl. H05B 3/00 (2006.01)**
[25] EN
[54] **HEATING UNITS FOR HEATING ENCLOSURES AND METHODS OF HEATING ENCLOSURES**
[54] **UNITES DE CHAUFFAGE POUR CHAUFFER DES ENCEINTES ET PROCEDES DE CHAUFFAGE D'ENCEINTES**
[72] GARDNER, ERIC JAMES, US
[72] BROWN, CHRISTOPHER TODD, US
[72] EVANS, GARY ARTHUR, US
[71] UNIVERSAL ANALYZERS, INC., US
[85] 2022-09-23
[86] 2021-03-24 (PCT/US2021/024019)
[87] (WO2021/195304)
[30] US (62/994,666) 2020-03-25

[21] **3,176,856**
[13] A1
[51] **Int.Cl. H02S 20/10 (2014.01) H01L 31/0475 (2014.01) H02S 30/00 (2014.01) H02S 30/10 (2014.01) E02D 17/20 (2006.01) H02J 3/38 (2006.01)**
[25] EN
[54] **HIGHLY DENSE ARRAY OF PHOTOVOLTAIC MODULES**
[54] **RESEAU HAUTEMENT DENSE DE MODULES PHOTOVOLTAIQUES**
[72] AYERS, MICHAEL R., US
[72] EHMAN, S. KYLE, US
[71] WATERSHED SOLAR, LLC, US
[85] 2022-09-23
[86] 2021-03-25 (PCT/US2021/024051)
[87] (WO2021/195313)
[30] US (16/830,208) 2020-03-25

[21] **3,176,857**
[13] A1
[51] **Int.Cl. G16H 50/30 (2018.01) G16H 50/70 (2018.01)**
[25] EN
[54] **APPARATUS FOR HEALTH MONITORING**
[54] **APPAREIL POUR SURVEILLER LA SANTE**
[72] NARAYANAN, RAJEEV, US
[72] PATEL, TUSHAR D., US
[72] SCOTT, ALEXANDER, US
[72] KOSAKA, MITSUO, US
[72] LEVIN, DAVID, US
[71] EISAI R&D MANAGEMENT CO., LTD., JP
[85] 2022-09-23
[86] 2021-03-25 (PCT/US2021/024057)
[87] (WO2021/195316)
[30] US (63/000,083) 2020-03-26
[30] US (63/007,626) 2020-04-09

[21] **3,176,858**
[13] A1
[51] **Int.Cl. H04W 12/02 (2009.01)**
[25] EN
[54] **DATA PROCESSING METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME DE TRAITEMENT DE DONNEES**
[72] YU, GUOYONG, CN
[72] SUN, QIAN, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-09-23
[86] 2019-09-29 (PCT/CN2019/109098)
[87] (WO2020/206953)
[30] CN (201910281710.9) 2019-04-09

[21] **3,176,859**
[13] A1
[51] **Int.Cl. C08L 33/26 (2006.01) C12Q 1/6813 (2018.01) C12Q 1/6874 (2018.01)**
[25] EN
[54] **VIRAL DETECTION USING TEMPLATE EMULSIFICATION**
[54] **DETECTION VIRALE A L'AIDE D'UNE EMULSIFICATION DE MATRICE**
[72] KIANI, SEPEHR, US
[71] FLUENT BIOSCIENCES INC., US
[85] 2022-09-23
[86] 2021-03-24 (PCT/US2021/023815)
[87] (WO2021/195169)
[30] US (62/993,954) 2020-03-24

[21] **3,176,860**
[13] A1
[51] **Int.Cl. C08F 210/16 (2006.01) C08J 5/18 (2006.01)**
[25] EN
[54] **DUAL CATALYST SYSTEM FOR PRODUCING LLDPE AND MDPE COPOLYMERS WITH LONG CHAIN BRANCHING FOR FILM APPLICATIONS**
[54] **SYSTEME A DOUBLE CATALYSEUR POUR LA PRODUCTION DE COPOLYMERES LLDPE ET MDPE AYANT UNE RAMIFICATION A LONGUE CHAINE POUR DES APPLICATIONS DE FILM**
[72] DING, ERRUN, US
[72] TSO, CHUNG CHING, US
[72] SUKHADIA, ASHISH M., US
[72] MCDANIEL, MAX P., US
[72] YU, YOULU, US
[72] MUNINGER, RANDALL S., US
[72] OSBORN, AARON M., US
[72] WITTNER, CHRISTOPHER E., US
[71] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US
[85] 2022-09-23
[86] 2021-03-24 (PCT/US2021/023859)
[87] (WO2021/202190)
[30] US (16/837,009) 2020-04-01

[21] **3,176,862**
[13] A1
[51] **Int.Cl. F16L 5/10 (2006.01) A62C 2/06 (2006.01) E04B 1/94 (2006.01) F16L 5/04 (2006.01)**
[25] EN
[54] **FIRE STOP ASSEMBLY FOR CONCRETE STRUCTURES**
[54] **ENSEMBLE COUPE-FEU POUR STRUCTURES EN BETON**
[72] CHASE, JACOB, US
[72] O'NEIL, VIRGIL, US
[72] COSLEY, JAMES, US
[71] RELIANCE WORLDWIDE CORPORATION, US
[85] 2022-09-23
[86] 2021-03-25 (PCT/US2021/024150)
[87] (WO2021/195378)
[30] US (63/000,024) 2020-03-26

[21] **3,176,864**
[13] A1
[25] EN
[54] **GENERAL-PURPOSE PROCESSING METHOD AND APPARATUS FOR DATA EXCHANGE**
[54] **PROCEDE ET APPAREIL DE TRAITEMENT UNIVERSEL DESTINES A L'INTERACTION DE DONNEES**
[72] HUANG, WENHAO, CN
[72] WU, TINGTING, CN
[72] WU, HUIYANG, CN
[72] ZHANG, ZHIYONG, CN
[72] YANG, CHENGYING, CN
[72] SUN, QIAN, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-09-23
[86] 2019-09-29 (PCT/CN2019/109110)
[87] (WO2020/206955)
[30] CN (201910280061.0) 2019-04-09

[21] **3,176,866**
[13] A1
[51] **Int.Cl. G06F 9/445 (2018.01)**
[25] EN
[54] **WEBPAGE LOADING METHOD, APPARATUS, AND SMART DEVICE**
[54] **PROCEDE ET APPAREIL DE CHARGEMENT DE PAGES WEB, ET DISPOSITIF INTELLIGENT**
[72] WANG, GUIBIN, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-09-23
[86] 2019-09-29 (PCT/CN2019/109120)
[87] (WO2020/199544)
[30] CN (201910258588.3) 2019-04-01

[21] **3,176,867**
[13] A1
[51] **Int.Cl. A61K 31/115 (2006.01) A61K 9/08 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **DRUG FOR TREATING CORONAVIRAL AND RETROVIRAL INFECTIONS AND HEPATITIS C**
[54] **AGENT POUR TRAITER DES INFECTIONS PAR CORONAVIRUS, RETROVIRUS ET L'HEPATITE C**
[72] LASKAVYI, VLADISLAV NIKOLAEVICH, RU
[72] SHURDOV, MIKHAIL ARKADEVICH, RU
[71] LASKAVYI, VLADISLAV NIKOLAEVICH, RU
[85] 2022-09-23
[86] 2020-11-19 (PCT/RU2020/050334)
[87] (WO2021/194375)
[30] RU (2020112322) 2020-03-26

[21] **3,176,868**
[13] A1
[51] **Int.Cl. G06F 16/33 (2019.01)**
[25] EN
[54] **INTENT IDENTIFYING METHOD AND DEVICE FOR APPLICATION TO INTELLIGENT CUSTOMER SERVICE ROBOT**
[54] **PROCEDE ET DISPOSITIF DE RECONNAISSANCE D'INTENTION POUR ROBOT INTELLIGENT DE SERVICE CLIENTS**
[72] TANG, YIPING, CN
[72] GONG, XUEFEI, CN
[72] ZHOU, BIN, CN
[72] DU, BAISHENG, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-09-23
[86] 2019-09-29 (PCT/CN2019/109122)
[87] (WO2020/206957)
[30] CN (201910281032.6) 2019-04-09

[21] **3,176,869**
[13] A1
[51] **Int.Cl. A61M 5/307 (2006.01)**
[25] EN
[54] **INJECTION DEVICE AND COMPONENTS THEREOF**
[54] **DISPOSITIF D'INJECTION ET COMPOSANTS CORRESPONDANTS**
[72] ZOLOTUKHIN, MIKHAIL, US
[71] PULSE NEEDLEFREE SYSTEMS, INC., US
[85] 2022-09-26
[86] 2020-05-22 (PCT/US2020/034118)
[87] (WO2021/236092)

[21] **3,176,871**
[13] A1
[51] **Int.Cl. B25B 23/142 (2006.01)**
[25] EN
[54] **TORQUE WRENCH WITH STRAIN GAUGES**
[54] **CLE DYNAMOMETRIQUE COMPRENANT DES JAUGES DE CONTRAINTE**
[72] SHI, MINGLIN, CN
[72] LUO, HENGLIAN, CN
[72] YANG, CHENG, CN
[71] APEX BRANDS, INC., US
[85] 2022-09-23
[86] 2020-03-25 (PCT/CN2020/081207)
[87] (WO2021/189326)

[21] **3,176,874**
[13] A1
[51] **Int.Cl. A21D 8/02 (2006.01) A21D 10/02 (2006.01) B65D 77/04 (2006.01) B65D 77/08 (2006.01)**
[25] EN
[54] **PACKAGED FOOD PRODUCT AND METHOD OF PACKAGING**
[54] **PRODUIT ALIMENTAIRE EMBALLE ET PROCEDE D'EMBALLAGE**
[72] NAGY, JASON, US
[72] ZARNOCH, RICHARD, US
[71] GENERAL MILLS, INC., US
[85] 2022-09-23
[86] 2021-02-11 (PCT/US2021/017546)
[87] (WO2021/211196)
[30] US (16/848,163) 2020-04-14

[21] **3,176,875**
[13] A1
[51] **Int.Cl. H04W 56/00 (2009.01) H04W 74/00 (2009.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR PROPAGATION DELAY COMPENSATION IN WIRELESS COMMUNICATION NETWORKS**
[54] **PROCEDES ET SYSTEMES DE COMPENSATION DE TEMPS DE PROPAGATION DANS DES RESEAUX DE COMMUNICATION SANS FIL**
[72] TAN, JIE, CN
[72] SHA, XIUBIN, CN
[72] DAI, BO, CN
[72] LU, TING, CN
[71] ZTE CORPORATION, CN
[85] 2022-09-23
[86] 2020-08-06 (PCT/CN2020/107374)
[87] (WO2022/027424)

[21] **3,176,876**
[13] A1
[51] **Int.Cl. C07H 19/04 (2006.01) C07D 405/06 (2006.01) C07H 19/06 (2006.01) C07H 19/067 (2006.01) C07H 19/16 (2006.01) C07H 19/167 (2006.01)**
[25] EN
[54] **METHODS AND REAGENTS FOR SYNTHESIZING NUCLEOSIDES AND ANALOGUES THEREOF**
[54] **PROCEDES ET REACTIFS POUR SYNTHETISER DES NUCLEOSIDES ET DES ANALOGUES DE CEUX-CI**
[72] BRITTON, ROBERT A., CA
[72] BHARANISHASHANK, ADLURI, CA
[72] MEANWELL, MICHAEL, CA
[72] SILVERMAN, STEVEN, US
[71] SIMON FRASER UNIVERSITY, CA
[71] MERCK, SHARP & DOHME CORP., US
[85] 2022-09-23
[86] 2021-03-25 (PCT/IB2021/052464)
[87] (WO2021/191830)
[30] US (62/994,349) 2020-03-25

[21] **3,176,877**
[13] A1
[51] **Int.Cl. A61M 15/00 (2006.01)**
[25] EN
[54] **MULTI-CARRIER MEDICAMENT DISPENSERS**
[54] **DISTRIBUTEURS DE MEDICAMENTS A PLUSIEURS SUPPORTS**
[72] SHAIKH, IMRAN, US
[72] DALVI, MUKUL, US
[72] ZENG, XIAN MING, US
[72] ALBERG, CAMERON, US
[72] MATUSAITIS, TOMAS, US
[71] LUPIN INC., US
[85] 2022-09-23
[86] 2021-03-25 (PCT/US2021/024113)
[87] (WO2021/195353)
[30] US (62/994,307) 2020-03-25

[21] **3,176,878**
[13] A1
[51] **Int.Cl. A24F 47/00 (2020.01) A24F 40/40 (2020.01) A24F 40/465 (2020.01) A24F 40/51 (2020.01) A24F 40/70 (2020.01) A61M 11/04 (2006.01) A61M 15/06 (2006.01) G02F 1/39 (2006.01) H01S 3/10 (2006.01)**
[25] EN
[54] **HEAT-NOT-BURN DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE DE CHAUFFAGE SANS COMBUSTION**
[72] CHONG, ALEXANDER CHINHAK, US
[72] BARTKOWSKI, WILLIAM, US
[72] CROSBY, DAVID, US
[72] WAYNE, DAVID, US
[72] SHUDALL, GERARD, US
[71] CQENS TECHNOLOGIES, INC., US
[85] 2022-09-26
[86] 2020-07-02 (PCT/US2020/040779)
[87] (WO2021/194541)
[30] US (63/000,456) 2020-03-26

[21] **3,176,880**
[13] A1
[51] **Int.Cl. C12N 15/86 (2006.01) A61K 9/72 (2006.01) A61K 39/215 (2006.01) A61K 39/385 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61P 37/04 (2006.01) C07K 14/005 (2006.01) C07K 14/165 (2006.01) C12N 5/10 (2006.01) C12N 7/01 (2006.01) C12N 7/02 (2006.01) C12N 9/22 (2006.01) C12N 15/09 (2006.01) C12N 15/11 (2006.01) C12N 15/33 (2006.01) C12N 15/50 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **VECTORS FOR PRODUCING VIRUS-LIKE PARTICLES AND USES THEREOF**
[54] **VECTEURS POUR LA PRODUCTION DE PARTICULES DE TYPE VIRUS ET LEURS UTILISATIONS**
[72] SLAVCEV, RODERICK, CA
[72] NAFISSI, NAFISEH, CA
[71] MEDIPHAGE BIOCEUTICALS, INC., CA
[85] 2022-09-23
[86] 2021-03-31 (PCT/IB2021/052710)
[87] (WO2021/198963)
[30] US (63/003,281) 2020-03-31
[30] US (63/124,397) 2020-12-11

[21] **3,176,881**
[13] A1
[51] **Int.Cl. A61K 35/74 (2015.01) A61K 35/76 (2015.01) A61K 39/12 (2006.01)**
[25] EN
[54] **TREATMENT OF RESPIRATORY DISORDERS**
[54] **TRAITEMENT DE TROUBLES RESPIRATOIRES**
[72] FENAUX, MARTIJN, US
[72] JONES, CHRISTOPHER T., US
[72] QUIRK, ERIN K., US
[71] TERNS, INC., US
[85] 2022-09-23
[86] 2021-03-25 (PCT/US2021/024239)
[87] (WO2021/195435)
[30] US (62/994,617) 2020-03-25

[21] **3,176,882**
[13] A1
[25] EN
[54] **SYSTEM AND METHOD FOR INFERRING DEVICE MODEL BASED ON MEDIA ACCESS CONTROL ADDRESS**
[54] **SYSTEME ET PROCEDE D'INFERENCE D'UN MODELE DE DISPOSITIF EN FONCTION D'UNE ADRESSE DE COMMANDE D'ACCES AU SUPPORT**
[72] SHOHAM, RON, IL
[72] HANETZ, TOM, IL
[72] FRIEDLANDER, YUVAL, IL
[72] BEN ZVI, GIL, IL
[71] ARMIS SECURITY LTD., IL
[85] 2022-09-23
[86] 2021-04-30 (PCT/IB2021/053648)
[87] (WO2021/224744)
[30] US (16/868,914) 2020-05-07

[21] **3,176,884**
[13] A1
[51] **Int.Cl. C12N 15/11 (2006.01) C12N 5/079 (2010.01) A61P 25/28 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR RESTORING STMN2 LEVELS**
[54] **METHODES ET COMPOSITIONS POUR RESTAURER LES TAUX DE STMN2**
[72] EGGAN, KEVIN C., US
[72] KLIM, JOSEPH ROBERT, US
[72] BROWN, ROBERT H., JR., US
[72] WATTS, JONATHAN K., US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[71] UNIVERSITY OF MASSACHUSETTS, US
[85] 2022-09-23
[86] 2021-03-25 (PCT/US2021/024254)
[87] (WO2021/195446)
[30] US (62/994,797) 2020-03-25
[30] US (63/063,174) 2020-08-07
[30] US (63/133,749) 2021-01-04

[21] **3,176,885**
[13] A1
[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/04 (2006.01)**
[25] EN
[54] **METHOD OF TREATMENT OF DRUG RESISTANT HYPERTENSION**
[54] **PROCEDE DE TRAITEMENT DE L'HYPERTENSION RESISTANTE AUX MEDICAMENTS**
[72] BURNAM, MICHAEL, US
[72] GANG, ELI, US
[71] BAROPACE, INC., US
[85] 2022-09-26
[86] 2020-08-03 (PCT/US2020/044784)
[87] (WO2021/194543)
[30] US (PCT/US2020/25477) 2020-03-27
[30] US (63/101,544) 2020-05-05

[21] **3,176,886**
[13] A1
[51] **Int.Cl. C07K 14/415 (2006.01) C12N 9/22 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **METHODS FOR IMPROVING RESISTANCE TO SOYBEAN RUST**
[54] **PROCEDES D'AMELIORATION DE LA RESISTANCE A LA ROUILLE DU SOJA**
[72] MILLER, MARISA, US
[71] PAIRWISE PLANTS SERVICES, INC., US
[85] 2022-09-23
[86] 2021-03-26 (PCT/US2021/024281)
[87] (WO2021/195456)
[30] US (63/000,608) 2020-03-27

[21] **3,176,888**
[13] A1
[51] **Int.Cl. C07K 14/415 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **METHODS FOR CONTROLLING MERISTEM SIZE FOR CROP IMPROVEMENT**
[54] **PROCEDES PERMETTANT DE CONTROLER LA TAILLE DE MERISTEME POUR AMELIORER LES CULTURES**
[72] KARLSON, DALE, US
[72] O'CONNOR, DEVIN, US
[72] GRAHAM, NATHANIEL, US
[71] PAIRWISE PLANTS SERVICES, INC., US
[85] 2022-09-23
[86] 2021-03-26 (PCT/US2021/024283)
[87] (WO2021/195458)
[30] US (63/000,206) 2020-03-26

[21] **3,176,889**
[13] A1
[51] **Int.Cl. G01N 33/53 (2006.01) G01N 33/533 (2006.01) G01N 33/569 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR DETECTION OF VIRUSES BY XRF**
[54] **DISPOSITIF ET PROCEDE DE DETECTION DE VIRUS PAR XRF**
[72] BAREKET, YIFAT, IL
[72] NAHUM, TEHILA, IL
[72] FIRSTENBERG, MICHAL, IL
[72] TAL, NATALY, IL
[72] KAPINSKY, MOR, IL
[72] SADE, HAGIT, IL
[72] GASPAR, DANA, IL
[72] ALON, HAGGAI, IL
[72] DAFNI, RON, IL
[72] NACHMIAS, CHEN, IL
[72] SHMUELI, GAL, IL
[72] TRACHTMAN, AVITAL, IL
[72] MUSNIKOW, YONATAN, IL
[72] CHUCHAEV, MARIA, IL
[72] YORAN, NADAV, IL
[71] SECURITY MATTERS LTD., IL
[85] 2022-09-23
[86] 2021-03-24 (PCT/IL2021/050325)
[87] (WO2021/191899)
[30] US (63/000,277) 2020-03-26

[21] **3,176,891**
[13] A1
[51] **Int.Cl. A61M 5/14 (2006.01) A61M 25/02 (2006.01) A61M 25/09 (2006.01)**
[25] EN
[54] **GUIDEWIRE AND CATHETER MANAGEMENT DEVICE**
[54] **FIL-GUIDE ET DISPOSITIF DE GESTION DE CATHETER**
[72] BULLER, CHRISTOPHER E., US
[72] BRENIZER, JOSHUA, US
[71] TELEFLEX LIFE SCIENCES LIMITED, MT
[85] 2022-09-26
[86] 2021-01-21 (PCT/US2021/014392)
[87] (WO2021/201955)
[30] US (63/003,404) 2020-04-01

[21] **3,176,892**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2012.01)**
[25] EN
[54] **FLEXIBLE IDENTITY AND ACCESS MANAGEMENT PIPELINE**
[54] **IDENTITE FLEXIBLE ET PIPELINE DE GESTION D'ACCES**
[72] DAWSON, WILLIAM J. V., US
[72] ABBOTT, THOMAS, US
[72] THOMPSON, TREVOR, US
[72] TODD, JONATHAN R., US
[72] MCGUINNESS, KARL, US
[71] OKTA, INC., US
[85] 2022-09-23
[86] 2021-03-31 (PCT/US2021/025251)
[87] (WO2021/202795)
[30] US (63/003,866) 2020-04-01

[21] **3,176,895**
[13] A1
[51] **Int.Cl. B65D 23/00 (2006.01) B65D 23/14 (2006.01) B65D 25/20 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TRACKING REFILLABLE PACKAGES FILLED AT A BOTTLING FACILITY**
[54] **SYSTEMES ET PROCEDES DE SUIVI D'EMBALLAGES RECHARGEABLES REMPLIS AU NIVEAU D'UNE BOUTEILLERIE**
[72] BAKER, MATTHEW WILLIAM, US
[72] PARK, KUIL, US
[72] SCHWARBER, JOSHUA CASEY, US
[71] THE COCA-COLA COMPANY, US
[85] 2022-09-23
[86] 2021-04-07 (PCT/US2021/026127)
[87] (WO2021/207323)
[30] US (63/007,083) 2020-04-08

[21] **3,176,896**
[13] A1
[51] **Int.Cl. A61F 2/90 (2013.01)**
[25] EN
[54] **BIO-ALLOY BRAIDED SELF-EXPANDING BIODEGRADABLE STENT**
[54] **STENT BIODEGRADABLE AUTO-EXPANSIBLE TRESSE EN BIO-ALLIAGE**
[72] PAQUIN, MARK, US
[72] BROECKER, DAVID, US
[71] ZORION MEDICAL, INC., US
[85] 2022-09-23
[86] 2021-04-07 (PCT/US2021/026192)
[87] (WO2021/207366)
[30] US (63/006,565) 2020-04-07

[21] **3,176,899**
[13] A1
[51] **Int.Cl. C12N 15/82 (2006.01) G01N 21/359 (2014.01) C12Q 1/6827 (2018.01) G16B 20/20 (2019.01) A01H 1/06 (2006.01)**
[25] EN
[54] **METHODS FOR GENERATING PLANTS PRODUCING SEEDS HAVING ALTERED SEED COMPOSITION**
[54] **PROCEDES D'OBTENTION DE PLANTES PRODUISANT DES GRAINES DOTEES DE COMPOSITION DE GRAINE MODIFIEE**
[72] BETTIS, JANEL M., US
[72] EVERARD, JOHN D., US
[72] HAUG COLLET, KRISTIN, US
[72] SHEN, BO, US
[72] SRIRAM, SHREEDHARAN, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[85] 2022-09-23
[86] 2021-04-22 (PCT/US2021/028550)
[87] (WO2021/216811)
[30] US (63/014,320) 2020-04-23

[21] **3,176,900**
[13] A1
[51] **Int.Cl. G01N 35/00 (2006.01) G01N 35/02 (2006.01)**
[25] EN
[54] **GRIPPER APPARATUS WITH REDUCED CONTAMINATION RISK**
[54] **APPAREIL DE PREHENSION A RISQUE DE CONTAMINATION REDUIT**
[72] SILBERT, ROLF, US
[72] COMBS, DAVID H., US
[71] GEN-PROBE INCORPORATED, US
[85] 2022-09-23
[86] 2021-04-22 (PCT/US2021/028721)
[87] (WO2021/216931)
[30] US (63/014,624) 2020-04-23

[21] **3,176,901**
[13] A1
[51] **Int.Cl. G01N 35/00 (2006.01) G01N 35/02 (2006.01) G01N 35/04 (2006.01)**
[25] EN
[54] **AUTOMATED PROCESSING OF SAMPLES CARRIED IN SAMPLE CONTAINERS AND GROUPING SAMPLE CONTAINERS ACCORDING TO ASSAYS TO BE PERFORMED ON SAMPLES CONTAINED THEREIN**
[54] **TRAITEMENT AUTOMATISE D'ECHANTILLONS TRANSPORTES DANS DES RECIPIENTS A ECHANTILLON ET REGROUPEMENT DE RECIPIENTS A ECHANTILLON EN FONCTION DE TESTS A EFFECTUER SUR DES ECHANTILLONS CONTENUS DANS CES DERNIERS**
[72] SILBERT, ROLF, US
[71] GEN-PROBE INCORPORATED, US
[85] 2022-09-23
[86] 2021-04-22 (PCT/US2021/028722)
[87] (WO2021/216932)
[30] US (63/014,624) 2020-04-23
[30] US (63/015,129) 2020-04-24
[30] US (63/143,705) 2021-01-29

[21] **3,176,902**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING AND PREVENTING CORONAVIRUSES**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT ET DE PREVENTION DES CORONAVIRUS**
[72] SALLBERG, MATTI, SE
[72] FRELIN, LARS, SE
[71] SVENSKA VACCINFABRIKEN PRODUKTION AB, SE
[85] 2022-09-26
[86] 2021-03-24 (PCT/US2021/023991)
[87] (WO2021/195286)
[30] US (63/000,978) 2020-03-27
[30] US (63/088,228) 2020-10-06
[30] US (63/141,875) 2021-01-26
[30] US (63/156,660) 2021-03-04

[21] **3,176,903**
[13] A1
[51] **Int.Cl. G02B 3/02 (2006.01) G02B 3/10 (2006.01) G02C 7/02 (2006.01) G02C 7/08 (2006.01)**
[25] EN
[54] **OPHTHALMIC LENSES, METHODS OF MANUFACTURING THE OPHTHALMIC LENSES, AND METHODS OF DISPENSING EYE CARE PRODUCTS INCLUDING THE SAME**
[54] **LENTILLES OPHTALMIQUES, PROCEDES DE FABRICATION DES LENTILLES OPHTALMIQUES ET PROCEDES DE DISTRIBUTION DE PRODUITS DE SOINS OCULAIRES LES COMPRENANT**
[72] CHALBERG, JR., THOMAS W., US
[72] HONES, PETER, US
[72] SMITH, AXEL LEROY, US
[71] SIGHTGLASS VISION, INC., US
[85] 2022-09-23
[86] 2021-05-18 (PCT/US2021/033026)
[87] (WO2021/236687)
[30] US (63/027,229) 2020-05-19
[30] US (63/062,687) 2020-08-07

[21] **3,176,906**
[13] A1
[51] **Int.Cl. C08F 2/44 (2006.01) A24F 40/42 (2020.01)**
[25] EN
[54] **THE USE OF MOLECULARLY IMPRINTED POLYMERS FOR THE RAPID DETECTION OF EMERGING VIRAL OUTBREAKS**
[54] **UTILISATION DE POLYMERES A EMPREINTE MOLECULAIRE POUR LA DETECTION RAPIDE D'EPIDEMIES VIRALES EMERGENTES**
[72] GLUCKMAN, JONATHAN P., US
[72] MCGILL, SHERMAN G., US
[72] KALIVRETENOS, ARISTOTLE G., US
[72] KUMAR, GUNEET, US
[72] REICHEL, LOUIS W., US
[72] MAULL, BRANDI, US
[72] KRAFT, GARRETT, US
[72] KIM, DAE JUNG, US
[71] 6TH WAVE INNOVATIONS CORP, US
[85] 2022-09-26
[86] 2021-03-29 (PCT/US2021/024670)
[87] (WO2021/195626)
[30] US (63/000,977) 2020-03-27
[30] US (63/010,244) 2020-04-15
[30] US (63/068,007) 2020-08-20

[21] **3,176,909**
[13] A1
[51] **Int.Cl. A61K 31/122 (2006.01) A61P 9/00 (2006.01) A61P 27/02 (2006.01) C07C 39/08 (2006.01) C07C 43/23 (2006.01) C07C 50/06 (2006.01) C07C 50/24 (2006.01) C07D 317/46 (2006.01) C07D 319/18 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE PREVENTION AND/OR TREATMENT OF MITOCHONDRIAL DISEASE, INCLUDING FRIEDREICH'S ATAXIA**
[54] **COMPOSITIONS ET METHODES POUR LA PREVENTION ET/OU LE TRAITEMENT D'UNE MALADIE MITOCHONDRIALE, NOTAMMENT L'ATAXIE DE FRIEDREICH**
[72] KEEFE, DENNIS, US
[72] ZHENG, GUOZHU, US
[71] STEALTH BIOTHERAPEUTICS INC., US
[85] 2022-09-26
[86] 2021-04-02 (PCT/US2021/025558)
[87] (WO2021/202986)
[30] US (63/004,639) 2020-04-03

[21] **3,176,911**
[13] A1
[51] **Int.Cl. G06F 8/60 (2018.01) G06F 9/455 (2018.01) G06F 9/50 (2006.01)**
[25] EN
[54] **RESOURCE MANAGEMENT DEVICE, RESOURCE MANAGEMENT METHOD, AND RESOURCE MANAGEMENT PROGRAM**
[54] **DISPOSITIF DE GESTION DE RESSOURCES, PROCEDE DE GESTION DE RESSOURCES ET PROGRAMME DE GESTION DE RESSOURCES**
[72] AOKI, DAISUKE, JP
[72] HASEBE, KATSUYUKI, JP
[72] KANZAKI, MAKOTO, JP
[72] KUSAKABE, YUSUKE, JP
[71] NIPPON TELEGRAPH AND TELEPHONE CORPORATION, JP
[85] 2022-09-23
[86] 2020-03-27 (PCT/JP2020/014210)
[87] (WO2021/192268)

[21] **3,176,912**
[13] A1
[51] **Int.Cl. A61K 31/4545 (2006.01) A61P 35/00 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 407/14 (2006.01) C07D 409/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 471/10 (2006.01) C07D 493/10 (2006.01) C07D 495/04 (2006.01) C07D 498/10 (2006.01)**
[25] EN
[54] **PIPERIDIN-1 -YL-N-PYRYDI NE-3-YL-2-OXOACET AM IDE DERIVATIVES USEFUL FOR THE TREATMENT OF MTAP-DEFICIENT AND/OR MT A-ACCUMULATING CANCERS**
[54] **DERIVES DE PIPERIDIN-1-YL-N-PYRYDINE-3-YL-2-OXO-ACETAMIDE UTILES POUR LE TRAITEMENT DE CANCERS DEFICIENTS EN MTAP ET/OU ACCUMULANT MTA**
[72] COTTRELL, KEVIN M., US
[72] MAXWELL, JOHN P., US
[71] TANGO THERAPEUTICS, INC., US
[85] 2022-09-23
[86] 2021-07-30 (PCT/US2021/044004)
[87] (WO2022/026892)
[30] US (63/059,959) 2020-07-31

[21] **3,176,915**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01) C12Q 1/6827 (2018.01) C12Q 1/6869 (2018.01) C12Q 1/6874 (2018.01) C40B 20/04 (2006.01)**
[25] EN
[54] **FLOATING BARCODES**
[54] **CODES A BARRES FLOTTANTS**
[72] THOMPSON, JOHN F., US
[71] PERSONAL GENOME DIAGNOSTICS INC., US
[85] 2022-09-26
[86] 2021-04-06 (PCT/US2021/026043)
[87] (WO2021/207267)
[30] US (63/006,556) 2020-04-07

[21] **3,176,918**
[13] A1
[51] **Int.Cl. A61L 26/00 (2006.01)**
[25] EN
[54] **HEMOSTATIC COMPOSITIONS AND RELATED METHODS**
[54] **COMPOSITIONS HEMOSTATIQUES ET PROCEDES ASSOCIES**
[72] LYDECKER, LAUREN, US
[72] RAJGURU, POORVA, US
[72] WULFMAN, DAVID, US
[72] RAUSA, JOSEPH, US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2022-09-26
[86] 2021-04-16 (PCT/US2021/027753)
[87] (WO2021/212017)
[30] US (63/011,492) 2020-04-17

[21] **3,176,919**
[13] A1
[51] **Int.Cl. F28F 3/04 (2006.01)**
[25] EN
[54] **HEAT TRANSFER PLATE AND HEAT EXCHANGE ELEMENT**
[54] **PLAQUE DE TRANSFERT DE CHALEUR ET ELEMENT D'ECHANGE DE CHALEUR**
[72] SOTOKAWA, HAJIME, JP
[72] WANG, XIN, JP
[72] OKAWA, SHUNSABURO, JP
[72] WAKITA, SATOSHI, JP
[71] MITSUBISHI ELECTRIC CORPORATION, JP
[85] 2022-09-23
[86] 2020-04-02 (PCT/JP2020/015209)
[87] (WO2021/199407)

[21] **3,176,922**
[13] A1
[51] **Int.Cl. C12N 15/10 (2006.01) C40B 20/04 (2006.01) C40B 40/04 (2006.01) C40B 70/00 (2006.01) G06K 19/06 (2006.01)**
[25] EN
[54] **SEQUENTIAL ENCODING METHODS AND RELATED KITS**
[54] **PROCEDES DE CODAGE SEQUENTIEL ET KITS ASSOCIES**
[72] CHEE, MARK S., US
[71] ENCODIA, INC., US
[85] 2022-09-26
[86] 2021-08-16 (PCT/US2021/046164)
[87] (WO2022/040098)
[30] US (63/067,744) 2020-08-19

[21] **3,176,923**
[13] A1
[51] **Int.Cl. C12N 1/21 (2006.01) C12N 15/64 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING LIGATED DNA AND COMBINATION OF VECTORS FOR USE THEREOF**
[54] **PROCEDE DE PRODUCTION D'ADN LIE ET COMBINAISON DE VECTEURS DESTINEE A ETRE UTILISEE DANS CELUI-CI**
[72] YACHIE, NOZOMU, JP
[72] MORI, HIDETO, JP
[72] YAMAGUCHI, NANAMI, JP
[71] THE UNIVERSITY OF TOKYO, JP
[85] 2022-09-23
[86] 2021-01-28 (PCT/JP2021/003060)
[87] (WO2021/192596)
[30] JP (2020-053077) 2020-03-24

[21] **3,176,925**
[13] A1
[51] **Int.Cl. A61F 5/01 (2006.01) A61H 3/00 (2006.01)**
[25] EN
[54] **LOWER-LIMB ORTHOTIC DEVICE**
[54] **DISPOSITIF ORTHOPEDIQUE DE MEMBRE INFERIEUR**
[72] CHEN, YAO, JP
[72] YAMADA, SATOSHI, JP
[72] SUZUKI, HIDETOSHI, JP
[72] OHATA, KOJI, JP
[71] TORAY INDUSTRIES, INC., JP
[85] 2022-09-23
[86] 2021-02-01 (PCT/JP2021/003534)
[87] (WO2021/199648)
[30] JP (2020-061721) 2020-03-31

[21] **3,176,926**
[13] A1
[51] **Int.Cl. A61K 38/43 (2006.01) A61K 38/49 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **METHOD AND DRUG FOR TREATING ALZHEIMER'S DISEASE**
[54] **PROCEDE ET MEDICAMENT POUR LE TRAITEMENT DE LA MALADIE D'ALZHEIMER**
[72] LI, JINAN, CN
[71] TALENGEN INTERNATIONAL LIMITED, CN
[85] 2022-09-26
[86] 2021-03-24 (PCT/CN2021/082701)
[87] (WO2021/190558)
[30] CN (202010213462.7) 2020-03-24

[21] **3,176,927**
[13] A1
[51] **Int.Cl. C23C 16/511 (2006.01) H05H 1/24 (2006.01)**
[25] EN
[54] **ATMOSPHERIC PRESSURE REMOTE PLASMA CVD DEVICE, FILM FORMATION METHOD, AND PLASTIC BOTTLE MANUFACTURING METHOD**
[54] **DISPOSITIF DE DEPOT CHIMIQUE EN PHASE VAPEUR ASSISTE PAR PLASMA A PRESSION ATMOSPHERIQUE, PROCEDE DE FORMATION DE FILM ET PROCEDE DE FABRICATION DE BOUTEILLE EN PLASTIQUE**
[72] NISHIYAMA, MASANORI, JP
[72] AKANUMA, YASUHIKO, JP
[72] SUZUKI, TETSUYA, JP
[72] SHIRAKURA, AKIRA, JP
[72] TANAKA, TAKUMI, JP
[72] MIKAMOTO, KOTONO, JP
[71] SUNTORY HOLDINGS LIMITED, JP
[85] 2022-09-23
[86] 2021-03-23 (PCT/JP2021/012030)
[87] (WO2021/193651)
[30] JP (2020-054661) 2020-03-25

[21] **3,176,934**
[13] A1
[51] **Int.Cl. A61K 38/48 (2006.01) A61P 25/16 (2006.01) C07K 14/435 (2006.01)**
[25] EN
[54] **METHOD AND DRUG FOR TREATING PARKINSON'S DISEASE**
[54] **PROCEDE ET MEDICAMENT POUR LE TRAITEMENT DE LA MALADIE DE PARKINSON**
[72] LI, JINAN, CN
[71] TALENGEN INTERNATIONAL LIMITED, CN
[85] 2022-09-26
[86] 2021-03-24 (PCT/CN2021/082715)
[87] (WO2021/190561)
[30] CN (202010212922.4) 2020-03-24

[21] **3,176,937**
[13] A1
[51] **Int.Cl. A61K 38/43 (2006.01) A61K 38/49 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **METHOD AND DRUG FOR PROMOTING DEGRADATION OF MISFOLDED PROTEIN AND AGGREGATE THEREOF**
[54] **METHODE ET MEDICAMENT POUR FAVORISER LA DEGRADATION D'UNE PROTEINE MAL REPLIEE ET D'UN AGREGAT DE CELLE-CI**
[72] LI, JINAN, CN
[71] TALENGEN INTERNATIONAL LIMITED, CN
[85] 2022-09-26
[86] 2021-03-24 (PCT/CN2021/082720)
[87] (WO2021/190562)
[30] CN (202010212897.X) 2020-03-24

[21] **3,176,941**
[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **METHOD AND MEDICINE FOR TREATING HUNTINGTON'S DISEASE**
[54] **PROCEDE ET MEDICAMENT POUR LE TRAITEMENT DE LA MALADIE DE HUNTINGTON**
[72] LI, JINAN, CN
[71] TALENGEN INTERNATIONAL LIMITED, CN
[85] 2022-09-26
[86] 2021-03-24 (PCT/CN2021/082725)
[87] (WO2021/190563)
[30] CN (202010213463.1) 2020-03-24

[21] **3,176,942**
[13] A1
[51] **Int.Cl. B23D 47/02 (2006.01) B25H 1/06 (2006.01) B27B 5/29 (2006.01)**
[25] EN
[54] **SAW SLIDE DEVICE**
[54] **DISPOSITIF DE CHARIOT DE SCIE**
[72] YOUNG, DOUGLAS, US
[72] DAVIS, WILLIAM H., US
[72] PISKURA, ROBERT, US
[72] ZAHN, JEFFREY N., US
[71] DAVIS YOUNG LLC, US
[85] 2022-09-25
[86] 2021-03-24 (PCT/US2021/023870)
[87] (WO2021/195201)
[30] US (62/994,472) 2020-03-25
[30] US (16/872,706) 2020-05-12

[21] **3,176,944**
[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **5-AMINO-8-(4-PYRIDYL)-[1,2,4]TRIAZOLO[4,3-C]PYRIMIDIN-3-ONE COMPOUNDS FOR USE AGAINST CANCER**
[54] **COMPOSES DE 5-AMINO-8-(4-PYRIDYL)-[1,2,4]TRIAZOLO [4,3-C]PYRIMIDIN-3-ONE DESTINES A ETRE UTILISES CONTRE LE CANCER**
[72] BROWN, GILES ALBERT, GB
[72] RICHARDSON, CHRISTINE MARY, GB
[72] CONGREVE, MILES STUART, GB
[72] PAUL, REBECCA, GB
[72] ANDREWS, STEPHEN PHILIPPE, GB
[72] MASON, JONATHAN STEPHEN, GB
[71] ASTRAZENECA AB, SE
[85] 2022-09-26
[86] 2021-03-25 (PCT/EP2021/057806)
[87] (WO2021/191378)
[30] US (62/994,908) 2020-03-26

[21] **3,176,946**
[13] A1
[51] **Int.Cl. A61K 31/437 (2006.01) A61P 25/00 (2006.01) A61P 27/02 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 491/10 (2006.01)**
[25] EN
[54] **MONOACYLGLYCEROL LIPASE MODULATORS**
[54] **MODULATEURS DE LA MONOACYLGLYCEROL LIPASE**
[72] AMERIKS, MICHAEL K., US
[72] LAFORTEZA, BRIAN NGO, US
[72] RAVULA, SUCHITRA, US
[72] SCHIFFER, JAMIE M., US
[72] STENNE, BRICE M., US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2022-09-26
[86] 2021-03-25 (PCT/EP2021/057764)
[87] (WO2021/191359)
[30] US (63/000,329) 2020-03-26

[21] **3,176,948**
[13] A1
[51] **Int.Cl. E02D 17/13 (2006.01) E02F 9/28 (2006.01)**
[25] EN
[54] **CHANGE SYSTEM FOR WEAR PARTS OF AN EXCAVATOR BUCKET OF AN EARTHMOVING MACHINE**
[54] **SYSTEME DE CHANGEMENT DE PIECES D'USURE D'UN GODET D'EXCAVATRICE D'UNE MACHINE DE TERRASSEMENT**
[72] WEBER, GERARD, FR
[72] VICQ, MARTIAL, FR
[71] LIEBHERR-MINING EQUIPMENT COLMAR SAS, FR
[85] 2022-09-26
[86] 2021-03-26 (PCT/EP2021/057867)
[87] (WO2021/198050)
[30] DE (10 2020 109 010.2) 2020-04-01

[21] **3,176,949**
[13] A1
[51] **Int.Cl. B21C 23/14 (2006.01) B21C 35/02 (2006.01) B21D 53/36 (2006.01) B23P 13/04 (2006.01) B23P 15/00 (2006.01) E04B 1/26 (2006.01)**
[25] EN
[54] **BRACKET MANUFACTURING METHOD**
[54] **PROCEDE DE FABRICATION D'UN SUPPORT**
[72] EVANS, LAURA HELENA, GB
[72] EVANS, JONATHAN, GB
[71] ASH & LACY HOLDINGS LIMITED, GB
[85] 2022-09-26
[86] 2021-03-26 (PCT/GB2021/050749)
[87] (WO2021/191631)
[30] GB (2004542.3) 2020-03-27

[21] **3,176,951**
[13] A1
[51] **Int.Cl. A01C 7/00 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **ROW CLEANER**
[54] **DISPOSITIF DE NETTOYAGE DE RANG**
[72] RADTKE, IAN, US
[72] STOLLER, JASON, US
[72] MUHLBAUER, CORY, US
[72] HERRMANN, AARON, US
[72] WEIGAND, JOHN, US
[72] WILDERMUTH, PAUL, US
[71] PRECISION PLANTING LLC, US
[85] 2022-09-26
[86] 2021-03-23 (PCT/IB2021/052374)
[87] (WO2021/205264)
[30] US (63/017,869) 2020-04-30
[30] US (63/040,311) 2020-06-17
[30] US (63/005,559) 2020-04-06
[30] US (63/010,833) 2020-04-16
[30] US (63/074,684) 2020-09-04
[30] US (63/115,875) 2020-11-19
[30] US (63/122,735) 2020-12-08

[21] **3,176,952**
[13] A1
[51] **Int.Cl. A01C 7/00 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **ROW CLEANER**
[54] **CHASSE-DEBRIS**
[72] STOLLER, JASON, US
[71] PRECISION PLANTING LLC, US
[85] 2022-09-26
[86] 2021-03-23 (PCT/IB2021/052379)
[87] (WO2021/205265)
[30] US (63/017,869) 2020-04-30
[30] US (63/005,559) 2020-04-06
[30] US (63/010,833) 2020-04-16
[30] US (63/040,311) 2020-06-17
[30] US (63/074,684) 2020-09-04
[30] US (63/115,875) 2020-11-19
[30] US (63/122,735) 2020-12-08

[21] **3,176,953**
[13] A1
[51] **Int.Cl. C10G 69/00 (2006.01) C10G 67/04 (2006.01) C10G 69/06 (2006.01)**
[25] EN
[54] **SELECTIVE PRODUCTION OF N-PARAFFIN HYDROCRACKING PRODUCTS FROM HEAVIER N-PARAFFINS**
[54] **PRODUCTION SELECTIVE DE PRODUITS D'HYDROCRAQUAGE N-PARAFFINIQUES A PARTIR DE N-PARAFFINES PLUS LOURDES**
[72] GIRGIS, MICHAEL J., US
[72] ZONES, STACEY I., US
[71] CHEVRON U.S.A. INC., US
[85] 2022-09-26
[86] 2021-04-06 (PCT/IB2021/052829)
[87] (WO2021/205328)
[30] US (63/005,938) 2020-04-06

[21] **3,176,955**
[13] A1
[51] **Int.Cl. G06K 9/00 (2022.01)**
[25] EN
[54] **LIVELINESS DETECTION USING A DEVICE COMPRISING AN ILLUMINATION SOURCE**
[54] **DETECTION DE LA VIVACITE A L'AIDE D'UN DISPOSITIF COMPRENANT UNE SOURCE D'ECLAIRAGE**
[72] ARAGON, JESUS, ES
[72] GUPTA, HARDIK, ES
[71] IDENTY INC., US
[85] 2022-09-26
[86] 2021-04-09 (PCT/EP2021/059332)
[87] (WO2021/205016)
[30] EP (20382290.3) 2020-04-09

[21] **3,176,956**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 9/19 (2006.01) A61K 31/4995 (2006.01) A61K 47/18 (2017.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMPOSITION COMPRISING TRABECTEDIN AND AN AMINO ACID**
[54] **COMPOSITION COMPRENANT DE LA TRABECTEDINE ET UN ACIDE AMINE**
[72] ACHLEITNER, MARIA-LENA, AT
[72] GEHWOLF, NIKOLAUS, AT
[72] SCHNAIT, HEINZ, AT
[71] EVER VALINJECT GMBH, AT
[85] 2022-09-26
[86] 2021-04-15 (PCT/EP2021/059772)
[87] (WO2021/209545)
[30] EP (20169567.3) 2020-04-15

[21] **3,176,957**
[13] A1
[51] **Int.Cl. A61K 31/505 (2006.01) A61K 31/506 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 239/42 (2006.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01) C07D 403/04 (2006.01) C07D 403/14 (2006.01)**
[25] EN
[54] **AMINOPYRIMIDINE DERIVATIVES AND THEIR USE AS ARYL HYDROCARBON RECEPTOR MODULATORS**
[54] **DERIVES D'AMINOPYRIMIDINE ET LEUR UTILISATION EN TANT QUE MODULATEURS DU RECEPTEUR D'HYDROCARBURE ARYLE**
[72] PARK, JUNG-SANG, KR
[72] CHA, DAEWON, KR
[72] LEE, WONHYUNG, KR
[72] JOO, MIN SUNG, KR
[72] YOON, TAEYOUNG, KR
[72] DOH, HYOUNMIE, KR
[72] SUNG, HYUN JUNG, KR
[72] LEE, BO RYEONG, KR
[72] SONG, SEUNGHYUN, KR
[72] KIM, YOONJUNG, KR
[72] CHOI, JI HOON, KR
[72] JUNG, HYEON SEOK, KR
[71] DONG-A ST CO., LTD., KR
[85] 2022-09-26
[86] 2021-03-29 (PCT/KR2021/003883)
[87] (WO2021/194326)
[30] US (63/000,584) 2020-03-27

[21] **3,176,958**
[13] A1
[51] **Int.Cl. A61K 31/192 (2006.01) A61K 31/195 (2006.01) A61P 25/04 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **CO-CRYSTAL OF GABAPENTIN, KETOPROFEN AND LYSINE, PHARMACEUTICAL COMPOSITIONS AND THEIR MEDICAL USE**
[54] **CO-CRISTAL DE GABAPENTINE, DE KETOPROFENE ET DE LYSINE, COMPOSITIONS PHARMACEUTIQUES ET LEUR UTILISATION MEDICALE**
[72] ARAMINI, ANDREA, IT
[72] ALLEGRETTI, MARCELLO, IT
[72] BIANCHINI, GIANLUCA, IT
[72] LILLINI, SAMUELE, IT
[72] TOMASSETTI, MARA, IT
[71] DOMPE' FARMACEUTICI SPA, IT
[85] 2022-09-26
[86] 2021-04-21 (PCT/EP2021/060421)
[87] (WO2021/214158)
[30] EP (20170740.3) 2020-04-21

[21] **3,176,959**
[13] A1
[51] **Int.Cl. D06F 75/14 (2006.01) D06F 73/00 (2006.01) D06F 75/10 (2006.01) D06F 75/30 (2006.01) D06F 87/00 (2006.01) F22B 1/28 (2006.01)**
[25] EN
[54] **FABRIC STEAMER APPARATUS**
[54] **APPAREIL A VAPEUR POUR TISSU**
[72] LAI, KIN MAN, CN
[72] LEUNG, ANTHONY KIT LUN, CN
[71] CONAIR LLC, US
[85] 2022-09-26
[86] 2021-01-14 (PCT/US2021/013383)
[87] (WO2021/216145)
[30] US (16/853,532) 2020-04-20

[21] **3,176,961**
[13] A1
[51] **Int.Cl. A61K 31/4985 (2006.01) A61K 45/06 (2006.01) A61P 15/00 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **REGIMEN FOR TREATING A NEISSERIA GONORRHOEAE INFECTION WITH GEPOTIDACIN**
[54] **REGIME DE TRAITEMENT D'UNE INFECTION PAR NEISSERIA GONORRHOEAE PAR GEPOTIDACINE**
[72] SCANGARELLA-OMAN, NICOLE, US
[72] DUMONT, ETIENNE, US
[72] BERGESCH BARTH, ALINE, US
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB
[85] 2022-09-26
[86] 2020-04-02 (PCT/IB2020/000253)
[87] (WO2021/198715)

[21] **3,177,032**
[13] A1
[51] **Int.Cl. A61K 35/39 (2015.01) A61F 2/02 (2006.01) A61K 9/00 (2006.01) A61K 35/12 (2015.01)**
[25] EN
[54] **IMPLANTABLE CELL MACROENCAPSULATION DEVICE AND METHOD OF MANUFACTURE AND USE**
[54] **DISPOSITIF IMPLANTABLE DE MACROENCAPSULATION DE CELLULES ET PROCEDES DE FABRICATION ET D'UTILISATION**
[72] KARP, JEFFREY M., US
[72] YANG, KISUK, US
[72] HAMILOS, ALLISON E., US
[72] O'CEARBHAILL, EOIN, US
[72] JONES, PETER ANTHONY, US
[71] THE BRIGHAM AND WOMEN'S HOSPITAL, INC., US
[85] 2022-09-26
[86] 2021-04-02 (PCT/US2021/025545)
[87] (WO2021/202975)
[30] US (63/004,841) 2020-04-03

[21] **3,177,033**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) G16H 20/17 (2018.01) G16H 40/20 (2018.01) G16H 40/40 (2018.01) A61M 5/142 (2006.01)**
[25] EN
[54] **MEDICAL DEVICE AUDIBLE AND VISUAL ALARM SYNCHRONIZATION**
[54] **SYNCHRONISATION D'ALARMES SONORES ET VISUELLES DE DISPOSITIFS MEDICAUX**
[72] WOJTYSIAK, SLAWOMIR EDWARD, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2022-09-26
[86] 2021-04-22 (PCT/US2021/028614)
[87] (WO2021/216850)
[30] US (63/014,997) 2020-04-24

[21] **3,177,034**
[13] A1
[51] **Int.Cl. C10B 53/07 (2006.01) C10G 1/00 (2006.01) C10G 31/09 (2006.01)**
[25] EN
[54] **CIRCULAR ECONOMY FOR PLASTIC WASTE TO POLYETHYLENE VIA OIL REFINERY WITH FILTERING AND METAL OXIDE TREATMENT OF PYROLYSIS OIL**
[54] **ECONOMIE CIRCULAIRE DE DECHETS PLASTIQUES EN POLYETHYLENE PAR RAFFINAGE D'HUILE AVEC FILTRATION ET TRAITEMENT D'OXYDE METALLIQUE D'HUILE DE PYROLYSE**
[72] TIMKEN, HYE-KYUNG, US
[71] CHEVRON U.S.A. INC., US
[85] 2022-09-26
[86] 2021-04-22 (PCT/US2021/028635)
[87] (WO2021/216867)
[30] US (63/014,004) 2020-04-22

[21] **3,177,035**
[13] A1
[51] **Int.Cl. C10B 53/07 (2006.01) C10G 1/00 (2006.01) C10G 31/09 (2006.01)**
[25] EN
[54] **CIRCULAR ECONOMY FOR PLASTIC WASTE TO POLYPROPYLENE VIA OIL REFINERY WITH FILTERING AND METAL OXIDE TREATMENT OF PYROLYSIS OIL**
[54] **ECONOMIE CIRCULAIRE DE DECHETS PLASTIQUES EN POLYPROPYLENE PAR RAFFINAGE D'HUILE AVEC FILTRATION ET TRAITEMENT D'OXYDE METALLIQUE D'HUILE DE PYROLYSE**
[72] TIMKEN, HYE-KYUNG, US
[71] CHEVRON U.S.A. INC., US
[85] 2022-09-26
[86] 2021-04-22 (PCT/US2021/028642)
[87] (WO2021/216873)
[30] US (63/014,013) 2020-04-22

[21] **3,177,036**
[13] A1
[51] **Int.Cl. A61M 5/142 (2006.01) F04B 43/08 (2006.01) F04B 43/12 (2006.01)**
[25] EN
[54] **OCCLUSION FORCE REDUCTION THROUGH MULTI-DIRECTIONAL TOLERANCE CONTROL**
[54] **REDUCTION DE LA FORCE D'OCCLUSION A TRAVERS LA COMMANDE DE TOLERANCE MULTIDIRECTIONNELLE**
[72] SLABY, JIRI, US
[72] PIPPIN, STEVE, US
[72] YEAGER, KENDALL DEAN, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2022-09-26
[86] 2021-05-20 (PCT/US2021/033341)
[87] (WO2021/236896)
[30] US (63/028,055) 2020-05-21

[21] **3,177,037**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 40/06 (2012.01) G06Q 40/00 (2012.01)**
[25] EN
[54] **FORECASTING BASED ON BERNOULLI UNCERTAINTY CHARACTERIZATION**
[54] **PREVISION BASEE SUR UNE CARACTERISATION D'INCERTITUDE DE BERNOULLI**
[72] DASGUPTA, SAMBARTA, US
[72] KALLUR PALLI KUMAR, SRICHARAN, US
[71] INTUIT INC., US
[85] 2022-09-26
[86] 2021-10-06 (PCT/US2021/053731)
[87] (WO2022/125174)
[30] US (17/115,297) 2020-12-08

[21] **3,177,038**
[13] A1
[51] **Int.Cl. H01Q 1/27 (2006.01) A45C 5/04 (2006.01) A45C 13/36 (2006.01) B65D 21/00 (2006.01) B65D 25/08 (2006.01) H01Q 1/12 (2006.01) H01Q 1/42 (2006.01)**
[25] EN
[54] **PROTECTIVE ANTENNA PACKAGE AND TRANSPORT UNIT THEREFOR**
[54] **BOITIER D'ANTENNE DE PROTECTION ET SON UNITE DE TRANSPORT**
[72] MOY, MICHAEL, CA
[72] GAVRILOVIC, MINYA, CA
[72] BROMLEY, DES, CA
[72] VAN BEEK, JACCO, CA
[72] FARZANEH, SADEGH, CA
[72] WIXON, BRIAN, US
[71] GALTRONICS USA, INC., US
[85] 2022-09-26
[86] 2021-11-05 (PCT/US2021/058311)
[87] (WO2022/099053)
[30] US (63/110,543) 2020-11-06

[21] **3,177,039**
[13] A1
[51] **Int.Cl. A61L 26/00 (2006.01) A61L 24/00 (2006.01) A61L 24/04 (2006.01)**
[25] EN
[54] **REACTIVE DRY POWDERED HEMOSTATIC MATERIALS COMPRISING A PROTEIN AND A MULTIFUNCTIONALIZED MODIFIED POLYETHYLENE GLYCOL BASED CROSSLINKING AGENT**
[54] **MATERIAUX HEMOSTATIQUES PULVERULENTS SECS REACTIFS COMPRENANT UNE PROTEINE ET UN AGENT DE RETICULATION A BASE DE POLYETHYLENE GLYCOL MODIFIE MULTIFONCTIONNALISE**
[72] GREENAWALT, KEITH, US
[72] STRICKLER, FREDERICK H., JR., US
[71] DAVOL INC., US
[85] 2022-09-26
[86] 2021-12-27 (PCT/US2021/065204)
[87] (WO2022/146917)
[30] US (63/131,267) 2020-12-28

[21] **3,177,040**
[13] A1
[51] **Int.Cl. B41M 3/00 (2006.01)**
[25] EN
[54] **AUTOMATED GREETING CARD CONVEYANCE SYSTEM**
[54] **SYSTEME DE TRANSPORT AUTOMATISE DE CARTES DE V□UX**
[72] LITTLE, GERALD, US
[72] EIKOS, STEPHEN, US
[72] EVANS, DENNIS, US
[72] GARBOS, JENNIFER, US
[72] LEWIS, DAVID, US
[72] LIEN, TIMOTHY, US
[72] LINDQUIST, WESLEY, US
[71] HALLMARK CARDS, INCORPORATED, US
[85] 2022-09-26
[86] 2021-12-28 (PCT/US2021/065365)
[87] (WO2022/147027)
[30] US (63/130,994) 2020-12-28
[30] US (63/131,006) 2020-12-28
[30] US (63/131,012) 2020-12-28

[21] **3,177,041**
[13] A1
[51] **Int.Cl. A46B 15/00 (2006.01) A61C 17/22 (2006.01) A61C 17/34 (2006.01) A61H 23/02 (2006.01)**
[25] EN
[54] **HANDLE FOR AN ELECTRICALLY OPERATED PERSONAL CARE IMPLEMENT AND PERSONAL CARE IMPLEMENT**
[54] **POIGNEE POUR ACCESSOIRE D'HYGIENE CORPORELLE A COMMANDE ELECTRIQUE ET ACCESSOIRE D'HYGIENE CORPORELLE**
[72] JUNGNICKEL, UWE, DE
[71] THE GILLETTE COMPANY LLC, US
[85] 2022-09-26
[86] 2021-03-29 (PCT/US2021/070329)
[87] (WO2021/207751)
[30] EP (20168691.2) 2020-04-08

[21] **3,177,042**
[13] A1
[51] **Int.Cl. B32B 7/02 (2019.01) B32B 13/02 (2006.01) B32B 13/04 (2006.01) B32B 37/00 (2006.01) E04C 2/04 (2006.01) E04C 2/288 (2006.01)**
[25] EN
[54] **PREFABRICATED PANEL WITH MULTI-LAYER CEMENTITIOUS COVERINGS**
[54] **PANNEAU PREFABRIQUE DOTE DE REVETEMENTS CIMENTAIRES MULTICOUCHES**
[72] DOMBOWSKY, MICHAEL ANTHONY, CA
[72] DOMBOWSKY, BENEDICT JOHN, CA
[72] DOMBOWSKY, MARK BENEDICT, CA
[72] DOMBOWSKY, BRADEN LOUIS, CA
[71] NEXII BUILDING SOLUTIONS INC., CA
[85] 2022-09-26
[86] 2021-03-26 (PCT/CA2021/050409)
[87] (WO2021/189155)
[30] US (63/000,942) 2020-03-27

[21] **3,177,043**
[13] A1
[51] **Int.Cl. A46B 15/00 (2006.01) A61C 17/22 (2006.01) A61C 17/34 (2006.01)**
[25] EN
[54] **HANDLE FOR AN ELECTRICALLY OPERATED PERSONAL CARE IMPLEMENT AND ELECTRICALLY OPERATED PERSONAL CARE IMPLEMENT**
[54] **POIGNEE POUR UN INSTRUMENT DE SOINS PERSONNELS A COMMANDE ELECTRIQUE ET INSTRUMENT DE SOINS PERSONNELS A COMMANDE ELECTRIQUE**
[72] JUNGNICKEL, UWE, DE
[71] THE GILLETTE COMPANY LLC, US
[85] 2022-09-26
[86] 2021-03-29 (PCT/US2021/070332)
[87] (WO2021/207754)
[30] EP (20168691.2) 2020-04-08
[30] EP (20168731.6) 2020-04-08
[30] EP (20168692.0) 2020-04-08
[30] EP (20177338.9) 2020-05-29

[21] **3,177,044**
[13] A1
[51] **Int.Cl. E04B 1/00 (2006.01) E04G 21/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONSTRUCTING A SINGLE-STOREY BUILDING**
[54] **SYSTEMES ET PROCEDES DE CONSTRUCTION D'UN BATIMENT A UN SEUL NIVEAU**
[72] DOMBOWSKY, MICHAEL ANTHONY, CA
[72] DOMBOWSKY, BENEDICT JOHN, CA
[72] DOMBOWSKY, MARK BENEDICT, CA
[72] DOMBOWSKY, BRADEN LOUIS, CA
[72] DOMBOWSKY, JASON LEVI JOHN, CA
[72] DOMBOWSKY, LOUIS EDWARD, CA
[72] DOMBOWSKY, LUKE MICHA LAWRENCE, CA
[71] NEXII BUILDING SOLUTIONS INC., CA
[85] 2022-09-26
[86] 2021-03-26 (PCT/CA2021/050410)
[87] (WO2021/189156)
[30] US (63/001,194) 2020-03-27

[21] **3,177,045**
[13] A1
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING CORONAVIRUS INFECTION**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT D'UNE INFECTION A CORONAVIRUS**
[72] BAROUCH, DAN H., US
[72] KORBER, BETTE T., US
[72] THEILER, JAMES, US
[71] BETH ISRAEL DEACONESS MEDICAL CENTER, INC., US
[71] TRIAD NATIONAL SECURITY, LLC, US
[85] 2022-09-26
[86] 2022-03-15 (PCT/US2022/020407)
[87] (WO2022/197720)
[30] US (63/161,318) 2021-03-15
[30] US (63/256,848) 2021-10-18

[21] **3,177,046**
[13] A1
[51] **Int.Cl. A61Q 11/00 (2006.01) G01N 33/566 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR AND METHODS OF NEUTRALIZING LIPOPOLYSACCHARIDE TOXICITY AND METHODS OF IDENTIFYING THE SAME**
[54] **COMPOSITIONS ET METHODES DE NEUTRALISATION DE LA TOXICITE DE LIPOPOLYSACCHARIDES ET METHODES ASSOCIEES D'IDENTIFICATION**
[72] CHEN, DANDAN, US
[72] TRIVEDI, HARSH MAHENDRA, US
[72] MASTERS, JAMES, US
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2022-09-26
[86] 2021-04-02 (PCT/US2021/070350)
[87] (WO2021/203142)
[30] US (63/004,174) 2020-04-02
[30] US (63/200,318) 2021-03-01

[21] **3,177,049**
[13] A1
[51] **Int.Cl. A46B 15/00 (2006.01) A61C 17/22 (2006.01) A61C 17/34 (2006.01)**
[25] EN
[54] **HANDLE FOR A PERSONAL CARE IMPLEMENT AND PERSONAL CARE IMPLEMENT**
[54] **POIGNEE POUR ACCESSOIRE DE SOINS PERSONNELS ET ACCESSOIRE DE SOINS PERSONNELS**
[72] JUNGNICKEL, UWE, DE
[71] THE GILLETTE COMPANY LLC, US
[85] 2022-09-26
[86] 2021-03-29 (PCT/US2021/070331)
[87] (WO2021/207753)
[30] EP (20168692.0) 2020-04-08

[21] **3,177,050**
[13] A1
[51] **Int.Cl. C12Q 1/70 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETECTION OF PATHOGENS**
[54] **PROCEDES ET SYSTEMES POUR LA DETECTION DE PATHOGENES**
[72] KRUEGER, BRIAN, US
[72] BURNS, AYLA, US
[72] WAGNER, KIMBERLY, US
[71] LABORATORY CORPORATION OF AMERICA HOLDINGS, US
[85] 2022-09-26
[86] 2021-04-01 (PCT/US2021/025413)
[87] (WO2021/202897)
[30] US (63/004,143) 2020-04-02
[30] US (63/058,172) 2020-07-29

[21] **3,177,051**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) C12N 9/22 (2006.01) C12N 9/78 (2006.01) C12N 15/10 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **CLASS II, TYPE II CRISPR SYSTEMS**
[54] **SYSTEMES CRISPR DE CLASSE II, TYPE II**
[72] THOMAS, BRIAN, US
[72] BROWN, CHRISTOPHER, US
[72] DEVOTO, AUDRA, US
[72] BUTTERFIELD, CRISTINA, US
[72] ALEXANDER, LISA, US
[72] GOLTSMAN, DANIELA S.A., US
[71] METAGENOMI, INC., US
[85] 2022-09-26
[86] 2021-03-30 (PCT/US2021/024945)
[87] (WO2021/202568)
[30] US (63/003,159) 2020-03-31
[30] US (63/116,149) 2020-11-19

[21] **3,177,052**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) C12N 9/22 (2006.01) C12N 15/11 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **METHODS FOR INTEGRATING DNA INTO GENES WITH GAIN-OF-FUNCTION OR LOSS-OF-FUNCTION MUTATIONS**
[54] **PROCEDES D'INTEGRATION D'ADN DANS DES GENES PRESENTANT DES MUTATIONS DE GAIN DE FONCTION OU DE PERTE DE FONCTION**
[72] BALTES, NICHOLAS, US
[71] BLUEALLELE, LLC, US
[85] 2022-09-26
[86] 2021-03-29 (PCT/US2021/024725)
[87] (WO2021/202421)
[30] US (63/002,259) 2020-03-30
[30] US (63/070,877) 2020-08-27

[21] **3,177,054**
[13] A1
[51] **Int.Cl. E04F 13/08 (2006.01) B32B 7/10 (2006.01) B32B 13/00 (2006.01) B32B 37/15 (2006.01) E04C 2/02 (2006.01) E04G 21/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ADHERING CLADDING**
[54] **SYSTEMES ET PROCEDES DE COLLAGE D'UN PLACAGE**
[72] DOMBOWSKY, MICHAEL ANTHONY, CA
[72] DOMBOWSKY, BENEDICT JOHN, CA
[72] DOMBOWSKY, MARK BENEDICT, CA
[72] DOMBOWSKY, BRADEN LOUIS, CA
[71] NEXII BUILDING SOLUTIONS INC., CA
[85] 2022-09-26
[86] 2021-03-30 (PCT/CA2021/050432)
[87] (WO2021/195771)
[30] US (63/002,142) 2020-03-30

[21] **3,177,056**
[13] A1
[51] **Int.Cl. A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61K 31/55 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **5-AMINO-8-(4-PYRIDYL)-[1,2,4]TRIAZOLO[4,3-C]PYRIMIDIN-3-ONE COMPOUNDS FOR USE AGAINST CANCER**
[54] **COMPOSES DE 5-AMINO-8-(4-FLUOROPHENYL)-[1,2,4]TRIAZOLO [4,3-C]PYRIMIDIN-3-ONE DESTINES A ETRE UTILISES CONTRE LE CANCER**
[72] BROWN, GILES ALBERT, GB
[72] CONGREVE, MILES STUART, GB
[72] RICHARDSON, CHRISTINE MARY, GB
[72] PAUL, REBECCA, GB
[72] ANDREWS, STEPHEN PHILIPPE, GB
[72] MASON, JONATHAN STEPHEN, GB
[72] DEFLORIAN, FRANCESCA, GB
[72] SWAIN, NIGEL ALAN, GB
[71] ASTRAZENECA AB, SE
[85] 2022-09-26
[86] 2021-03-25 (PCT/EP2021/057807)
[87] (WO2021/191379)
[30] US (62/994,970) 2020-03-26

[21] **3,177,057**
[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **TRIAZOLONE COMPOUNDS**
[54] **COMPOSES DE TRIAZOLONE**
[72] BROWN, GILES ALBERT, GB
[72] CONGREVE, MILES STUART, GB
[72] ANDREWS, STEPHEN PHILIPPE, GB
[72] MASON, JONATHAN STEPHEN, GB
[72] DEFLORIAN, FRANCESCA, GB
[72] SWAIN, NIGEL ALAN, GB
[71] ASTRAZENECA AB, SE
[85] 2022-09-26
[86] 2021-03-25 (PCT/EP2021/057808)
[87] (WO2021/191380)
[30] US (62/994,954) 2020-03-26

[21] **3,177,096**
[13] A1
[51] **Int.Cl. E21B 7/04 (2006.01) E21B 41/00 (2006.01) E21B 43/14 (2006.01)**
[25] EN
[54] **SELF-DEFLECTING MULTILATERAL JUNCTION**
[54] **JONCTION MULTILATERALE AUTODEFLECTRICE**
[72] LARSEN, LARS PETTER, NO
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2022-09-16
[86] 2021-06-22 (PCT/US2021/038448)
[87] (WO2022/005813)
[30] US (63/045,612) 2020-06-29
[30] US (17/353,968) 2021-06-22

[21] **3,177,136**
[13] A1
[51] **Int.Cl. B60C 23/04 (2006.01)**
[25] EN
[54] **INTERNAL FIXATION OF A TYRE PRESSURE SENSOR ON THE RIM**
[54] **FIXATION INTERNE D'UN CAPTEUR DE PRESSION DE PNEU SUR LA JANTE**
[72] BROADFIELD, GARY, GB
[71] WHEELY-SAFE LTD., GB
[85] 2022-10-27
[86] 2021-04-27 (PCT/EP2021/061010)
[87] (WO2021/219655)
[30] GB (2006295.6) 2020-04-29

---

[21] **3,177,137**
[13] A1
[51] **Int.Cl. A61K 31/454 (2006.01) A61K 31/573 (2006.01)**
[25] EN
[54] **TREATMENTS OF PROSTATE CANCER WITH COMBINATIONS OF ABIRATERONE ACETATE AND NIRAPARIB**
[54] **TRAITEMENTS DU CANCER DE LA PROSTATE AU MOYEN D'ASSOCIATIONS D'ACETATE D'ABIRATERONE ET DE NIRAPARIB**
[72] QUINTEN, THOMAS RONALD A., BE
[72] DELAET, URBAIN ALFONS C., BE
[72] HEYNS, PHILIP ERNA H., BE
[72] MARCOZZI, TATIANA, BE
[72] BERTELS, JOHNY, BE
[72] LUYTEN, KATRIEN, BE
[72] TAMBWEKAR, KAUSTUBH RAMESH, BE
[72] LOPEZ-GITLITZ, ANGELA, US
[72] HARTMAN KOK, PAUL J. A., BE
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2022-10-27
[86] 2021-05-07 (PCT/EP2021/062186)
[87] (WO2021/224469)
[30] EP (20173749.1) 2020-05-08
[30] US (63/142,919) 2021-01-28
[30] US (63/174,282) 2021-04-13

---

[21] **3,177,138**
[13] A1
[25] EN
[54] **TWO WIRE PRESSURE INDICATING SWITCH WITH ALL ELECTRONIC ARCHITECTURE WITH MILLIVOLT OPERATING SUPPLY**
[54] **COMMUTATEUR INDICATEUR DE PRESSION A DEUX FILS A ARCHITECTURE ELECTRONIQUE ENTIERE A ALIMENTATION FONCTIONNANT EN MILLIVOLTS**
[72] GUZIAK, ROBERT ANDREW, US
[71] HYDRA-ELECTRIC COMPANY, US
[85] 2022-10-27
[86] 2021-04-27 (PCT/US2021/029301)
[87] (WO2021/222176)
[30] US (16/859,858) 2020-04-27

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,175,959**
[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/42 (2020.01) A24F 40/50 (2020.01) A24F 40/46 (2020.01)**
[25] EN
[54] **AEROSOL GENERATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE GENERATION D'AEROSOL**
[72] HAN, JUNG HO, KR
[72] LEE, JANG UK, KR
[72] LIM, HUN II, KR
[72] LEE, JONG SUB, KR
[72] HAN, DAE NAM, KR
[72] YOON, JIN YOUNG, KR
[72] KIM, YOUNG LEA, KR
[72] JANG, JI SOO, KR
[72] LIM, WANG SEOP, KR
[72] LEE, MOON BONG, KR
[72] JU, SOUNG HO, KR
[72] PARK, DU JIN, KR
[72] YOON, SEONG WON, KR
[71] KT&G CORPORATION, KR
[22] 2017-11-06
[41] 2018-06-21
[62] 3,047,236
[30] KR (10-2017-0101343) 2017-08-09
[30] KR (10-2016-0172889) 2016-12-16
[30] KR (10-2017-0046938) 2017-04-11
[30] KR (10-2017-0055756) 2017-04-28
[30] KR (10-2017-0068665) 2017-06-01
[30] KR (10-2017-0077586) 2017-06-19
[30] KR (10-2017-0100888) 2017-08-09
[30] KR (10-2017-0101350) 2017-08-09
[30] KR (10-2017-0101348) 2017-08-09
[30] KR (10-2017-0113954) 2017-09-06
[30] KR (10-2017-0146623) 2017-11-06

[21] **3,175,967**
[13] A1
[25] EN
[54] **INSECTICIDAL PROTEINS AND METHODS FOR THEIR USE**
[54] **PROTEINES INSECTICIDES ET LEURS PROCEDES D'UTILISATION**
[72] DIEHN, SCOTT, US
[72] ENGLISH, JAMES, US
[72] LIU, LU, US
[72] ONG, AZALEA, US
[72] ORAL, JARRED, US
[72] ROSEN, BARBARA, US
[72] SCHELLENBERGER, UTE, US
[72] UDRANSZKY, INGRID, US
[72] WEI, JUN-ZHI, US
[72] XIE, WEIPING, US
[72] ZHU, GENHAI, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2014-09-11
[41] 2015-03-19
[62] 2,923,726
[30] US (61/877,625) 2013-09-13

[21] **3,175,968**
[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/50 (2020.01)**
[25] EN
[54] **AEROSOL GENERATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE GENERATION D'AEROSOL**
[72] HAN, JUNG HO, KR
[72] LEE, JANG UK, KR
[72] LIM, HUN II, KR
[72] LEE, JONG SUB, KR
[72] HAN, DAE NAM, KR
[72] YOON, JIN YOUNG, KR
[72] KIM, YOUNG LEA, KR
[72] JANG, JI SOO, KR
[72] LIM, WANG SEOP, KR
[72] LEE, MOON BONG, KR
[72] JU, SOUNG HO, KR
[72] PARK, DU JIN, KR
[72] YOON, SEONG WON, KR
[71] KT&G CORPORATION, KR
[22] 2017-11-06
[41] 2018-06-21
[62] 3,047,236
[30] KR (10-2016-0172889) 2016-12-16
[30] KR (10-2017-0046938) 2017-04-11
[30] KR (10-2017-0055756) 2017-04-28
[30] KR (10-2017-0068665) 2017-06-01
[30] KR (10-2017-0077586) 2017-06-19
[30] KR (10-2017-0101343) 2017-08-09
[30] KR (10-2017-0100888) 2017-08-09
[30] KR (10-2017-0101350) 2017-08-09
[30] KR (10-2017-0101348) 2017-08-09
[30] KR (10-2017-0113954) 2017-09-06
[30] KR (10-2017-0146623) 2017-11-06

[21] **3,175,971**
[13] A1
[51] **Int.Cl. E05B 15/02 (2006.01) E05B 47/06 (2006.01) E05B 53/00 (2006.01) E05B 63/20 (2006.01) E05C 9/04 (2006.01)**
[25] EN
[54] **LEVER ACTION AUTOMATIC SHOOTBOLT OPERATOR WITH MAGNETICALLY-TRIGGERED LOCKING MECHANISM**
[54] **ACTIONNEUR DE PENE COULISSANT AUTOMATIQUE A ACTION DE LEVIER PRESENTANT UN MECANISME DE VERROUILLAGE A DECLENCHEMENT MAGNETIQUE**
[72] MINTER, PETER J., US
[72] STADLER, DOUGLAS, US
[72] FULLENWIDER, MARC WESLEY, US
[72] FRABBIELE, ANTHONY J., US
[71] INTERLOCK USA, INC., US
[22] 2019-10-16
[41] 2020-04-23
[62] 3,116,224
[30] US (62/746,320) 2018-10-16
[30] US (62/812,751) 2019-03-01
[30] US (62/838,717) 2019-04-25

[21] **3,175,975**
[13] A1
[51] **Int.Cl. A61F 9/00 (2006.01) A61M 5/158 (2006.01)**
[25] EN
[54] **APPARATUS FOR SUBRETINAL ADMINISTRATION OF THERAPEUTIC AGENT VIA A CURVED NEEDLE**
[54] **APPAREIL POUR L'ADMINISTRATION SOUS-RETINIENNE D'UN AGENT THERAPEUTIQUE PAR L'INTERMEDIAIRE D'UNE AIGUILLE COURBE**
[72] MEYER, THOMAS E., US
[72] KO, BENJAMIN L., US
[72] KHAN, ISAAC J., US
[72] PRICE, DANIEL W., US
[72] OBERKIRCHER, BRENDAN J., US
[72] KEANE, MICHAEL F., US
[71] GYROSCOPE THERAPEUTICS LIMITED, GB
[22] 2017-03-09
[41] 2017-09-14
[62] 3,015,529
[30] US (62/305,767) 2016-03-09
[30] US (15/438,918) 2017-02-22

[21] **3,175,979**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **ANTI-PD-1 ANTIBODIES**
[54] **ANTICORPS ANTI-PD-1**
[72] AMIRINA, NAJMIA, US
[72] CHAMARTHI, HAREESH, US
[72] CHIU, MARIA ISABEL, US
[72] DOTY, DANIEL, US
[72] FENG, BIN, US
[72] JONCA, ALEKSANDER, US
[72] MCQUADE, THOMAS, US
[72] NGUYEN, ANHCO, US
[72] RANGANATH, SHEILA, US
[72] SCHEUPLEIN, HANS ALBERT FELIX, US
[72] SPAULDING, VIKKI A., US
[72] WANG, LEI, US
[72] WATKINS-YOON, JENNIFER, US
[72] VADDE, SRI SAHITYA, US
[71] PD-1 ACQUISITION GROUP, LLC, US
[22] 2015-12-19
[41] 2016-06-30
[62] 2,971,734
[30] US (62/095,675) 2014-12-22
[30] US (62/220,199) 2015-09-17
[30] US (62/251,082) 2015-11-04
[30] US (62/261,118) 2015-11-30

[21] **3,176,002**
[13] A1
[51] **Int.Cl. B62M 27/02 (2006.01) B62K 13/00 (2006.01)**
[25] EN
[54] **SNOW VEHICLE**
[54] **VEHICULE SUR NEIGE**
[72] MANGUM, ALLEN M., US
[72] YORK, JUSTIN R., US
[71] POLARIS INDUSTRIES INC., US
[22] 2016-11-04
[41] 2017-05-11
[62] 3,003,473
[30] US (14/935,224) 2015-11-06
[30] US (14/935,265) 2015-11-06
[30] US (15/165,862) 2016-05-26

[21] **3,176,048**
[13] A1
[51] **Int.Cl. A61M 16/16 (2006.01)**
[25] EN
[54] **HUMIDIFICATION SYSTEM**
[54] **SYSTEME D'HUMIDIFICATION**
[72] JACKSON, JOHN JAMES, NZ
[72] MANON, BARRY SHACK, NZ
[72] CORRALES, VICTOR ROSALES, NZ
[72] VAN WORKUM, STEFAN LEO, NZ
[72] ANDRESEN, MICHAEL JOHN, NZ
[72] EVANS, STEPHEN DAVID, NZ
[72] HAMILTON, MARK SAMUEL, NZ
[72] BUCKLEY, PAUL FLEMING, NZ
[72] KLENNER, JASON ALLAN, NZ
[72] OSBORNE, HAMISH, NZ
[72] BOGGS, SAMUEL GRAHAM, NZ
[72] STANTON, JAMES WILLIAM, NZ
[72] GRIFFITHS, JOSEPH NATHANIEL, NZ
[72] LAMBERT, JONATHAN ANDREW GEORGE, NZ
[72] VAUGHAN, NICHOLAS EDWARD, NZ
[72] KEHOE, JAMES OWEN, NZ
[72] DE LA FUENTE, FRANCISCO ERNESTO DE LA PENA, NZ
[72] MCKENNA, NICHOLAS JAMES MICHAEL, NZ
[72] PORTER, RACHAEL, NZ
[72] STAM, SIMON MORDECHAI, NZ
[72] KEMPS, DAVID ROBERT, NZ
[72] LYONS, EDWIN JOSEPH, NZ
[72] MARTIN, MADELEINE BESS, NZ
[72] SHOU, ADA YIWEN, NZ
[72] LIU, HUANG-KU, NZ
[71] FISHER AND PAYKEL HEALTHCARE LIMITED, NZ
[22] 2014-09-15
[41] 2015-03-19
[62] 2,924,039
[30] US (61/877,566) 2013-09-13
[30] US (61/877,622) 2013-09-13
[30] US (61/877,736) 2013-09-13
[30] US (61/971,474) 2014-03-27
[30] US (62/032,462) 2014-08-01

[21] **3,176,050**
[13] A1
[51] **Int.Cl. A61M 16/08 (2006.01) A61M 16/10 (2006.01) A61M 16/16 (2006.01)**
[25] EN
[54] **COMPONENTS FOR MEDICAL CIRCUITS**
[54] **ELEMENTS POUR CIRCUITS MEDICAUX**
[72] MILNE, ROBERT ANDREW DAVID, NZ
[72] GIERKE, TIMOTHY DEE, US
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2014-03-14
[41] 2014-09-18
[62] 3,093,754
[30] US (61/789,754) 2013-03-15
[30] US (61/790,424) 2013-03-15
[30] US (61/925,099) 2014-01-08

[21] **3,176,052**
[13] A1
[51] **Int.Cl. B65D 81/38 (2006.01) B65D 27/00 (2006.01) B65D 81/02 (2006.01) D21H 27/30 (2006.01) D21J 1/20 (2006.01)**
[25] EN
[54] **METHOD OF MAKING AN INSULATION MATERIAL AND AN INSULATED MAILER**
[54] **PROCEDE DE FABRICATION D'UN MATERIAU ISOLANT ET D'UNE POCHETTE MATELASSEE ISOLEE**
[72] COLLISON, ALAN B., US
[72] BORGMAN, REID, US
[71] MP GLOBAL PRODUCTS, L.L.C., US
[22] 2017-11-07
[41] 2018-05-17
[62] 3,043,192
[30] US (62/419,894) 2016-11-09
[30] US (62/437,365) 2016-12-21
[30] US (15/677,738) 2017-08-15

[21] **3,176,057**
[13] A1
[51] **Int.Cl. F16L 9/18 (2006.01) B60P 3/22 (2006.01) B63B 3/00 (2006.01) B64D 37/06 (2006.01) F16L 55/17 (2006.01) F17D 5/02 (2006.01)**
[25] EN
[54] **VERSATILE CONTAINER AND PIPE**
[54] **CONTENANT ET TUYAU POLYVALENT**
[72] HOULE, ANDRE, CA
[71] HOULE, ANDRE, CA
[22] 2013-10-11
[41] 2014-11-30
[62] 2,830,042
[30] US (13/907,806) 2013-05-31

[21] **3,176,076**
[13] A1
[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/513 (2006.01) A61K 47/34 (2017.01) A61P 19/04 (2006.01)**
[25] EN
[54] **DRUG DELIVERY DEVICES AND METHODS OF MAKING AND USING SAME**
[54] **DISPOSITIFS D'ADMINISTRATION DE MEDICAMENT ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**
[72] BLAKE, DIANE A., US
[72] JOHN, VIJAY T., US
[72] AYYALA, RAMESH, US
[72] REISS, KRZYSTOF, US
[71] THE ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND, US
[22] 2013-08-29
[41] 2014-03-06
[62] 2,883,474
[30] US (61/694,455) 2012-08-29

[21] **3,176,084**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/26 (2006.01) C12M 1/34 (2006.01) C12M 1/36 (2006.01) C12M 1/42 (2006.01) C12M 3/00 (2006.01) C12N 1/00 (2006.01) C12N 5/00 (2006.01)**
[25] EN
[54] **MICROFLUIDIC DEVICE FOR CULTURING BIOLOGICAL CELLS AND METHODS OF USE THEREOF**
[54] **DISPOSITIF MICROFLUIDIQUE POUR LA CULTURE DE CELLULES BIOLOGIQUES ET METHODES D'UTILISATION CONNEXES**
[72] LOWE, RANDALL D. JR., US
[72] BEAUMONT, KRISTIN, US
[72] KARUNAKARAN, AATHAVAN, US
[72] MARKS, NATALIE, US
[72] MCEWEN, JASON M., US
[72] WHITE, MARK P., US
[72] NEVILL, J. TANNER, US
[72] WANG, GANG F., US
[72] MCFARLAND, ANDREW W., US
[72] MALLEO, DANIELE, US
[72] BREINLINGER, KEITH J., US
[72] GUAN, XIAO, US
[72] CHAPMAN, KEVIN T., US
[71] BERKELEY LIGHTS, INC., US
[22] 2016-04-22
[41] 2016-10-27
[62] 2,982,252
[30] US (62/151,325) 2015-04-22
[30] US (15/135,707) 2016-04-22

[21] **3,176,086**
[13] A1
[51] **Int.Cl. E21B 43/241 (2006.01) C09K 8/58 (2006.01) E21B 43/40 (2006.01)**
[25] EN
[54] **IN SITU STARTUP PROCESS FOR MOBILIZING BITUMEN IN A RESERVOIR**
[54] **PROCESSUS IN SITU DE DEMARRAGE POUR MOBILISER LE BITUME DANS UN RESERVOIR**
[72] ENGELMAN, RUSSELL, CA
[71] SUNCOR ENERGY INC., CA
[22] 2018-07-18
[41] 2020-01-18
[62] 3,110,928

[21] **3,176,105**
[13] A1
[51] **Int.Cl. A61M 25/18 (2006.01) A61M 1/36 (2006.01) A61M 39/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETECTING VASCULAR ACCESS DISCONNECTION**
[54] **SYSTEMES ET PROCEDES DE DETECTION DE DECONNEXION D'ACCES VASCULAIRE**
[72] VAN DER MERWE, DIRK, US
[72] NORRIS, MICHAEL, US
[72] BAKER, MICHAEL, US
[72] BALLANTYNE, TODD, US
[72] WILT, MICHAEL, US
[71] DEKA PRODUCTS LIMITED PARTNERSHIP, US
[22] 2015-05-27
[41] 2015-12-03
[62] 2,949,987
[30] US (62/003,346) 2014-05-27
[30] US (62/121,980) 2015-02-27

[21] **3,176,115**
[13] A1
[51] **Int.Cl. C12N 5/00 (2006.01) C12N 5/071 (2010.01) C12M 1/00 (2006.01) C12M 1/26 (2006.01) C12M 1/34 (2006.01) C12M 1/36 (2006.01) C12M 1/42 (2006.01) C12M 3/00 (2006.01) C12N 1/00 (2006.01)**
[25] EN
[54] **MICROFLUIDIC DEVICE FOR CULTURING BIOLOGICAL CELLS AND METHODS OF USE THEREOF**
[54] **DISPOSITIF MICROFLUIDIQUE POUR LA CULTURE DE CELLULES BIOLOGIQUES ET METHODES D'UTILISATION CONNEXES**
[72] LOWE, RANDALL D. JR., US
[72] BEAUMONT, KRISTIN, US
[72] KARUNAKARAN, AATHAVAN, US
[72] MARKS, NATALIE, US
[72] MCEWEN, JASON M., US
[72] WHITE, MARK P., US
[72] NEVILL, J. TANNER, US
[72] WANG, GANG F., US
[72] MCFARLAND, ANDREW W., US
[72] MALLEO, DANIELE, US
[72] BREINLINGER, KEITH J., US
[72] GUAN, XIAO, US
[72] CHAPMAN, KEVIN T., US
[71] BERKELEY LIGHTS, INC., US
[22] 2016-04-22
[41] 2016-10-27
[62] 2,982,252
[30] US (62/151,325) 2015-04-22
[30] US (15/135,707) 2016-04-22

[21] **3,176,123**
[13] A1
[25] EN
[54] **COMPOSITIONS FOR TREATING PATHOLOGICAL CALCIFICATION CONDITIONS, AND METHODS USING SAME**
[54] **COMPOSITIONS POUR LE TRAITEMENT D'ETATS DE CALCIFICATION PATHOLOGIQUE, ET METHODES LES UTILISANT**
[72] BRADDOCK, DEMETRIOS, US
[72] ALBRIGHT, RONALD, US
[71] YALE UNIVERSITY, US
[22] 2016-05-19
[41] 2016-11-24
[62] 2,984,947
[30] US (62/163,500) 2015-05-19

[21] **3,176,147**
[13] A1
[51] **Int.Cl. G16H 40/20 (2018.01) G16H 10/00 (2018.01) G16H 40/67 (2018.01)**
[25] EN
[54] **PATIENT TRANSFER IN VIRTUAL MEDICINE**
[54] **TRANSFERT DE PATIENT EN MEDECINE VIRTUELLE**
[72] BOYKO, MARIYA, CA
[72] WATANABE, KAREN KING-LUN TAM, CA
[72] WILSON, SCOTT WILLIAM, CA
[72] TYTUS, DR. RICHARD HENRY, CA
[72] TYTUS, MARC, CA
[72] HEWAGE, YASITH PRABUDDHAKA PEDURU, LK
[71] BOYKO, MARIYA, CA
[71] WATANABE, KAREN KING-LUN TAM, CA
[71] WILSON, SCOTT WILLIAM, CA
[71] TYTUS, DR. RICHARD HENRY, CA
[71] TYTUS, MARC, CA
[71] HEWAGE, YASITH PRABUDDHAKA PEDURU, LK
[22] 2021-12-20
[41] 2022-04-15
[62] 3,143,139

[21] **3,176,159**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 20/38 (2012.01) G06Q 30/06 (2012.01)**
[25] EN
[54] **CAPITAL RECEIPT AND PAYMENT SYSTEM BASED ON ELECTRONIC VOUCHER**
[54] **SYSTEME DE RECEPTION DE FONDS ET DE PAIEMENT BASE SUR UN CERTIFICAT ELECTRONIQUE**
[72] ZHANG, YI, CN
[71] 10353744 CANADA LTD., CA
[22] 2014-09-12
[41] 2016-03-17
[62] 2,990,715

[21] **3,176,160**
[13] A1
[51] **Int.Cl. E05B 59/00 (2006.01) E05B 17/20 (2006.01)**
[25] EN
[54] **MULTIPOINT LOCK**
[54] **VERROU MULTIPOINT**
[72] JASKIEWICZ, TOMASZ, US
[72] HEID, GEORGE, US
[72] JOHNSON, ERIC, US
[72] KENDALL, ADAM, US
[71] ENDURA PRODUCTS, INC., US
[22] 2017-12-04
[41] 2018-07-19
[62] 3,065,351
[30] US (62/447,955) 2017-01-19
[30] US (62/488,098) 2017-04-21
[30] US (62/508,460) 2017-05-19
[30] US (15/828,640) 2017-12-01

[21] **3,176,178**
[13] A1
[51] **Int.Cl. E06B 3/46 (2006.01) E05D 13/00 (2006.01) E05D 15/06 (2006.01)**
[25] EN
[54] **SLIDING DOOR UNIT AND COMPONENTS FOR THE SAME**
[54] **MODULE DE PORTE COULISSANTE ET COMPOSANTES ASSOCIEES**
[72] PROCTON, BRUCE E., US
[72] MITCHELL, MICHAEL K., US
[72] JASKIEWICZ, TOMASZ, US
[71] ENDURA PRODUCTS, LLC, US
[22] 2018-06-06
[41] 2018-12-09
[62] 3,080,230
[30] US (62/517,398) 2017-06-09
[30] US (16/000,420) 2018-06-05
[30] US (16/001,029) 2018-06-06

[21] **3,176,188**
[13] A1
[25] EN
[54] **USING CLIENT CERTIFICATES TO COMMUNICATE TRUSTED INFORMATION**
[54] **UTILISATION DE CERTIFICATS DE CLIENT POUR COMMUNIQUER DES INFORMATIONS FIABLES**
[72] NORTON, DERK, US
[72] VAISH, TUSHAR, US
[72] WEBB, JEFF, US
[71] BLACKHAWK NETWORK, INC., US
[22] 2014-03-14
[41] 2014-09-15
[62] 2,847,003
[30] US (61/800,548) 2013-03-15

[21] **3,176,207**
[13] A1
[25] EN
[54] **CONSTRUCTS AND METHODS FOR INCREASING PLANT YIELD OR AGRICULTURAL CHARACTERISTICS OR BOTH**
[54] **CONSTRUCTIONS ET METHODES POUR ACCROITRE LE RENDEMENT DE PLANTES OU LES CARACTERISTIQUES AGRICOLES OU LES DEUX**
[72] GIL, LIDOR, IL
[72] HILMAN, DROR, IL
[72] VAN-OSS PINHASI, RUTH, IL
[72] RIMON KNOPF, RONIT, IL
[72] BROG, YAACOV MICHA, IL
[72] MATARASSO, NOA, IL
[72] PORATY-GAVRA, LIMOR, IL
[72] OFIR-BIRIN, YIFAT LOUBA, IL
[72] GALON WOLFENSON, YAEL, IL
[72] KARCHI, HAGAI, IL
[71] EVOGENE LTD., IL
[22] 2015-08-24
[41] 2016-03-03
[62] 2,958,039
[30] US (62/042,538) 2014-08-27
[30] US (62/114,147) 2015-02-10

[21] **3,176,216**
[13] A1
[51] **Int.Cl. B67D 1/04 (2006.01) B67D 7/36 (2010.01) B67D 7/42 (2010.01) B67D 7/72 (2010.01) B67D 7/74 (2010.01) B67D 7/80 (2010.01) B65D 77/06 (2006.01) B67D 1/08 (2006.01)**
[25] EN
[54] **LIQUID FOOD DISPENSER SYSTEM AND METHOD**
[54]
[72] DOELMAN, TIMOTHY PETER, US
[72] BAXTER, VINCENT A., US
[71] FAIRLIFE, L.L.C., US
[22] 2007-07-06
[41] 2008-01-10
[62] 3,049,238
[30] US (60/819,178) 2006-07-07
[30] US (60/912,626) 2007-04-18

[21] **3,176,217**
[13] A1
[51] **Int.Cl. A61M 16/16 (2006.01) A62B 9/00 (2006.01) F16L 37/56 (2006.01) F24F 6/02 (2006.01)**
[25] EN
[54] **USABILITY FEATURES FOR RESPIRATORY HUMIDIFICATION SYSTEM**
[54] **FONCTIONNALITES D'USABILITE POUR SYSTEME D'HUMIDIFICATION RESPIRATOIRE**
[72] STANTON, JAMES WILLIAM, NZ
[72] ANDRESEN, MICHAEL JOHN, NZ
[72] LAMBERT, JONATHAN ANDREW GEORGE, NZ
[72] KLENNER, JASON ALLAN, NZ
[72] SALMON, ANDREW PAUL MAXWELL, NZ
[72] HAMILTON, MARK SAMUEL, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2013-04-26
[41] 2013-10-31
[62] 2,871,598
[30] US (61/639,632) 2012-04-27
[30] US (61/785,733) 2013-03-14

[21] **3,176,224**
[13] A1
[25] EN
[54] **BENZAMIDE AND ACTIVE COMPOUND COMPOSITIONS AND METHODS OF USE**
[54] **COMPOSITIONS DE COMPOSE ACTIF ET BENZAMIDE ET LEURS METHODES D'UTILISATION**
[72] WANG, TONG, US
[72] GATELY, STEPHEN, US
[72] GONZALES, PAUL, US
[71] TRANSLATIONAL DRUG DEVELOPMENT LLC, US
[22] 2016-05-23
[41] 2016-12-01
[62] 3,025,145
[30] US (62/165,891) 2015-05-22
[30] US (62/167,790) 2015-05-28
[30] US (62/167,794) 2015-05-28
[30] US (62/302,781) 2016-03-02

[21] **3,176,227**
[13] A1
[51] **Int.Cl. A61M 16/16 (2006.01) A61M 16/00 (2006.01) A61M 16/10 (2006.01)**
[25] EN
[54] **ZONE HEATING FOR RESPIRATORY CIRCUITS**
[54] **CHAUFFAGE DE ZONE POUR CIRCUITS RESPIRATOIRES**
[72] TONKIN, PAUL JAMES, NZ
[72] BUSWELL, MATTHEW LIAM, NZ
[72] CUDDY, HELEN, NZ
[72] EDWARDS, THOMAS JAMES, NZ
[72] MILLAR, GAVIN WALSH, NZ
[72] OOSTHUYSEN, HELGARD, NZ
[72] VAN SCHALKWYK, ANDRE, NZ
[72] KWAN, IAN LEE WAI, NZ
[72] SI, PING, NZ
[72] ALNASHI, SINAA, NZ
[72] ORCHARD, KIERAN MICHAEL, NZ
[72] AL-TIAY, IBRAHIM, NZ
[72] STOKS, ELMO BENSON, NZ
[72] NORTH, CHARLES CHRISTOPHER, NZ
[72] WILSON, MATTHEW ROBERT, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2013-11-14
[41] 2014-05-22
[62] 2,891,699
[30] US (61/726,532) 2012-11-14
[30] US (61/786,141) 2013-03-14
[30] US (61/877,736) 2013-09-13
[30] US (61/877,784) 2013-09-13
[30] US (61/877,622) 2013-09-13
[30] US (61/877,566) 2013-09-13

[21] **3,176,232**
[13] A1
[51] **Int.Cl. E21B 43/40 (2006.01) C09K 8/58 (2006.01) E21B 43/241 (2006.01)**
[25] EN
[54] **IN SITU STARTUP PROCESS FOR MOBILIZING BITUMEN IN A RESERVOIR**
[54] **PROCESSUS IN SITU DE DEMARRAGE POUR MOBILISER LE BITUME DANS UN RESERVOIR**
[72] ENGELMAN, RUSSELL, CA
[71] SUNCOR ENERGY INC., CA
[22] 2019-06-19
[41] 2019-12-26
[62] 3,100,928
[30] EP (18179086.6) 2018-06-21

[21] **3,176,235**
[13] A1
[51] **Int.Cl. A61M 16/08 (2006.01) A61M 16/10 (2006.01) A61M 16/16 (2006.01) A61M 39/08 (2006.01)**
[25] EN
[54] **MEDICAL TUBES AND METHODS OF MANUFACTURE**
[54] **TUBES MEDICAUX ET PROCEDES DE FABRICATION**
[72] STOKS, ELMO BENSON, NZ
[72] NORTH, CHARLES CHRISTOPHER, NZ
[72] SUJAU, MAHRAN MAUMOON, NZ
[72] STROOBANT, JOSHUA DANIEL, NZ
[72] MILLAR, GAVIN WALSH, NZ
[72] BUSWELL, MATTHEW LIAM, NZ
[72] AL-TIAY, IBRAHIM, NZ
[72] MCCAULEY, DAVID LEON, NZ
[72] VAN SCHALKWYK, ANDRE, NZ
[72] MUNKELT, KATJA, NZ
[72] WILSON, MATTHEW ROBERT, NZ
[72] OOSTHUYSEN, HELGARD, NZ
[72] PATEL, SANJAY PARAG, NZ
[72] D'ANDREA, DOMINIQUE RICHARD, NZ
[72] DOVER, GRANT MARTIN, NZ
[72] BARKER, DEAN ANTONY, NZ
[72] HARWOOD, JONATHAN DAVID, NZ
[72] AMADIO, CHRISTOPHER JAYE NORMAN, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2013-12-04
[41] 2014-06-12
[62] 3,105,568
[30] US (61/733,359) 2012-12-04
[30] US (61/733,360) 2012-12-04
[30] US (61/877,736) 2013-09-13
[30] US (61/877,784) 2013-09-13
[30] US (61/877,566) 2013-09-13
[30] US (61/877,622) 2013-09-13

[21] **3,176,253**
[13] A1
[25] EN
[54] **USE OF CINNAMIC ACID OR SODIUM BENZOATE FOR TREATING LYSOSOMAL DISORDERS**
[54] **UTILISATION D'ACIDE CINNAMIQUE OU DE BENZOATE DE SODIUM POUR LE TRAITEMENT DES MALADIES LYSOSOMALES**
[72] PAHAN, KALIPADA, US
[71] RUSH MEDICAL UNIVERSITY CENTER, US
[22] 2015-11-16
[41] 2016-05-26
[62] 2,967,066
[30] US (62/081,696) 2014-11-19

[21] **3,176,273**
[13] A1
[51] **Int.Cl. A61M 16/16 (2006.01) A61M 16/08 (2006.01) A62B 9/04 (2006.01) F16L 37/56 (2006.01)**
[25] EN
[54] **HUMIDIFICATION SYSTEM CONNECTIONS**
[54] **RACCORDEMENTS DE SYSTEME D'HUMIFICATION**
[72] OSBORNE, HAMISH ADRIAN, NZ
[72] STANTON, JAMES WILLIAM, NZ
[72] HOLYOAKE, BRUCE GORDON, NZ
[72] EVANS, STEPHEN DAVID, NZ
[72] MCCAULEY, DAVID LEON, NZ
[72] MCKENNA, NICHOLAS JAMES MICHAEL, NZ
[72] MCERMOTT, GARETH THOMAS, NZ
[72] NORTON, MYFANWY JANE ANTICA, NZ
[72] MILLAR, GAVIN WALSH, NZ
[72] MAECKELBERGHE, THOMAS JACQUES FERNAND, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2014-12-19
[41] 2015-06-25
[62] 2,934,235
[30] US (61/919,485) 2013-12-20
[30] US (62/059,339) 2014-10-03

[21] **3,176,275**
[13] A1
[51] **Int.Cl. E21B 36/04 (2006.01) E21B 43/24 (2006.01)**
[25] EN
[54] **CABLE-BASED WELL HEATER**
[54] **CHAUFFE-PUITS A CABLE**
[72] BUJOLD, MAURICE A., CA
[72] BEATTIE, DOUG, CA
[71] ATHABASCA OIL CORPORATION, CA
[22] 2015-02-17
[41] 2015-08-18
[62] 2,882,182
[30] US (61/941,251) 2014-02-18
[30] US (62/080,569) 2014-11-17

[21] **3,176,307**
[13] A1
[51] **Int.Cl. C12P 19/56 (2006.01) A23L 27/30 (2016.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) C07H 15/256 (2006.01) C07K 14/415 (2006.01) C12N 1/19 (2006.01) C12N 5/10 (2006.01) C12N 9/00 (2006.01) C12N 9/02 (2006.01) C12N 9/10 (2006.01) C12N 9/88 (2006.01) C12N 15/52 (2006.01) C12N 15/53 (2006.01) C12N 15/54 (2006.01) C12N 15/60 (2006.01) C12N 15/81 (2006.01) C12N 15/88 (2006.01) C12P 7/42 (2006.01)**
[25] EN
[54] **RECOMBINANT PRODUCTION OF STEVIOL GLYCOSIDES**
[54] **PRODUCTION DE GLYCOSIDES DE STEVIOL PAR RECOMBINAISON**
[72] KISHORE, GANESH M, US
[72] MOTION, MICHAEL, US
[72] HICKS, PAULA M., US
[72] HANSEN, JORGEN, US
[72] HOUGHTON-LARSEN, JENS, US
[72] HANSEN, ESBAN HALKJAER, US
[72] TAVARES, SABRINA, US
[72] BLOM, CHARLOTTE, US
[72] MIKKELSEN, MICHAEL DALGAARD, US
[71] EVOLVA NUTRITION, INC., US
[22] 2011-06-02
[41] 2011-12-08
[62] 2,802,627
[30] US (61/350,553) 2010-06-02
[30] US (61/434,582) 2011-01-20
[30] US (61/471,622) 2011-04-04

[21] **3,176,344**
[13] A1
[51] **Int.Cl. E21B 23/06 (2006.01) E21B 23/00 (2006.01)**
[25] EN
[54] **SETTING TOOLS AND ASSEMBLIES FOR SETTING A DOWNHOLE ISOLATION DEVICE SUCH AS A FRAC PLUG**
[54] **OUTILS ET ENSEMBLES DE REGLAGE POUR LA MISE EN PLACE D`UN DISPOSITIF D`ISOLATION DE FOND DE TROU TEL QU`UN BOUCHON DE FRACTURATION**
[72] MICKEY, CLINT, US
[72] KENDRICK, KENNETH, US
[71] REPEAT PRECISION, LLC, US
[22] 2019-02-13
[41] 2020-04-10
[62] 3,033,698
[30] US (62/743,716) 2018-10-10
[30] US (62/776,503) 2018-12-07

[21] **3,176,365**
[13] A1
[25] EN
[54] **FINE-TUNED ULTRASPECIFIC NUCLEIC ACID HYBRIDIZATION PROBES**
[54] **SONDES D'HYBRIDATION D'ACIDE NUCLEIQUE ULTRA-SPECIFIQUES FINEMENT REGLEES**
[72] ZHANG, DAVID, YU, US
[72] WANG, JUEXIANO, US
[72] WU, RUOJIA, US
[71] WILLIAM MARSH RICE UNIVERSITY, US
[22] 2014-08-27
[41] 2015-06-25
[62] 2,934,226
[30] US (61/916,321) 2013-12-16

[21] **3,176,380**
[13] A1
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TARGETED GENETIC MODIFICATION USING PAIRED GUIDE RNAS**
[54] **PROCEDES ET COMPOSITIONS POUR MODIFICATION GENETIQUE CIBLEE UTILISANT DES ARN GUIDES APPARIES**
[72] MURPHY, ANDREW J., US
[72] FRENDEWEY, DAVID, US
[72] LAI, KA-MAN VENUE, US
[72] AUERBACH, WOJTEK, US
[72] DROGUETT, GUSTAVO, US
[72] GAGLIARDI, ANTHONY, US
[72] VALENZUELA, DAVID M., US
[72] VORONINA, VERA, US
[72] MACDONALD, LYNN, US
[72] YANCOPOULOS, GEORGE D., US
[71] REGENERON PHARMACEUTICALS, INC., US
[22] 2015-11-20
[41] 2016-05-26
[62] 2,968,440
[30] US (62/083,005) 2014-11-21
[30] US (62/182,314) 2015-06-19
[30] US (62/211,421) 2015-08-28

[21] **3,176,397**
[13] A1
[25] EN
[54] **METHOD, SYSTEM AND COMPUTER PROGRAM PRODUCT FOR INTELLIGENT TRACKING AND DATA TRANSFORMATION BETWEEN INTERCONNECTED SENSOR DEVICES OF MIXED TYPE**
[54] **PROCEDE, SYSTEME ET PRODUIT DE PROGRAMME INFORMATIQUE POUR LE SUIVI INTELLIGENT ET LA TRANSFORMATION DES DONNEES ENTRE LES DISPOSITIFS DE CAPTEURS INTERCONNECTES DE TYPE MIXTE**
[72] SABRIPOUR, SHERVIN, US
[72] PRESTON, JOHN B., US
[72] VAN DER ZAAG, BERT, US
[72] KOSKAN, PATRICK D., US
[71] MOTOROLA SOLUTIONS, INC., US
[22] 2020-12-04
[41] 2021-06-20
[62] 3,101,737
[30] US (16/723,958) 2019-12-20

[21] **3,176,406**
[13] A1
[51] **Int.Cl. B29C 44/18 (2006.01) C08J 9/22 (2006.01) C08J 9/40 (2006.01)**
[25] EN
[54] **TEMPLATE-ASSISTED PRODUCTION OF POROUS MATERIALS**
[54] **PRODUCTION DE MATERIAUX POREUX ASSISTEE PAR MATRICE**
[72] KOMON, ZACHARY, US
[72] WYRSTA, MICHAEL, US
[71] AMERICAN AEROGEL CORPORATION, US
[22] 2015-04-23
[41] 2015-10-29
[62] 2,946,746
[30] US (61/982,932) 2014-04-23
[30] US (62/015,340) 2014-06-20

[21] **3,176,428**
[13] A1
[25] EN
[54] **FORMULATIONS FOR ADMINISTRATION OF EFLORNITHINE**
[54] **FORMULATIONS POUR L'ADMINISTRATION D'EFLORNITHINE**
[72] LEVIN, VICTOR A., US
[72] YAM, NOYMI, US
[72] VAKOULA, ALEXANDER, US
[71] ORBUS THERAPEUTICS, INC., US
[22] 2017-09-29
[41] 2018-04-12
[62] 3,038,530
[30] US (62/404,981) 2016-10-06

[21] **3,176,437**
[13] A1
[51] **Int.Cl. A61J 1/20 (2006.01)**
[25] EN
[54] **PRESSURE-REGULATING VIAL ADAPTORS**
[54] **ADAPTATEURS POUR FLACONS DESTINES A REGULER LA PRESSION**
[72] FANGROW, THOMAS F., US
[71] ICU MEDICAL, INC., US
[22] 2012-08-16
[41] 2013-02-21
[62] 2,845,592
[30] US (61/525,126) 2011-08-18
[30] US (61/614,250) 2012-03-22

[21] **3,176,466**
[13] A1
[51] **Int.Cl. A61K 47/14 (2017.01) A61K 9/50 (2006.01) A61K 31/501 (2006.01) A61K 47/10 (2017.01)**
[25] EN
[54] **IMPROVED PHARMACEUTICAL COMPOSITIONS OF PIMOBENDAN**
[54] **COMPOSITIONS PHARMACEUTIQUES AMELIOREES DE PIMOBENDAN**
[72] LACZAY, PETER, HU
[71] BOEHRINGER INGELHEIM VETMEDICA GMBH, DE
[22] 2014-12-01
[41] 2015-06-11
[62] 2,930,033
[30] HU (P1300702) 2013-12-04

[21] **3,176,469**
[13] A1
[25] EN
[54] **SPATIAL MAPPING OF NUCLEIC ACID SEQUENCE INFORMATION**
[54] **CARTOGRAPHIE SPATIALE D'INFORMATIONS DE SEQUENCE D'ACIDE NUCLEIQUE**
[72] SO, ALEX, US
[72] LIU, LI, US
[72] SHEN, MIN-JUI RICHARD, US
[72] SALATHIA, NEERAJ, US
[72] STEPHENS, KATHRYN M., US
[72] JAGER, ANNE, US
[72] WILSON, TIMOTHY, US
[72] FULLERTON, JUSTIN, US
[72] RAMIREZ, SEAN M., US
[72] KAPLAN, SHANNON, US
[72] PANTOJA, RIGO, US
[72] VENKATESAN, BALA MURALI, US
[72] MODIANO, STEVEN, US
[71] ILLUMINA, INC., US
[22] 2016-07-21
[41] 2017-02-02
[62] 2,993,463
[30] US (62/197,389) 2015-07-27
[30] US (62/218,742) 2015-09-15
[30] US (62/250,329) 2015-11-03
[30] US (62/261,707) 2015-12-01
[30] US (62/269,614) 2015-12-18

[21] **3,176,477**
[13] A1
[51] **Int.Cl. A61F 2/02 (2006.01) A61L 27/50 (2006.01) A61M 31/00 (2006.01)**
[25] EN
[54] **IMPLANTABLE ENCAPSULATION DEVICES**
[54] **DISPOSITIFS D'ENCAPSULATION IMPLANTABLES**
[72] CULLY, EDWARD H., US
[72] GUNZEL, EDWARD, US
[72] KNISLEY, KEITH, US
[72] RUSCH, GREG, US
[72] ZAMBOTTI, LAUREN, US
[71] W. L. GORE & ASSOCIATES, INC., US
[22] 2017-11-08
[41] 2018-05-17
[62] 3,042,433
[30] US (62/419,204) 2016-11-08
[30] US (15/806,054) 2017-11-07

[21] **3,176,480**
[13] A1
[51] **Int.Cl. C07D 311/82 (2006.01) A61K 31/352 (2006.01) A61P 25/28 (2006.01) G01N 33/50 (2006.01) G01N 33/53 (2006.01) G01N 33/58 (2006.01)**
[25] EN
[54] **3,6-DISUBSTITUTED XANTHYLIUM SALTS**
[54] **SELS DE XANTHYLIUM SUBSTITUES EN 3 ET 6**
[72] CLUNAS, SCOTT, GB
[72] STOREY, JOHN MERVYN DAVID, GB
[72] RICKARD, JANET ELIZABETH, GB
[72] HORSLEY, DAVID, GB
[72] HARRINGTON, CHARLES ROBERT, GB
[72] WISCHIK, CLAUDE MICHEL, GB
[71] WISTA LABORATORIES LTD., SG
[22] 2009-12-10
[41] 2010-06-17
[62] 3,039,907
[30] US (61/121,288) 2008-12-10

[21] **3,176,484**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR GRINDING**
[54] **SYSTEMES ET PROCEDES DE BROYAGE**
[72] PAVLOVIC, MIROSLAV, US
[72] OBRZUT, TIMOTHY M., US
[72] GRAY, JEFFREY A., US
[71] DIAMOND PRODUCTS LIMITED, US
[22] 2020-12-01
[41] 2022-05-16
[30] US (17/099,044) 2020-11-16

[21] **3,176,491**
[13] A1
[51] **Int.Cl. F24H 1/28 (2006.01) F24H 15/335 (2022.01) F24H 15/36 (2022.01) F24H 1/43 (2006.01) F24H 1/44 (2022.01)**
[25] EN
[54] **WATER HEATER**
[54] **CHAUFFE-EAU**
[72] NIU, ZHONGSHENG, US
[72] SCHULTZ, MICHAEL WILLIAM, US
[72] YANG, MENG, CN
[71] A.O. SMITH CORPORATION, US
[22] 2018-08-01
[41] 2019-02-07
[62] 3,072,186
[30] US (15/669,383) 2017-08-04

[21] **3,176,503**
[13] A1
[25] EN
[54] **POLYNUCLEOTIDE ENRICHMENT USING CRISPR-CAS SYSTEMS**
[54] **ENRICHISSEMENT DE POLYNUCLEOTIDES A L'AIDE DE SYSTEMES CRISPR-CAS**
[72] CANN, GORDON, US
[72] MANDELL, JEFFREY G., US
[72] ARAVANIS, ALEX, US
[72] NORBERG, STEVEN, US
[72] POKHOLOK, DIMITRY K., US
[72] STEEMERS, FRANK J., US
[72] ABSALAN, FARNAZ, US
[72] BAZARGAN, LEILA, US
[71] ILLUMINA, INC, US
[22] 2015-07-20
[41] 2016-01-28
[62] 2,955,382
[30] US (62/027,191) 2014-07-21
[30] US (62/181,084) 2015-06-17

[21] **3,176,517**
[13] A1
[51] **Int.Cl. C12Q 1/70 (2006.01) C12Q 1/6813 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6888 (2018.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR DETECTION OF VIRAL PATHOGENS IN SAMPLES**
[54] **COMPOSITIONS ET PROCEDES DE DETECTION D'AGENTS PATHOGENES VIRAUX DANS DES ECHANTILLONS**
[72] JOST, MATTHIAS, US
[72] DOUGLASS, PAMELA, US
[72] KOLK, DANIEL P., US
[72] MAJLESSI, MEHRDAD R., US
[71] GEN-PROBE INCORPORATED, US
[22] 2018-03-23
[41] 2018-09-27
[62] 3,055,427
[30] US (62/476,659) 2017-03-24

[21] **3,176,525**
[13] A1
[25] EN
[54] **ANTIBODY-MEDIATED NEUTRALIZATION OF CHIKUNGUNYA VIRUS**
[54] **NEUTRALISATION DU VIRUS DU CHIKUNGUNYA A MEDIATION PAR DES ANTICORPS**
[72] CROWE, JR., JAMES, E., US
[72] SMITH, SCOTT, A., US
[72] DERMODY, TERENCE, US
[72] SILVA, LAURIE, US
[71] VANDERBILT UNIVERSITY, US
[22] 2016-04-14
[41] 2016-10-20
[62] 2,982,491
[30] US (62/147,354) 2015-04-14

[21] **3,176,529**
[13] A1
[51] **Int.Cl. C12Q 1/70 (2006.01) C12Q 1/6813 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6888 (2018.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR DETECTION OF VIRAL PATHOGENS IN SAMPLES**
[54] **COMPOSITIONS ET PROCEDES DE DETECTION D'AGENTS PATHOGENES VIRAUX DANS DES ECHANTILLONS**
[72] JOST, MATTHIAS, US
[72] DOUGLASS, PAMELA, US
[72] KOLK, DANIEL P., US
[72] MAJLESSI, MEHRDAD R., US
[71] GEN-PROBE INCORPORATED, US
[22] 2018-03-23
[41] 2018-09-27
[62] 3,055,427
[30] US (62/476,659) 2017-03-24

[21] **3,176,536**
[13] A1
[51] **Int.Cl. C12Q 1/70 (2006.01) C12Q 1/6813 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6888 (2018.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR DETECTION OF VIRAL PATHOGENS IN SAMPLES**
[54] **COMPOSITIONS ET PROCEDES DE DETECTION D'AGENTS PATHOGENES VIRAUX DANS DES ECHANTILLONS**
[72] JOST, MATTHIAS, US
[72] DOUGLASS, PAMELA, US
[72] KOLK, DANIEL P., US
[72] MAJLESSI, MEHRDAD R., US
[71] GEN-PROBE INCORPORATED, US
[22] 2018-03-23
[41] 2018-09-27
[62] 3,055,427
[30] US (62/476,659) 2017-03-24

[21] **3,176,554**
[13] A1
[25] EN
[54] **NATURAL LANGUAGE USER INTERFACE**
[54] **INTERFACE UTILISATEUR EN LANGAGE NATUREL**
[72] RETTIG, RAYMOND F., US
[72] VICKREY, MICHELLE, US
[71] SCHLAGE LOCK COMPANY, US
[22] 2015-06-02
[41] 2015-12-10
[62] 2,956,070
[30] US (62/006,751) 2014-06-02

[21] **3,176,590**
[13] A1
[51] **Int.Cl. A61N 5/06 (2006.01) A61M 21/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS TO PROVIDE CIRCADIAN IMPACT**
[54] **SYSTEMES ET METHODES DE PRESENTATION DE L'IMPACT CIRCADIEN**
[72] CICCARELLI, DAVID P., US
[72] WEISS, DANIEL AARON, US
[72] SUTTLES, BENJAMIN MARSHALL, US
[71] ABL IP HOLDING LLC, US
[22] 2018-05-04
[41] 2018-11-05
[62] 3,003,973
[30] US (62/502,027) 2017-05-05

[21] **3,176,595**
[13] A1
[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/08 (2012.01)**
[25] EN
[54] **PAYMENT SYSTEM BASED ON SHARED FUNDS-MANAGEMENT SERVER, AND METHOD, DEVICE AND SERVER THEREFOR**
[54] **SYSTEME DE PAIEMENT BASE SUR UN SERVEUR DE GESTION DE FONDS PARTAGES, ET PROCEDE, DISPOSITIF ET SERVEUR ASSOCIE**
[72] ZHANG, YI, CN
[71] 10353744 CANADA LTD., CA
[22] 2015-05-28
[41] 2016-11-03
[62] 2,988,815
[30] CN (201510219365.8) 2015-04-30

[21] **3,176,596**
[13] A1
[25] EN
[54] **METHODS FOR FORMULATING ORALLY INGESTIBLE COMPOSITIONS COMPRISING LIPOPHILIC ACTIVE AGENTS**
[54] **PROCEDES POUR LA FORMULATION DE COMPOSITIONS INGERABLES PAR VOIE ORALE COMPRENANT DES AGENTS ACTIFS LIPOPHILES**
[72] DOCHERTY, JOHN, CA
[72] BUNKA, CHRISTOPHER ANDREW, CA
[72] IHRKE, THOMAS JAMES, US
[71] POVIVA CORP., US
[22] 2016-12-01
[41] 2017-06-15
[62] 2,984,915
[30] US (62/264,959) 2015-12-09

[21] **3,176,602**
[13] A1
[51] **Int.Cl. G06Q 40/02 (2012.01)**
[25] EN
[54] **ONLINE LENDING METHOD, AND DATA INTERACTION PROCESSING METHOD, DEVICE AND SYSTEM**
[54] **PROCEDE DE PRET EN LIGNE, ET PROCEDE, DISPOSITIF ET SYSTEME DE TRAITEMENT D'INTERACTION DE DONNEES**
[72] ZHANG, YI, CN
[71] 10353744 CANADA LTD., CA
[22] 2015-05-29
[41] 2016-12-08
[62] 2,987,674

[21] **3,176,610**
[13] A1
[51] **Int.Cl. A61M 15/00 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND METHODS FOR ADHERENCE MONITORING AND PATIENT INTERACTION**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES POUR SURVEILLANCE DE L'ADHESION ET INTERACTION DE PATIENT**
[72] ENGELHARD, YECHIEL, US
[72] MAALOUF, MARK, US
[72] CHIU, MICHAEL, US
[71] GECKO HEALTH INNOVATIONS, INC., US
[22] 2013-06-25
[41] 2014-01-03
[62] 2,877,871
[30] US (61/664,008) 2012-06-25

[21] **3,176,616**
[13] A1
[51] **Int.Cl. G06Q 40/02 (2012.01) G06F 17/00 (2019.01)**
[25] EN
[54] **ONLINE LENDING METHOD, AND DATA INTERACTION PROCESSING METHOD, DEVICE AND SYSTEM**
[54] **PROCEDE DE PRET EN LIGNE, ET PROCEDE, DISPOSITIF ET SYSTEME DE TRAITEMENT D'INTERACTION DE DONNEES**
[72] ZHANG, YI, CN
[71] 10353744 CANADA LTD., CA
[22] 2015-05-29
[41] 2016-12-08
[62] 2,987,675

[21] **3,176,624**
[13] A1
[51] **Int.Cl. G06Q 40/02 (2012.01)**
[25] EN
[54] **LENDING METHOD, AND DATA INTERACTION PROCESING METHOD, DEVICE AND SYSTEM**
[54] **METHODE DE PRET ET METHODE DE TRAITEMENT DE L'INTERACTION DES DONNEES, DISPOSITIF ET SYSTEME**
[72] ZHANG, YI, CN
[71] 10353744 CANADA LTD., CA
[22] 2015-05-29
[41] 2016-12-08
[62] 2,987,677

[21] **3,176,632**
[13] A1
[51] **Int.Cl. F16L 17/04 (2006.01) F16L 21/00 (2006.01) F16L 21/06 (2006.01) F16L 25/12 (2006.01) F16L 25/14 (2006.01)**
[25] EN
[54] **COUPLING HAVING SEAL WITH RETRACTING CENTER LEG**
[54] **COUPLAGE AYANT UN JOINT D'ETANCHEITE AVEC BRANCHE CENTRALE RETRACTABLE**
[72] BANCROFT, PHILIP WAYNE, US
[71] VICTAULIC COMPANY, US
[22] 2018-05-31
[41] 2018-12-06
[62] 3,065,508
[30] US (62/514,229) 2017-06-02

---

[21] **3,176,633**
[13] A1
[51] **Int.Cl. A61M 25/02 (2006.01) A61F 2/95 (2013.01) A61M 25/04 (2006.01)**
[25] EN
[54] **DEVICE FOR STABILIZING CATHETERS AND METHOD OF USE THEREOF**
[54] **DISPOSITIF POUR STABILISER DES CATHETERS ET METHODE D'UTILISATION**
[72] SKARSGARD, PETER LLOYD, CA
[72] GOMES, JOASH, CA
[71] VESALIUS CARDIOVASCULAR INC., CA
[22] 2021-12-13
[41] 2022-06-18
[62] 3,157,546
[30] US (63/127,471) 2020-12-18

---

[21] **3,176,641**
[13] A1
[51] **Int.Cl. G06Q 40/02 (2012.01)**
[25] EN
[54] **LENDING METHOD, AND DATA INTERACTION PROCESSING METHOD, DEVICE AND SYSTEM**
[54] **METHODE DE PRET ET METHODE DE TRAITEMENT DE L'INTERACTION DES DONNEES, DISPOSITIF ET SYSTEME**
[72] ZHANG, YI, CN
[71] 10353744 CANADA LTD., CA
[22] 2015-05-29
[41] 2016-12-08
[62] 2,987,677

---

[21] **3,176,645**
[13] A1
[51] **Int.Cl. A01N 1/02 (2006.01) C12M 3/00 (2006.01) C12Q 1/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR EX VIVO LUNG CARE**
[54] **SYSTEMES ET METHODES DE SOINS PULMONAIRES EX VIVO**
[72] FISHMAN, ROBERT, US
[72] HAVENER, ROBERT, US
[72] FATTAH, IHAB ABDEL, US
[72] ABDELAZIM, ANAS, US
[72] NEWELL, SCOTT, US
[72] BISHOP, TOM, US
[72] KHAYAL, TAMER, US
[72] KYI, STANLEY, US
[72] TAYLOR, RONALD, US
[72] HARRIOTT, DOUG, US
[72] DE REMER, MATTHEW, US
[72] MURRAY, PAUL, US
[72] SULLIVAN, JOHN, US
[72] ANDERSON, MARK, US
[72] BRINGHAM, RICHARD, US
[72] VAN DRIEL, MICHAEL, IT
[72] HASSANEIN, WALEED, US
[71] TRANSMEDICS, INC., US
[22] 2009-01-30
[41] 2009-08-13
[62] 3,015,816
[30] US (61/024,976) 2008-01-31
[30] US (12/099,725) 2008-04-08
[30] US (12/099,717) 2008-04-08
[30] US (12/099,687) 2008-04-08
[30] US (12/099,715) 2008-04-08
[30] US (12/099,728) 2008-04-08

---

[21] **3,176,646**
[13] A1
[25] EN
[54] **NON-INTRUSIVE PIPE WALL DIAGNOSTICS**
[54] **DIAGNOSTIC NON INTRUSIF DE PAROI DE TUYAU**
[72] RUD, JASON H., US
[72] TRIMBLE, STEVEN R., US
[71] ROSEMOUNT INC., US
[22] 2019-03-15
[41] 2019-09-26
[62] 3,094,799
[30] US (15/934,101) 2018-03-23

---

[21] **3,176,650**
[13] A1
[51] **Int.Cl. B23D 47/02 (2006.01) B23D 45/04 (2006.01) B27B 5/29 (2006.01) B27B 5/36 (2006.01)**
[25] EN
[54] **MITER SAW**
[54] **SCIE A ONGLET**
[72] DUTTERER, DAVID, US
[72] HART, MICHAEL, US
[71] TECHTRONIC POWER TOOLS TECHNOLOGY LIMITED, VG
[22] 2015-12-03
[41] 2016-07-14
[62] 2,913,975
[30] US (14/596,614) 2015-01-14

[21] **3,176,652**
[13] A1
[51] **Int.Cl. A61M 16/16 (2006.01) A61M 16/08 (2006.01) A61M 16/10 (2006.01) A62B 9/04 (2006.01) F16L 37/56 (2006.01)**
[25] EN
[54] **CIRCUIT CONNECTOR FOR A HUMIDIFICATION SYSTEM**
[54] **CONNECTEUR DE CIRCUITS POUR SYSTEME D'HUMIDIFICATION**
[72] OSBORNE, HAMISH, NZ
[72] MILLAR, GAVIN WALSH, NZ
[72] EVANS, STEPHEN DAVID, NZ
[72] HOLYOAKE, BRUCE GORDON, NZ
[72] STANTON, JAMES WILLIAM, NZ
[72] MCCAULEY, DAVID LEON, NZ
[72] MCDERMOTT, GARETH THOMAS, NZ
[72] MCKENNA, NICHOLAS JAMES MICHAEL, NZ
[72] NORTON, MYFANWY JANE ANTICA, NZ
[72] ELSWORTH, ADRIAN JOHN, NZ
[72] ANDERSEN, MICHAEL JOHN, NZ
[72] LAMBERT, JONATHAN ANDREW GEORGE, NZ
[72] GURM, SANDEEP SINGH, NZ
[72] PARIS, TESSA HAZEL, NZ
[72] GRIFFITHS, JOSEPH NATHANIEL, NZ
[72] SI, PING, NZ
[72] SIMS, CHRISTOPHER GARETH, NZ
[72] STOKS, ELMO BENSON, NZ
[72] CHEUNG, DEXTER CHI LUN, NZ
[72] SEEKUP, PETER ALAN, NZ
[72] LIU, PO-YEN DAVID, NZ
[72] LANG, RICHARD EDWARD, NZ
[72] TONKIN, PAUL JAMES, NZ
[72] KWAN, IAN LEE WAI, NZ
[71] FISHER AND PAYKEL HEALTHCARE LIMITED, NZ
[22] 2014-09-15
[41] 2015-03-19
[62] 3,166,029
[30] US (61/877,784) 2013-09-13
[30] US (61/877,736) 2013-09-13
[30] US (61/877,622) 2013-09-13
[30] US (61/877,566) 2013-09-13
[30] US (61/919,485) 2013-12-20
[30] US (62/024,969) 2014-07-15
[30] US (62/032,462) 2014-08-01

[21] **3,176,660**
[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01) A61K 35/768 (2015.01) A61K 35/74 (2015.01) A61K 38/17 (2006.01) A61K 39/02 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 14/46 (2006.01) C07K 14/465 (2006.01) C07K 14/47 (2006.01) C07K 19/00 (2006.01) C12N 1/21 (2006.01) C12N 15/12 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **IMMUNOSTIMULATORY BACTERIA ENGINEERED TO COLONIZE TUMORS, TUMOR-RESIDENT IMMUNE CELLS, AND THE TUMOR MICROENVIRONMENT**
[54] **BACTERIES IMMUNOSTIMULATRICES MODIFIEES EN VUE DE COLONISER DES TUMEURS, DES CELLULES IMMUNITAIRES RESIDANT DANS UNE TUMEUR ET LE MICROENVIRONNEMENT TUMORAL**
[72] THANOS, CHRISTOPHER D., US
[72] GLICKMAN, LAURA HIX, US
[72] SKOBLE, JUSTIN, US
[72] IANNELLO, ALEXANDRE, US
[72] KEHOE, HAIXING, US
[71] ACTYM THERAPEUTICS, INC., US
[22] 2020-02-27
[41] 2020-09-03
[62] 3,131,017
[30] US (62/811,521) 2019-02-27
[30] US (62/828,990) 2019-04-03
[30] US (62/934,478) 2019-11-12
[30] US (62/962,140) 2020-01-16

[21] **3,176,668**
[13] A1
[51] **Int.Cl. A61M 39/08 (2006.01) A61M 16/16 (2006.01) F16L 11/04 (2006.01) F16L 11/24 (2006.01)**
[25] EN
[54] **RESPIRATORY GAS HUMIDIFICATION SYSTEM**
[54] **SYSTEME D'HUMIDIFICATION DE GAZ RESPIRATOIRE**
[72] STOKS, ELMO BENSON, NZ
[72] NORTH, CHARLES CHRISTOPHER, NZ
[72] OSBORNE, HAMISH, NZ
[72] VADNERKAR, ABHISHEK, NZ
[72] KEHOE, JIM, NZ
[72] LIU, PO-YEN (DAVID), NZ
[72] JACKSON, JOHN JAMES, NZ
[72] SHVARCHUCK, IGOR YEVGENIIOVICH, NZ
[72] SUJAU, MAHRAN MAUMOON, NZ
[72] PATEL, SANJAY PARAG, NZ
[72] CHEUNG, MAN KIT JACKY, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2013-03-15
[41] 2013-09-19
[62] 3,123,569
[30] US (61/611,331) 2012-03-15
[30] US (61/722,659) 2012-11-05
[30] US (61/733,360) 2012-12-04
[30] US (61/733,359) 2012-12-04

[21] **3,176,672**
[13] A1
[25] EN
[54] **POWER TRACK ASSEMBLY AND ACCESSORY BASE THEREFORE**
[54] **ENSEMBLE CHEMIN D'ALIMENTATION ET BASE D'ACCESSOIRE ASSOCIEE**
[72] TAYLOR, BRENT ALAN, US
[72] MEYERS, CLAYTON HENDRY, US
[72] BECKER, KENT A., US
[71] DOMETIC CORPORATION, US
[22] 2015-05-15
[41] 2015-11-19
[62] 2,948,856
[30] US (14/278,180) 2014-05-15
[30] US (62/084,226) 2014-11-25

[21] **3,176,674**
[13] A1
[25] EN
[54] **HOMOGENOUS CANNABIS COMPOSITIONS AND METHODS OF MAKING THE SAME**
[54] **COMPOSITIONS DE CANNABIS HOMOGENES ET METHODES DE PREPARATION**
[72] GOLDSTEIN, JEREMY H., US
[72] SINGER, JUSTIN ERIC, US
[72] VERWOLF, ADRIAN, US
[72] NICODEMUS, GARRET, US
[71] 5071, INC., US
[22] 2016-03-30
[41] 2016-11-24
[62] 2,985,332
[30] US (62/163,316) 2015-05-18
[30] US (15/084,954) 2016-03-30

[21] **3,176,676**
[13] A1
[51] **Int.Cl. A61B 17/70 (2006.01) A61B 17/02 (2006.01) A61B 17/86 (2006.01) A61B 17/88 (2006.01)**
[25] EN
[54] **DYNAMIC STABILIZATION SYSTEMS AND ASSOCIATED METHODS**
[54]
[72] ZIEMEK, TERRY, US
[72] MAST, RANDALL G., US
[72] CAPOTE, ALLISON CHRISTINE, US
[71] ZIMMER BIOMET SPINE, INC., US
[22] 2018-08-29
[41] 2019-03-07
[62] 3,072,758
[30] US (62/551,845) 2017-08-30

[21] **3,176,689**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR DYNAMICALLY ADJUSTING DISPLAY CONTENT AND PARAMETERS ON A DISPLAY DEVICE**
[54] **SYSTEMES ET PROCEDES D'AJUSTEMENT DYNAMIQUE DE PARAMETRES ET DE CONTENU D'AFFICHAGE SUR UN DISPOSITIF D'AFFICHAGE**
[72] SAWYER, RICK, US
[72] MENDELL, JORDAN, US
[71] DRAFTKINGS, INC., US
[22] 2019-09-04
[41] 2020-04-30
[62] 3,111,635
[30] US (62/726,711) 2018-09-04

[21] **3,176,690**
[13] A1
[51] **Int.Cl. C12N 15/10 (2006.01) C12N 15/113 (2010.01) C12N 1/19 (2006.01) C12N 5/10 (2006.01) C12N 9/22 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **RNA-GUIDED TRANSCRIPTIONAL REGULATION**
[54] **REGULATION DE LA TRANSCRIPTION A GUIDAGE ARN**
[72] CHURCH, GEORGE M., US
[72] MALI, PRASHANT G., US
[72] ESVELT, KEVIN M., US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[22] 2014-06-04
[41] 2014-12-11
[62] 2,914,638
[30] US (61/830,787) 2013-06-04

[21] **3,176,693**
[13] A1
[51] **Int.Cl. A47C 1/00 (2006.01) A47C 1/022 (2006.01) A47C 1/03 (2006.01)**
[25] EN
[54] **CHAIR FOR SUPPORTING A PERSON WHO IS FEEDING A BABY**
[54] **CHAISE POUVANT SUPPORTER UNE PERSONNE QUI NOURRIT UN BEBE**
[72] FIETZ, MELISSA, CA
[72] ERICKSON, JOSHUA GREGG, CA
[72] LOOKER, ADAM, CA
[71] FIETZ, MELISSA, CA
[22] 2019-10-01
[41] 2020-04-01
[62] 3,057,170
[30] US (62/739613) 2018-10-01

[21] **3,176,696**
[13] A1
[25] EN
[54] **RECEPTACLE TRANSPORT SYSTEM FOR AN ANALYTICAL SYSTEM**
[54] **SYSTEME DE TRANSPORT DE RECEPTACLE POUR SYSTEME ANALYTIQUE**
[72] SILBERT, ROLF, US
[72] PENG, HONGRAN, US
[72] BUSE, DAVID AARON, US
[72] COMBS, DAVID H., US
[71] GEN-PROBE INCORPORATED, US
[22] 2020-04-29
[41] 2020-11-12
[62] 3,137,749
[30] US (62/842,585) 2019-05-03
[30] US (62/951,019) 2019-12-20

[21] **3,176,699**
[13] A1
[25] EN
[54] **RECEPTACLE TRANSPORT SYSTEM FOR AN ANALYTICAL SYSTEM**
[54] **SYSTEME DE TRANSPORT DE RECEPTACLE POUR SYSTEME ANALYTIQUE**
[72] SILBERT, ROLF, US
[72] PENG, HONGRAN, US
[72] BUSE, DAVID AARON, US
[72] COMBS, DAVID H., US
[71] GEN-PROBE INCORPORATED, US
[22] 2020-04-29
[41] 2020-11-12
[62] 3,137,749
[30] US (62/842,585) 2019-05-03
[30] US (62/951,019) 2019-12-20

[21] **3,176,703**
[13] A1
[25] EN
[54] **RECEPTACLE TRANSPORT SYSTEM FOR ANALYTICAL SYSTEM**
[54] **SYSTEME DE TRANSPORT DE RECEPTACLE POUR SYSTEME ANALYTIQUE**
[72] SILBERT, ROLF, US
[72] PENG, HONGRAN, US
[72] BUSE, DAVID AARON, US
[72] COMBS, DAVID H., US
[71] GEN-PROBE INCORPORATED, US
[22] 2020-04-29
[41] 2020-11-12
[62] 3,137,749
[30] US (62/842,585) 2019-05-03
[30] US (62/951,019) 2019-12-20

[21] **3,176,704**
[13] A1
[51] **Int.Cl. B29C 64/209 (2017.01)**
[25] EN
[54] **SYSTEM AND PRINT HEAD FOR ADDITIVE MANUFACTURING SYSTEM**
[54] **SYSTEME ET TETE D'IMPRESSION POUR SYSTEME DE FABRICATION ADDITIVE**
[72] BUDGE, TREVOR DAVID, US
[72] STOCKETT, RYAN C., US
[72] ALVARADO, TYLER, US
[72] TYLER, KENNETH LYLE, US
[72] HAMBLING, COLIN HUGH, US
[72] DUNHAM, BRIAN, US
[72] STRANBERG, NATHAN ANDREW, US
[71] CONTINUOUS COMPOSITES INC., US
[22] 2019-04-03
[41] 2019-10-17
[62] 3,096,664
[30] US (62/656,155) 2018-04-11
[30] US (16/368,776) 2019-03-28

[21] **3,176,706**
[13] A1
[25] EN
[54] **MESENCHYMAL-LIKE STEM CELLS DERIVED FROM HUMAN EMBRYONIC STEM CELLS, METHODS AND USES THEREOF**
[54] **CELLULES SOUCHES DE TYPE MESENCHYMATEUSES ISSUES DE CELLULES SOUCHES EMBRYONNAIRES HUMAINES, LEURS PROCEDES ET LEURS UTILISATIONS**
[72] WANG, XIAOFANG, US
[72] XU, REN-HE, US
[71] IMSTEM BIOTECHNOLOGY, INC., US
[22] 2013-07-11
[41] 2014-01-16
[62] 2,876,512
[30] US (61/670,192) 2012-07-11
[30] US (61/684,509) 2012-08-17

[21] **3,176,707**
[13] A1
[25] EN
[54] **METHODS OF USING ZSCAN4 FOR REJUVENATING HUMAN CELLS**
[54] **PROCEDES D'UTILISATION DE ZSCAN4 AFIN DE RAJEUNIR DES CELLULES HUMAINES**
[72] KO, MINORU S.H., US
[71] ELIXIRGEN THERAPEUTICS, INC., US
[22] 2014-03-14
[41] 2014-09-18
[62] 2,906,213
[30] US (61/800,668) 2013-03-15

[21] **3,176,709**
[13] A1
[51] **Int.Cl. A61M 11/04 (2006.01) A24F 40/10 (2020.01) A24F 40/20 (2020.01) A24F 19/12 (2006.01) A61M 15/00 (2006.01) A61M 15/06 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE**
[72] BUCHBERGER, HELMUT, AT
[71] NICOVENTURES TRADING LIMITED, GB
[22] 2015-07-31
[41] 2016-02-18
[62] 3,119,414
[30] GB (1414331.7) 2014-08-13

[21] **3,176,712**
[13] A1
[25] EN
[54] **METHODS OF USING ZSCAN4 FOR REJUNEVATING HUMAN CELLS**
[54] **PROCEDES D'UTILISATION DE ZSCAN4 AFIN DE RAJEUNIR DES CELLULES HUMAINES**
[72] KO, MINORU S. H., US
[71] ELIXIRGEN THERAPEUTICS, INC., US
[22] 2014-03-14
[41] 2014-09-18
[62] 2,906,213
[30] US (61/800,668) 2013-03-15

[21] **3,176,726**
[13] A1
[51] **Int.Cl. G06Q 20/38 (2012.01)**
[25] EN
[54] **ELECTRONIC CERTIFICATE-BASED PAYMENT SYSTEM**
[54] **SYSTEME DE PAIEMENT BASE SUR UN CERTIFICAT ELECTRONIQUE**
[72] ZHANG, YI, CN
[71] 10353744 CANADA LTD., CA
[22] 2014-09-12
[41] 2016-03-17
[62] 2,997,808

[21] **3,176,731**
[13] A1
[51] **Int.Cl. B65G 17/06 (2006.01) B65G 17/30 (2006.01) B65G 19/08 (2006.01) B65G 19/20 (2006.01) B65G 19/22 (2006.01) B65G 19/24 (2006.01) F16G 13/06 (2006.01) F16G 13/10 (2006.01) F16G 15/12 (2006.01)**
[25] EN
[54] **CHAIN CONVEYOR**
[54] **CONVOYEUR A CHAINE**
[72] WALKER, AARON PHILIP, US
[72] STEWART, CHRISTOPHER GEORGE, US
[71] JOY GLOBAL UNDERGROUND MINING LLC, US
[22] 2018-03-06
[41] 2018-09-13
[62] 3,055,208
[30] US (62/467,766) 2017-03-06
[30] US (62/467,761) 2017-03-06
[30] US (62/467,767) 2017-03-06
[30] US (62/467,769) 2017-03-06
[30] US (62/467,773) 2017-03-06
[30] US (62/467,770) 2017-03-06

[21] **3,176,732**
[13] A1
[25] EN
[54] **ELECTRONIC CERTIFICATE-BASED PAYMENT SYSTEM**
[54] **SYSTEME DE PAIEMENT BASE SUR UN CERTIFICAT ELECTRONIQUE**
[72] ZHANG, YI, CN
[71] 10353744 CANADA LTD., CA
[22] 2014-09-12
[41] 2016-03-17
[62] 2,997,808

[21] **3,176,733**
[13] A1
[51] **Int.Cl. A01C 21/00 (2006.01) A01C 7/00 (2006.01)**
[25] EN
[54] **SYSTEM AND PROCESS FOR DISPENSING MULTIPLE AND LOW RATE AGRICULTURAL PRODUCTS**
[54] **SYSTEME ET PROCEDE POUR DISTRIBUER DE MULTIPLES PRODUITS AGRICOLES A FAIBLE TAUX**
[72] CONRAD, LARRY M., US
[72] RYSDAM, REX A., US
[72] CLAUSSEN, NATHANIEL R., US
[72] PORTER, RICHARD M., US
[71] AMVAC HONG KONG LIMITED, HK
[22] 2014-10-23
[41] 2015-04-30
[62] 2,928,080
[30] US (61/895,803) 2013-10-25
[30] US (14/468,973) 2014-08-26
[30] US (62/048,628) 2014-09-10

[21] **3,176,740**
[13] A1
[51] **Int.Cl. F21V 21/04 (2006.01) F21V 29/70 (2015.01) F21V 29/77 (2015.01) F21S 8/02 (2006.01) F21V 15/01 (2006.01)**
[25] EN
[54] **CEILING-MOUNTED LED LIGHT ASSEMBLY**
[54] **ASSEMBLAGE DE LUMIERE A DEL MONTE AU PLAFOND**
[72] DAVID, NORM, CA
[72] SANABIO, IGOR, CA
[72] JENSEN, RUSS, CA
[71] LIGHTHEADED LIGHTING LTD., CA
[22] 2021-04-12
[41] 2022-10-12
[62] 3,114,542

[21] **3,176,741**
[13] A1
[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/08 (2012.01)**
[25] EN
[54] **ELECTRONIC CERTIFICATE-BASED PAYMENT SYSTEM**
[54] **SYSTEME DE PAIEMENT BASE SUR UN CERTIFICAT ELECTRONIQUE**
[72] ZHANG, YI, CN
[71] 10353744 CANADA LTD., CA
[22] 2014-09-12
[41] 2016-03-17
[62] 2,997,808

[21] **3,176,744**
[13] A1
[51] **Int.Cl. F16G 13/10 (2006.01) B65G 17/06 (2006.01) F16G 13/06 (2006.01) F16G 13/18 (2006.01)**
[25] EN
[54] **CHAIN CONVEYOR AND COUPLER LINK FOR SAME**
[54] **TRANSPORTEUR A CHAINES ET LIAISON D'ACCOUPLEMENT POUR CELUI-CI**
[72] WALKER, AARON PHILIP, US
[72] STEWART, CHRISTOPHER GEORGE, US
[71] JOY GLOBAL UNDERGROUND MINING LLC, US
[22] 2018-03-06
[41] 2018-09-13
[62] 3,055,207
[30] US (62/467,761) 2017-03-06
[30] US (62/467,767) 2017-03-06
[30] US (62/467,766) 2017-03-06
[30] US (62/467,769) 2017-03-06
[30] US (62/467,773) 2017-03-06
[30] US (62/467,770) 2017-03-06

[21] **3,176,770**
[13] A1
[25] EN
[54] **SETTLEMENT SYSTEM AND SETTLEMENT METHOD**
[54] **SYSTEME DE REGLEMENT ET PROCEDE DE REGLEMENT**
[72] ARIKAWA, SHINICHIROU, JP
[72] FUJIYOSHI, EIJI, JP
[71] 10353744 CANADA LTD., CA
[22] 2014-12-24
[41] 2016-06-30
[62] 3,117,373

[21] **3,176,773**
[13] A1
[51] **Int.Cl. G07C 1/30 (2006.01) G07F 17/24 (2006.01)**
[25] EN
[54] **SINGLE SPACE PARKING METER RETROFIT**
[54] **RENOVATION D'UN PARCOMETRE POUR ESPACE UNIQUE**
[72] MACKAY, GEORGE, CA
[72] MACKAY, JAMES GEORGE, CA
[72] O'NEIL, ADRIAN IGNATIUS, CA
[72] COSH, ROBERT STEVEN, CA
[72] CAMERON, DARREN SCOTT, CA
[72] CHAUVIN, GREGORY EMILE, CA
[72] MCMULLIN, DAVID ANDREW, CA
[72] BROWN, MICHAEL, CA
[72] WATSON, MATTHEW, CA
[71] J.J. MACKAY CANADA LIMITED, CA
[22] 2015-08-11
[41] 2017-02-11
[62] 2,900,177

[21] **3,176,776**
[13] A1
[25] EN
[54] **PERFUSION MANIFOLD ASSEMBLY**
[54] **ENSEMBLE COLLECTEUR DE PERFUSION**
[72] LEVNER, DANIEL, US
[72] SLIZ, JOSIAH DANIEL, US
[72] HINOJOSA, CHRISTOPHER DAVID, US
[72] THOMPSON II, GUY ROBERT, US
[72] MARTINUS VAN RUIJVEN, PETRUS, AU
[72] SOLOMON, MATTHEW DANIEL, AU
[72] POTZNER, CHRISTIAN ALEXANDER, AU
[72] TUOHY, PATRICK SEAN, AU
[72] WEN, NORMAN, US
[72] GOMES, JOSHUA, US
[72] FREAKE, JACOB, US
[72] SABIN, DOUG, US
[71] EMULATE, INC., US
[22] 2016-08-26
[41] 2017-03-02
[62] 3,053,745
[30] US (62/210,122) 2015-08-26
[30] US (62/250,861) 2015-11-04
[30] US (62/361,244) 2016-07-12
[30] US (62/366,482) 2016-07-25

[21] **3,176,778**
[13] A1
[51] **Int.Cl. G06Q 40/02 (2012.01) G06F 16/90 (2019.01)**
[25] EN
[54] **INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND COMPUTER PROGRAM BACKGROUND**
[54] **DISPOSITIF ET METHODE DE TRAITEMENT DE L'INFORMATION ET ARRIERE-PLAN DE PROGRAMME**
[72] HOSHINO, TAKAHARU, JP
[71] 10353744 CANADA LTD., CA
[22] 2017-02-14
[41] 2017-08-24
[62] 3,137,858
[30] JP (PCT/JP2016/054702) 2016-02-18

[21] **3,176,780**
[13] A1
[51] **Int.Cl. A61M 16/06 (2006.01) A61B 18/08 (2006.01) A61F 5/56 (2006.01)**
[25] EN
[54] **AUTOMATICALLY ADJUSTING HEADGEAR FOR PATIENT INTERFACE**
[54] **GARNITURE DE TETE A AJUSTEMENT AUTOMATIQUE POUR UNE INTERFACE PATIENT**
[72] MCLAREN, MARK ARVIND, NZ
[72] HAMMER, JEROEN, NZ
[72] KAPELEVICH, VITALY, NZ
[72] HUDDART, BRETT JOHN, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2014-04-24
[41] 2014-10-30
[62] 3,101,155
[30] US (61/815,624) 2013-04-24
[30] US (61/866,926) 2013-08-16
[30] US (61/866,953) 2013-08-16
[30] US (61/871,789) 2013-08-29
[30] US (61/945,727) 2014-02-27

[21] **3,176,781**
[13] A1
[51] **Int.Cl. A61F 2/48 (2006.01) A61F 2/30 (2006.01) A61F 2/38 (2006.01)**
[25] EN
[54] **INTELLIGENT JOINT PROSTHESIS**
[54] **PROTHESE ARTICULAIRE INTELLIGENTE**
[72] CUSHNER, FRED, US
[72] AUBIN, PATRICK M., US
[72] GROSS, JEFFREY M., US
[72] SCHILLER, PETER J., US
[72] HUNTER, WILLIAM L., CA
[71] CANARY MEDICAL INC., CA
[22] 2020-06-06
[41] 2020-12-10
[62] 3,142,442
[30] US (62/858,277) 2019-06-06

[21] **3,176,783**
[13] A1
[51] **Int.Cl. E21B 6/02 (2006.01) E21B 4/10 (2006.01) E21B 10/14 (2006.01) E21B 10/26 (2006.01) E21B 10/40 (2006.01) F16H 25/00 (2006.01)**
[25] EN
[54] **BORING APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE FORAGE**
[72] VON GYNZ-REKOWSKI, GUNTHER HH, US
[72] WILLIAMS, MICHAEL V., US
[71] ASHMIN HOLDING LLC, US
[22] 2015-10-01
[41] 2016-04-21
[62] 2,961,574
[30] US (62/065,372) 2014-10-17
[30] US (14/864,016) 2015-09-24

[21] **3,176,794**
[13] A1
[51] **Int.Cl. G06Q 40/02 (2012.01) G06Q 40/06 (2012.01)**
[25] EN
[54] **FRACTIONAL FUNDS TRANSFER/ACCUMULATION DEVICE, PROGRAM, AND METHOD**
[54] **DISPOSITIF, PROGRAMME ET PROCEDE DE TRANSFERT/ACCUMULATION DE FONDS FRACTIONNAIRES**
[72] TANAKA, TATUSO, JP
[72] HIGUCHI, YOSHINOBU, JP
[71] 10353744 CANADA LTD., CA
[22] 2017-03-31
[41] 2017-11-30
[62] 3,023,834
[30] JP (2016-106202) 2016-05-27

[21] **3,176,795**
[13] A1
[51] **Int.Cl. G06T 13/20 (2011.01) G06T 17/20 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR PERFORMING MOTION CAPTURE USING SHUTTER SYNCHRONIZATION**
[54] **APPAREIL ET METHODE PERMETTANT DE CAPTER LE MOUVEMENT PAR LA SYNCHRONISATION D'OBTURATEURS**
[72] LASALLE, GREG, US
[72] VAN DER LAAN, ROGER, US
[72] PERLMAN, STEPHEN G., US
[72] SPECK, JOHN, US
[72] COTTER, TIMOTHY S., US
[72] PEARCE, KENNETH A., US
[71] REARDEN MOVA, LLC, US
[22] 2005-09-13
[41] 2006-09-10
[62] 2,973,956
[30] US (11/077,628) 2005-03-10

[21] **3,176,801**
[13] A1
[51] **Int.Cl. G16H 40/67 (2018.01) A61B 5/11 (2006.01) A61F 2/30 (2006.01) A61F 2/38 (2006.01)**
[25] EN
[54] **INTELLIGENT JOINT PROSTHESIS**
[54] **PROTHESE ARTICULAIRE INTELLIGENTE**
[72] CUSHNER, FRED, US
[72] AUBIN, PATRICK M., US
[72] GROSS, JEFFREY M., US
[72] SCHILLER, PETER J., US
[72] HUNTER, WILLIAM L., CA
[71] CANARY MEDICAL INC., CA
[22] 2020-06-06
[41] 2020-12-10
[62] 3,142,442
[30] US (62/858,277) 2019-06-06

[21] **3,176,812**
[13] A1
[51] **Int.Cl. C12N 1/21 (2006.01) C12N 15/113 (2010.01) A61K 31/713 (2006.01) A61K 35/74 (2015.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 14/52 (2006.01) C07K 16/22 (2006.01) C12N 15/10 (2006.01) C12N 15/13 (2006.01) C12N 15/19 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **ENGINEERED IMMUNOSTIMULATORY BACTERIAL STRAINS AND USES THEREOF**
[54] **SOUCHES BACTERIENNES IMMUNOSTIMULATRICES MODIFIEES ET UTILISATIONS ASSOCIEES**
[72] THANOS, CHRISTOPHER D., US
[72] GLICKMAN, LAURA HIX, US
[72] SKOBLE, JUSTIN, US
[72] IANNELLO, ALEXANDRE CHARLES MICHEL, US
[71] ACTYM THERAPEUTICS, INC., US
[22] 2019-07-11
[41] 2020-01-16
[62] 3,106,143
[30] US (PCT/US2018/041713) 2018-07-11
[30] US (16/033,187) 2018-07-11
[30] US (62/789,983) 2019-01-08
[30] US (62/828,990) 2019-04-03

[21] **3,176,825**
[13] A1
[25] EN
[54] **METHODS OF USING ZSCAN4 FOR REJUVENATING HUMAN CELLS**
[54] **PROCEDES D'UTILISATION DE ZSCAN4 AFIN DE RAJEUNIR DES CELLULES HUMAINES**
[72] KO, MINORU S.H., US
[71] ELIXIRGEN THERAPEUTICS, INC., US
[22] 2014-03-14
[41] 2014-09-18
[62] 2,906,213
[30] US (61/800,668) 2013-03-15

[21] **3,176,829**
[13] A1
[25] EN
[54] **ELECTRICAL DOCKING STATION**
[54] **STATION D`ACCUEIL ELECTRIQUE**
[72] SUNDE, JONATHAN A., US
[72] SMITH, JARED A., US
[72] HEBEL, GRIFFIN A., US
[71] TRYSTAR, LLC, US
[22] 2019-11-29
[41] 2020-05-30
[62] 3,067,399
[30] US (62/773,556) 2018-11-30
[30] US (16/698,667) 2019-11-27

[21] **3,176,832**
[13] A1
[51] **Int.Cl. A61L 15/20 (2006.01)**
[25] EN
[54] **ABSORBENT PRODUCTS FOR ARTICLES OF CLOTHING**
[54] **INSERTS ABSORBANTS POUR ARTICLES VESTIMENTAIRES**
[72] LEDUC, STEVE, CA
[72] THEBERGE, FANNY-MAUDE, CA
[71] BOUTIQUE LA VIE EN ROSE INC., CA
[22] 2017-08-28
[41] 2018-03-08
[62] 3,035,395
[30] US (62/494,939) 2016-08-29
[30] US (62/477,654) 2017-03-28

[21] **3,176,838**
[13] A1
[51] **Int.Cl. C23F 11/04 (2006.01) C09K 3/00 (2006.01)**
[25] EN
[54] **NOVEL CORROSION INHIBITION PACKAGE**
[54] **NOUVEAU PACK ANTICORROSION**
[72] PURDY, CLAY, CA
[72] WEISSENBERGER, MARKUS, CA
[71] FLUID ENERGY GROUP LTD., CA
[22] 2018-02-02
[41] 2018-08-09
[62] 3,051,911
[30] CA (2,956,939) 2017-02-03

[21] **3,176,841**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND APPARATUSES FOR PERFORMING AUTOMATED REAGENT-BASED ASSAYS**
[54] **SYSTEMES, PROCEDES ET APPAREILS POUR EFFECTUER DES DOSAGES AUTOMATISES A BASE DE REACTIF**
[72] KNIGHT, BYRON J., US
[72] BUSE, DAVID, US
[72] GROELI, JULIAN, US
[71] GEN-PROBE INCORPORATED, US
[22] 2014-03-13
[41] 2014-09-25
[62] 3,078,500
[30] US (61/782,320) 2013-03-14

[21] **3,176,843**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01) G01N 35/00 (2006.01) G01N 35/02 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND APPARATUSES FOR PERFORMING AUTOMATED REAGENT-BASED ASSAYS**
[54] **SYSTEMES, PROCEDES ET APPAREILS POUR EFFECTUER DES DOSAGES AUTOMATISES A BASE DE REACTIF**
[72] KNIGHT, BYRON J., US
[72] BUSE, DAVID, US
[72] GROELI, JULIAN, US
[71] GEN-PROBE INCORPORATED, US
[22] 2014-03-13
[41] 2014-09-25
[62] 3,078,500
[30] US (61/782,320) 2013-03-14

[21] **3,176,846**
[13] A1
[51] **Int.Cl. B01L 9/06 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND APPARATUSES FOR PERFORMING AUTOMATED REAGENT-BASED ASSAYS**
[54] **SYSTEMES, PROCEDES ET APPAREILS POUR EFFECTUER DES DOSAGES AUTOMATISES A BASE DE REACTIF**
[72] KNIGHT, BYRON J., US
[72] BUSE, DAVID, US
[72] GROELI, JULIAN, US
[71] GEN-PROBE INCORPORATED, US
[22] 2014-03-13
[41] 2014-09-25
[62] 3,078,500
[30] US (61/782,320) 2013-03-14

[21] **3,176,848**
[13] A1
[25] EN
[54] **METHODS, KITS AND APPARATUS FOR EXPANDING A POPULATION OF CELLS**
[54] **METHODES, KITS ET APPAREIL POUR LA MULTIPLICATION D'UNE POPULATION DE CELLULES**
[72] GERMEROTH, LOTHAR, DE
[72] STEMBERGER, CHRISTIAN, DE
[71] JUNO THERAPEUTICS GMBH, DE
[22] 2015-04-16
[41] 2015-10-22
[62] 2,945,889
[30] US (61/980,506) 2014-04-16

[21] **3,176,849**
[13] A1
[51] **Int.Cl. C12Q 3/00 (2006.01) C12Q 1/686 (2018.01) C12M 1/34 (2006.01) C12M 1/38 (2006.01) G01N 21/64 (2006.01)**
[25] EN
[54] **INDEXING SIGNAL DETECTION MODULE**
[54] **MODULE DE DETECTION DE SIGNAUX D'INDEXATION**
[72] HAGEN, NORBERT D., US
[72] OPALSKY, DAVID, US
[71] GEN-PROBE INCORPORATED, US
[22] 2014-03-07
[41] 2014-10-02
[62] 2,900,562
[30] US (61/782,340) 2013-03-14

[21] **3,176,850**
[13] A1
[25] EN
[54] **MACHINE-LEARNING TECHNIQUES FOR MONOTONIC NEURAL NETWORKS**
[54] **TECHNIQUES D`APPRENTISSAGE AUTOMATIQUE POUR RESEAUX NEURONAUX MONOTONES**
[72] TURNER, MATTHEW, US
[72] JORDAN, LEWIS, US
[72] JOSHUA, ALLAN, US
[71] EQUIFAX INC., US
[22] 2019-10-18
[41] 2020-03-20
[62] 3,059,314
[30] US (16/169,963) 2018-10-24
[30] US (16/173,427) 2018-10-29

[21] **3,176,851**
[13] A1
[51] **Int.Cl. A61M 16/16 (2006.01) A61M 16/08 (2006.01) A61M 16/10 (2006.01)**
[25] EN
[54] **CIRCUIT CONNECTOR FOR A HUMIDIFICATION SYSTEM**
[54] **CONNECTEUR DE CIRCUITS POUR SYSTEME D'HUMIDIFICATION**
[72] OSBORNE, HAMISH, NZ
[72] MILLAR, GAVIN WALSH, NZ
[72] EVANS, STEPHEN DAVID, NZ
[72] HOLYOAKE, BRUCE GORDON, NZ
[72] STANTON, JAMES WILLIAM, NZ
[72] MCCAULEY, DAVID LEON, NZ
[72] MCDERMOTT, GARETH THOMAS, NZ
[72] MCKENNA, NICHOLAS JAMES MICHAEL, NZ
[72] NORTON, MYFANWY JANE ANTICA, NZ
[72] ELSWORTH, ADRIAN JOHN, NZ
[72] ANDRESEN, MICHAEL JOHN, NZ
[72] LAMBERT, JONATHAN ANDREW GEORGE, NZ
[72] GURM, SANDEEP SINGH, NZ
[72] PARIS, TESSA HAZEL, NZ
[72] GRIFFITHS, JOSEPH NATHANIEL, NZ
[72] SI, PING, NZ
[72] SIMS, CHRISTOPHER GARETH, NZ
[72] STOKS, ELMO BENSON, NZ
[72] CHEUNG, DEXTER CHI LUN, NZ
[72] SEEKUP, PETER ALAN, NZ
[72] LIU, PO-YEN DAVID, NZ
[72] LANG, RICHARD EDWARD, NZ
[72] TONKIN, PAUL JAMES, NZ
[72] KWAN, IAN LEE WAI, NZ
[71] FISHER AND PAYKEL HEALTHCARE LIMITED, NZ
[22] 2014-09-15
[41] 2015-03-19
[62] 3,166,029
[30] US (61/877,784) 2013-09-13
[30] US (61/877,736) 2013-09-13
[30] US (61/877,622) 2013-09-13
[30] US (61/877,566) 2013-09-13
[30] US (61/919,485) 2013-12-20
[30] US (62/024,969) 2014-07-15
[30] US (62/032,462) 2014-08-01

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,176,861**
[13] A1
[51] **Int.Cl. A61B 5/11 (2006.01) A61B 5/00 (2006.01) A61F 2/30 (2006.01) A61F 2/38 (2006.01)**
[25] EN
[54] **INTELLIGENT JOINT PROSTHESIS**
[54] **PROTHESE ARTICULAIRE INTELLIGENTE**
[72] CUSHNER, FRED, US
[72] AUBIN, PATRICK M., US
[72] GROSS, JEFFREY M., US
[72] SCHILLER, PETER J., US
[72] HUNTER, WILLIAM L., CA
[71] CANARY MEDICAL INC., CA
[22] 2020-06-06
[41] 2020-12-10
[62] 3,142,442
[30] US (62/858,277) 2019-06-06

[21] **3,176,863**
[13] A1
[51] **Int.Cl. A61B 5/11 (2006.01) A61B 5/00 (2006.01) A61F 2/30 (2006.01) A61F 2/38 (2006.01) A61F 2/48 (2006.01)**
[25] EN
[54] **INTELLIGENT JOINT PROSTHESIS**
[54] **PROTHESE ARTICULAIRE INTELLIGENTE**
[72] CUSHNER, FRED, US
[72] AUBIN, PATRICK M., US
[72] GROSS, JEFFREY M., US
[72] SCHILLER, PETER J., US
[72] HUNTER, WILLIAM L., CA
[71] CANARY MEDICAL INC., CA
[22] 2020-06-06
[41] 2020-12-10
[62] 3,142,442
[30] US (62/858,277) 2019-06-06

[21] **3,176,870**
[13] A1
[51] **Int.Cl. B64C 39/02 (2006.01) B60P 1/52 (2006.01) B64F 1/00 (2006.01) G06Q 10/08 (2012.01)**
[25] EN
[54] **UNMANNED AERIAL VEHICLE PICK-UP AND DELIVERY SYSTEMS**
[54] **SYSTEMES DE COLLECTE ET DE LIVRAISON FAISANT INTERVENIR DES AERONEFS SANS PILOTE**
[72] GIL, JULIO, US
[71] UNITED PARCEL SERVICE OF AMERICA, INC., US
[22] 2017-04-28
[41] 2017-11-30
[62] 3,108,226
[30] US (62/329,491) 2016-04-29

[21] **3,176,873**
[13] A1
[51] **Int.Cl. A61F 2/30 (2006.01) A61B 5/00 (2006.01) A61B 5/11 (2006.01) A61F 2/38 (2006.01) A61F 2/48 (2006.01)**
[25] EN
[54] **INTELLIGENT JOINT PROSTHESIS**
[54] **PROTHESE ARTICULAIRE INTELLIGENTE**
[72] CUSHNER, FRED, US
[72] AUBIN, PATRICK M., US
[72] GROSS, JEFFREY M., US
[72] SCHILLER, PETER J., US
[72] HUNTER, WILLIAM L., CA
[71] CANARY MEDICAL INC., CA
[22] 2020-06-06
[41] 2020-12-10
[62] 3,142,442
[30] US (62/858,277) 2019-06-06

[21] **3,176,879**
[13] A1
[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/10 (2006.01) A61M 16/12 (2006.01) A61M 16/16 (2006.01)**
[25] EN
[54] **RESPIRATORY ASSISTANCE APPARATUS**
[54] **APPAREIL D'ASSISTANCE RESPIRATOIRE**
[72] BARKER, DEAN ANTONY, NZ
[72] STEWART, MIKAEL DOUGLAS, NZ
[72] HAWKINS, PETER GEOFFREY, NZ
[72] O'DONNELL, KEVIN PETER, NZ
[72] BURGESS, RUSSEL WILLIAM, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2013-04-05
[41] 2013-10-10
[62] 3,120,092
[30] US (61/620,595) 2012-04-05

[21] **3,176,905**
[13] A1
[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/06 (2006.01) A61M 16/08 (2006.01) A61M 16/10 (2006.01) A61M 16/16 (2006.01)**
[25] EN
[54] **CONNECTOR FOR PATIENT INTERFACE WITH SLIDE LOCKING MECHANISM**
[54] **CONNECTEUR POUR UNE INTERFACE DE PATIENT AVEC MECANISME DE VERROUILLAGE COULISSANT**
[72] PEACOCK, MATHEW IAN, NZ
[72] GULLIVER, LAURENCE, NZ
[72] KLENNER, JASON ALLAN, NZ
[72] LAING, BRENT IAN, NZ
[72] CLARKSON, SOOJI HOPE, NZ
[72] O'CONNOR, MARK THOMAS, NZ
[72] ASSI, MILANJOT SINGH, NZ
[72] MOYLE, AIDAN JAMES, NZ
[72] DRAIN, ANDREW ROLF, NZ
[72] ENSLIN, CHRISTI NICOL, NZ
[72] CURTIS, OLIVIA GRACE, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2015-06-18
[41] 2015-12-23
[62] 2,950,534
[30] US (62/013,912) 2014-06-18
[30] US (62/013,957) 2014-06-18
[30] US (62/054,846) 2014-09-24
[30] US (62/096,028) 2014-12-23
[30] US (62/096,073) 2014-12-23
[30] US (62/096,404) 2014-12-23
[30] US (62/096,414) 2014-12-23
[30] US (62/110,146) 2015-01-30

[21] **3,176,908**
[13] A1
[51] **Int.Cl. A61M 16/06 (2006.01) A61M 16/08 (2006.01)**
[25] EN
[54] **CONNECTOR FOR PATIENT INTERFACE WITH SLIDE LOCKING MECHANISM**
[54] **CONNECTEUR POUR UNE INTERFACE DE PATIENT AVEC MECANISME DE VERROUILLAGE COULISSANT**
[72] PEACOCK, MATHEW IAN, NZ
[72] GULLIVER, LAURENCE, NZ
[72] KLENNER, JASON ALLAN, NZ
[72] LAING, BRENT IAN, NZ
[72] CLARKSON, SOOJI HOPE, NZ
[72] O'CONNOR, MARK THOMAS, NZ
[72] ASSI, MILANJOT SINGH, NZ
[72] MOYLE, AIDAN JAMES, NZ
[72] DRAIN, ANDREW ROLF, NZ
[72] ENSLIN, CHRISTI NICOL, NZ
[72] CURTIS, OLIVIA GRACE, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2015-06-18
[41] 2015-12-23
[62] 2,950,534
[30] US (62/013,912) 2014-06-18
[30] US (62/013,957) 2014-06-18
[30] US (62/054,846) 2014-09-24
[30] US (62/096,028) 2014-12-23
[30] US (62/096,073) 2014-12-23
[30] US (62/096,404) 2014-12-23
[30] US (62/096,414) 2014-12-23
[30] US (62/110,146) 2015-01-30

[21] **3,176,913**
[13] A1
[51] **Int.Cl. A61M 16/06 (2006.01) A61M 16/00 (2006.01) A61M 16/08 (2006.01) A61M 16/10 (2006.01) A61M 16/16 (2006.01)**
[25] EN
[54] **CONNECTOR FOR PATIENT INTERFACE WITH SLIDE LOCKING MECHANISM**
[54] **CONNECTEUR POUR UNE INTERFACE DE PATIENT AVEC MECANISME DE VERROUILLAGE COULISSANT**
[72] PEACOCK, MATHEW IAN, NZ
[72] GULLIVER, LAURENCE, NZ
[72] KLENNER, JASON ALLAN, NZ
[72] LAING, BRENT IAN, NZ
[72] CLARKSON, SOOJI HOPE, NZ
[72] O'CONNOR, MARK THOMAS, NZ
[72] ASSI, MILANJOT SINGH, NZ
[72] MOYLE, AIDAN JAMES, NZ
[72] DRAIN, ANDREW ROLF, NZ
[72] ENSLIN, CHRISTI NICOL, NZ
[72] CURTIS, OLIVIA GRACE, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2015-06-18
[41] 2015-12-23
[62] 2,950,534
[30] US (62/013,912) 2014-06-18
[30] US (62/013,957) 2014-06-18
[30] US (62/054,846) 2014-09-24
[30] US (62/096,028) 2014-12-23
[30] US (62/096,073) 2014-12-23
[30] US (62/096,404) 2014-12-23
[30] US (62/096,414) 2014-12-23
[30] US (62/110,146) 2015-01-30

[21] **3,176,933**
[13] A1
[51] **Int.Cl. G03G 15/06 (2006.01)**
[25] EN
[54] **CARTRIDGE, MEMBER CONSTITUTING CARTRIDGE, AND IMAGE FORMING APPARATUS**
[54] **CARTOUCHE, ELEMENT DE CONFIGURATION DE CARTOUCHE, ET DISPOSITIF DE FORMATION D'IMAGE**
[72] SATO, MASAAKI, JP
[72] KUBO, YUKIO, JP
[72] MUNETSUGU, HIROYUKI, JP
[72] WADA, KOJI, JP
[71] CANON KABUSHIKI KAISHA, JP
[22] 2015-11-27
[41] 2016-06-02
[62] 2,969,088
[30] JP (2014-242577) 2014-11-28
[30] JP (2014-242601) 2014-11-28
[30] JP (2015-231356) 2015-11-27
[30] JP (2014-242602) 2014-11-28
[30] JP (2014-242578) 2014-11-28

[21] **3,176,935**
[13] A1
[51] **Int.Cl. D01C 1/02 (2006.01)**
[25] EN
[54] **DECORTICATION METHODS FOR PRODUCING RAW MATERIALS FROM PLANT BIOMASS**
[54] **PROCEDES DE DECORTICATION POUR LA PRODUCTION DE MATIERES PREMIERES A PARTIR D'UNE BIOMASSE VEGETALE**
[72] POWERS, ADAM, US
[71] 9FIBER, INC., US
[22] 2016-08-12
[41] 2017-02-16
[62] 3,033,293
[30] US (14/826,093) 2015-08-13

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,176,936**
[13] A1
[51] **Int.Cl. A61M 16/06 (2006.01)**
[25] EN
[54] **PATIENT INTERFACE HAVING HINGED REGIONS FOR ENHANCED STABILITY**
[54] **INTERFACE POUR PATIENT AYANT DES REGIONS A CHARNIERES POUR UNE STABILITE AMELIOREE**
[72] RONAYNE, MICHAEL PAUL, NZ
[72] SHEARER, RIKI ZANE, NZ
[72] WILSON, DANIEL CHARLES, NZ
[72] MILNE, ROBERT ANDREW DAVID, NZ
[72] HOPKINS, CAROLINE GERALDINE, NZ
[72] WHITE, CRAIG KARL, NZ
[72] ZHANG, PUQING, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2014-10-16
[41] 2015-04-23
[62] 2,927,088
[30] US (61/891,697) 2013-10-16
[30] US (61/919,579) 2013-12-20

[21] **3,176,962**
[13] A1
[51] **Int.Cl. A01D 34/30 (2006.01) A01D 34/02 (2006.01)**
[25] EN
[54] **HARVESTING HEADER KNIFE DRIVE ASSEMBLY**
[54] **ENSEMBLE D'ENTRAINEMENT DE COUTEAU D'ORGANE DE COUPE**
[72] HONEY, GREGORY, CA
[72] HONEY, GLENN, CA
[71] HONEY BEE MANUFACTURING LTD., CA
[22] 2015-06-09
[41] 2015-12-17
[62] 2,951,302
[30] CA (2,853,947) 2014-06-09

[21] **3,176,971**
[13] A1
[51] **Int.Cl. A61K 35/761 (2015.01) A61P 35/00 (2006.01) C12N 7/01 (2006.01)**
[25] EN
[54] **A DOSING REGIME AND FORMULATIONS FOR TYPE B ADENOVIRUSES**
[54] **POSOLOGIE ET FORMULATIONS POUR ADENOVIRUS DE TYPE B**
[72] BEADLE, JOHN WILLIAM, GB
[72] FISHER, KERRY, GB
[72] WILKINSON BLANC, CHRISTINE, GB
[71] PSIOXUS THERAPEUTICS LIMITED, GB
[22] 2014-06-12
[41] 2014-12-18
[62] 2,914,790
[30] GB (1310698.4) 2013-06-14
[30] GB (1405140.3) 2014-03-22
[30] GB (1406509.8) 2014-04-10

[21] **3,176,976**
[13] A1
[51] **Int.Cl. A61M 16/06 (2006.01) A62B 9/06 (2006.01) A62B 18/08 (2006.01)**
[25] EN
[54] **CUSTOMIZABLE RESPIRATORY MASK**
[54] **MASQUE RESPIRATOIRE PERSONNALISABLE**
[72] SCHEIRLINCK, ERIK ROBERTUS, NZ
[72] SMITH, DANIEL JOHN, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2015-05-08
[41] 2015-11-12
[62] 2,947,573
[30] US (61/991,373) 2014-05-09
[30] US (62/117,370) 2015-02-17

[21] **3,176,977**
[13] A1
[25] EN
[54] **INHIBITORS OF HUMAN EZH2, AND METHODS OF USE THEREOF**
[54] **INHIBITEURS DE L'EZH2 HUMAINE, ET LEURS PROCEDES D'UTILISATION**
[72] COPELAND, ROBERT ALLEN, US
[72] RICHON, VICTORIA MARIE, US
[72] SCOTT, MARGARET DAVIS, US
[72] SNEERINGER, CHRISTOPHER JOHN, US
[72] KUNTZ, KEVIN WAYNE, US
[72] KNUTSON, SARAH KATHLEEN, US
[72] POLLOCK, ROY MACFARLANE, US
[71] EPIZYME, INC., US
[22] 2011-09-12
[41] 2012-03-15
[62] 2,810,998
[30] US (61/381,684) 2010-09-10

[21] **3,176,978**
[13] A1
[51] **Int.Cl. A61M 16/06 (2006.01) A61M 16/08 (2006.01) A61M 16/10 (2006.01)**
[25] EN
[54] **PATIENT INTERFACE AND HEADGEAR FOR A RESPIRATORY APPARATUS**
[54] **INTERFACE PATIENT ET CASQUE POUR APPAREIL RESPIRATOIRE**
[72] O'DONNELL, KEVIN PETER, NZ
[72] FRAME, SAMUEL ROBERTSON, NZ
[72] KRAMER, MARTIN PAUL FRIEDRICH, NZ
[72] BABBAGE, SEAN JOEL, NZ
[72] HAWKINS, PETER GEOFFREY, NZ
[72] ASSI, MILANJOT SINGH, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2014-05-07
[41] 2014-11-13
[62] 2,911,413
[30] US (61/820,564) 2013-05-07
[30] US (61/895,942) 2013-10-25
[30] US (61/918,624) 2013-12-19

[21] **3,176,992**
[13] A1
[51] **Int.Cl. F16K 35/00 (2006.01) F16K 1/22 (2006.01) F16K 1/50 (2006.01) F16K 31/60 (2006.01) F16K 37/00 (2006.01)**
[25] EN
[54] **BUTTERFLY VALVE**
[54] **VANNE PAPILLON**
[72] GUTMANN, PAUL M., US
[72] HOOTS, JOSHUA LEE, US
[72] MOREN, GARY A., US
[72] STONE, JON TERENCE, US
[71] HAYWARD INDUSTRIES, INC., US
[22] 2014-07-24
[41] 2015-01-30
[62] 2,857,769
[30] US (13/954,130) 2013-07-30

[21] **3,177,027**
[13] A1
[25] EN
[54] **MODIFIED ANTIGEN BINDING POLYPEPTIDE CONSTRUCTS AND USES THEREOF**
[54] **CONSTRUCTIONS MODIFIEES DE POLYPEPTIDE DE LIAISON A UN ANTIGENE ET LEURS UTILISATIONS**
[72] SANCHES, MARIO, CA
[72] SPRETER VON KREUDENSTEIN, THOMAS, CA
[72] UROSEV, DUNJA, CA
[72] TOM-YEW, STACEY A. L., CA
[72] CORPER, ADAM LOUIS, US
[72] D'ANGELO, IGOR EDMONDO PAOLO, CA
[72] CHOU, YANG-CHIEH, US
[72] DIXIT, SURJIT BHIMARAO, CA
[71] ZYMEWORKS INC., CA
[22] 2015-05-29
[41] 2015-12-03
[62] 2,946,503
[30] US (62/154,055) 2015-04-28
[30] US (62/003,663) 2014-05-28

[21] **3,177,059**
[13] A1
[51] **Int.Cl. A61M 16/00 (2006.01) A61M 13/00 (2006.01) A61M 16/08 (2006.01) A61M 16/16 (2006.01) A61M 39/08 (2006.01) C08J 9/04 (2006.01) C08J 9/228 (2006.01) C08L 67/00 (2006.01)**
[25] EN
[54] **COMPONENTS FOR MEDICAL CIRCUITS**
[54] **ELEMENTS POUR CIRCUITS MEDICAUX**
[72] GIERKE, TIMOTHY, DEE, US
[72] HERMEZ, LAITH, ADEEB, NZ
[72] ORCHARD, KIERAN, MICHAEL, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2010-12-22
[41] 2011-06-30
[62] 3,106,017
[30] US (61/289,089) 2009-12-22

[21] **3,177,078**
[13] A1
[51] **Int.Cl. A61M 16/16 (2006.01) A61M 16/08 (2006.01) A61M 16/10 (2006.01)**
[25] EN
[54] **ZONE HEATING FOR RESPIRATORY CIRCUITS**
[54] **CHAUFFAGE DE ZONE DE CIRCUITS RESPIRATOIRES**
[72] LIU, PO-YEN, NZ
[72] SEEKUP, PETER ALAN, NZ
[72] NEWLAND, ANTHONY JAMES, NZ
[72] SMITH, MALCOLM DAVID, NZ
[72] SI, PING, NZ
[72] OOSTHUYSEN, HELGARD, NZ
[72] WILSON, MATTHEW ROBERT, NZ
[72] KWAN, IAN LEE WAI, NZ
[72] ALNASHI, SINAA, NZ
[72] TONKIN, PAUL JAMES, NZ
[72] MCCOOL, KIEL ANTHONY, NZ
[72] KEMPS, DAVID ROBERT, NZ
[72] LIN, YAYI, NZ
[72] ROSS, CALLUM MCDONALD, NZ
[72] SIMS, DAVID JOHN, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2016-09-09
[41] 2017-03-16
[62] 2,998,319
[30] US (62/216,232) 2015-09-09
[30] US (62/380,195) 2016-08-26

[21] **3,177,086**
[13] A1
[25] EN
[54] **MODIFIED MEMBRANE TYPE SERINE PROTEASE 1 (MTSP-1) POLYPEPTIDES AND METHODS OF USE**
[54] **POLYPEPTIDES DE SERINE PROTEASE 1 DE TYPE A MEMBRANE MODIFIEE (MTSP-1) ET LEURS PROCEDES D'UTILISATION**
[72] MADISON, EDWIN, L., US
[72] SOROS, VANESSA, US
[72] POPKOV, MIKHAIL, US
[71] CATALYST BIOSCIENCES, INC., US
[22] 2018-06-21
[41] 2018-12-27
[62] 3,067,851
[30] US (62/523,735) 2017-06-22
[30] US (62/664,051) 2018-04-27

[21] **3,177,110**
[13] A1
[51] **Int.Cl. F25C 1/12 (2006.01)**
[25] EN
[54] **ICE MACHINE**
[54] **MACHINE A GLACE**
[72] HUCKABY, SANDRA A., US
[72] WELLS, MATTHEW W., US
[72] PETERSON, KIM, US
[72] CLAYTON, LUTHER L., US
[72] SAKAKIBARA, HIDEKI, US
[72] WAHEED, ABDUL, US
[72] PERRY, TIMOTHY, US
[72] MELTON, GLENN, US
[72] RELOVA, JEREMY, US
[71] HOSHIZAKI AMERICA, INC., US
[22] 2019-08-02
[41] 2020-02-03
[62] 3,051,128
[30] US (62/714,412) 2018-08-03
[30] US (62/714,414) 2018-08-03
[30] US (16/529,055) 2019-08-01
[30] US (16/529,047) 2019-08-01

Index of Canadian Patents Issued

November 8, 2022

Index des brevets canadiens délivrés

8 novembre 2022

Index of Canadian Patents Issued
November 8, 2022

Index des brevets canadiens délivrés
8 novembre 2022

Index of Canadian Patents Issued
November 8, 2022

Index des brevets canadiens délivrés
8 novembre 2022

Index of Canadian Patents Issued
November 8, 2022

Index of Canadian Applications Open to Public Inspection

October 23, 2022 to October 29, 2022

Index des demandes canadiennes mises à la disponibilité du public

23 octobre 2022 au 29 octobre 2022

Index of Canadian Applications Open to Public Inspection
October 23, 2022 to October 29, 2022

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index of PCT Applications Entering the National Phase

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index of Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Index des demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

Index des demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

Index of Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Index des demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

Index of Canadian Divisional and Previously Unavailable Applications Open to Public Inspection