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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.

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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
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[54] - Title of Invention
[60] - Related by Supplementary Disclosure
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[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:

2,830,236 (Published January 25, 2022)

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 :

2,830,236 (Publié le 25 janvier 2022)

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

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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

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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^MC^, ou par Xpresspost^MC^ 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.

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.

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.

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.

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

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 March 22, 2022 contains applications open to public inspection from March 6, 2022 to March 12, 2022.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 22 mars 2022 contient les demandes disponibles au public pour consultation pour la période du 6 mars 2022 au 12 mars 2022.

16. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent **No. 2663209**
Issued: 2018-02-13
Present Owner: SANOFI

Title: **NOVEL ANTI-CD38 ANTIBODIES FOR THE TREATMENT OF CANCER**

Subject to the terms of this document, SANOFI, as the owner of Canadian Patent No. 2,663,209, entitled "NOVEL ANTI-CD38 ANTIBODIES FOR THE TREATMENT OF CANCER" (inventors Bartle, Laura M.; Blanc, Veronique; Deckert, Jutta; Golmakher, Viktor S.; Mikol, Vincent; Park, Peter U.; Skaletskaya, Anna; Tavares, Daniel) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,663,209 for the entirety of the term of the Patent.
The present dedication of the Canadian Patent No. 2,663,209 is made without any prejudice to the rights of SANOFI in and to any other patent or pending patent applications.
The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,663,209 and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,663,209.
The patentee, SANOFI, 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 Toronto, Ontario, Canada, this 19th day of October, 2021.

[signature]
Name: Melanie Sharman Rowand 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: 2663209**
Delivré : 2018-02-13
Titulaire actuel : SANOFI

Titre : **NOUVEAUX ANTICORPS ANTI-CD38 POUR LE TRAITEMENT DU CANCER**

Par la présente et sous réserve des dispositions du présent document, SANOFI, à titre de propriétaire du brevet canadien no 2,663,209, intitulé « NOUVEAUX ANTICORPS ANTI-CD38 POUR LE TRAITEMENT DU CANCER » (inventeurs Bartle, Laura M.; Blanc, Veronique; Deckert, Jutta; Golmakher, Viktor S.; Mikol, Vincent; Park, Peter U.; Skaletskaya, Anna; Tavares, Daniel) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,663,209 pour toute la durée du brevet.
La présente cession du brevet canadien no 2,663,209 se fait sans préjudice des droits SANOFI 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 2,663,209 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 2,663,209.
Le breveté, SANOFI 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, Ontario, Canada, ce 19e jour d'octobre 2021.

[signature]
Nom : Melanie Sharman Rowand à Torys LLP
Titre : Agente pour le breveté

17. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent **No. 2744990**
Issued: 2019-05-07
Present Owner: SANOFI

Title: **ANTITUMOR COMBINATIONS CONTAINING ANTIBODIES RECOGNIZING SPECIFICALLY CD38 AND MELPHALAN**

Subject to the terms of this document, SANOFI, as the owner of Canadian Patent No. 2,744,990, entitled "ANTITUMOR COMBINATIONS CONTAINING ANTIBODIES RECOGNIZING SPECIFICALLY CD38 AND MELPHALAN" (inventors Lejeune, Pascale; Vrignaud, Patricia) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,744,990 for the entirety of the term of the Patent.
The present dedication of the Canadian Patent No. 2,744,990 is made without any prejudice to the rights of SANOFI in and to any other patent or pending patent applications.
The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,744,990 and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,744,990.
The patentee, SANOFI, 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 Toronto, Ontario, Canada, this 19th day of October, 2021.

[signature]
Name: Melanie Sharman Rowand at Torys LLP
Title: Agent for the Patentee

17. Cession au Domaine Public

Le Commissaire des brevets
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien **no: 2744990**
Delivré : 2019-05-07
Titulaire actuel : SANOFI

Titre : **ASSOCIATIONS ANTITUMORALES CONTENANT DES ANTICORPS RECONNAISSANT SPECIFIQUEMENT CD38 ET DU MELPHALAN**

Par la présente et sous réserve des dispositions du présent document, SANOFI, à titre de propriétaire du brevet canadien no 2,744,990, intitulé « ASSOCIATIONS ANTITUMORALES CONTENANT DES ANTICORPS RECONNAISSANT SPECIFIQUEMENT CD38 ET DU MELPHALAN » (inventeurs Lejeune, Pascale; Vrignaud, Patricia) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,744,990 pour toute la durée du brevet.
La présente cession du brevet canadien no 2,744,990 se fait sans préjudice des droits SANOFI 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 2,744,990 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 2,744,990.
Le breveté, SANOFI 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, Ontario, Canada ce 19e jour d'octobre 2021.

[signature]
Nom : Melanie Sharman Rowand à Torys LLP
Titre : Agente pour le breveté

18. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent **No. 2744996**
Issued: 2019-05-07
Present Owner: SANOFI

Title: **ANTITUMOR COMBINATIONS CONTAINING ANTIBODIES RECOGNIZING SPECIFICALLY CD38 AND VINCRISTINE**

Subject to the terms of this document, SANOFI, as the owner of Canadian Patent No. 2,744,996, entitled "ANTITUMOR COMBINATIONS CONTAINING ANTIBODIES RECOGNIZING SPECIFICALLY CD38 AND VINCRISTINE" (inventors Lejeune, Pascale; Vrignaud, Patricia) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,744,996 for the entirety of the term of the Patent.
The present dedication of the Canadian Patent No. 2,744,996 is made without any prejudice to the rights of SANOFI in and to any other patent or pending patent applications.
The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,744,996 and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,744,996.
The patentee, SANOFI, 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 Toronto, Ontario, Canada, this 19th day of October, 2021.

[signature]
Name: Melanie Sharman Rowand at Torys LLP
Title: Agent for the Patentee

18. Cession au Domaine Public

Le Commissaire des brevets
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien **no: 2744996**
Delivré : 2019-05-07
Titulaire actuel : SANOFI

Titre : **ASSOCIATIONS ANTITUMORALES CONTENANT DES ANTICORPS RECONNAISSANT SPECIFIQUEMENT CD38 ET DE LA VINCRISTINE**

Par la présente et sous réserve des dispositions du présent document, SANOFI, à titre de propriétaire du brevet canadien no 2,744,996, intitulé « ASSOCIATIONS ANTITUMORALES CONTENANT DES ANTICORPS RECONNAISSANT SPECIFIQUEMENT CD38 ET DE LA VINCRISTINE » (inventeurs Lejeune, Pascale; Vrignaud, Patricia) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,744,996 pour toute la durée du brevet.
La présente cession du brevet canadien no 2,744,996 se fait sans préjudice des droits SANOFI 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 2,744,996 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 2,744,996.
Le breveté, SANOFI 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, Ontario, Canada, ce 19e jour d'octobre 2021.

[signature]
Nom : Melanie Sharman Rowand à Torys LLP
Titre : Agente pour le breveté

19. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent **No. 2745005**
Issued: 2020-08-11
Present Owner: SANOFI

Title: **ANTITUMOR COMBINATIONS CONTAINING ANTIBODIES RECOGNIZING SPECIFICALLY CD 38 AND CYTARABINE**

Subject to the terms of this document, SANOFI, as the owner of Canadian Patent No. 2,745,005, entitled "ANTITUMOR COMBINATIONS CONTAINING ANTIBODIES RECOGNIZING SPECIFICALLY CD 38 AND CYTARABINE" (inventors Lejeune, Pascale; Vrignaud, Patricia) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,745,005 for the entirety of the term of the Patent.
The present dedication of the Canadian Patent No. 2,745,005 is made without any prejudice to the rights of SANOFI in and to any other patent or pending patent applications.
The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,745,005 and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,745,005.
The patentee, SANOFI, 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 Toronto, Ontario, Canada, this 19th day of October, 2021.

[signature]
Name: Melanie Sharman Rowand at Torys LLP
Title: Agent for the Patentee

19. Cession au Domaine Public

Le Commissaire des brevets
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien **no: 2745005**
Delivré : 2020-08-11
Titulaire actuel : SANOFI

Titre : **ASSOCIATIONS ANTITUMORALES CONTENANT DES ANTICORPS RECONNAISSANT SPECIFI QUEMENT CD38 ET DE LA CYTARABINE**

Par la présente et sous réserve des dispositions du présent document, SANOFI, à titre de propriétaire du brevet canadien no 2,745,005, intitulé « ASSOCIATIONS ANTITUMORALES CONTENANT DES ANTICORPS RECONNAISSANT SPECIFI QUEMENT CD38 ET DE LA CYTARABINE » (inventeurs Lejeune, Pascale; Vrignaud, Patricia) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,745,005 pour toute la durée du brevet.
La présente cession du brevet canadien no 2,745,005 se fait sans préjudice des droits SANOFI 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 2,745,005 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 2,745,005.
Le breveté, SANOFI 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, Ontario, Canada, ce 19e jour d'octobre 2021.

[signature]
Nom : Melanie Sharman Rowand à Torys LLP
Titre : Agente pour le breveté

20. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent **No. 2745012**
Issued: 2020-09-15
Present Owner: SANOFI

Title: **ANTITUMOR COMBINATIONS CONTAINING ANTIBODIES RECOGNIZING SPECIFICALLY CD38 AND CYCLOPHOSPHAMIDE**

Subject to the terms of this document, SANOFI, as the owner of Canadian Patent No. 2,745,012, entitled "ANTITUMOR COMBINATIONS CONTAINING ANTIBODIES RECOGNIZING SPECIFICALLY CD38 AND CYCLOPHOSPHAMIDE" (inventors Lejeune, Pascale; Vrignaud, Patricia) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,745,012 for the entirety of the term of the Patent.
The present dedication of the Canadian Patent No. 2,745,012 is made without any prejudice to the rights of SANOFI in and to any other patent or pending patent applications.
The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,745,012 and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,745,012.
The patentee, SANOFI, 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 Toronto, Ontario, Canada, this 19th day of October, 2021.

[signature]
Name: Melanie Sharman Rowand at Torys LLP
Title: Agent for the Patentee

20. Cession au Domaine Public

Le Commissaire des brevets
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien **no: 2745012**
Delivré : 2020-09-15
Titulaire actuel : SANOFI

Titre : **ASSOCIATIONS ANTITUMORALES CONTENANT DES ANTICORPS RECONNAISSANT SPECIFIQUEMENT CD38 ET DU CYCLOPHOSPHAMIDE**

Par la présente et sous réserve des dispositions du présent document, SANOFI, à titre de propriétaire du brevet canadien no 2,745,012, intitulé « ASSOCIATIONS ANTITUMORALES CONTENANT DES ANTICORPS RECONNAISSANT SPECIFIQUEMENT CD38 ET DU CYCLOPHOSPHAMIDE » (inventeurs Lejeune, Pascale; Vrignaud, Patricia) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,745,012 pour toute la durée du brevet.
La présente cession du brevet canadien no 2,745,012 se fait sans préjudice des droits SANOFI 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 2,745,012 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 2,745,012.
Le breveté, SANOFI 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, Ontario, Canada, ce 19e jour d'octobre 2021.

[signature]
Nom : Melanie Sharman Rowand à Torys LLP
Titre : Agente pour le breveté

21. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent **No. 2820382**
Issued: 2020-08-18
Present Owner: SANOFI

Title: **ANTITUMOR COMBINATIONS CONTAINING ANTIBODIES RECOGNIZING SPECIFICALLY CD38 AND BORTEZOMIB**

Subject to the terms of this document, SANOFI, as the owner of Canadian Patent No. 2,820,382, entitled "ANTITUMOR COMBINATIONS CONTAINING ANTIBODIES RECOGNIZING SPECIFICALLY CD38 AND BORTEZOMIB" (inventors Deckert, Jutta; Lejeune, Pascale; Mayo, Michele F.; Park, Peter U.) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,820,382 for the entirety of the term of the Patent.
The present dedication of the Canadian Patent No. 2,820,382 is made without any prejudice to the rights of SANOFI in and to any other patent or pending patent applications.
The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,820,382 and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,820,382.
The patentee, SANOFI, 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 Toronto, Ontario, Canada, this 19th day of October, 2021.

[signature]
Name: Melanie Sharman Rowand at Torys LLP
Title: Agent for the Patentee

21. Cession au Domaine Public

Le Commissaire des brevets
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien **no: 2820382**
Delivré : 2020-08-18
Titulaire actuel : SANOFI

Titre : **COMBINAISONS ANTITUMORALES CONTENANT DES ANTICORPS RECONNAISSANT SPECIFIQUEMENT LE CD38 ET DU BORTEZOMIB**

Par la présente et sous réserve des dispositions du présent document, SANOFI, à titre de propriétaire du brevet canadien no 2,820,382, intitulé « COMBINAISONS ANTITUMORALES CONTENANT DES ANTICORPS RECONNAISSANT SPECIFIQUEMENT LE CD38 ET DU BORTEZOMIB » (inventeurs Deckert, Jutta; Lejeune, Pascale; Mayo, Michele F.; Park, Peter U.) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,820,382 pour toute la durée du brevet.
La présente cession du brevet canadien no 2,820,382 se fait sans préjudice des droits SANOFI 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 2,820,382 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 2,820,382.
Le breveté, SANOFI 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, Ontario, Canada, ce 19e jour d'octobre 2021.

[signature]
Nom : Melanie Sharman Rowand à Torys LLP
Titre : Agente pour le breveté

Canadian Patents Issued

March 22, 2022

Brevets canadiens délivrés

22 mars 2022

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[11] **2,474,754**
[13] C
[51] **Int.Cl. G16B 35/20 (2019.01) G16B 20/00 (2019.01) G16B 40/00 (2019.01) C12P 19/18 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **SYSTEMS FOR EVALUATING GENOMICS DATA**
[54] **SYSTEMES D'EVALUATION DES DONNEES GENOMIQUES**
[72] CHEN, RICHARD O., US
[72] CHO, RAYMOND J., US
[72] FELCIANO, RAMON M., US
[72] HOLLEY, BRET, US
[72] PATEL, VIRESH, US
[72] RICHARDS, DANIEL R., US
[72] SELVARAJAN, SUSHMA, US
[72] STEWARD, KEITH, US
[72] SCHNEIDER, SARA TANENBAUM, US
[73] QIAGEN REDWOOD CITY, INC., US
[85] 2004-07-29
[86] 2003-02-03 (PCT/US2003/003006)
[87] (WO2003/067504)
[30] US (60/353,176) 2002-02-04
[30] US (60/421,772) 2002-10-29

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[11] **2,682,132**
[13] C
[51] **Int.Cl. G01N 33/574 (2006.01) G01N 33/48 (2006.01) G01N 33/487 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **USE OF HE4 FOR ASSESSMENT OF BREAST CANCERS**
[54] **UTILISATION DE HE4 POUR L'EVALUATION DU CANCER DU SEIN**
[72] ALLARD, JEFFREY W., US
[72] VERCH, THORSTEN, US
[72] GLOVER, CURTIS, US
[73] FUJIREBIO DIAGNOSTICS, INC., US
[85] 2009-09-28
[86] 2008-03-31 (PCT/US2008/004176)
[87] (WO2008/121391)
[30] US (60/908,845) 2007-03-29

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[11] **2,703,621**
[13] C
[51] **Int.Cl. A61K 31/519 (2006.01) A61K 39/39 (2006.01) A61K 39/395 (2006.01) A61P 31/00 (2006.01) A61P 37/04 (2006.01) G01N 33/567 (2006.01)**
[25] EN
[54] **USE OF TAM RECEPTOR INHIBITORS AS ANTIMICROBIALS**
[54] **UTILISATION D'INHIBITEURS DE RECEPTEURS TAM EN TANT QU'ANTIMICROBIENS**
[72] LEMKE, GREG E., US
[72] YOUNG, JOHN A. T., US
[72] ROTHLIN, CARLA V., US
[72] BHATTACHARYYA, SUCHITA, US
[73] THE SALK INSTITUTE FOR BIOLOGICAL STUDIES, US
[85] 2010-04-22
[86] 2008-11-07 (PCT/US2008/082902)
[87] (WO2009/062112)
[30] US (60/986,984) 2007-11-09
[30] US (61/013,598) 2007-12-13
[30] US (61/083,462) 2008-07-24

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[11] **2,771,788**
[13] C
[51] **Int.Cl. G01N 33/497 (2006.01) G01N 30/02 (2006.01)**
[25] EN
[54] **MANIPULATION OF THE RATE OF GASTROINTESTINAL TRANSIT BY MODULATING INTESTINAL METHANE CONCENTRATION**
[54] **MANIPULATION DE LA VITESSE DU TRANSIT GASTRO-INTESTINAL PAR MODULATION DE LA CONCENTRATION DE METHANE INTESTINAL**
[72] LIN, HENRY C., US
[72] PIMENTEL, MARK, US
[73] CEDARS-SINAI MEDICAL CENTER, US
[86] (2771788)
[87] (2771788)
[22] 2003-05-20
[62] 2,486,585
[30] US (60/382172) 2002-05-20

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[11] **2,778,873**
[13] C
[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/74 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING THE RISK OF ACUTE INJURY DURING OR IMMEDIATELY AFTER A SURGICAL PROCEDURE**
[54] **METHODE DE DETERMINATION DU RISQUE DE BLESSURE CHRONIQUE PENDANT OU IMMEDIATEMENT APRES UNE CHIRURGIE**
[72] HORSCH, ANDREA, DE
[72] ZDUNEK, DIETMAR, DE
[72] HESS, GEORG, DE
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2012-04-24
[86] 2010-12-17 (PCT/EP2010/070058)
[87] (WO2011/073382)
[30] EP (09179925.4) 2009-12-18

---

[11] **2,782,044**
[13] C
[51] **Int.Cl. A61M 5/14 (2006.01) A61B 17/34 (2006.01) A61B 17/68 (2006.01) A61B 17/82 (2006.01) A61M 37/00 (2006.01)**
[25] EN
[54] **ADHESIVE DELIVERY DEVICES, SYSTEMS AND METHODS**
[54] **DISPOSITIFS D'ADMINISTRATION D'ADHESIFS, SYSTEMES ET PROCEDES ASSOCIES**
[72] FENTON, PAUL V., US
[72] FLAHERTY, J. CHRISTOPHER, US
[72] SHRIVASTAVA, ANSHUMAN, IN
[72] WESTHAVER, PAUL A., CA
[73] DARTMOUTH MEDICAL RESEARCH LIMITED, CA
[85] 2012-05-28
[86] 2010-11-30 (PCT/US2010/003060)
[87] (WO2011/065979)
[30] US (61/265,267) 2009-11-30

[11] **2,787,816**
[13] C
[51] **Int.Cl. G06F 17/00 (2019.01) G06F 3/048 (2013.01)**
[25] EN
[54] **SHARE BOX FOR ENDORSEMENTS**
[54] **BOITE PARTAGEE POUR ACCEPTATION**
[72] GUNDOTRA, VIC, US
[72] GLAZER, DAVID, US
[72] GILBERT, EVAN, US
[72] BYTTOW, DAVID, US
[72] BOYER, GARRY, US
[72] GILES, ARON, US
[72] TERLESKI, JONATHAN, US
[72] LIDER, BRETT, US
[72] DULITZ, DANIEL, US
[73] GOOGLE LLC, US
[86] (2787816)
[87] (2787816)
[22] 2012-08-21
[30] US (61/526,235) 2011-08-22

[11] **2,793,952**
[13] C
[51] **Int.Cl. G16H 40/63 (2018.01) G16H 40/67 (2018.01) G16H 50/20 (2018.01)**
[25] EN
[54] **EXTRACTING DATA RELATED TO CLINICAL DIAGNOSTIC INSTRUMENTS**
[54] **EXTRACTION DE DONNEES CONCERNANT DES INSTRUMENTS DE DIAGNOSTIC CLINIQUE**
[72] JAFFE, IAN, IL
[72] ZELIG, LIAT, IL
[72] MONITZ, RIVKA, IL
[72] SHEEP, ASSAF, IL
[73] BIO-RAD LABORATORIES (ISRAEL) INC., IL
[85] 2012-09-20
[86] 2011-03-22 (PCT/IB2011/051201)
[87] (WO2011/117817)
[30] US (12/730,382) 2010-03-24

[11] **2,806,885**
[13] C
[51] **Int.Cl. E21B 25/16 (2006.01) E21B 47/02 (2006.01)**
[25] EN
[54] **CORE SAMPLE ORIENTATION SYSTEM, DEVICE AND METHOD**
[54] **SYSTEME, DISPOSITIF ET PROCEDE D'ORIENTATION D'ECHANTILLON DE CAROTTE**
[72] KLASS, MICHAEL ALAN, AU
[72] WILKINSON, BRETT JAMES, AU
[72] STEWART, GORDON HENDERSON, AU
[72] HEJLEH, KHALED MUFID YOUSEF, AU
[72] ANWAR, JOHAN, AU
[73] GLOBALTECH CORPORATION PTY LTD, AU
[85] 2013-01-29
[86] 2011-07-29 (PCT/AU2011/000954)
[87] (WO2012/012839)
[30] AU (2010903401) 2010-07-30

[11] **2,845,895**
[13] C
[51] **Int.Cl. B65D 33/25 (2006.01)**
[25] EN
[54] **CLOSURE ARRANGEMENTS FOR RECLOSEABLE POUCHES; RECLOSEABLE POUCHES; AND, METHODS**
[54] **DISPOSITIFS DE FERMETURE POUR POCHES REFERMABLES, POCHES REFERMABLES ET PROCEDES**
[72] SCHREITER, MIKE, US
[72] ROBBINS, TODD, US
[73] REYNOLDS PRESTO PRODUCTS INC., US
[86] (2845895)
[87] (2845895)
[22] 2014-03-11
[30] US (13/837.085) 2013-03-15

[11] **2,846,700**
[13] C
[51] **Int.Cl. A61B 17/56 (2006.01) A61B 17/04 (2006.01)**
[25] EN
[54] **SURGICAL CONSTRUCTS WITH COLLAPSING SUTURE LOOP AND METHODS FOR SECURING TISSUE**
[54] **CONSTRUCTIONS CHIRURGICALES A BOUCLE DE SUTURE A APLATISSEMENT ET PROCEDES POUR FIXER UN TISSU**
[72] SENGUN, MEHMET Z., US
[72] TANG, HOWARD C., US
[72] WHITTAKER, GREGORY R., US
[73] MEDOS INTERNATIONAL SARL, CH
[86] (2846700)
[87] (2846700)
[22] 2014-03-14
[30] US (61/791,079) 2013-03-15
[30] US (14/145,486) 2013-12-31

[11] **2,847,199**
[13] C
[51] **Int.Cl. A61K 31/444 (2006.01) A61K 31/07 (2006.01) A61K 31/593 (2006.01) A61P 29/00 (2006.01) C07D 401/04 (2006.01)**
[25] EN
[54] **PRODUCT COMPRISING ANATABINE OR SALTS THEREOF, VITAMIN A AND VITAMIN D3 AND PHARMACEUTICAL COMPOSITIONS THEREOF USED FOR ANTI-INFLAMMATION SUPPORT**
[54] **PRODUIT COMPRENANT DE L'ANATABINE OU DES SELS, DE LA VITAMINE A ET DE LAVITAMINE D3 ET COMPOSITIONS PHARMACEUTIQUES DUDIT PRODUIT UTILISEES COMME ANTI-INFLAMMATOIRE**
[72] WILLIAMS, JONNIE R., US
[73] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2014-02-27
[86] 2012-06-12 (PCT/US2012/042009)
[87] (WO2013/032558)
[30] US (61/528,380) 2011-08-29

[11] **2,847,885**
[13] C
[51] **Int.Cl. A01K 67/027 (2006.01) C07K 16/00 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/85 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **TRANSGENIC ANIMALS BEARING HUMAN IG.LAMBDA. LIGHT CHAIN GENES**
[54] **ANIMAUX TRANSGENIQUES PORTEURS DE GENES A CHAINE LEGERE IGLAMBA D'IMMUNOGLOBULINE HUMAINE**
[72] GREEN, LARRY L., US
[72] IVANOV, VLADIMIR, US
[73] AMGEN FREMONT INC., US
[86] (2847885)
[87] (2847885)
[22] 2002-11-27
[62] 2,468,565
[30] US (60/334,508) 2001-11-30

[11] **2,850,486**
[13] C
[51] **Int.Cl. C08J 9/28 (2006.01) A61K 9/10 (2006.01) A61K 47/30 (2006.01) A61K 47/34 (2017.01) A61P 7/00 (2006.01) C08J 3/20 (2006.01) C08L 75/00 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING A SYNTHETIC FOAM HAVING A CONTROLLED PARTICLE DISTRIBUTION**
[54] **PROCEDE POUR PREPARER UNE MOUSSE SYNTHETIQUE AYANT UNE DISTRIBUTION DE PARTICULES CONTROLEE**
[72] CHANDRASHEKHAR-BHAT, BHUSHAN, NL
[72] TOOREN, MARTIN FRANKE, NL
[72] DE GRAAF, ROBBERT ARNOLD, NL
[72] RIBBELS, ROMKE STEPHAN RUDOLF, NL
[73] STRYKER EUROPEAN OPERATIONS HOLDINGS LLC, US
[85] 2014-03-28
[86] 2012-10-01 (PCT/NL2012/050686)
[87] (WO2013/048253)
[30] NL (2007503) 2011-09-29

[11] **2,853,554**
[13] C
[51] **Int.Cl. H04B 10/118 (2013.01) H04B 10/079 (2013.01) H04J 14/02 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR OPTICAL TRANSMISSION AT ADAPTIVE EFFECTIVE RATES**
[54] **PROCEDE ET DISPOSITIF POUR TRANSMISSION OPTIQUE A DES TAUX EFFICACES ADAPTATIFS**
[72] LE KERNEC, ARNAUD, FR
[72] DERVIN, MATHIEU, FR
[72] SOTOM, MICHEL, FR
[73] THALES, FR
[86] (2853554)
[87] (2853554)
[22] 2014-06-06
[30] FR (1301304) 2013-06-07

[11] **2,854,527**
[13] C
[51] **Int.Cl. E05B 19/00 (2006.01) E05B 19/02 (2006.01)**
[25] FR
[54] **LOCKSMITH KEYS AND LOCK SET FOR SUCH KEYS**
[54] **CLES DE SERRURERIE ET ENSEMBLE DE SERRURERIE POUR DE TELLES CLES**
[72] VALENTE, MASSIMO, FR
[72] MIGLIASSO, MARCO, IT
[73] VALENTE, MASSIMO, FR
[73] MIGLIASSO, MARCO, IT
[86] (2854527)
[87] (2854527)
[22] 2014-06-17

[11] **2,855,372**
[13] C
[51] **Int.Cl. C07D 495/04 (2006.01) A61K 31/519 (2006.01) A61P 3/04 (2006.01) A61P 31/00 (2006.01) C07D 487/04 (2006.01) C07D 491/048 (2006.01)**
[25] EN
[54] **2,4-DIOXO-THIENO[2,3-D]PYRIMIDINYL DERIVATIVES AND PHARMACEUTICAL COMPOSITIONS THEREOF USED AS ACC INHIBITORS**
[54] **DERIVES DE 2,4-DIOXO-THIENO-[2,3-D]PYRIMIDINYLE ET COMPOSITIONS PHARMACEUTIQUES CONNEXES UTILISEES COMME INHIBITEURS D'ACC**
[72] HARRIMAN, GERALDINE C., US
[72] MASSE, CRAIG E., US
[72] HARWOOD, JAMES, US
[72] BHAT, SATHESH, US
[72] GREENWOOD, JEREMY ROBERT, US
[73] GILEAD APOLLO, LLC, US
[85] 2014-05-09
[86] 2012-11-09 (PCT/US2012/064528)
[87] (WO2013/071169)
[30] US (61/559,023) 2011-11-11
[30] US (61/615,092) 2012-03-23
[30] US (61/651,878) 2012-05-25
[30] US (61/675,513) 2012-07-25

[11] **2,857,771**
[13] C
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 1/04 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/12 (2006.01) C08B 30/00 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12N 15/87 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **VARIETY CORN LINE GAQ2011**
[54] **LIGNEE DE MAIS DE VARIETE GAQ2011**
[72] DE DREU, ADRIAN JAN, CA
[73] SYNGENTA PARTICIPATIONS AG, CH
[86] (2857771)
[87] (2857771)
[22] 2014-07-24
[30] US (13/952,286) 2013-07-26

[11] **2,859,581**
[13] C
[51] **Int.Cl. A61K 47/50 (2017.01) C12N 15/113 (2010.01) A61K 47/62 (2017.01) A61K 47/68 (2017.01) A61K 31/713 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **CHIMERIC DOUBLE-STRANDED NUCLEIC ACID**
[54] **ACIDE NUCLEIQUE DOUBLE BRIN CHIMERIQUE**
[72] YOKOTA, TAKANORI, JP
[72] NISHINA, KAZUTAKA, JP
[72] OBIKA, SATOSHI, JP
[72] MIZUSAWA, HIDEHIRO, JP
[73] NATIONAL UNIVERSITY CORPORATION TOKYO MEDICAL AND DENTAL UNIVERSITY, JP
[85] 2014-06-12
[86] 2012-12-17 (PCT/JP2012/083180)
[87] (WO2013/089283)
[30] JP (2011-275488) 2011-12-16

---

[11] **2,859,893**
[13] C
[51] **Int.Cl. G09F 11/26 (2006.01) G09F 11/28 (2006.01) G09F 13/08 (2006.01) G09F 13/36 (2006.01)**
[25] EN
[54] **SCROLLING BACKLIT DISPLAY WITH SUPERIMPOSED BACKGROUND & FOREGROUND GRAPHICS, MULTI-COLOR LED BACKLIGHT PANEL, AND ILLUMINATED HOUSING**
[54] **PRESENTOIR A RETROECLAIRAGE A DEFILEMENT AVEC ELEMENTS GRAPHIQUES D'ARRIERE-PLAN ET D'AVANT PLAN SUPERPOSES, PANNEAU DE RETROECLAIRAGE A DEL MULTICOLORE ET BOITIER LUMINEUX**
[72] REMENDA, TOBIN, CA
[73] REMENDA, TOBIN, CA
[86] (2859893)
[87] (2859893)
[22] 2014-08-19
[30] US (61/870,993) 2013-08-28

---

[11] **2,861,137**
[13] C
[51] **Int.Cl. G01N 33/53 (2006.01) C40B 20/04 (2006.01) C40B 30/00 (2006.01) C40B 40/02 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHOD OF QUANTIFYING PEPTIDE-DERIVATIVE LIBRARIES USING PHAGE DISPLAY**
[54] **PROCEDE DE QUANTIFICATION DE BIBLIOTHEQUES DE DERIVES PEPTIDIQUES UTILISANT L'EXPOSITION SUR PHAGE**
[72] DERDA, RATMIR, CA
[72] NG, SIMON, CA
[72] JAFARI, SEYED MOHAMMADREZA, CA
[73] THE GOVERNORS OF THE UNIVERSITY OF ALBERTA, CA
[85] 2014-07-14
[86] 2013-02-01 (PCT/CA2013/050083)
[87] (WO2013/113127)
[30] US (61/594,593) 2012-02-03

---

[11] **2,862,775**
[13] C
[51] **Int.Cl. B65D 1/02 (2006.01)**
[25] EN
[54] **SYNTHETIC RESIN BOTTLE**
[54] **BOUTEILLE EN RESINE SYNTHETIQUE**
[72] OSHINO, TADAYOSHI, JP
[72] SAITO, HIROMICHI, JP
[72] YAMAZAKI, HIROHISA, JP
[72] NISHIMURA, TAKUYA, JP
[73] YOSHINO KOGYOSHO CO., LTD., JP
[85] 2014-07-25
[86] 2012-12-20 (PCT/JP2012/083135)
[87] (WO2013/114760)
[30] JP (2012-016775) 2012-01-30

---

[11] **2,863,342**
[13] C
[51] **Int.Cl. B65D 21/08 (2006.01)**
[25] EN
[54] **COLLAPSIBLE BOTTLE WITH FLOW CHANNELS**
[54] **BOUTEILLE PLIABLE DOTEE DE CANAUX D'ECOULEMENT**
[72] MIRBACH, ALI, DE
[73] OP-HYGIENE IP GMBH, CH
[86] (2863342)
[87] (2863342)
[22] 2014-09-15

---

[11] **2,864,797**
[13] C
[51] **Int.Cl. A61K 31/202 (2006.01) A61P 21/00 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **METHODS OF TREATING AMYOTROPHIC LATERAL SCLEROSIS**
[54] **PROCEDES DE TRAITEMENT DE LA SCLEROSE LATERALE AMYOTROPHIQUE**
[72] GJORSTRUP, PER, US
[73] ANIDA PHARMA INC., US
[85] 2014-08-14
[86] 2013-02-15 (PCT/US2013/026284)
[87] (WO2013/123290)
[30] US (61/599,096) 2012-02-15

---

[11] **2,867,179**
[13] C
[51] **Int.Cl. H01Q 1/28 (2006.01) H01Q 1/08 (2006.01) H01Q 1/52 (2006.01)**
[25] EN
[54] **SPACE-BORNE ANTENNA SYSTEM**
[54] **SYSTEME D'ANTENNE SPATIALE EMBARQUEE**
[72] BRAUBACH, HARALD, DE
[73] AIRBUS DEFENCE AND SPACE GMBH, DE
[86] (2867179)
[87] (2867179)
[22] 2014-10-14
[30] EP (13 004 944.8-1812) 2013-10-16

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[11] **2,867,856**
[13] C
[51] **Int.Cl. H04W 4/38 (2018.01) H02J 13/00 (2006.01) H04B 7/04 (2017.01) H04B 7/155 (2006.01) H01Q 9/30 (2006.01)**
[25] EN
[54] **WIRELESS SENSOR SYSTEM, METHOD AND APPARATUS WITH SWITCH AND OUTLET CONTROL**
[54] **SYSTEME DE CAPTEUR SANS FIL, PROCEDE ET APPAREIL COMPRENANT COMMANDE D'INTERRUPTEUR ET DE PRISE**
[72] GREENE, CHARLES E., US
[72] HARRIST, DANIEL W., US
[73] POWERCAST CORPORATION, US
[85] 2014-09-18
[86] 2013-03-21 (PCT/US2013/033377)
[87] (WO2013/142733)
[30] US (61/613,753) 2012-03-21

[11] **2,869,503**
[13] C
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **CABLE CLAMP AND TELECOMMUNICATIONS ENCLOSURE**
[54] **SERRE-CABLE ET ENCEINTE POUR TELECOMMUNICATIONS**
[72] AZNAG, MOHAMED, BE
[72] DE GROE, EMILIE, BE
[72] KEMPENEERS, DIRK, BE
[72] KEUSTERMANS, ERIC MARCEL M., BE
[73] COMMSCOPE CONNECTIVITY BELGIUM BVBA, BE
[85] 2014-10-03
[86] 2013-03-22 (PCT/EP2013/056066)
[87] (WO2013/149857)
[30] US (61/619,676) 2012-04-03
[30] US (61/776,495) 2013-02-19

[11] **2,870,261**
[13] C
[51] **Int.Cl. F01D 9/02 (2006.01) F01D 7/00 (2006.01) F01D 11/22 (2006.01)**
[25] EN
[54] **COMPRESSOR VARIABLE VANE ASSEMBLY**
[54] **ENSEMBLE D'AUBES VARIABLES POUR COMPRESSEUR**
[72] MARSHALL, ANDREW, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2870261)
[87] (2870261)
[22] 2014-11-07
[30] US (14/133,873) 2013-12-19

[11] **2,871,185**
[13] C
[51] **Int.Cl. C23C 16/513 (2006.01) B01J 19/10 (2006.01) C30B 30/06 (2006.01)**
[25] EN
[54] **ELECTRO-SPARK DEPOSITION SURFACE MODIFICATION PROCESS AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE MODIFICATION DE SURFACE DE DEPOT PAR ETINCELLE ELECTRIQUE**
[72] SHIJIE, DONG, CN
[72] PING, LUO, CN
[72] YING, CHANG, CN
[72] HUIHU, WANG, CN
[72] ZHIXIONG, XIE, CN
[72] ZHONG, ZHENG, CN
[72] WEI, YANG, CN
[72] LIANZHUO, YANG, CN
[72] QI, LIU, CN
[72] YANQING, WANG, CN
[73] HUYS INDUSTRIES LIMITED, CA
[86] (2871185)
[87] (2871185)
[22] 2014-11-14
[30] CN (CN 201310681599.1) 2013-12-16

[11] **2,873,297**
[13] C
[51] **Int.Cl. B29C 48/16 (2019.01) B29C 48/40 (2019.01)**
[25] EN
[54] **PLANT INCLUDING A TWIN-SCREW EXTRUDER FOR CONTINUOUS PRODUCTION OF ROLLS OF AIR BUBBLE FILM**
[54] **INSTALLATION COMPRENANT UNE EXTRUDEUSE A DEUX VIS POUR LA PRODUCTION CONTINUE DE ROULEAUX DE FILM DE BULLES D'AIR**
[72] MENCARELLI, MAURIZIO, IT
[73] COLINES AIR BUBBLE S.R.L., IT
[86] (2873297)
[87] (2873297)
[22] 2014-12-04
[30] IT (MI2013A 002048) 2013-12-09

[11] **2,874,153**
[13] C
[51] **Int.Cl. B01D 29/50 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR RESERVOIR FREE AND VENTLESS WATER FILTERING**
[54] **PROCEDE ET APPAREIL POUR FILTRATION D'EAU SANS RESERVOIR ET SANS EVENT**
[72] WIEGELE, JONATHAN TAYLOR, US
[73] BRITA LP, US
[86] (2874153)
[87] (2874153)
[22] 2014-12-10
[30] US (14/132,134) 2013-12-18

[11] **2,875,146**
[13] C
[51] **Int.Cl. B81C 1/00 (2006.01) A61K 9/00 (2006.01) B81B 7/04 (2006.01)**
[25] EN
[54] **BIOACTIVE AGENT DELIVERY DEVICES AND METHODS OF MAKING AND USING THE SAME**
[54] **DISPOSITIFS DE LIBERATION D'AGENT BIO-ACTIF ET PROCEDES DE FABRICATION ET D'UTILISATION DES CEUX-CI**
[72] DESAI, TEJAL A., US
[72] CHIRRA, HARIHARASUDHAN D., US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2014-11-27
[86] 2013-05-24 (PCT/US2013/042710)
[87] (WO2013/181107)
[30] US (61/653,119) 2012-05-30

[11] **2,879,036**
[13] C
[51] **Int.Cl. E04D 1/22 (2006.01) B32B 11/00 (2006.01) E04D 5/08 (2006.01)**
[25] EN
[54] **ROOFING MATERIAL**
[54] **MATERIAU DE COUVERTURE**
[72] KIIK, MATTI, US
[72] BRYSON, MICHAEL L., US
[72] WILSON, PAUL G., US
[72] BEERER, MARGIE A., US
[72] LEITCH, OLAN, US
[73] BUILDING MATERIALS INVESTMENT CORPORATION, US
[86] (2879036)
[87] (2879036)
[22] 2015-01-22
[30] US (61/931,828) 2014-01-27

[11] **2,879,363**
[13] C
[51] **Int.Cl. G02B 5/28 (2006.01) G01S 17/04 (2020.01) G01D 5/40 (2006.01) G01S 17/89 (2020.01)**
[25] EN
[54] **OPTICAL FILTER AND SENSOR SYSTEM**
[54] **FILTRE OPTIQUE ET SYSTEME DE CAPTEUR**
[72] HENDRIX, KAREN DENISE, US
[72] BRADLEY, RICHARD A., JR., US
[72] GRIGONIS, MARIUS, US
[72] OCKENFUSS, GEORG, US
[73] VIAVI SOLUTIONS INC., US
[85] 2015-01-15
[86] 2013-07-16 (PCT/US2013/050710)
[87] (WO2014/014930)
[30] US (61/672,164) 2012-07-16

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[11] **2,879,633**
[13] C
[51] **Int.Cl. A01C 7/20 (2006.01) B60B 19/00 (2006.01)**
[25] FR
[54] **WHEEL FORMING AN IMPROVED AGRICULTURAL MACHINE**
[54] **ROUE FORMANT OUTIL AGRICOLE AMELIORE**
[72] PHELY, OLIVIER, FR
[73] OTICO, FR
[86] (2879633)
[87] (2879633)
[22] 2015-01-22
[30] FR (1451000) 2014-02-10

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[11] **2,880,792**
[13] C
[51] **Int.Cl. A61K 8/91 (2006.01) A61Q 5/00 (2006.01)**
[25] EN
[54] **KERATIN POLYETHYLENE GLYCOL COVALENT CONJUGATES AND METHOD FOR HAIR IMPROVEMENT**
[54] **CONJUGUES COVALENTS DE KERATINE ET DE POLY(ETHYLENEGLYCOL) ET METHODE D'AMELIORATION DES PROPRIETES DES CHEVEUX**
[72] MEYER, JANE M., US
[72] MALAVIA, NIKITA, US
[72] CHARLES, STEPHEN ALEXANDER, US
[73] TRU-HAIR LLC, US
[85] 2015-02-03
[86] 2013-07-24 (PCT/US2013/051769)
[87] (WO2014/022163)
[30] US (61/679,554) 2012-08-03

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[11] **2,882,030**
[13] C
[51] **Int.Cl. C12N 5/078 (2010.01) A61K 35/19 (2015.01) A61K 35/18 (2015.01) A61P 7/06 (2006.01) C12Q 1/02 (2006.01)**
[25] EN
[54] **PRODUCTION OF RED BLOOD CELLS AND PLATELETS FROM STEM CELLS**
[54] **PRODUCTION DE GLOBULES ROUGES ET DE PLAQUETTES A PARTIR DE CELLULES SOUCHES**
[72] MURPHY, GEORGE J., US
[72] SHERR, DAVID H., US
[72] ROZELLE, SARAH S., US
[72] SMITH, BRENDEN W., US
[73] BOSTON MEDICAL CENTER CORPORATION, US
[73] TRUSTEES OF BOSTON UNIVERSITY, US
[85] 2015-02-13
[86] 2013-08-15 (PCT/US2013/055160)
[87] (WO2014/028749)
[30] US (61/683,246) 2012-08-15
[30] US (13/828,357) 2013-03-14

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[11] **2,884,361**
[13] C
[51] **Int.Cl. A61K 38/17 (2006.01) A61P 13/12 (2006.01) C07K 14/435 (2006.01)**
[25] EN
[54] **PEPTIDE ANTAGONISTS OF THE VASOPRESSIN-2 RECEPTOR DERIVED FROM A DENDOASPIS TOXIN**
[54] **ANTAGONISTES DE PEPTIDE DU RECEPTEUR DE VASOPRESSINE-2 DERIVES D'UNE TOXINE DE DENDOASPIS**
[72] GILLES, NICOLAS, FR
[72] SERVENT, DENIS, FR
[72] QUINTON, LOIC, BE
[72] REINFRANK, HELEN, DE
[72] WITZGALL, RALPH, DE
[72] MOUILLAC, BERNARD, FR
[72] MENDRE, CHRISTIANE, FR
[73] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[73] UNIVERSITE DE LIEGE, BE
[73] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR
[73] UNIVERSITY OF REGENSBURG, DE
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[85] 2015-03-09
[86] 2013-09-17 (PCT/IB2013/058615)
[87] (WO2014/041526)
[30] EP (12306120.2) 2012-09-17

[11] **2,885,386**
[13] C
[51] **Int.Cl. C10L 9/12 (2006.01) F21K 5/00 (2006.01) F21L 17/00 (2006.01) F42B 4/26 (2006.01)**
[25] EN
[54] **ILLUMINATION COMPOSITIONS, ILLUMINATION FLARES INCLUDING THE ILLUMINATION COMPOSITIONS, AND RELATED METHODS**
[54] **COMPOSITIONS D'ILLUMINATION, FUSEES ECLAIRANTES COMPORTANT LES COMPOSITIONS D'ILLUMINATION ET METHODES ASSOCIEES**
[72] NIELSON, DANIEL B., US
[72] DUKE, ROYCE C., US
[72] FIELDING, CURTIS W., US
[73] NORTHROP GRUMMAN SYSTEMS CORPORATION, US
[86] (2885386)
[87] (2885386)
[22] 2015-03-17
[30] US (14/218,547) 2014-03-18

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[11] **2,885,955**
[13] C
[51] **Int.Cl. E04D 13/14 (2006.01) E04D 13/147 (2006.01)**
[25] EN
[54] **MOLDABLE ROOF FLASHING**
[54] **BANDE DE COUVERTURE MOULABLE**
[72] HULL, ERIC G, US
[72] PEREZ, WILLIE, US
[73] OATEY CO., US
[86] (2885955)
[87] (2885955)
[22] 2015-03-24
[30] US (61/969,535) 2014-03-24

---

[11] **2,888,866**
[13] C
[51] **Int.Cl. C09K 8/04 (2006.01)**
[25] EN
[54] **POLYMERIC ENCAPSULANT FOR AQUEOUS DRILLING FLUID**
[54] **ENCAPSULANT POLYMERIQUE DESTINE AU FLUIDE DE FORAGE AQUEUX**
[72] MIRZAEI, AMIR A., CA
[72] RAD, HIRBOD, CA
[73] MIRZAEI, AMIR A., CA
[73] RAD, HIRBOD, CA
[86] (2888866)
[87] (2888866)
[22] 2015-04-24

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[11] **2,889,950**
[13] C
[51] **Int.Cl. F16B 5/12 (2006.01)**
[25] EN
[54] **PANEL ASSEMBLY STRIP BY CLAMPING ON A SUPPORTING FRAME**
[54] **BANDE D'ASSEMBLAGE DE PANNEAU PAR PINCEMENT SUR UN CADRE D'APPUI**
[72] PARRENIN, CEDRIC, FR
[73] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALERNATIVES, FR
[86] (2889950)
[87] (2889950)
[22] 2015-04-30
[30] FR (14 54458) 2014-05-19

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[11] **2,891,001**
[13] C
[51] **Int.Cl. G02C 9/00 (2006.01) G02B 27/01 (2006.01)**
[25] EN
[54] **ADAPTER SUPPORTING HEADS-UP DISPLAY ON SAFETY GLASSES**
[54] **ADAPTATEUR SUPPORTANT L'AFFICHAGE FRONTAL SUR LES VERRES DE SECURITE**
[72] ENNS, DAVID A., CA
[72] NADLER, RYAN, CA
[72] KULCHYCKI, MARK, CA
[73] MANITOBA HYDRO INTERNATIONAL LTD., CA
[86] (2891001)
[87] (2891001)
[22] 2015-05-08

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[11] **2,891,283**
[13] C
[51] **Int.Cl. B60P 7/04 (2006.01)**
[25] EN
[54] **TARPAULIN RETRACTION AND EXTENSION DEVICE.**
[54] **DISPOSITIF DE RETRACTION ET D'EXTENSION DE BACHE.**
[72] ROYER, REAL, CA
[73] FABRICATION ELCARGO INC., CA
[86] (2891283)
[87] (2891283)
[22] 2015-05-13

---

[11] **2,892,330**
[13] C
[51] **Int.Cl. H02M 1/08 (2006.01) H02M 3/07 (2006.01) H03K 17/10 (2006.01) H03K 17/567 (2006.01) H02M 1/00 (2007.10) H02M 3/155 (2006.01) H02M 3/335 (2006.01)**
[25] EN
[54] **DC-DC HIGH VOLTAGE CONVERTER**
[54] **CONVERTISSEUR DE TENSION CONTINU-CONTINU A HAUTE TENSION AVEC TRANSISTOR JFET**
[72] DUBOIS, FABIEN, FR
[72] BERGOGNE, DOMINIQUE, FR
[73] LABINAL POWER SYSTEMS, FR
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[85] 2015-05-20
[86] 2013-11-26 (PCT/FR2013/052862)
[87] (WO2014/083274)
[30] FR (12 61313) 2012-11-27

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[11] **2,892,882**
[13] C
[51] **Int.Cl. C08F 4/6592 (2006.01) C08F 2/34 (2006.01) C08F 210/16 (2006.01) C08J 5/18 (2006.01)**
[25] EN
[54] **ETHYLENE/1-BUTENE COPOLYMERS WITH ENHANCED RESIN PROCESSABILITY**
[54] **COPOLYMERES ETHYLENE/1-BUTENE A CAPACITE DE TRAITEMENT DE RESINE AMELIOREE**
[72] LAM, PATRICK, CA
[72] KER, VICTORIA, CA
[72] QUAIATTINI, ROBERT, CA
[73] NOVA CHEMICALS CORPORATION, CA
[86] (2892882)
[87] (2892882)
[22] 2015-05-27

[11] **2,894,245**
[13] C
[51] **Int.Cl. C07K 19/00 (2006.01) A61K 38/16 (2006.01) A61K 38/45 (2006.01) A61P 35/02 (2006.01) C07K 14/705 (2006.01) C07K 16/00 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **TREATMENT OF CD47+ DISEASE CELLS WITH SIRP ALPHA-FC FUSIONS**
[54] **TRAITEMENT DE CELLULES TUMORALES A CD47+ AVEC DES FUSIONS SIRP ALPHA/FC**
[72] UGER, ROBERT ADAM, CA
[72] SLAVOVA-PETROVA, PENKA SLAVTCHEVA, CA
[72] PANG, XINLI, CA
[73] TRILLIUM THERAPEUTICS ULC, CA
[85] 2015-06-08
[86] 2013-12-17 (PCT/CA2013/001046)
[87] (WO2014/094122)
[30] US (61/738,008) 2012-12-17

[11] **2,894,343**
[13] C
[51] **Int.Cl. B29C 70/70 (2006.01) B60K 15/07 (2006.01) B64D 45/02 (2006.01) F16B 33/00 (2006.01)**
[25] EN
[54] **APPARATUSES AND METHODS FOR SEAL CAP INSTALLATION**
[54] **APPAREILS ET METHODES D'INSTALLATION DE CAPUCHON ETANCHE**
[72] BURGESS, ROBERT MARSHALL, US
[72] CHANEY, MATTHEW G., US
[73] THE BOEING COMPANY, US
[86] (2894343)
[87] (2894343)
[22] 2015-06-15
[30] US (14/457,858) 2014-08-12

[11] **2,895,898**
[13] C
[51] **Int.Cl. H02G 3/04 (2006.01)**
[25] EN
[54] **CABLE MANAGEMENT FITTING**
[54] **RACCORD DE GESTION DE CABLES**
[72] TALLY, BRANDON MICHAEL, US
[72] THOMPSON, STEPHEN NATHANIEL, US
[72] KNUTSON, JAMES A., US
[73] EATON INTELLIGENT POWER LIMITED, IE
[86] (2895898)
[87] (2895898)
[22] 2015-06-29
[30] US (14/340,112) 2014-07-24

[11] **2,896,816**
[13] C
[51] **Int.Cl. G01S 5/14 (2006.01) G01S 19/00 (2010.01) G01S 19/11 (2010.01) G01S 1/44 (2006.01)**
[25] EN
[54] **ACQUISITION CHANNEL GEOLOCATION**
[54] **GEOLOCALISATION D'UN CANAL D'ACQUISITION**
[72] GUTT, GREGORY, US
[72] LAWRENCE, DAVID G., US
[72] WHELAN, DAVID A., US
[72] O'CONNOR, MICHAEL L., US
[73] THE BOEING COMPANY, US
[85] 2015-06-26
[86] 2014-02-10 (PCT/US2014/015599)
[87] (WO2014/137546)
[30] US (13/791,662) 2013-03-08

[11] **2,896,842**
[13] C
[51] **Int.Cl. A61L 27/56 (2006.01) A61F 2/44 (2006.01) A61L 27/04 (2006.01) A61L 27/14 (2006.01)**
[25] EN
[54] **POROUS TISSUE INGROWTH STRUCTURE**
[54] **STRUCTURE D'INTERPOSITION DE TISSU POREUX**
[72] NEBOSKY, PAUL S., US
[72] STALCUP, GREGORY C., US
[72] KNAPP, TROY D., US
[73] SMED-TA/TD, LLC, US
[85] 2015-06-26
[86] 2014-03-14 (PCT/US2014/027796)
[87] (WO2014/143719)
[30] US (61/789,723) 2013-03-15
[30] US (14/209,407) 2014-03-13

[11] **2,898,297**
[13] C
[51] **Int.Cl. C09D 175/02 (2006.01)**
[25] EN
[54] **SINGLE-COMPONENT MOISTURE-CURABLE COATINGS BASED ON N-SUBSTITUTED UREA POLYMERS WITH EXTENDED CHAINS AND TERMINAL ALKOXYSILANES**
[54] **REVETEMENTS A COMPOSANT UNIQUE DURCISSABLES A L'HUMIDITE A BASE DE POLYMERES D'UREE N-SUBSTITUES AVEC EXTENSIONS DE CHAINES ET ALCOXYSILANES TERMINAUX**
[72] IEZZI, ERICK B., US
[73] THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF THE NAVY, US
[85] 2015-07-15
[86] 2014-02-24 (PCT/US2014/017934)
[87] (WO2014/158535)
[30] US (61/781,719) 2013-03-14

[11] **2,898,928**
[13] C
[51] **Int.Cl. B60S 1/40 (2006.01)**
[25] EN
[54] **WINDSHIELD WIPER CONNECTOR**
[54] **CONNECTEUR D'ESSUIE-GLACE**
[72] TOLENTINO, VAMBI RAYMUNDO, US
[72] PEERS, ROBERT PETER, US
[73] PYLON MANUFACTURING CORP., US
[86] (2898928)
[87] (2898928)
[22] 2015-07-29

[11] **2,900,314**
[13] C
[51] **Int.Cl. A61B 1/01 (2006.01) A61B 17/29 (2006.01) A61B 17/295 (2006.01) A61M 25/01 (2006.01) A61M 25/09 (2006.01)**
[25] EN
[54] **STEERABLE MEDICAL DEVICE**
[54] **DISPOSITIF MEDICAL ORIENTABLE**
[72] SHOLEV, MORDEHAI, IL
[73] HUMAN EXTENSIONS LTD., IL
[85] 2015-08-04
[86] 2014-02-17 (PCT/IL2014/050224)
[87] (WO2014/125498)
[30] US (61/765,745) 2013-02-17

[11] **2,900,509**
[13] C
[51] **Int.Cl. G01N 27/414 (2006.01)**
[25] EN
[54] **PREVENTING STRAY CURRENTS IN SENSORS IN CONDUCTIVE MEDIA**
[54] **PREVENTION DES COURANTS VAGABONDS DANS LES DETECTEURS INTEGRES A DES SUPPORTS CONDUCTEURS**
[72] CARLSON, ROBERT JON, US
[72] NOHAVA, THOMAS E., US
[73] HONEYWELL INTERNATIONAL INC., US
[86] (2900509)
[87] (2900509)
[22] 2015-08-14
[30] US (14/463,087) 2014-08-19

[11] **2,901,295**
[13] C
[51] **Int.Cl. F02K 9/95 (2006.01) F02K 9/26 (2006.01)**
[25] EN
[54] **ROCKET DELAY APPARATUSES, SYSTEMS AND METHODS**
[54] **APPAREILS, SYSTEMES ET PROCEDES DE RETARD POUR FUSEE**
[72] ROSENFIELD, GARY C., US
[73] ROSENFIELD, GARY C., US
[85] 2015-08-13
[86] 2014-02-21 (PCT/US2014/017834)
[87] (WO2014/133911)
[30] US (61/767,767) 2013-02-21

[11] **2,901,685**
[13] C
[51] **Int.Cl. G06Q 50/30 (2012.01)**
[25] EN
[54] **CROWDSOURCING USER-PROVIDED IDENTIFIERS AND ASSOCIATING THEM WITH BRAND IDENTITIES**
[54] **EXTERNALISATION OUVERTE D'IDENTIFIANTS FOURNIS PAR DES UTILISATEURS ET ASSOCIATION DE CES IDENTIFIANTS A DES IDENTITES DE MARQUES**
[72] DJIN, TWUM, US
[72] HUANG, ANDREW CHANG, US
[72] SOHN, TIMOTHY YOUNGJIN, US
[72] TSAY, JACQUELINE AMY, US
[72] FAKHOURY, HIBA WASEF, US
[73] GOOGLE LLC, US
[85] 2015-08-17
[86] 2014-02-27 (PCT/US2014/019152)
[87] (WO2014/134358)
[30] US (13/783,076) 2013-03-01

[11] **2,901,687**
[13] C
[51] **Int.Cl. A61B 18/14 (2006.01)**
[25] EN
[54] **INTRAVERTEBRAL TISSUE ABLATION DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE D'ABLATION DE TISSU INTRAVERTEBRAL**
[72] KRUEGER, JOHN A., US
[72] LINDERMAN, EVAN D., US
[72] SCHECHTER, DAVID A., US
[72] HOGAN, MICHAEL P., US
[72] MOSES, MICHAEL C., US
[72] GOETZ, JOSHUA K., US
[72] WHITE, NATHAN H., US
[73] CAREFUSION 2200, INC., US
[85] 2015-08-18
[86] 2014-02-04 (PCT/US2014/014586)
[87] (WO2014/130231)
[30] US (13/773,114) 2013-02-21

[11] **2,901,959**
[13] C
[51] **Int.Cl. A61N 2/00 (2006.01) A61N 2/02 (2006.01)**
[25] EN
[54] **UNILATERAL COILS FOR DEEP TRANSCRANIAL MAGNETIC STIMULATION**
[54] **BOBINES UNILATERALES POUR STIMULATION MAGNETIQUE TRANSCRANIENNE PROFONDE**
[72] ZANGEN, ABRAHAM, IL
[72] ROTH, YIFTACH, IL
[73] BRAINSWAY, LTD., IL
[85] 2015-08-20
[86] 2014-02-20 (PCT/IB2014/059112)
[87] (WO2014/128632)
[30] US (13/772,526) 2013-02-21

[11] **2,903,732**
[13] C
[51] **Int.Cl. E05B 47/00 (2006.01) H02J 50/20 (2016.01) G08C 17/02 (2006.01) H01M 10/46 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **ELECTRONIC LOCKSET WITH MULTI-SOURCE ENERGY HARVESTING CIRCUIT**
[54] **SERRURE ELECTRONIQUE AVEC CIRCUIT COLLECTEUR A SOURCE D'ENERGIE MULTIPLE**
[72] NGUYEN, THUAN, US
[72] MARIDAKIS, MICHAEL, US
[72] BROWN, TROY, US
[72] ALMOMANI, NEDAL AKRAM, US
[73] SPECTRUM BRANDS, INC., US
[85] 2015-09-02
[86] 2014-03-05 (PCT/US2014/020798)
[87] (WO2014/164141)
[30] US (61/777,872) 2013-03-12
[30] US (61/820,437) 2013-05-07

[11] **2,903,832**
[13] C
[51] **Int.Cl. A61M 5/19 (2006.01)**
[25] EN
[54] **MULTI-CHAMBER INJECTION DEVICE**
[54] **DISPOSITIF D'INJECTION A CHAMBRES MULTIPLES**
[72] TENNICAN, PATRICK O., US
[72] PHIPPS, L., MYLES, US
[73] HYPROTEK, INC., US
[85] 2015-09-02
[86] 2014-03-14 (PCT/US2014/028820)
[87] (WO2014/144416)
[30] US (61/801,275) 2013-03-15

[11] **2,905,034**
[13] C
[51] **Int.Cl. A61K 9/10 (2006.01) A61K 31/05 (2006.01) A61K 36/00 (2006.01) A61K 36/48 (2006.01) A61K 36/53 (2006.01) A61K 47/02 (2006.01) A61P 17/00 (2006.01) A61P 17/10 (2006.01)**
[25] EN
[54] **STABILIZED CREAM FORMULATIONS COMPRISING SANDALWOOD OIL**
[54] **FORMULATIONS DE CREME STABILISEES COMPRENANT DE L'ESSENCE DE SANTAL**
[72] CLEMENTS, IAN, US
[72] CASTELLA, PAUL, US
[72] LEVENSON, COREY, US
[73] SANTALIS HEALTHCARE CORPORATION, US
[85] 2015-09-09
[86] 2014-03-13 (PCT/US2014/026219)
[87] (WO2014/160279)
[30] US (61/780,038) 2013-03-13

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[11] **2,905,954**
[13] C
[51] **Int.Cl. G01N 33/564 (2006.01)**
[25] EN
[54] **METHODS OF DETECTING DONOR-SPECIFIC ANTIBODIES AND SYSTEMS FOR PRACTICING THE SAME**
[54] **PROCEDES DE DETECTION D'ANTICORPS SPECIFIQUES D'UN DONNEUR ET SYSTEMES DE REALISATION ASSOCIES**
[72] TYAN, DOLLY B., US
[72] CHEN, GE, US
[73] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2015-09-11
[86] 2014-03-13 (PCT/US2014/026406)
[87] (WO2014/151763)
[30] US (61/782,003) 2013-03-14

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[11] **2,909,057**
[13] C
[51] **Int.Cl. C07D 401/06 (2006.01) A61K 31/34 (2006.01) A61K 31/381 (2006.01) A61K 31/415 (2006.01) A61K 31/421 (2006.01) A61K 31/427 (2006.01) A61K 31/45 (2006.01) A61P 11/02 (2006.01) A61P 31/16 (2006.01) C07D 401/14 (2006.01) C07D 405/06 (2006.01) C07D 409/06 (2006.01) C07D 413/06 (2006.01) C07D 417/06 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **GLUTARIMIDE DERIVATIVES, USE THEREOF, PHARMACEUTICAL COMPOSITION BASED THEREON AND METHODS FOR PRODUCING GLUTARIMIDE DERIVATIVES**
[54] **DERIVES DE GLUTARIMIDES, LEUR UTILISATION, COMPOSITION PHARMACEUTIQUE SUR LEUR BASE ET PROCEDES DE FABRICATION**
[72] NEBOLSIN, VLADIMIR EVGENIEVICH, RU
[72] KROMOVA, TATYANA ALEXANDROVNA, RU
[73] OBSCHESTVO S OGRANICHENNOI OTVETSTVENNOSTIYU "PHARMENTERPRISES", RU
[85] 2015-10-05
[86] 2014-04-10 (PCT/RU2014/000264)
[87] (WO2014/168522)
[30] RU (2013116826) 2013-04-12

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[11] **2,910,438**
[13] C
[51] **Int.Cl. B64G 4/00 (2006.01) B25J 15/00 (2006.01) B25J 18/00 (2006.01) B64G 1/22 (2006.01)**
[25] EN
[54] **MANIPULATION OF A SATELLITE IN SPACE**
[54] **DEPLACEMENT D'UN SATELLITE DANS L'ESPACE**
[72] VEZAIN, STEPHANE, FR
[72] BAUDASSE, YANNICK, FR
[72] STANEK, DIDIER, FR
[72] BILLOT, CAROLE, FR
[73] THALES, FR
[86] (2910438)
[87] (2910438)
[22] 2015-10-23
[30] FR (14 02 388) 2014-10-24
[30] FR (15 01 346) 2015-06-26

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[11] **2,910,874**
[13] C
[51] **Int.Cl. C12N 15/82 (2006.01) C07K 16/14 (2006.01)**
[25] EN
[54] **AGROCHEMICAL COMPOSITIONS COMPRISING ANTIBODIES BINDING TO SPHINGOLIPIDS**
[54] **COMPOSITIONS AGROCHIMIQUES COMPRENANT DES ANTICORPS SE LIANT A DES SPHINGOLIPIDES**
[72] VERHEESEN, PETER, BE
[72] DE JONGHE, CHRIS, BE
[72] VAN DAELE, INGE ELODIE, BE
[72] DE BOLLE, MIGUEL FRANCESCO COLETA, NL
[72] VELOSO VIEIRA, JOAO FILIPE, GB
[72] THEVISSEN, KARIN, BE
[72] CAMMUE, BRUNO, BE
[73] BIOTALYS NV, BE
[85] 2015-10-28
[86] 2014-04-29 (PCT/EP2014/058771)
[87] (WO2014/177595)
[30] US (61/817,170) 2013-04-29

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[11] **2,910,990**
[13] C
[51] **Int.Cl. C07C 33/46 (2006.01) C07C 25/24 (2006.01) C07D 401/06 (2006.01)**
[25] EN
[54] **INTERMEDIATE COMPOUNDS AND PROCESS FOR THE PREPARATION OF EFINACONAZOLE**
[54] **COMPOSES INTERMEDIAIRES ET PROCEDE DE PREPARATION D'EFINACONAZOLE**
[72] GOPIN, ANNA, IL
[72] RUBNOV, SHAI, IL
[72] ZATS, GALINA, IL
[72] MAROM, EHUD, IL
[73] MAPI PHARMA LTD., IL
[85] 2015-11-04
[86] 2015-03-02 (PCT/IL2015/050222)
[87] (WO2016/079728)
[30] US (62/083,233) 2014-11-23

[11] **2,911,140**
[13] C
[51] **Int.Cl. A01K 7/02 (2006.01)**
[25] EN
[54] **HEATED LIVESTOCK WATERER**
[54] **ABREUVOIR CHAUFFE POUR LE BETAIL**
[72] WRIGHT, JASON, CA
[73] CAP SOLAR PUMPS LTD., CA
[86] (2911140)
[87] (2911140)
[22] 2015-11-05

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[11] **2,911,688**
[13] C
[51] **Int.Cl. A61K 8/38 (2006.01) A61K 8/37 (2006.01) A61Q 17/04 (2006.01)**
[25] EN
[54] **NON-IRRITATING, NON-WHITENING PHOTOPROTECTIVE COMPOSITIONS**
[54] **COMPOSITIONS PHOTOPROTECTRICES NON IRRITANTES, NON BLANCHISSANTES**
[72] SPAULDING, LAURA, US
[72] SANOGUERIA, JAMES, US
[72] FRONTAURIA, ALISSA, US
[72] LI, GENG, US
[73] EDGEWELL PERSONAL CARE CANADA, ULC, CA
[85] 2015-11-06
[86] 2014-03-31 (PCT/US2014/032325)
[87] (WO2015/152865)
[30] US (61/807,089) 2013-04-01

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[11] **2,913,070**
[13] C
[51] **Int.Cl. B22D 41/22 (2006.01) B22D 41/56 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR AUTOMATIC REPLACEMENT OF A DISCHARGE SHELL ON A SLIDING CLOSURE OF A METALLURGICAL VESSEL**
[54] **PROCEDE ET DISPOSITIF POUR LE REMPLACEMENT AUTOMATIQUE D'UN MANCHON DE RIGOLE DE COULEE A UNE FERMETURE COULISSANTE D'UN RECIPIENT METALLURGIQUE**
[72] INFANGER, IVO, CH
[72] HUGENER, BRUNO, CH
[73] REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG, AT
[85] 2015-11-20
[86] 2014-05-07 (PCT/EP2014/059353)
[87] (WO2015/003829)
[30] CH (01249/13) 2013-07-11

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[11] **2,914,962**
[13] C
[51] **Int.Cl. G06Q 40/04 (2012.01)**
[25] EN
[54] **DYNAMIC GENERATION OF ORDER ENTRY FIELDS ON A TRADING INTERFACE**
[54] **GENERATION DYNAMIQUE DE CHAMPS DE SAISIE D'ORDRE SUR UNE INTERFACE DE NEGOCE**
[72] BUCK, BRIAN J., US
[73] TRADING TECHNOLOGIES INTERNATIONAL, INC., US
[85] 2015-12-09
[86] 2014-06-19 (PCT/US2014/043233)
[87] (WO2015/002748)
[30] US (13/935,208) 2013-07-03
[30] US (PCT/US2014/043233) 2014-06-19

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[11] **2,916,204**
[13] C
[51] **Int.Cl. B62H 5/00 (2006.01) H04B 1/3888 (2015.01) B62J 3/00 (2020.01) G08B 13/14 (2006.01) G08B 21/14 (2006.01) G08B 25/10 (2006.01) H04W 88/02 (2009.01)**
[25] EN
[54] **BICYCLE SYSTEM**
[54] **SYSTEME DE BICYCLETTE**
[72] HINES, GEORGE, US
[72] FRAGASSI, STEVEN, US
[72] CAVADA, GILBERTO, US
[72] O'CONNOR, TOM, US
[72] PAGE, RICHARD, US
[72] KULKARNI, SHARWARI, US
[72] GUFFEY, GEORGE J., US
[72] CAPELLARO, WILL, US
[72] CARRIER, MICHAEL, US
[72] CARLSON, DAVID, US
[72] DAUS, CORRY, US
[72] KUNVICHET, LEE, US
[72] LINGLE, STEPHEN, US
[72] LAST, ANDREW, GB
[72] DMITRIYEV, STANISLAV, UA
[72] AMMONS, REGINALD K.S., US
[73] KONNECTRONICS, INC., US
[85] 2015-12-18
[86] 2014-06-20 (PCT/US2014/043405)
[87] (WO2014/205345)
[30] GB (1311001.0) 2013-06-20
[30] US (61/978,464) 2014-04-11
[30] US (29/489,808) 2014-05-02

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[11] **2,916,337**
[13] C
[51] **Int.Cl. A61K 41/00 (2020.01) A61K 9/10 (2006.01) A61K 47/30 (2006.01) A61P 17/02 (2006.01) C09K 11/02 (2006.01)**
[25] EN
[54] **BIOPHOTONIC COMPOSITIONS COMPRISING A CHROMOPHORE AND A GELLING AGENT FOR TREATING WOUNDS**
[54] **COMPOSITIONS BIOPHOTONIQUES COMPRENANT UN CHROMOPHORE ET UN AGENT GELIFIANT POUR TRAITER DES PLAIES**
[72] LOUPIS, NIKOLAOS, GR
[72] PIERGALLINI, REMIGIO, IT
[72] RASTOGI, SHIPRA, CA
[73] KLOX TECHNOLOGIES INC., CA
[85] 2015-12-21
[86] 2014-07-02 (PCT/CA2014/000536)
[87] (WO2015/000058)
[30] US (61/842,433) 2013-07-03
[30] US (61/904,204) 2013-11-14

[11] **2,916,393**
[13] C
[51] **Int.Cl. C07D 487/14 (2006.01) A61K 31/517 (2006.01)**
[25] EN
[54] **FREE BASE CRYSTALS**
[54] **CRISTAUX DE BASE LIBRE**
[72] ABE, TAKASHI, JP
[72] BUCKTON, GRAHAM, GB
[72] DAVIS, ROBERT, US
[72] HOOPER, MARK, GB
[72] LI, PENG, US
[72] MARUYAMA, HIDEAKI, JP
[72] TAKASUGA, MASAHIRO, JP
[72] WENNOGLE, LAWRENCE P., US
[72] YAMAMOTO, YUHEI, JP
[72] YAMASHITA, HIRONORI, JP
[73] INTRA-CELLULAR THERAPIES, INC., US
[85] 2015-12-21
[86] 2014-06-20 (PCT/US2014/043422)
[87] (WO2014/205354)
[30] US (61/838,105) 2013-06-21
[30] US (61/919,424) 2013-12-20

[11] **2,916,943**
[13] C
[51] **Int.Cl. H04N 21/235 (2011.01)**
[25] EN
[54] **DATA STRUCTURE FOR PHYSICAL LAYER ENCAPSULATION, DATA STRUCTURE GENERATING APPARATUS AND METHOD THEREOF**
[54] **STRUCTURE DE DONNEES POUR UNE ENCAPSULATION DE COUCHE PHYSIQUE, APPAREIL DE GENERATION DE STRUCTURE DE DONNEES ET PROCEDE ASSOCIE**
[72] MOURAD, ALAIN, GB
[72] HWANG, SUNG-HEE, KR
[72] ANSORREGUI, DANIEL, GB
[72] MOUHOUCHE, BELKACEM, GB
[72] LEE, HAK-JU, KR
[73] SAMSUNG ELECTRONICS CO, LTD., KR
[85] 2015-12-29
[86] 2014-06-24 (PCT/KR2014/005588)
[87] (WO2014/208986)
[30] GB (1311443.4) 2013-06-27
[30] KR (10-2013-0096128) 2013-08-13

[11] **2,917,505**
[13] C
[51] **Int.Cl. C22B 3/42 (2006.01) C22B 3/12 (2006.01) C22B 3/44 (2006.01) C25C 1/20 (2006.01) C22B 11/00 (2006.01)**
[25] EN
[54] **GOLD RECOVERY FROM CARBON**
[54] **RECUPERATION DE L'OR A PARTIR DU CARBONE**
[72] YAHORAVA, VOLHA, ZA
[72] BAZHKO, VOLHA, ZA
[72] KOTZE, MARTHA HENDRIETTE, ZA
[73] MINTEK, ZA
[86] (2917505)
[87] (2917505)
[22] 2016-01-12
[30] ZA (2015/00281) 2015-01-15
[30] ZA (2015/07231) 2015-09-30

[11] **2,918,160**
[13] C
[51] **Int.Cl. A47G 21/08 (2006.01)**
[25] EN
[54] **EATING UTENSIL**
[54] **USTENSILE DE TABLE**
[72] ILIEV, IVAYLO, BG
[73] ILIEV, IVAYLO, BG
[85] 2016-01-13
[86] 2014-07-15 (PCT/BG2014/000028)
[87] (WO2015/006837)
[30] BG (002589) 2013-07-18

[11] **2,918,506**
[13] C
[51] **Int.Cl. G01M 17/007 (2006.01)**
[25] EN
[54] **DYNAMIC OPERATOR BEHAVIOR ANALYZER**
[54] **ANALYSEUR DYNAMIQUE DU COMPORTEMENT D'UN CONDUCTEUR**
[72] MANCI, LEWIS H., US
[72] SWIFT, PHILIP W., US
[72] WALTZ, LUCAS B., US
[73] CROWN EQUIPMENT CORPORATION, US
[85] 2016-01-15
[86] 2014-09-05 (PCT/US2014/054238)
[87] (WO2015/035130)
[30] US (61/874,172) 2013-09-05

[11] **2,919,101**
[13] C
[51] **Int.Cl. G06Q 10/10 (2012.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MANAGING INDIVIDUALS**
[54] **METHODES ET SYSTEMES DE GESTION DE PERSONNEL**
[72] PINARD, DEBBIE, CA
[72] PINARD, MELISSA, CA
[72] BAMFORD, SCOTT, CA
[73] INITLIVE INC., CA
[86] (2919101)
[87] (2919101)
[22] 2016-01-27
[30] US (62/108,232) 2015-01-27

[11] **2,919,698**
[13] C
[51] **Int.Cl. G01N 1/10 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR COLLECTION AND SAMPLING OF CHEMICAL SPECIES**
[54] **SYSTEMES ET PROCEDES POUR LA COLLECTE ET L'ECHANTILLONNAGE D'ESPECES CHIMIQUES**
[72] MARTIN, JOHN F., US
[72] POWELL, JOHN R., US
[72] EHNTHOLT, DANIEL J., US
[72] DRENNAN, PAUL MICHAEL, US
[72] JAKUBOWSKI, MICHAEL, US
[72] MCCOMISH, MADELINE, US
[72] POWELL, JOHN R., US
[73] TIAX LLC, US
[85] 2016-01-27
[86] 2014-08-08 (PCT/US2014/050305)
[87] (WO2015/021363)
[30] US (61/958,941) 2013-08-08

[11] **2,919,736**
[13] C
[51] **Int.Cl. C07K 16/40 (2006.01) A61K 39/395 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **MEDICAMENT COMPRISING ANTI-PHOSPHOLIPASE D4 ANTIBODY**
[54] **MEDICAMENT COMPRENANT UN ANTICORPS ANTI-PHOSPHOLIPASE D4**
[72] YAMAZAKI, TOMOHIDE, JP
[72] ENDO, MAYUKI, JP
[72] ISHIDA, KOJI, JP
[73] SBI BIOTECH CO., LTD., JP
[85] 2016-01-28
[86] 2014-07-30 (PCT/JP2014/070661)
[87] (WO2015/016386)
[30] JP (2013-158258) 2013-07-30

[11] **2,920,270**
[13] C
[51] **Int.Cl. G01S 7/04 (2006.01) G06T 7/62 (2017.01) G01S 7/56 (2006.01) G01S 13/90 (2006.01)**
[25] EN
[54] **DEVICE FOR ASSISTING IN THE DETECTION OF OBJECTS PLACED ON THE GROUND FROM IMAGES OF THE GROUND TAKEN BY A WAVE REFLECTION IMAGING DEVICE**
[54] **DISPOSITIF D'AIDE A LA DETECTION D'OBJETS POSES SUR LE SOL A PARTIR D'IMAGES DU SOL ISSUES D'UN DISPOSITIF D'IMAGERIE PAR REFLEXION D'ONDES**
[72] FERRAND, JULIEN, FR
[72] MARCHAL, LUDOVIC, FR
[73] THALES, FR
[85] 2016-02-02
[86] 2014-07-29 (PCT/EP2014/066289)
[87] (WO2015/014849)
[30] FR (1301865) 2013-08-02

[11] **2,921,964**
[13] C
[51] **Int.Cl. B64F 1/04 (2006.01) B64C 39/02 (2006.01)**
[25] EN
[54] **ELECTRIC UNMANNED AERIAL VEHICLE LAUNCHER**
[54] **LANCEUR ELECTRIQUE DE VEHICULE AERIEN SANS PILOTE**
[72] TULLY, ANDREW, US
[72] PAGE, DENNIS, US
[72] WITHERS, ROBERT, US
[72] NEELD, KENNETH, US
[72] ORNER, RICHARD L., JR., US
[73] ENGINEERED ARRESTING SYSTEMS CORPORATION, US
[85] 2016-02-19
[86] 2014-08-27 (PCT/US2014/052829)
[87] (WO2015/073091)
[30] US (61/870,281) 2013-08-27

[11] **2,922,315**
[13] C
[51] **Int.Cl. G06Q 40/02 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETERMINING INTEREST RATES AND INTEREST RATE BUY DOWN FOR INDIRECT FINANCING TRANSACTIONS**
[54] **SYSTEME ET METHODE PERMETTANT DE DETERMINER LES TAUX D'INTERET ET L'ACHAT D'UNE REDUCTION D'INTERET DANS LES TRANSACTIONS INDIRECTES**
[72] RIEGER, RAYMOND KEITH, CA
[73] FINX SOFTWARE TECHNOLOGY INC., CA
[86] (2922315)
[87] (2922315)
[22] 2016-03-01

[11] **2,922,537**
[13] C
[51] **Int.Cl. C12Q 1/6869 (2018.01) C12Q 1/6844 (2018.01) C12M 1/34 (2006.01) C12M 1/36 (2006.01)**
[25] EN
[54] **ACCURATE GENOME SEQUENCING OF SINGLE CELLS BY SINGLE-STRANDED AMPLIFICATION AND SEQUENCING**
[54] **SEQUENCAGE PRECIS DU GENOME DE CELLULES INDIVIDUELLES PAR L'AMPLIFICATION ET LE SEQUENCAGE D'UN SEUL BRIN**
[72] ZHANG, KUN, US
[72] HUANG, XIAOHUA, US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2016-02-25
[86] 2013-09-10 (PCT/US2013/059086)
[87] (WO2014/043140)
[30] US (61/700,276) 2012-09-12

[11] **2,924,008**
[13] C
[51] **Int.Cl. A62B 7/08 (2006.01) A62B 21/00 (2006.01) C01B 13/02 (2006.01)**
[25] EN
[54] **CHEMICAL OXYGEN GENERATOR WITH COMPACT IGNITION SYSTEM FOR POSSIBLE USE IN AN AIRCRAFT**
[54] **GENERATEUR D'OXYGENE CHIMIQUE AVEC SYSTEME D'ALLUMAGE COMPACT POUR UTILISATION POSSIBLE DANS UN AERONEF**
[72] MACK, WILLIAM A., JR., US
[72] DONOFRIO, WILLIAM A., US
[72] KUBIK, DEAN A., US
[72] ALESHINA, YELENA, US
[73] AVOX SYSTEMS INC., US
[85] 2016-03-09
[86] 2014-10-10 (PCT/US2014/060094)
[87] (WO2015/054610)
[30] US (61/889,658) 2013-10-11

[11] **2,924,890**
[13] C
[51] **Int.Cl. C10M 169/04 (2006.01)**
[25] EN
[54] **LUBRICANT COMPOSITIONS FOR DIRECT INJECTION ENGINES**
[54] **COMPOSITIONS LUBRIFIANTES POUR MOTEURS A INJECTION DIRECTE**
[72] MOSIER, PATRICK E., US
[72] DIETZ, JEFFRY G., US
[72] SAMMUT, ALEXANDER, US
[73] THE LUBRIZOL CORPORATION, US
[85] 2016-03-18
[86] 2014-09-19 (PCT/US2014/056442)
[87] (WO2015/042337)
[30] US (61/879,721) 2013-09-19

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[11] **2,925,040**
[13] C
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4184 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **MONO-PHOSPHATE SALT OF 6-FLUORO-2-[4-(PYRIDIN-2-YL)BUT-3-YN-1 -YL]IMIDAZO[1 ,2A]PYRIDINE AND POLYMORPHS THEREOF AS NEGATIVE ALLOSTERIC MODULATOR OF MGLU5 RECEPTOR**
[54] **SEL MONO-PHOSPHATE DE LA 6-FLUORO-2-[4-(PYRIDIN-2-YL)BUT-3-YN-1 -YL]IMIDAZO[1,2A]PYRIDINE ET POLYMORPHES ASSOCIES UTILISES COMME MODULATEUR ALLOSTERIQUE NEGATIF DU RECEPTEUR MGLU5**
[72] BONNET, BEATRICE, FR
[72] POLI, SONIA MARIA, CH
[73] ADDEX PHARMA S.A., CH
[85] 2016-03-21
[86] 2014-09-25 (PCT/EP2014/070492)
[87] (WO2015/044270)
[30] GB (1317022.0) 2013-09-25

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[11] **2,925,096**
[13] C
[51] **Int.Cl. E21B 19/10 (2006.01) E21B 19/07 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR SETTING SLIPS ON A TUBULAR MEMBER**
[54] **APPAREIL ET PROCEDES DE POSE DE COINS SUR UN ELEMENT TUBULAIRE**
[72] MOSING, DONALD E., US
[72] BOULIGNY, VERNON J., US
[72] STELLY, JOHN E., US
[72] BERNARD, TIMOTHY, US
[72] CHU, JACOB, US
[72] PAVAL, ADRIAN, US
[73] FRANK'S INTERNATIONAL, LLC, US
[85] 2016-03-22
[86] 2014-10-20 (PCT/US2014/061415)
[87] (WO2015/058208)
[30] US (61/961,558) 2013-10-18
[30] US (61/942,971) 2014-02-21
[30] US (62/001,500) 2014-05-21

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[11] **2,926,003**
[13] C
[51] **Int.Cl. F01D 5/14 (2006.01) F04D 29/32 (2006.01) F04D 29/68 (2006.01)**
[25] FR
[54] **TURBOMACHINE PART WITH A NON-AXISYMMETRIC SURFACE**
[54] **PIECE DE TURBOMACHINE A SURFACE NON-AXISYMETRIQUE**
[72] CELLIER, DAMIEN JOSEPH, FR
[73] SNECMA, FR
[85] 2016-03-31
[86] 2014-10-10 (PCT/FR2014/052586)
[87] (WO2015/052455)
[30] FR (1359895) 2013-10-11

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[11] **2,926,637**
[13] C
[51] **Int.Cl. F22B 37/20 (2006.01)**
[25] EN
[54] **STEAM GENERATOR TUBE SUPPORT**
[54] **SUPPORT DE TUBE DE GENERATEUR DE VAPEUR**
[72] KOSKI, WILLIAM, US
[72] LISZKAI, THOMAS, US
[72] KRUSKAMP, ALEX, US
[72] CADELL, SETH, US
[72] POLLOCK, WESTON, US
[73] NUSCALE POWER, LLC, US
[85] 2016-04-06
[86] 2014-09-25 (PCT/US2014/057539)
[87] (WO2015/099854)
[30] US (61/921,044) 2013-12-26
[30] US (14/261,830) 2014-04-25

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[11] **2,927,416**
[13] C
[51] **Int.Cl. B29C 48/10 (2019.01) B29C 48/885 (2019.01) B29C 55/28 (2006.01)**
[25] EN
[54] **BLOW FILM LINE AND METHOD FOR OPERATING A BLOW FILM LINE**
[54] **LIGNE DE SOUFFLAGE DE FEUILLE MINCE ET METHODE D'EXPLOITATION**
[72] SCHUMACHER, HOLGER, DE
[73] REIFENHAUSER GMBH & CO. KG MASCHINENFABRIK, DE
[85] 2016-04-14
[86] 2014-10-15 (PCT/DE2014/000521)
[87] (WO2015/055169)
[30] DE (10 2013 017 072.9) 2013-10-15

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[11] **2,927,684**
[13] C
[51] **Int.Cl. A01N 1/02 (2006.01) C12N 5/077 (2010.01)**
[25] EN
[54] **PRESERVATION OF BIOMATERIAL PROPERTIES AND METHODS OF STORING**
[54] **CONSERVATION DES PROPRIETES DES BIOMATERIAUX ET PROCEDES DE STOCKAGE**
[72] BROCKBANK, KELVIN G.M., US
[73] LIFELINE SCIENTIFIC, INC., US
[85] 2016-04-15
[86] 2013-10-18 (PCT/US2013/065666)
[87] (WO2014/063041)
[30] US (61/715,576) 2012-10-18

[11] **2,927,962**
[13] C
[51] **Int.Cl. G06K 7/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A MEMORY-CARD-READING BODY, CORRESPONDING MEMORY-CARD-READING BODY AND MEMORY-CARD-READING TERMINAL**
[54] **PROCEDE DE FABRICATION D'UN CORPS DE LECTEUR DE CARTE A MEMOIRE, CORPS DE LECTEUR DE CARTE A MEMOIRE ET TERMINAL DE LECTURE DE CARTE A MEMOIRE CORRESPONDANTS**
[72] JADEAU, JOHANN, FR
[72] PAVAGEAU, STEPHANE, FR
[73] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR
[85] 2016-04-19
[86] 2014-10-24 (PCT/EP2014/072824)
[87] (WO2015/062982)
[30] FR (1360708) 2013-10-31

[11] **2,928,346**
[13] C
[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/30 (2020.01) A24F 40/46 (2020.01) A61M 11/04 (2006.01) A61M 15/06 (2006.01)**
[25] EN
[54] **AEROSOL-GENERATING SYSTEM FOR GENERATING AND CONTROLLING THE QUANTITY OF NICOTINE SALT PARTICLES**
[54] **SYSTEME DE GENERATION D'AEROSOL POUR GENERER ET CONTROLER LA QUANTITE DE PARTICULES DE SEL DE NICOTINE**
[72] SILVESTRINI, PATRICK CHARLES, CH
[72] ZINOVIK, IHAR, CH
[73] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2016-04-21
[86] 2014-12-12 (PCT/EP2014/077545)
[87] (WO2015/091258)
[30] EP (13198390.0) 2013-12-19

[11] **2,928,377**
[13] C
[51] **Int.Cl. B27C 3/08 (2006.01)**
[25] EN
[54] **WOOD-DRILL ADAPTER SYSTEMS**
[54] **MECANISMES ADAPTATEURS DE PERCEUSE A BOIS**
[72] LITTLE, BRAD, CA
[73] LITTLE, BRAD, CA
[86] (2928377)
[87] (2928377)
[22] 2016-04-28

[11] **2,928,784**
[13] C
[51] **Int.Cl. H01M 8/02 (2016.01) H01M 8/12 (2016.01)**
[25] FR
[54] **SEAL FOR AN ELECTROCHEMICAL DEVICE, PROCESS FOR MANUFACTURING AND FITTING THE SEAL AND THIS DEVICE**
[54] **JOINT D'ETANCHEITE POUR DISPOSITIF ELECTROCHIMIQUE, PROCEDE DE FABRICATION ET D'ASSEMBLAGE DU JOINT ET CE DISPOSITIF**
[72] DI IORIO, STEPHANE, FR
[72] ORESIC, BRUNO, FR
[72] PETIT, JULIEN, FR
[72] REYTIER, MAGALI, FR
[73] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2016-04-26
[86] 2014-12-02 (PCT/IB2014/066518)
[87] (WO2015/083076)
[30] FR (1362100) 2013-12-04

[11] **2,929,358**
[13] C
[51] **Int.Cl. B01D 21/02 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR STATIC SEDIMENTATION TESTS COMPRISING A PLURALITY OF SEDIMENTATION CYLINDERS, WHICH ARE SUBJECT TO THE SAME MIXING CONDITIONS**
[54] **APPAREIL ET METHODE DE TESTS DE SEDIMENTATION STATIQUES COMPORTANT UNE PLURALITE DE CYLINDRES DE SEDIMENTATION, QUI SONT SOUMIS AUX MEMES CONDITIONS DE MELANGE**
[72] ENGELS, JONATHAN, CL
[72] AMELUNXEN, PETER, CL
[73] AVOCA ENGINEERS SPA, CL
[86] (2929358)
[87] (2929358)
[22] 2016-05-09
[30] CL (2015-1499) 2015-06-03

[11] **2,929,589**
[13] C
[51] **Int.Cl. A47C 31/10 (2006.01)**
[25] EN
[54] **PASSIVE MATTRESS ENCASEMENT**
[54] **ENVELOPPE POUR MATELAS PASSIVE**
[72] SCARLESKI, WILLIAM JOHN, US
[73] LEVITATION SCIENCES LLC, US
[85] 2016-05-04
[86] 2014-10-02 (PCT/US2014/058778)
[87] (WO2015/051090)
[30] US (14/046,113) 2013-10-04

[11] **2,929,592**
[13] C
[51] **Int.Cl. A01B 73/02 (2006.01) A01C 7/00 (2006.01)**
[25] EN
[54] **IMPLEMENT WEIGHT MANAGEMENT SYSTEMS, METHODS, AND APPARATUS**
[54] **SYSTEMES, PROCEDES ET APPAREIL DE GESTION DU POIDS D'UN ENGIN**
[72] SAUDER, DEREK (DECEASED), US
[72] STOLLER, JASON, US
[73] PRECISION PLANTING LLC, US
[85] 2016-05-03
[86] 2014-11-08 (PCT/US2014/064704)
[87] (WO2015/070115)
[30] US (61/901,929) 2013-11-08

[11] **2,929,603**
[13] C
[51] **Int.Cl. G21C 9/02 (2006.01)**
[25] EN
[54] **ACTUATING A NUCLEAR REACTOR SAFETY DEVICE**
[54] **ACTIONNEMENT DE DISPOSITIF DE SECURITE DE REACTEUR NUCLEAIRE**
[72] HOUGH, TED, US
[72] ABB, AARON, US
[72] BRANAM, TIM, US
[73] NUSCALE POWER, LLC, US
[85] 2016-05-04
[86] 2014-10-24 (PCT/US2014/062105)
[87] (WO2015/099877)
[30] US (61/921,041) 2013-12-26
[30] US (14/455,348) 2014-08-08

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[11] **2,929,667**
[13] C
[51] **Int.Cl. B61D 3/18 (2006.01) B60P 7/06 (2006.01)**
[25] EN
[54] **AUTO-RACK RAILROAD CAR VEHICLE RESTRAINT APPARATUS**
[54] **APPAREIL DE RETENUE DE VEHICULE DE WAGON PORTE-AUTOMOBILES**
[72] ANDERSON, JOHN D., US
[72] PEACH, WALTER J., US
[72] BURKE, MICHAEL K., US
[73] STANDARD CAR TRUCK COMPANY, US
[85] 2016-05-04
[86] 2014-11-14 (PCT/US2014/065602)
[87] (WO2015/077132)
[30] US (14/084,081) 2013-11-19
[30] US (14/319,147) 2014-06-30

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[11] **2,929,695**
[13] C
[51] **Int.Cl. C09K 5/04 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING TETRAFLUOROPROPENE AND TETRAFLUOROETHANE; THEIR USE IN POWER CYCLES; AND POWER CYCLE APPARATUS**
[54] **COMPOSITIONS COMPRENANT DU TETRAFLUOROPROPENE ET DU TETRAFLUOROETHANE; LEUR UTILISATION DANS DES CYCLES DE PUISSANCE; ET APPAREIL A CYCLE DE PUISSANCE**
[72] KONTOMARIS, KONSTANTINOS, US
[73] THE CHEMOURS COMPANY FC, LLC, US
[85] 2016-05-04
[86] 2014-11-21 (PCT/US2014/066828)
[87] (WO2015/077570)
[30] US (61/907,407) 2013-11-22

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[11] **2,929,780**
[13] C
[51] **Int.Cl. C07D 413/04 (2006.01) A61K 31/513 (2006.01) A61P 9/00 (2006.01)**
[25] EN
[54] **SALTS OF 1-(3-METHYL-2-OXO-2,3-DIHYDRO-1,3-BENZOXAZOL-6-YL)-2,4-DIOXO-3-[(1R)-4-(TRIFLUORMETHYL)-2,3-DIHYDRO-1H-INDEN-1-YL]-1,2,3,4-TETRAHYDROPYRIMIDIN-5-CARBOXYLIC ACID**
[54] **SELS DE L'ACIDE 1-(3-METHYL-2-OXO-2,3-DIHYDRO-1,3-BENZOXAZOL-6-YL)-2,4-DIOXO-3-[(1R)-4-(TRIFLUOROMETHYL)-2,3-DIHYDRO-LH-INDEN-1-YL]-1,2,3,4-TETRAHYDROPYRIMIDINE-5-CARBOXYLIQUE**
[72] OLENIK, BRITTA, DE
[72] KEIL, BIRGIT, DE
[72] HINZ, MARTIN-HOLGER, DE
[72] FURSTNER, CHANTAL, DE
[72] JESKE, MARIO, DE
[72] ACKERSTAFF, JENS, DE
[73] BAYER PHARMA AKTIENGESELLSCHAFT, DE
[85] 2016-05-05
[86] 2014-11-05 (PCT/EP2014/073801)
[87] (WO2015/067652)
[30] EP (13192177.7) 2013-11-08

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[11] **2,929,910**
[13] C
[51] **Int.Cl. A61K 49/00 (2006.01) A61K 9/107 (2006.01)**
[25] EN
[54] **EMULSIONS OR MICROEMULSIONS FOR USE IN ENDOSCOPIC MUCOSAL RESECTIONING AND/OR ENDOSCOPIC SUBMUCOSAL DISSECTION**
[54] **EMULSIONS OU MICRO-EMULSIONS DESTINEES A ETRE UTILISEES DANS DES RESECTIONS ENDOSCOPIQUES DE MUQUEUSES ET/OU DES DISSECTIONS ENDOSCOPIQUES SOUS-MUQUEUSES**
[72] LONGO, LUIGI MARIA, IT
[72] MORO, LUIGI, IT
[72] FRIMONTI, ENRICO, IT
[72] REPICI, ALESSANDRO, IT
[73] COSMO TECHNOLOGIES LTD, IE
[85] 2016-05-06
[86] 2014-11-18 (PCT/EP2014/074858)
[87] (WO2015/075015)
[30] IT (MI2013A001927) 2013-11-20

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[11] **2,929,975**
[13] C
[51] **Int.Cl. C10L 10/00 (2006.01) C10L 1/2383 (2006.01) C10L 1/24 (2006.01)**
[25] EN
[54] **IMPROVEMENTS TO ADDITIVE COMPOSITIONS AND TO FUEL OILS**
[54] **AMELIORATIONS DE COMPOSITIONS D'ADDITIF ET D'HUILES DE PETROLE**
[72] GOBERDHAN, DHANESH, GB
[72] HOPKINS, SALLY ANN, GB
[72] THEAKER, GILES WILLIAM, GB
[73] INFINEUM INTERNATIONAL LIMITED, GB
[86] (2929975)
[87] (2929975)
[22] 2016-05-13
[30] EP (15167750.7) 2015-05-14

[11] **2,930,241**
[13] C
[51] **Int.Cl. G01L 5/00 (2006.01) G01G 9/00 (2006.01) G01L 5/13 (2006.01) G01M 1/10 (2006.01) G01M 1/12 (2006.01) G01M 17/03 (2006.01) G01N 19/02 (2006.01) G05D 3/12 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ROBOT OPERATING ENVIRONMENT DISCOVERY**
[54] **SYSTEME ET METHODE DESTINES A UN ROBOT EFFECTUANT LA DECOUVERTE D'UN ENVIRONNEMENT**
[72] WEBSTER, NEIL, CA
[73] ROSS VIDEO LIMITED, CA
[86] (2930241)
[87] (2930241)
[22] 2016-05-17
[30] US (14/714,489) 2015-05-18

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[11] **2,930,294**
[13] C
[51] **Int.Cl. C02F 1/58 (2006.01) B09C 1/00 (2006.01) C02F 1/52 (2006.01)**
[25] EN
[54] **TREATMENT OF ARSENIC CONTAMINATED SOIL AND WATER**
[54] **TRAITEMENT D'EAU ET DE SOL CONTAMINES A L'ARSENIC**
[72] BLOCK, PHILIP A., US
[73] PEROXYCHEM LLC, US
[85] 2016-05-10
[86] 2014-11-11 (PCT/US2014/064943)
[87] (WO2015/070199)
[30] US (61/902,416) 2013-11-11

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[11] **2,930,851**
[13] C
[51] **Int.Cl. F04F 5/18 (2006.01) C10L 3/10 (2006.01) F04B 39/00 (2006.01) F15B 21/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR MULTI-STAGE COMPRESSION OF A GAS USING A LIQUID**
[54] **PROCEDE ET SYSTEME POUR UNE COMPRESSION A PLUSIEURS ETAGES D'UN GAZ A L'AIDE D'UN LIQUIDE**
[72] CHIARA, FABIO, US
[72] DURAND, JAMES, US
[72] UNDERHILL, ROBERT, US
[72] FLY, GERALD, US
[72] TRIBERTI, MATTEO, US
[73] OHIO STATE INNOVATION FOUNDATION, US
[85] 2016-05-16
[86] 2014-11-20 (PCT/US2014/066632)
[87] (WO2015/077462)
[30] US (61/906,462) 2013-11-20
[30] US (14/505,122) 2014-10-02

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[11] **2,930,881**
[13] C
[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/24 (2006.01)**
[25] EN
[54] **PEN NEEDLE WITH OUTER COVER**
[54] **PARTIE EXTERIEURE D'AIGUILLE DE STYLO ET ENVELOPPE EXTERIEURE**
[72] SULLIVAN, SEAN, US
[72] SRINIVASAN, SUDARSAN, US
[72] DIBIASI, MICHAEL, US
[72] KNAPP, KEITH, US
[72] OZA, KUNJAL, US
[72] VIJAYACHANDRAN, SAJAYESH, US
[72] KAMBLE, GANESH, IN
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2016-05-16
[86] 2014-12-04 (PCT/US2014/068567)
[87] (WO2015/085068)
[30] US (61/912,538) 2013-12-05

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[11] **2,931,122**
[13] C
[51] **Int.Cl. B01J 8/24 (2006.01) C07C 2/86 (2006.01)**
[25] EN
[54] **INCREASED CONVERSION OF RECYCLED OXYGENATES IN MTO**
[54] **AUGMENTATION DE LA TRANSFORMATION DE COMPOSES OXYGENES RECYCLES EN MTO**
[72] SENETAR, JOHN J., US
[72] KAUFF, DANIEL A., US
[72] BOZZANO, ANDREA G., US
[73] UOP LLC, US
[85] 2016-05-18
[86] 2014-11-14 (PCT/US2014/065667)
[87] (WO2015/077142)
[30] US (14/089,104) 2013-11-25

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[11] **2,931,174**
[13] C
[51] **Int.Cl. A61L 15/18 (2006.01) A61F 13/00 (2006.01) A61L 15/42 (2006.01) A61L 15/44 (2006.01)**
[25] EN
[54] **NO-EMITTING MEDICAL DRESSING COMPRISING AN NO-GENERATING MODULE AND A RADIATION-EMITTING MODULE**
[54] **PANSEMENT MEDICAL A EMISSION DE NO COMPRENANT UN MODULE DE PRODUCTION DENO ET UN MODULE EMETTEUR DE RAYONNEMENT**
[72] SUSCHEK, CHRISTOPH V., DE
[73] BSN MEDICAL GMBH, DE
[85] 2016-05-06
[86] 2014-11-07 (PCT/EP2014/074029)
[87] (WO2015/067746)
[30] DE (10 2013 018 642.0) 2013-11-07

[11] **2,931,402**
[13] C
[51] **Int.Cl. A47J 27/04 (2006.01)**
[25] FR
[54] **METHOD AND APPLIANCE FOR HEATING AND/OR COOKING FOODS WITH STEAM**
[54] **PROCEDE ET APPAREIL DE CHAUFFAGE ET/OU DE CUISSON D'ALIMENTS A LA VAPEUR**
[72] VALANCE, NICOLAS, FR
[72] BLOND, LAURENT, FR
[73] SEB S.A., FR
[85] 2016-05-24
[86] 2014-12-10 (PCT/FR2014/053251)
[87] (WO2015/086989)
[30] FR (1362546) 2013-12-13

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[11] **2,931,406**
[13] C
[51] **Int.Cl. B29C 35/08 (2006.01) B29C 55/22 (2006.01)**
[25] EN
[54] **TUBULAR WAVEGUIDE APPLICATOR**
[54] **APPLICATEUR DE GUIDE D'ONDES TUBULAIRE**
[72] WILBER, WILLIAM D., US
[72] SHUPING, DONALD B., US
[73] MICROWAVE TECHNIQUES, LLC, US
[85] 2016-05-24
[86] 2014-10-20 (PCT/US2014/061341)
[87] (WO2015/080812)
[30] US (14/091,039) 2013-11-26

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[11] **2,931,460**
[13] C
[51] **Int.Cl. A61L 29/00 (2006.01) A01N 31/02 (2006.01) A01N 31/16 (2006.01) A01N 43/16 (2006.01) A01N 43/88 (2006.01) A01N 43/90 (2006.01) A01N 47/44 (2006.01) A01P 1/00 (2006.01) A61K 31/09 (2006.01) A61K 31/155 (2006.01) A61K 31/549 (2006.01) A61K 31/7036 (2006.01) A61K 38/14 (2006.01) A61P 31/04 (2006.01) C09K 3/00 (2006.01) C23F 15/00 (2006.01)**
[25] EN
[54] **CATHETER LOCK SOLUTION FORMULATIONS**
[54] **FORMULATIONS DE SOLUTION DE BLOCAGE DE CATHETER**
[72] WOO, LECON, US
[72] ANDERSON, WILLIAM, US
[73] MEDLINE INDUSTRIES, INC., US
[85] 2016-05-24
[86] 2014-11-25 (PCT/US2014/067512)
[87] (WO2015/077798)
[30] US (61/908,438) 2013-11-25

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[11] **2,931,712**
[13] C
[51] **Int.Cl. E04H 12/18 (2006.01)**
[25] EN
[54] **INDUSTRIAL LIGHTING SUPPORT SYSTEM**
[54] **SYSTEME DE SUPPORT D'ECLAIRAGE INDUSTRIEL**
[72] GRANT, ANDREW JAMES, US
[72] COOGLER, ALLEN, US
[72] WALTON, MICHAEL, CA
[72] KYNE, JEREMY, CA
[73] EATON INTELLIGENT POWER LIMITED, IE
[85] 2016-05-25
[86] 2014-11-24 (PCT/US2014/067194)
[87] (WO2015/077732)
[30] US (61/908,540) 2013-11-25
[30] US (14/175,666) 2014-02-07
[30] US (61/939,215) 2014-02-12

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[11] **2,931,930**
[13] C
[51] **Int.Cl. C23C 18/12 (2006.01) B05D 1/32 (2006.01) B05D 3/04 (2006.01) C23C 18/06 (2006.01) F01D 5/28 (2006.01)**
[25] FR
[54] **METHOD AND SYSTEM FOR DEPOSITING OXIDE ON A POROUS COMPONENT**
[54] **PROCEDE ET SYSTEME DE DEPOT D'OXYDE SUR UN COMPOSANT POREUX**
[72] BACOS, MARIE-PIERRE, FR
[72] ROUSSEAU, FREDERIC, FR
[72] MORVAN, DANIEL, FR
[73] OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES (ONERA), FR
[85] 2016-05-27
[86] 2014-12-01 (PCT/FR2014/053103)
[87] (WO2015/082819)
[30] FR (1361945) 2013-12-02

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[11] **2,932,314**
[13] C
[51] **Int.Cl. A47J 31/60 (2006.01)**
[25] EN
[54] **DRINKS PREPARATION MACHINE AND A METHOD FOR OPERATING A DRINKS PREPARATION MACHINE**
[54] **MACHINE DE PREPARATION DE BOISSON ET PROCEDE POUR FAIRE FONCTIONNER UNE MACHINE DE PREPARATION DE BOISSON**
[72] FASNACHT, LUKAS, CH
[73] JURA ELEKTROAPPARATE AG, CH
[85] 2016-06-01
[86] 2014-12-05 (PCT/EP2014/003257)
[87] (WO2015/082079)
[30] EP (13405134.1) 2013-12-06

[11] **2,932,322**
[13] C
[51] **Int.Cl. A47L 5/24 (2006.01)**
[25] EN
[54] **SURFACE CLEANING APPARATUS CONFIGURABLE IN A STORAGE POSITION**
[54] **APPAREIL DE NETTOYAGE DE SURFACE POUVANT ETRE CONFIGURE DANS UNE POSITION DE RANGEMENT**
[72] GIDWELL, CHRISTOPHER, US
[73] SHARKNINJA OPERATING LLC, US
[85] 2016-05-12
[86] 2015-01-21 (PCT/US2015/012287)
[87] (WO2015/077802)

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[11] **2,932,529**
[13] C
[51] **Int.Cl. A61K 31/18 (2006.01) A61P 25/04 (2006.01)**
[25] EN
[54] **THERAPEUTIC AND/OR PREVENTIVE AGENT COMPRISING 1-INDANSULFAMIDE DERIVATIVE FOR PAIN**
[54] **AGENT THERAPEUTIQUE ET/OU PREVENTIF CONTENANT UN DERIVE DE 1-INDANSULFAMIDE CONTRE LA DOULEUR**
[72] HIGASHIYAMA, HIROYUKI, JP
[72] KAZUTA, YUJI, JP
[72] HASHIMOTO, KEISUKE, JP
[73] EISAI R&D MANAGEMENT CO., LTD., JP
[85] 2016-06-02
[86] 2014-12-17 (PCT/JP2014/083374)
[87] (WO2015/093515)
[30] JP (2013-262743) 2013-12-19

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[11] **2,932,966**
[13] C
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 1/19 (2006.01) C12N 1/21 (2006.01) C12N 15/13 (2006.01) C12N 15/70 (2006.01) C12N 15/81 (2006.01)**
[25] EN
[54] **PD-1 ANTIBODY, ANTIGEN-BINDING FRAGMENT THEREOF, AND MEDICAL USE THEREOF**
[54] **ANTICORPS ANTI-PD-1, SON FRAGMENT DE LIAISON A L'ANTIGENE, ET SON APPLICATION MEDICALE**
[72] YUAN, JIJUN, CN
[72] QU, XIANGDONG, CN
[72] LIN, JUFANG, CN
[72] YE, XIN, CN
[72] CAO, GUOQING, CN
[72] TAO, WEIKANG, CN
[72] ZHANG, LIANSHAN, CN
[72] ZHANG, LEI, CN
[72] YANG, LI, CN
[73] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN
[73] JIANGSU HENGRUI MEDICINE CO., LTD., CN
[85] 2016-06-07
[86] 2014-11-14 (PCT/CN2014/091090)
[87] (WO2015/085847)
[30] CN (201310681942.6) 2013-12-12

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[11] **2,933,133**
[13] C
[51] **Int.Cl. H01P 1/12 (2006.01) H01P 1/15 (2006.01) H01P 1/18 (2006.01) H04B 1/04 (2006.01) H04B 1/18 (2006.01)**
[25] EN
[54] **SELF-CHARACTERIZING, SELF CALIBRATING AND SELF-MEASURING IMPEDANCE TUNERS**
[54] **DISPOSITIFS D'ACCORD D'IMPEDANCE A CARACTERISATION AUTOMATIQUE, A ETALONNAGE AUTOMATIQUE ET A MESURE AUTOMATIQUE**
[72] SIMPSON, GARY R., US
[72] DUDKIEWICZ, STEVEN M., CA
[73] MAURY MICROWAVE, INC., US
[85] 2016-06-08
[86] 2014-10-28 (PCT/US2014/062569)
[87] (WO2015/065972)
[30] US (61/897,160) 2013-10-29
[30] US (14/525,105) 2014-10-27

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[11] **2,933,186**
[13] C
[51] **Int.Cl. C02F 1/00 (2006.01) C02F 1/28 (2006.01)**
[25] EN
[54] **FLOW CONTROL DEVICE FOR FILTER AS YOU POUR SYSTEM**
[54] **DISPOSITIF DE REGULATION DU DEBIT POUR DES SYSTEMES DE FILTRATION PAR VERSEMENT DIRECT**
[72] DANI, NIKHIL P., US
[72] MCDONALD, JONATHAN, US
[72] DOAN, NICOLE, US
[72] WIEGELE, JONATHAN TAYLOR, US
[73] BRITA LP, US
[85] 2016-06-08
[86] 2014-12-08 (PCT/US2014/069037)
[87] (WO2015/094747)
[30] US (14/132,134) 2013-12-18
[30] US (61/940,101) 2014-02-14

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[11] **2,933,292**
[13] C
[51] **Int.Cl. F01D 25/18 (2006.01)**
[25] EN
[54] **APPARATUS FOR SEALING AN INTERNAL ENVIRONMENT OF A TURBOMACHINE**
[54] **APPAREIL D'ISOLEMENT D'UN ENVIRONNEMENT INTERNE D'UNE TURBOMACHINE**
[72] MARIOTTI, GABRIELE, IT
[72] GIORDANO, ROSARIA, IT
[72] BIANCO, LUCREZIA, IT
[73] NUOVO PIGNONE TECNOLOGIE - S.R.L., IT
[85] 2016-06-09
[86] 2014-12-16 (PCT/EP2014/077892)
[87] (WO2015/091434)
[30] IT (CO2013A000070) 2013-12-18

[11] **2,933,531**
[13] C
[51] **Int.Cl. F02C 7/232 (2006.01)**
[25] FR
[54] **FLUID-DRAINING DEVICE FOR AN AIRCRAFT ENGINE**
[54] **DISPOSITIF DE DRAINAGE DE FLUIDES POUR UN MOTEUR D'AERONEF**
[72] PY, JEAN-MICHEL PIERRE CLAUDE, FR
[72] BENEZECH, PHILIPPE JEAN RENE MARIE, FR
[72] COMBEBIAS, SEBASTIEN, FR
[72] FOUCHE, SEBASTIEN, FR
[72] HERNANDEZ, LORENZO HUACAN, FR
[72] LE BORGNE, ERIC, FR
[72] NAPIAS, LIONEL, FR
[72] QUAIREAU, MAXIME, FR
[72] ROGER, PHILIPPE, FR
[72] ZORDAN, CEDRIC, FR
[73] TURBOMECA, FR
[85] 2016-06-10
[86] 2014-12-15 (PCT/FR2014/053333)
[87] (WO2015/092243)
[30] FR (1363087) 2013-12-19

[11] **2,933,558**
[13] C
[51] **Int.Cl. G01S 5/02 (2010.01) G01S 3/26 (2006.01) G01S 3/36 (2006.01) G01S 5/04 (2006.01) G01S 5/12 (2006.01) G01S 7/02 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR DETERMINING ANGLE OF ARRIVAL (AOA) IN A RADAR WARNING RECEIVER**
[54] **PROCEDES ET APPAREIL PERMETTANT DE DETERMINER L'ANGLE D'ARRIVEE (AOA) DANS UN DETECTEUR D'EMISSIONS RADAR**
[72] GUDIM, ERIC J., US
[72] WELLMAN, WILLIAM H., US
[73] RAYTHEON COMPANY, US
[85] 2016-06-09
[86] 2015-01-15 (PCT/US2015/011570)
[87] (WO2015/156873)
[30] US (14/224,667) 2014-03-25

[11] **2,934,248**
[13] C
[51] **Int.Cl. F04D 29/046 (2006.01) F04D 1/06 (2006.01) F04D 29/041 (2006.01) F04D 29/06 (2006.01)**
[25] EN
[54] **THRUST BEARINGS FOR CENTRIFUGAL PUMPS**
[54] **PALIERS DE BUTEE POUR POMPES CENTRIFUGES**
[72] GULATI, MANMOHAN SINGH, US
[73] BL TECHNOLOGIES, INC., US
[85] 2016-06-16
[86] 2014-12-08 (PCT/US2014/068978)
[87] (WO2015/094728)
[30] US (14/136,175) 2013-12-20

[11] **2,934,292**
[13] C
[51] **Int.Cl. E21B 43/22 (2006.01) C09K 8/582 (2006.01) C12P 5/02 (2006.01) E21B 43/25 (2006.01) E21B 43/27 (2006.01)**
[25] EN
[54] **A PROCESS OF SUSTAINING METHANE PRODUCTION IN A SUBTERRANEAN CARBONACEOUS MEDIUM**
[54] **PROCEDE DE SOUTIEN DE PRODUCTION DE METHANE DANS UN MILIEU CARBONE SOUTERRAIN**
[72] LAMBOURNE, DAVID, AU
[72] HENDRY, PHILIP, AU
[73] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[85] 2016-06-17
[86] 2014-12-19 (PCT/AU2014/001150)
[87] (WO2015/089566)
[30] AU (2013904965) 2013-12-19
[30] AU (PCT/AU2013/001488) 2013-12-19

[11] **2,934,378**
[13] C
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4985 (2006.01) A61P 29/00 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **TETRAHYDRO-TETRAZOLO[1 ,5-A]PYRAZINES AS ROR-GAMMA INHIBITORS**
[54] **TETRAHYDROTETRAZOLO[1,5-A]PYRAZINES UTILISEES COMME INHIBITEURS DU ROR-GAMMA**
[72] FINSINGER, DIRK, DE
[72] WUCHERER-PLIETKER, MARGARITA, DE
[72] BLUME, BEATRIX, DE
[73] MERCK PATENT GMBH, DE
[85] 2016-06-17
[86] 2014-11-26 (PCT/EP2014/003154)
[87] (WO2015/090507)
[30] EP (13005929.8) 2013-12-19

[11] **2,934,796**
[13] C
[51] **Int.Cl. G01N 21/892 (2006.01)**
[25] EN
[54] **SURFACE DEFECT DETECTING METHOD AND SURFACE DEFECT DETECTING APPARATUS**
[54] **PROCEDE DE DETECTION D'UN DEFAUT DE SURFACE ET DISPOSITIF DE DETECTION D'UN DEFAUT DE SURFACE**
[72] ONO, HIROAKI, JP
[72] KODAMA, TOSHIFUMI, JP
[72] KOSHIHARA, TAKAHIRO, JP
[72] OGAWA, AKIHIRO, JP
[72] IIZUKA, YUKINORI, JP
[73] JFE STEEL CORPORATION, JP
[85] 2016-06-21
[86] 2014-12-24 (PCT/JP2014/084077)
[87] (WO2015/098929)
[30] JP (2013-270881) 2013-12-27
[30] JP (2014-090995) 2014-04-25
[30] JP (2014-090996) 2014-04-25

[11] **2,934,836**
[13] C
[51] **Int.Cl. A61K 33/26 (2006.01) A61K 31/351 (2006.01) A61P 7/06 (2006.01)**
[25] EN
[54] **DOSAGE REGIMEN OF FERRIC TRIMALTOL**
[54] **SCHEMA POSOLOGIQUE DE TRIMALTOL FERRIQUE**
[72] SCHWEIGER, CHRISTIAN, CH
[72] STERRITT, CARL ANDREW, CH
[72] HOWELL, JULIAN DAVID, CH
[73] SHIELD TX (UK) LIMITED, GB
[85] 2016-06-22
[86] 2015-01-06 (PCT/IB2015/050098)
[87] (WO2015/101971)
[30] GB (1400171.3) 2014-01-06
[30] GB (1418708.2) 2014-10-21

[11] **2,934,893**
[13] C
[51] **Int.Cl. B63B 59/02 (2006.01) B63B 22/00 (2006.01) B63B 22/22 (2006.01) B63B 59/00 (2006.01)**
[25] EN
[54] **ATTACHMENT FLANGE FOR BUOYS AND MARINE FENDERS**
[54] **BRIDE D'ATTACHE POUR BOUEES ET DEFENSES MARINES**
[72] BEYER-OLSEN, JAN, US
[73] POLYFORM U.S., LTD., US
[85] 2016-06-21
[86] 2015-01-21 (PCT/US2015/012277)
[87] (WO2015/116452)
[30] US (14/167,467) 2014-01-29

[11] **2,934,934**
[13] C
[51] **Int.Cl. G01N 27/403 (2006.01)**
[25] EN
[54] **MULTI-ORIENTATION TEST STRIP**
[54] **BANDELETTE REACTIVE A ORIENTATIONS MULTIPLES**
[72] WALSH, RYAN, US
[72] ELDER, DAVID, GB
[72] SETFORD, STEVEN, GB
[72] FAULKNER, ALLAN, GB
[73] CILAG GMBH INTERNATIONAL, CH
[85] 2016-06-22
[86] 2014-12-22 (PCT/US2014/071805)
[87] (WO2015/100199)
[30] US (14/138,671) 2013-12-23

[11] **2,934,972**
[13] C
[51] **Int.Cl. H01J 37/153 (2006.01)**
[25] EN
[54] **METHOD FOR AUTOMATIC CORRECTION OF ASTIGMATISM**
[54] **PROCEDE POUR CORRECTION AUTOMATIQUE DE L'ASTIGMATISME**
[72] SINTORN, IDA-MARIA, SE
[72] NORDSTROM, RICKARD, SE
[72] KYLBERG, GUSTAF, SE
[73] INTELLIGENT VIRUS IMAGING INC., US
[85] 2016-06-22
[86] 2015-06-17 (PCT/US2015/036117)
[87] (WO2016/014177)
[30] US (62/027,505) 2014-07-22

[11] **2,935,162**
[13] C
[51] **Int.Cl. C12C 11/00 (2006.01)**
[25] EN
[54] **METHOD FOR RAPID MATURATION OF DISTILLED SPIRITS USING LIGHT AND HEAT PROCESSES**
[54] **PROCEDE POUR LA MATURATION RAPIDE D'EAUX-DE-VIE DISTILLEES A L'AIDE DE PROCEDES LUMINEUX ET THERMIQUES**
[72] DAVIS, BRYAN ALEXANDER, US
[73] LOST SPIRITS DISTILLERY, LLC, US
[85] 2016-06-23
[86] 2015-01-12 (PCT/US2015/011056)
[87] (WO2015/106217)
[30] US (14/152,915) 2014-01-10

[11] **2,935,503**
[13] C
[51] **Int.Cl. H02J 7/00 (2006.01)**
[25] EN
[54] **BATTERY PACK, CHARGING ASSEMBLY, ELECTRIC TOOL AND DISCONNECTION DETECTING METHOD**
[54] **BLOC DE BATTERIES, COMBINAISON DE CHARGE, OUTIL ELECTRIQUE ET PROCEDE DE DETECTION DE DECONNEXION**
[72] YANG, DEZHONG, CN
[72] SHI, PINGBO, CN
[72] LIU, LEI, CN
[72] GENG, ZHENG, CN
[72] WANG, LEI, CN
[72] DUAN, JUNYA, CN
[72] XIANG, YINGDIAN, CN
[73] NANJING CHERVON INDUSTRY CO., LTD., CN
[85] 2016-06-29
[86] 2014-12-30 (PCT/CN2014/095537)
[87] (WO2015/101284)
[30] CN (201310752233.2) 2013-12-31
[30] CN (201410521089.6) 2014-09-30
[30] CN (201410523174.6) 2014-09-30
[30] CN (201410521086.2) 2014-09-30

[11] **2,935,667**
[13] C
[51] **Int.Cl. A61G 5/08 (2006.01) A61G 5/10 (2006.01) A61G 5/12 (2006.01)**
[25] EN
[54] **NESTING WHEELED PERSONAL CONVEYANCES**
[54] **IMBRICATION DE MOYENS DE TRANSPORT PERSONNELS A ROUES**
[72] KUTSCH, JOHN, US
[72] BROWN, CORBETT, JR., US
[72] WANG, ZHILIANG, CN
[73] MEDLINE INDUSTRIES, INC., US
[85] 2016-06-29
[86] 2014-12-30 (PCT/US2014/072711)
[87] (WO2015/103237)
[30] US (61/922,237) 2013-12-31

[11] **2,935,990**
[13] C
[51] **Int.Cl. B02C 25/00 (2006.01) G16Z 99/00 (2019.01) B09B 3/00 (2022.01) B65F 5/00 (2006.01) B02C 18/00 (2006.01)**
[25] EN
[54] **NETWORK CONNECTED WEIGHT TRACKING SYSTEM FOR A WASTE DISPOSAL MACHINE**
[54] **SYSTEME DE SUIVI DE POIDS CONNECTE EN RESEAU POUR UNE MACHINE D'ELIMINATION DE DECHETS**
[72] CELLI, FRANK, US
[72] JOYCE, ROBERT, US
[72] KRATZER, WILLIAM, US
[72] BOHN, RYAN, US
[73] BIOHITECH AMERICA, US
[85] 2016-07-05
[86] 2015-01-13 (PCT/US2015/011135)
[87] (WO2015/108845)
[30] US (61/927,191) 2014-01-14

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[11] **2,936,002**
[13] C
[51] **Int.Cl. F24F 13/06 (2006.01) F24F 13/22 (2006.01)**
[25] EN
[54] **AIR REGISTER DRAIN**
[54] **PURGE DE GRILLE A REGISTRE**
[72] PETICCA, DANNY, CA
[73] PETICCA, DANNY, CA
[86] (2936002)
[87] (2936002)
[22] 2016-07-13
[30] US (14/756,010) 2015-07-20

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[11] **2,936,004**
[13] C
[51] **Int.Cl. C04B 11/00 (2006.01)**
[25] EN
[54] **METHOD OF CURING A GYPSUM CALCINATION PRODUCT**
[54] **PROCEDE DE DURCISSEMENT D'UN PRODUIT ISSU DE LA CALCINATION DU GYPSE**
[72] BIGUENET, CEDRIC, FR
[72] DAYAN, SIMON, FR
[72] TRAN, BINH, FR
[72] MONTIGNY, BENOIT, FR
[73] SAINT-GOBAIN PLACO SAS, FR
[85] 2016-07-06
[86] 2015-01-08 (PCT/EP2015/050267)
[87] (WO2015/104340)
[30] EP (14368008.0) 2014-01-10

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[11] **2,936,971**
[13] C
[51] **Int.Cl. B42D 5/00 (2006.01)**
[25] EN
[54] **ORDERED STACK OF BOUND PRE-PRINTED PRODUCT INFORMATION SHEETS FOR A STORE**
[54] **PILE ORDONNEE DE FEUILLES D'INFORMATIONS SUR DES PRODUITS PREIMPRIMEES, ASSEMBLEES ET DESTINEES A UN MAGASIN**
[72] DALE, ERNEST JAMES, US
[72] JIRON, JAMES FERNANDO, US
[72] DESMET, JOHN PATRICK, US
[72] ROWELL, NATHAN ANDREW, US
[73] INFORMATION PLANNING AND MANAGEMENT SERVICE INC., US
[85] 2016-07-14
[86] 2015-01-21 (PCT/US2015/012274)
[87] (WO2015/112620)
[30] US (14/160,005) 2014-01-21

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[11] **2,937,583**
[13] C
[51] **Int.Cl. A61H 9/00 (2006.01)**
[25] EN
[54] **A PORTABLE COMPRESSION DEVICE**
[54] **DISPOSITIF DE COMPRESSION PORTABLE**
[72] RAMAKRISHNA, RAJ, AU
[72] MULLER, STEPHEN, AU
[73] RAMAKRISHNA, RAJ, AU
[85] 2016-07-21
[86] 2015-02-06 (PCT/AU2015/000065)
[87] (WO2015/117191)
[30] AU (2014900369) 2014-02-07

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[11] **2,938,116**
[13] C
[51] **Int.Cl. C02F 1/467 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR INTERRELATED CONTROL OF CHLORINATORS AND PUMPS**
[54] **SYSTEMES ET PROCEDES POUR LA COMMANDE INTERDEPENDANTE DE CHLORATEURS ET DE POMPES**
[72] MURDOCK, JAMES, US
[73] HAYWARD INDUSTRIES, INC., US
[85] 2016-07-28
[86] 2014-01-28 (PCT/US2014/013390)
[87] (WO2015/116035)

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[11] **2,938,651**
[13] C
[51] **Int.Cl. B29C 61/06 (2006.01) B29C 55/14 (2006.01) C08J 5/18 (2006.01)**
[25] EN
[54] **HEAT-SHRINKABLE POLYESTER FILM**
[54] **FILM POLYESTER THERMORETRACTABLE**
[72] INOUE, MASAFUMI, JP
[72] HARUTA, MASAYUKI, JP
[73] TOYOBO CO., LTD., JP
[85] 2016-08-03
[86] 2015-01-23 (PCT/JP2015/051870)
[87] (WO2015/118968)
[30] JP (2014-019113) 2014-02-04
[30] JP (2014-183245) 2014-09-09

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[11] **2,939,952**
[13] C
[51] **Int.Cl. A61K 9/10 (2006.01) A61K 9/16 (2006.01) A61K 31/498 (2006.01) A61K 47/34 (2017.01) A61P 27/02 (2006.01)**
[25] EN
[54] **THERMORESPONSIVE HYDROGEL CONTAINING POLYMER MICROPARTICLES FOR NONINVASIVE OCULAR DRUG DELIVERY**
[54] **HYDROGEL THERMOSENSIBLE CONTENANT DES MICROPARTICULES POLYMERES POUR L'ADMINISTRATION DE MEDICAMENT OCULAIRE NON INVASIVE**
[72] FEDORCHAK, MORGAN V., US
[72] LITTLE, STEVEN R., US
[72] SCHUMAN, JOEL S., US
[72] CUGINI, ANTHONY, US
[73] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[85] 2016-08-16
[86] 2014-03-04 (PCT/US2014/020355)
[87] (WO2014/138085)
[30] US (61/773,076) 2013-03-05

[11] **2,941,865**
[13] C
[51] **Int.Cl. A01B 63/24 (2006.01) A01B 33/08 (2006.01)**
[25] EN
[54] **SOIL TILLING APPARATUS HAVING A COMBING OR LEVELING DEVICE**
[54] **APPAREIL DE TRAVAIL DU SOL COMPRENANT UN DISPOSITIF D'ETRILLAGE ET D'APLANISSEMENT**
[72] PAULESSEN, GEORG, DE
[73] LEMKEN GMBH & CO. KG, DE
[85] 2016-09-08
[86] 2015-03-13 (PCT/DE2015/100104)
[87] (WO2015/144130)
[30] DE (10 2014 104 417.7) 2014-03-28

[11] **2,943,027**
[13] C
[51] **Int.Cl. C08F 8/04 (2006.01) C08F 212/06 (2006.01) C08F 232/06 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING HYDROGENATED PETROLEUM RESIN**
[54] **PROCEDE DE PRODUCTION DE RESINE DE PETROLE HYDROGENEE**
[72] IIJIMA, YOSHIKAZU, JP
[72] KANAI, KOICHIRO, JP
[72] HAYASHI, YASUNORI, JP
[72] HARUNA, TAKESHI, JP
[73] MARUZEN PETROCHEMICAL CO., LTD., JP
[85] 2016-09-16
[86] 2015-03-25 (PCT/JP2015/059046)
[87] (WO2015/147027)
[30] JP (2014-062990) 2014-03-26

[11] **2,943,211**
[13] C
[51] **Int.Cl. C07C 45/50 (2006.01)**
[25] EN
[54] **HYDROFORMYLATION PROCESS**
[54] **PROCEDE D'HYDROFORMYLATION**
[72] MILLER, GLENN A., US
[72] EISENSCHMID, THOMAS C., US
[72] BRAMMER, MICHAEL A., US
[72] BECKER, MICHAEL C., US
[72] WATSON, RICK B., US
[73] DOW TECHNOLOGY INVESTMENTS LLC, US
[85] 2016-09-19
[86] 2015-03-10 (PCT/US2015/019560)
[87] (WO2015/153070)
[30] US (61/972,628) 2014-03-31

[11] **2,943,461**
[13] C
[51] **Int.Cl. F01D 5/30 (2006.01)**
[25] FR
[54] **REVOLVING PART FOR A TURBOMACHINE ROTOR**
[54] **PIECE DE REVOLUTION POUR UN ROTOR DE TURBOMACHINE**
[72] TRAPPIER, NICOLAS, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
[85] 2016-09-21
[86] 2015-03-11 (PCT/FR2015/050601)
[87] (WO2015/145016)
[30] FR (1452474) 2014-03-24

[11] **2,944,067**
[13] C
[51] **Int.Cl. B01D 53/02 (2006.01) B01D 53/22 (2006.01) B01D 53/86 (2006.01) B01J 20/24 (2006.01)**
[25] EN
[54] **FILTER AND METHOD FOR PRODUCING SAME**
[54] **FILTRE ET PROCEDE DE PRODUCTION ASSOCIE**
[72] PAUL, MANFRED, DE
[72] LUKA, PATRICK, DE
[72] POMMERSHEIM, RAINER, DE
[72] SWEREDJUK, ROBERT, DE
[73] LUFTHANSA TECHNIK AG, DE
[85] 2016-09-27
[86] 2015-03-27 (PCT/EP2015/056799)
[87] (WO2015/150288)
[30] DE (10 2014 206 081.8) 2014-03-31

[11] **2,944,577**
[13] C
[51] **Int.Cl. C10J 3/00 (2006.01) C10B 1/10 (2006.01) C10B 47/30 (2006.01) C10J 3/72 (2006.01) F16L 51/02 (2006.01) F23G 5/20 (2006.01)**
[25] EN
[54] **DEVICE FOR REACTING AN ORGANIC STARTING MATERIAL AND USE OF SUCH A DEVICE**
[54] **DISPOSITIF POUR LA REACTION D'UNE MATIERE DE DEPART ORGANIQUE ET UTILISATION D'UN TEL DISPOSITIF**
[72] JENEY, PETER, CH
[73] CLEANCARBONCONVERSION PATENTS AG, CH
[85] 2016-09-30
[86] 2015-01-16 (PCT/EP2015/050767)
[87] (WO2015/149955)
[30] EP (14162556.6) 2014-03-31

[11] **2,944,584**
[13] C
[51] **Int.Cl. B63B 39/02 (2006.01) B63B 27/10 (2006.01) B63B 27/30 (2006.01)**
[25] EN
[54] **VESSEL COMPRISING CARGO TRANSLOADING SYSTEM**
[54] **NAVIRE COMPRENANT UN SYSTEME DE TRANSBORDEMENT DE MARCHANDISES**
[72] WALLIN, TOMAS, SE
[73] MACGREGOR SWEDEN AB, SE
[85] 2016-09-30
[86] 2015-01-26 (PCT/EP2015/051499)
[87] (WO2015/149961)
[30] EP (14163229.9) 2014-04-02

[11] **2,945,541**
[13] C
[51] **Int.Cl. C22B 3/06 (2006.01) C22B 1/00 (2006.01) C22B 3/22 (2006.01) C22B 3/46 (2006.01) C22B 15/00 (2006.01)**
[25] EN
[54] **PROCESS FOR RECOVERY OF COPPER FROM ARSENIC-BEARING AND/OR ANTIMONY-BEARING COPPER SULPHIDE CONCENTRATES**
[54] **PROCEDE DE RECUPERATION DE CUIVRE A PARTIR DE CONCENTRE DE SULFURE DE CUIVRE CONTENANT DE L'ARSENIC ET/OU CONTENANT DE L'ANTIMOINE**
[72] SALOMON-DE-FRIEDBERG, HENRY, CA
[72] JANG, HEE MUN, CA
[73] TECK RESOURCES LIMITED, CA
[73] AURUBIS AG, DE
[85] 2016-10-12
[86] 2015-04-16 (PCT/CA2015/050317)
[87] (WO2015/172241)
[30] US (14/276,692) 2014-05-13

[11] **2,946,517**
[13] C
[51] **Int.Cl. F16G 11/00 (2006.01)**
[25] EN
[54] **SHACKLE WITH CAPTURED PIN ASSEMBLY**
[54] **MANILLE DOTEE D'UN MECANISME DE TIGE CAPTUREE**
[72] OHMAN, ROGER, US
[73] THE CROSBY GROUP LLC, US
[86] (2946517)
[87] (2946517)
[22] 2016-10-26
[30] US (62/246,410) 2015-10-26
[30] US (15/332,017) 2016-10-24

[11] **2,946,944**
[13] C
[51] **Int.Cl. E21B 10/44 (2006.01) E02D 1/04 (2006.01)**
[25] EN
[54] **ENCASED SOIL AUGER APPARATUS FOR ARCHEOLOGICAL ASSESSMENTS AND METHOD OF OPERATING THE SAME**
[54] **APPAREILLAGE DE TARIERE INTEGREE DESTINE A DES EVALUATIONS ARCHEOLOGIQUES ET METHODE D'UTILISATION ASSOCIEE**
[72] PASCH, CHELSEA, CA
[73] PASCH, CHELSEA, CA
[86] (2946944)
[87] (2946944)
[22] 2016-10-28

[11] **2,947,172**
[13] C
[51] **Int.Cl. B64D 15/12 (2006.01)**
[25] EN
[54] **APPARATUSES AND METHODS FOR ANTI-ICING OF SPEED MEASUREMENT PROBES**
[54] **APPAREILS ET PROCEDES POUR ANTIGIVRAGE DES SONDES DE MESURE DE VITESSE**
[72] DICHEK, DANIEL JONATHAN GUNNAR, US
[72] KHOZIKOV, VYACHESLAV, US
[72] MORROW, JONATHAN, US
[73] THE BOEING COMPANY, US
[86] (2947172)
[87] (2947172)
[22] 2016-11-01
[30] US (14/987318) 2016-01-04

[11] **2,947,249**
[13] C
[51] **Int.Cl. F02C 7/32 (2006.01) F01D 25/16 (2006.01) F02C 7/06 (2006.01) F02C 7/36 (2006.01)**
[25] FR
[54] **ASSEMBLY FOR AIRCRAFT TURBINE ENGINE AND METHOD FOR MOUNTING SAME**
[54] **ASSEMBLAGE POUR TURBOMACHINE D'AERONEF ET SON PROCEDE DE MONTAGE**
[72] LEMARCHAND, KEVIN MORGANE, FR
[73] SNECMA, FR
[85] 2016-10-27
[86] 2015-04-27 (PCT/FR2015/051131)
[87] (WO2015/166178)
[30] FR (14 53889) 2014-04-29

[11] **2,947,422**
[13] C
[51] **Int.Cl. B64C 27/08 (2006.01) B64D 27/12 (2006.01) B64D 27/24 (2006.01) B64D 37/30 (2006.01) B64D 47/00 (2006.01)**
[25] EN
[54] **CLEAN FUEL ELECTRIC MULTIROTOR AIRCRAFT FOR PERSONAL AIR TRANSPORTATION AND MANNED OR UNMANNED OPERATION**
[54] **AERONEF MULTIROTOR ELECTRIQUE A COMBUSTIBLE PROPRE POUR UN TRANSPORT AERIEN DE PERSONNES ET UN FONCTIONNEMENT AVEC PILOTE OU SANS PILOTE**
[72] MORRISON, BRIAN D., US
[73] ALAKAI TECHNOLOGIES CORPORATION, US
[85] 2016-10-28
[86] 2015-04-29 (PCT/US2015/028345)
[87] (WO2015/168320)
[30] US (61/987,009) 2014-05-01

[11] **2,948,222**
[13] C
[51] **Int.Cl. C25B 1/23 (2021.01) C01B 32/80 (2017.01) C25B 9/70 (2021.01) C25B 13/05 (2021.01)**
[25] EN
[54] **A PROCESS FOR SAFE PRODUCTION OF PHOSGENE**
[54] **PROCEDE DE PRODUCTION DE PHOSGENE EN TOUTE SECURITE**
[72] JAKOBSSON, NIKLAS BENGT, SE
[72] HINNEMANN, BERIT, DK
[72] PEDERSEN, FRIIS CLAUS, DK
[72] SCHJODT, NIELS CHRISTIAN, DK
[73] HALDOR TOPSOE A/S, DK
[85] 2016-11-07
[86] 2015-06-01 (PCT/EP2015/062149)
[87] (WO2015/189064)
[30] EP (14171871.8) 2014-06-11

[11] **2,948,820**
[13] C
[51] **Int.Cl. A01N 1/02 (2006.01) C12N 5/0775 (2010.01) C12N 1/04 (2006.01)**
[25] EN
[54] **READY-TO-PRINT CELLS AND INTEGRATED DEVICES**
[54] **CELLULES PRETES A IMPRIMER ET DISPOSITIFS INTEGRES**
[72] ROWLEY, JONATHAN ALLEN, US
[72] LOCK, LYE THENG, US
[73] ROOSTERBIO, INC., US
[85] 2016-11-10
[86] 2015-05-12 (PCT/US2015/030260)
[87] (WO2015/175457)
[30] US (61/992,184) 2014-05-12

[11] **2,949,234**
[13] C
[51] **Int.Cl. A61K 39/395 (2006.01) C07K 14/50 (2006.01)**
[25] EN
[54] **ANTI-FGF23 ANTIBODY FOR TREATMENT OF HYPOPHOSPHATEMIC DISORDERS**
[54] **ANTICORPS ANTI-FGF23 DESTINE AU TRAITEMENT DE TROUBLES HYPOPHOSPHATEMIQUES**
[72] KAKKIS, EMIL, US
[72] SAN MARTIN, JAVIER, US
[72] SUDO, TOMOHIRO, JP
[73] ULTRAGENYX PHARMACEUTICAL INC., US
[73] KYOWA KIRIN CO., LTD., JP
[85] 2016-11-15
[86] 2015-05-29 (PCT/US2015/033226)
[87] (WO2015/191312)
[30] US (62/009,474) 2014-06-09

[11] **2,950,401**
[13] C
[51] **Int.Cl. C08L 69/00 (2006.01) B29C 45/46 (2006.01) C08L 9/00 (2006.01) C08L 25/14 (2006.01) C08L 33/12 (2006.01) C08L 67/02 (2006.01)**
[25] EN
[54] **POLYMER COMPOSITION, MOLDED ARTICLE, AND METHOD FOR MANUFACTURING SAME**
[54] **COMPOSITION POLYMERE, ARTICLE MOULE ET PROCEDE DE FABRICATION DE CELUI-CI**
[72] KIM, IN, KR
[72] HYUN, SONG WON, KR
[72] KIM, SEON YEONG, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
[85] 2016-11-25
[86] 2015-03-26 (PCT/KR2015/002995)
[87] (WO2015/182862)
[30] KR (10-2014-0063037) 2014-05-26

[11] **2,951,294**
[13] C
[51] **Int.Cl. B60K 17/28 (2006.01) B60K 25/06 (2006.01)**
[25] EN
[54] **ADJUSTABLE PTO MOUNTING DEVICES AND METHODS**
[54] **DISPOSITIFS D'INSTALLATION DE PRISE DE FORCE AJUSTABLE ET METHODES**
[72] RINKENBAUGH, JOHN, US
[72] GORMLEY, DAVE, US
[72] FREEMAN, DAVID HOUSTON, US
[72] ABBOTT, JAMES ROBERT, US
[73] MUNCIE POWER PRODUCTS, INC., US
[86] (2951294)
[87] (2951294)
[22] 2016-12-09
[30] US (62/266,353) 2015-12-11
[30] US (62/383,629) 2016-09-06

[11] **2,951,956**
[13] C
[51] **Int.Cl. B60H 1/24 (2006.01) E04D 13/035 (2006.01)**
[25] EN
[54] **SHROUDED ROOF VENT FOR A VEHICLE**
[54] **EVENT DE TOIT RENFORCE POUR UN VEHICULE**
[72] ALLARD, JAMES, US
[72] SMITH, MARK L., US
[72] SUNKARA, HARI, US
[73] DOMETIC SWEDEN AB, SE
[85] 2016-12-09
[86] 2014-06-09 (PCT/US2014/041566)
[87] (WO2015/191029)

[11] **2,951,985**
[13] C
[51] **Int.Cl. B64F 5/40 (2017.01) H04W 4/12 (2009.01) B64D 47/00 (2006.01) B64F 5/00 (2017.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR ASSISTING IN THE MAINTENANCE OF AIRCRAFT AND OTHER MOBILE PLATFORMS**
[54] **PROCEDES ET APPAREIL D'AIDE A LA MAINTENANCE D'UN AERONEF ET D'AUTRES PLATES-FORMES MOBILES**
[72] LAW, ANDY, CA
[72] CHEUNG, DAVID, CA
[73] BOMBARDIER INC., CA
[85] 2016-12-12
[86] 2015-06-23 (PCT/IB2015/054690)
[87] (WO2015/198213)
[30] US (62/017,488) 2014-06-26

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[11] **2,952,111**
[13] C
[51] **Int.Cl. A61K 31/63 (2006.01) A61K 31/135 (2006.01) A61K 31/15 (2006.01) A61K 31/165 (2006.01) A61K 31/245 (2006.01) A61K 31/335 (2006.01) A61K 31/381 (2006.01) A61K 31/41 (2006.01) A61K 31/4178 (2006.01) A61K 31/435 (2006.01) A61K 31/47 (2006.01) A61K 31/495 (2006.01) A61K 31/542 (2006.01) A61K 31/546 (2006.01) A61K 31/635 (2006.01) A61P 43/00 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **SMALL MOLECULE EFFLUX PUMP INHIBITORS**
[54] **INHIBITEURS DE POMPE D'EFFLUX A PETITES MOLECULES**
[72] DUNMAN, PAUL M., US
[72] BLANCHARD, CATLYN E., US
[73] UNIVERSITY OF ROCHESTER, US
[85] 2016-12-12
[86] 2015-06-12 (PCT/US2015/035534)
[87] (WO2015/191988)
[30] US (62/011,613) 2014-06-13

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[11] **2,952,411**
[13] C
[51] **Int.Cl. A01F 25/22 (2006.01) A23B 9/00 (2006.01)**
[25] EN
[54] **MIXED AIR FLOW FAN FOR AERATING AN AGRICULTURAL STORAGE BIN**
[54] **VENTILATEUR D'ECOULEMENT D'AIR MIXTE SERVANT A AERER UN BAC D'ENTREPOSAGE DE PRODUIT AGRICOLE**
[72] MARQUES, AL, CA
[72] POWELL, JEFF, CA
[73] S3 GROUP LTD., CA
[86] (2952411)
[87] (2952411)
[22] 2016-12-19

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[11] **2,953,562**
[13] C
[51] **Int.Cl. F16F 9/32 (2006.01) B64C 25/58 (2006.01) F16J 1/02 (2006.01) F16J 10/04 (2006.01)**
[25] EN
[54] **SHOCK STRUT**
[54] **JAMBE A AMORTISSEUR**
[72] SCHMIDT, ROBERT KYLE, GB
[73] SAFRAN LANDING SYSTEMS UK LIMITED, GB
[86] (2953562)
[87] (2953562)
[22] 2017-01-03
[30] EP (16151361.9) 2016-01-14

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[11] **2,954,152**
[13] C
[51] **Int.Cl. F28D 1/047 (2006.01) F28D 7/08 (2006.01)**
[25] EN
[54] **HEAT EXCHANGER COIL FOR A RECREATIONAL VEHICLE**
[54] **SERPENTIN D'ECHANGEUR DE CHALEUR POUR UN VEHICULE DE PLAISANCE**
[72] SCHMIDT, GALE A., US
[72] SCHMIDT, CHRISTOPHER C., US
[72] MATSON, STEVE R., US
[72] MARICIC, RICHARD, US
[73] DOMETIC SWEDEN AB, SE
[73] BECKETT GAS, INC., US
[85] 2016-12-30
[86] 2015-07-14 (PCT/US2015/040442)
[87] (WO2016/011073)
[30] US (14/331,578) 2014-07-15

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[11] **2,955,381**
[13] C
[51] **Int.Cl. E21B 47/12 (2012.01)**
[25] EN
[54] **DISCRETE WELLBORE DEVICES, HYDROCARBON WELLS INCLUDING A DOWNHOLE COMMUNICATION NETWORK AND THE DISCRETE WELLBORE DEVICES AND SYSTEMS AND METHODS INCLUDING THE SAME**
[54] **DISPOSITIFS DE PUITS DE FORAGE INDIVIDUELS, PUITS D'HYDROCARBURES COMPRENANT UN RESEAU DE COMMUNICATION DE FOND DE TROU ET LES DISPOSITIFS DE PUITS DE FORAGE INDIVIDUELS, AINSI QU E SYSTEMES ET PROCEDES COMPRENANT CEUX-CI**
[72] MORROW, TIMOTHY I., US
[72] ANGELES BOZA, RENZO M., US
[72] DALE, BRUCE A., US
[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US
[85] 2017-01-16
[86] 2015-08-07 (PCT/US2015/044127)
[87] (WO2016/039900)
[30] US (62/049,513) 2014-09-12

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[11] **2,955,611**
[13] C
[51] **Int.Cl. H04W 80/02 (2009.01) H04W 4/06 (2009.01) H04N 19/70 (2014.01)**
[25] EN
[54] **MULTI-PARTITION RADIO FRAMES**
[54] **TRAMES RADIO A PARTITIONS MULTIPLES**
[72] SIMON, MICHAEL J., US
[72] SHELBY, KEVIN A., US
[72] EARNSHAW, MARK, CA
[73] COHERENT LOGIX, INCORPORATED, US
[73] SINCLAIR TELEVISION GROUP, INC., US
[85] 2017-01-18
[86] 2015-07-21 (PCT/US2015/041425)
[87] (WO2016/022287)
[30] US (62/034,626) 2014-08-07

[11] **2,957,405**
[13] C
[51] **Int.Cl. E06B 9/24 (2006.01) E06B 9/00 (2006.01)**
[25] EN
[54] **MOTORIZED WINDOW TREATMENT MONITORING AND CONTROL**
[54] **SURVEILLANCE ET COMMANDE DE TRAITEMENTS DE FENETRE MOTORISEE**
[72] LUNDY, STEPHEN, US
[72] PROTZMAN, BRENT, US
[73] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2017-02-06
[86] 2015-08-06 (PCT/US2015/044084)
[87] (WO2016/022847)
[30] US (62/034,117) 2014-08-06
[30] US (62/054,089) 2014-09-23

[11] **2,958,912**
[13] C
[51] **Int.Cl. G03F 7/14 (2006.01) G03F 7/20 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR PRODUCING FLEXOGRAPHIC PRINTING PLATES**
[54] **DISPOSITIF ET PROCEDE POUR LA PRODUCTION DE PLAQUES POUR L'IMPRESSION FLEXOGRAPHIQUE**
[72] DIETZ, GERNOT, DE
[72] MUHLFEIT, MARKUS, DE
[72] BOYKSEN, FRANK, DE
[73] FLINT GROUP GERMANY GMBH, DE
[85] 2017-02-21
[86] 2015-08-27 (PCT/EP2015/069616)
[87] (WO2016/030450)
[30] EP (14182579.4) 2014-08-28

[11] **2,961,069**
[13] C
[51] **Int.Cl. B05C 17/005 (2006.01) B05C 21/00 (2006.01) B65D 25/42 (2006.01)**
[25] EN
[54] **DEVICE FOR HOLDING AND DISPENSING VISCOUS MATERIAL**
[54] **DISPOSITIF PERMETTANT DE CONTENIR ET DE DISTRIBUER UN MATERIAU VISQUEUX**
[72] STEVENS, JAMES P., US
[73] SONOCO DEVELOPMENT, INC., US
[85] 2017-03-10
[86] 2015-10-13 (PCT/US2015/055231)
[87] (WO2016/061039)
[30] US (62/064,127) 2014-10-15
[30] US (14/591,252) 2015-01-07

[11] **2,962,202**
[13] C
[51] **Int.Cl. F02C 7/277 (2006.01) B64F 5/60 (2017.01) B64C 27/00 (2006.01) F02C 7/262 (2006.01)**
[25] FR
[54] **DEVICE AND METHOD FOR TESTING THE INTEGRITY OF A HELICOPTER TURBINE ENGINE RAPID RESTART SYSTEM**
[54] **DISPOSITIF ET PROCEDE DE TEST D'INTEGRITE D'UN SYSTEME DE REACTIVATION RAPIDE D'UN TURBOMOTEUR D'UN HELICOPTERE**
[72] THIRIET, ROMAIN, FR
[72] BAZET, JEAN-MICHEL, FR
[72] SERGHINE, CAMEL, FR
[72] MARCONI, PATRICK, FR
[72] IRIGOYEN, JEROME, FR
[72] LANGFORD, STEPHEN, FR
[73] SAFRAN HELICOPTER ENGINES, FR
[85] 2017-03-22
[86] 2015-09-21 (PCT/FR2015/052529)
[87] (WO2016/051048)
[30] FR (1459165) 2014-09-29

[11] **2,962,333**
[13] C
[51] **Int.Cl. F01D 5/30 (2006.01) F01D 5/32 (2006.01) F01D 11/00 (2006.01)**
[25] EN
[54] **MOBILE VANE FOR A TURBINE ENGINE, COMPRISING A LUG ENGAGING IN A LOCKING NOTCH OF A ROTOR DISK**
[54] **AUBE MOBILE DE TURBOMACHINE, COMPRENANT UN ERGOT ENGAGEANT UNE ENTAILLE DE BLOCAGE D'UN DISQUE DE ROTOR**
[72] DESFORGES, JEAN-BAPTISTE VINCENT, FR
[72] QUELVEN, DAMIEN BERNARD, FR
[72] JUDET, MAURICE GUY, FR
[72] TANG, BA-PHUC, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
[85] 2017-03-23
[86] 2015-09-28 (PCT/FR2015/052573)
[87] (WO2016/051054)
[30] FR (14 59278) 2014-09-30

[11] **2,962,757**
[13] C
[51] **Int.Cl. C12N 5/0783 (2010.01) C12N 15/113 (2010.01) A61P 37/00 (2006.01) C07K 16/18 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR MODULATING TH-GM CELL FUNCTION**
[54] **METHODES ET COMPOSITIONS POUR MODULER LA FONCTION D'UN LYMPHOCYTE TH-GM AUXILIAIRE**
[72] FU, XIN-YUAN, SG
[72] SHENG, WANQIANG, US
[72] ZHANG, YONGLIANG, SG
[72] YANG, FAN, SG
[73] NATIONAL UNIVERSITY OF SINGAPORE, SG
[85] 2017-03-27
[86] 2015-09-25 (PCT/SG2015/050344)
[87] (WO2016/048247)
[30] SG (10201406130P) 2014-09-26

[11] **2,963,078**
[13] C
[51] **Int.Cl. H01M 4/04 (2006.01) H01M 10/056 (2010.01)**
[25] EN
[54] **ELECTOLYTE COMPOSITION FOR A ZINC-HALIDE BATTERY AND BIPOLAR ELECTRODE COMPRISING A TITANIUM CARBIDE COATED CATHODE BOX**
[54] **COMPOSITION ELECTROLYTE POUR BATTERIE ZINC-HALOGENE ET ELECTRODE BIPOLAIRE COMPRENANT UN COMPARTIMENT CATHODIQUE RECOUVERT DE CARBURE DE TITANE**
[72] ADAMSON, GEORGE W., US
[72] BOWERS, SARA S., US
[73] EOS ENERGY STORAGE, LLC, US
[85] 2017-03-29
[86] 2015-10-06 (PCT/US2015/054142)
[87] (WO2016/057457)
[30] US (62/060,273) 2014-10-06
[30] US (62/170,200) 2015-06-03
[30] US (62/173,415) 2015-06-10

[11] **2,964,601**
[13] C
[51] **Int.Cl. F16H 49/00 (2006.01)**
[25] EN
[54] **MAGNETIC GEARBOXES INCLUDING MAGNETIC GEARS ROTATABLE WITH SEQUENTIAL MAGNETIC LINKAGE BETWEEN THE MAGNETIC GEARS**
[54] **BOITES D'ENGRENAGES MAGNETIQUES COMPORTANT DES ENGRENAGES MAGNETIQUES ROTATIFS A LIAISON MAGNETIQUE SEQUENTIELLE ENTRE LES ENGRENAGES MAGNETIQUES**
[72] WHITFIELD, GEORGE WINSTON, JM
[72] CHIN, HOWARD MARTIN, JM
[73] MELHADO, PETER KARL, JM
[73] CHIN, HOWARD MARTIN, JM
[73] WHITFIELD, GEORGE WINSTON, JM
[86] (2964601)
[87] (2964601)
[22] 2017-04-18

[11] **2,965,689**
[13] C
[51] **Int.Cl. C12N 15/13 (2006.01) A61K 39/395 (2006.01) A61P 27/02 (2006.01) C07K 16/24 (2006.01)**
[25] EN
[54] **IMPROVED IL-6 ANTIBODIES**
[54] **ANTICORPS ANTI-IL-6 AMELIORES**
[72] SCHMIDT, MICHAEL MARCH, US
[72] TISDALE, ALISON, US
[72] FURFINE, ERIC STEVEN, US
[72] ZARBIS-PAPASTOITSIS, GRIGORIOS, US
[73] SESEN BIO, INC., US
[85] 2017-04-24
[86] 2015-11-06 (PCT/US2015/059532)
[87] (WO2016/073890)
[30] US (62/077,105) 2014-11-07
[30] US (62/087,448) 2014-12-04
[30] US (62/247,705) 2015-10-28

[11] **2,967,582**
[13] C
[51] **Int.Cl. F16J 15/34 (2006.01) F16J 15/16 (2006.01) F16J 15/30 (2006.01) F16J 15/32 (2016.01)**
[25] EN
[54] **SELF-LUBRICATING FLEXIBLE CARBON COMPOSITE SEAL**
[54] **JOINT D'ETANCHEITE AUTOLUBRIFIANT EN COMPOSITE DE CARBONE SOUPLE**
[72] ZHAO, LEI, US
[72] XU, ZHIYUE, US
[73] BAKER HUGHES INCORPORATED, US
[85] 2017-05-11
[86] 2015-10-22 (PCT/US2015/056877)
[87] (WO2016/085594)
[30] US (14/553,441) 2014-11-25

[11] **2,967,935**
[13] C
[51] **Int.Cl. A01H 5/00 (2018.01) A01H 6/20 (2018.01) A01H 13/00 (2006.01) C12N 5/10 (2006.01) C12N 9/02 (2006.01) C12N 15/09 (2006.01) C12N 15/53 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **METHODS FOR CONFERRING OR ENHANCING HERBICIDE RESISTANCE ON PLANTS AND/OR ALGA WITH PROTOPORPHYRINOGEN OXIDASE VARIANTS**
[54] **PROCEDES POUR CONFERER OU AMELIORER LA RESISTANCE AUX HERBICIDES DE PLANTES ET/OU D'ALGUES AVEC DES VARIANTS DE PROTOPORPHYRINOGENE OXYDASE**
[72] SUNG, SOON-KEE, KR
[72] YOON, JOONSEON, KR
[72] HAN, YUNJUNG, KR
[73] FARMHANNONG CO., LTD., KR
[85] 2017-05-15
[86] 2015-12-16 (PCT/KR2015/013812)
[87] (WO2016/099153)
[30] KR (10-2014-0181791) 2014-12-16

[11] **2,968,981**
[13] C
[51] **Int.Cl. C07D 307/12 (2006.01) C07B 31/00 (2006.01) C07C 29/132 (2006.01) C07C 29/60 (2006.01) C07C 31/20 (2006.01) C07C 31/22 (2006.01) C07D 307/28 (2006.01) C07D 307/42 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCTION OF HEXANETRIOL FROM 5-HYDROXYMETHYLFURFURAL**
[54] **PROCEDE POUR LA PRODUCTION D'HEXANETRIOL A PARTIR DE 5-HYDROXYMETHYLFURFURAL**
[72] SOKOLOVSKII, VALERY, US
[72] LAVRENKO, MAYYA, US
[72] HAGEMEYER, ALFRED, US
[72] DIAS, ERIC L., US
[72] MURPHY, VINCENT J., US
[72] SHOEMAKER, JAMES A.W., US
[73] ARCHER DANIELS MIDLAND COMPANY, US
[85] 2017-05-25
[86] 2015-12-02 (PCT/US2015/063544)
[87] (WO2016/090054)
[30] US (62/086,651) 2014-12-02

[11] **2,969,765**
[13] C
[51] **Int.Cl. B64D 43/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DYNAMICALLY DETERMINING AND INDICATING AN AIRCRAFT BANK LIMIT ON AN AIRCRAFT INSTRUMENT PANEL**
[54] **SYSTEME ET METHODE DE DETERMINATION DYNAMIQUE ET D'INDICATION D'UNE LIMITE DE L'INCLINAISON LATERALE DE L'APPAREIL**
[72] LUDTKE, FREDERICK E., II, US
[73] THE BOEING COMPANY, US
[86] (2969765)
[87] (2969765)
[22] 2017-06-06
[30] US (15/212015) 2016-07-15

[11] **2,971,411**
[13] C
[51] **Int.Cl. A61L 2/18 (2006.01) A01N 37/00 (2006.01) A01N 37/16 (2006.01) A23C 7/02 (2006.01) A61K 9/08 (2006.01) C07C 327/26 (2006.01) C07C 407/00 (2006.01) C07C 409/24 (2006.01)**
[25] EN
[54] **GENERATION OF PEROXYFORMIC ACID THROUGH POLYHYDRIC ALCOHOL FORMATE**
[54] **GENERATION D'ACIDE PEROXYFORMIQUE PAR L'INTERMEDIAIRE DE FORMIATE D'ALCOOL POLYHYDRIQUE**
[72] LI, JUNZHONG, US
[72] BREWSTER, ALLISON, US
[72] STAUB, RICHARD, US
[72] LANGE, STEVEN, US
[72] CHERITU, TIZAZU, US
[72] FAST, JONATHAN P., US
[72] HANSON, CATHERINE, US
[73] ECOLAB USA INC., US
[85] 2017-06-16
[86] 2015-12-17 (PCT/US2015/066427)
[87] (WO2016/100694)
[30] US (62/094,048) 2014-12-18

[11] **2,971,973**
[13] C
[51] **Int.Cl. B29C 73/34 (2006.01) B64F 5/10 (2017.01) B29C 65/22 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUSES FOR MAINTAINING TEMPERATURE DIFFERENTIAL IN MATERIALS USING THERMOELECTRIC DEVICES DURING HOT BONDED REPAIR**
[54] **METHODES ET APPAREILLAGES DE MAINTIEN DE DIFFERENTIEL DE TEMPERATURE DANS LES MATERIAUX AU MOYEN DE DISPOSITIFS THERMOELECTRIQUES PENDANT UNE REPARATION PAR COLLAGE CHAUD**
[72] OAKES, GARY D., US
[73] THE BOEING COMPANY, US
[86] (2971973)
[87] (2971973)
[22] 2017-06-22
[30] US (15/232,200) 2016-08-09

[11] **2,972,767**
[13] C
[51] **Int.Cl. F16B 45/00 (2006.01) B66C 1/66 (2006.01) F16B 35/04 (2006.01)**
[25] EN
[54] **ROTATING EYE BOLT ASSEMBLY WITH LOCK MECHANISM**
[54] **ENSEMBLE BOULON A □IL TOURNANT A MECANISME DE VERROUILLAGE**
[72] VERBRUGGE, PETER, US
[72] HEUVEL, CHRIS VAN DEN, BE
[72] BEALL, ROGER, US
[72] HENDRIX, FLOYD, US
[73] THE CROSBY GROUP LLC, US
[85] 2017-06-29
[86] 2015-03-05 (PCT/US2015/018904)
[87] (WO2016/140673)

[11] **2,974,777**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) G06T 5/00 (2006.01)**
[25] EN
[54] **DIAGNOSIS ASSISTING DEVICE, AND IMAGE PROCESSING METHOD IN DIAGNOSIS ASSISTING DEVICE**
[54] **APPAREIL D'AIDE AU DIAGNOSTIC ET METHODE DE TRAITEMENT D'IMAGE DANS L'APPAREIL D'AIDE AU DIAGNOSTIC**
[72] MATSUNAGA, KAZUHISA, JP
[73] CASIO COMPUTER CO., LTD., JP
[86] (2974777)
[87] (2974777)
[22] 2017-07-31
[30] JP (2016-171595) 2016-09-02
[30] JP (2017-081594) 2017-04-17

[11] **2,974,925**
[13] C
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/215 (2006.01) A61K 31/7088 (2006.01) A61P 31/00 (2006.01) A61P 31/04 (2006.01) A61P 31/16 (2006.01)**
[25] EN
[54] **METHODS OF PREVENTING SECONDARY INFECTIONS**
[54] **PROCEDES POUR PREVENIR DES INFECTIONS SECONDAIRES**
[72] SAGI, IRIT, IL
[72] TALMI-FRANK, DALIT, IL
[72] SOLOMONOV, INNA, IL
[72] AMIT, IDO, IL
[73] YEDA RESEARCH AND DEVELOPMENT CO. LTD., IL
[85] 2017-07-25
[86] 2016-02-09 (PCT/IL2016/050156)
[87] (WO2016/128975)
[30] US (62/113,551) 2015-02-09

[11] **2,975,802**
[13] C
[51] **Int.Cl. A61M 25/02 (2006.01)**
[25] EN
[54] **SECUREMENT DEVICE**
[54] **DISPOSITIF DE SECURITE**
[72] TOLLINI, DENNIS R., US
[72] TOLLINI, MICHAEL D., US
[73] TNT MOBORG INTERNATIONAL LIMITED, US
[86] (2975802)
[87] (2975802)
[22] 2017-08-10
[30] US (15/235,938) 2016-08-12

[11] **2,977,601**
[13] C
[51] **Int.Cl. B29B 17/00 (2006.01) B01D 11/00 (2006.01)**
[25] EN
[54] **RECOVERY OF FIBERS FROM FIBER REINFORCED POLYMERS WITH LEWIS BASES**
[54] **RECUPERATION DE FIBRES DES POLYMERES RENFORCES DE FIBRES A BASE LEWIS**
[72] GROSS, ADAM F., US
[72] RODRIGUEZ, APRIL R., US
[72] NELSON, ASHLEY M., US
[72] VAJO, JOHN J., US
[72] DALAL, HARDIK, US
[72] GEORGE, PANAGIOTIS EMANUEL, US
[72] GUAN, XIN N., US
[72] DAVIS, JAMES HILLARD, JR., US
[73] THE BOEING COMPANY, US
[86] (2977601)
[87] (2977601)
[22] 2017-08-28
[30] US (15/280,471) 2016-09-29

[11] **2,979,262**
[13] C
[51] **Int.Cl. A61M 39/20 (2006.01)**
[25] EN
[54] **AUTO-STOP VENT PLUG**
[54] **BOUCHON D'AERATION A ARRET AUTOMATIQUE**
[72] STALEY, SHAUN, US
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2017-09-08
[86] 2016-03-24 (PCT/US2016/024058)
[87] (WO2016/154458)
[30] US (62/138,703) 2015-03-26
[30] US (15/078,563) 2016-03-23

[11] **2,981,889**
[13] C
[51] **Int.Cl. H01Q 21/20 (2006.01) B64C 1/36 (2006.01) H01Q 9/04 (2006.01) B64D 43/00 (2006.01) B64D 47/00 (2006.01)**
[25] EN
[54] **PHASED ARRAY ANTENNAS FOR HIGH ALTITUDE PLATFORMS**
[54] **ANTENNES A RESEAU A ELEMENTS EN PHASE DESTINEES A DES PLATEFORMES EN HAUTE ALTITUDE**
[72] FERIA, YING J., US
[72] WHELAN, DAVID A., US
[72] GRAJEK, PHILLIP R., US
[73] THE BOEING COMPANY, US
[86] (2981889)
[87] (2981889)
[22] 2017-10-06
[30] US (15/374,808) 2016-12-09

[11] **2,982,850**
[13] C
[51] **Int.Cl. H04L 41/12 (2022.01) H04L 41/142 (2022.01) H04L 43/0829 (2022.01) H04L 43/0864 (2022.01)**
[25] EN
[54] **SERVER SIDE CONTENT DELIVERY NETWORK QUALITY OF SERVICE**
[54] **QUALITE DE SERVICE DE RESEAU DE DISTRIBUTION DE CONTENU COTE SERVEUR**
[72] HOPKINS, WILLIAM, US
[72] POWER, WILLIAM R., US
[73] LEVEL 3 COMMUNICATIONS, LLC, US
[85] 2017-10-05
[86] 2016-04-06 (PCT/US2016/026115)
[87] (WO2016/164393)
[30] US (62/143,573) 2015-04-06
[30] US (15/091,454) 2016-04-05

[11] **2,983,808**
[13] C
[51] **Int.Cl. A61K 48/00 (2006.01) C12N 15/00 (2006.01)**
[25] EN
[54] **SMAD7 GENE DELIVERY AS A THERAPEUTIC**
[54] **LIBERATION DE GENE SMAD7 EN TANT QU'AGENT THERAPEUTIQUE**
[72] RODGERS, BUEL DANTESE, US
[72] GREGOREVIC, PAUL, AU
[73] WASHINGTON STATE UNIVERSITY, US
[73] BAKER HEART AND DIABETES INSTITUTE, AU
[85] 2017-10-23
[86] 2016-04-22 (PCT/US2016/029018)
[87] (WO2016/172608)
[30] US (62/151,547) 2015-04-23

[11] **2,984,490**
[13] C
[51] **Int.Cl. G01R 27/16 (2006.01) G01R 31/08 (2020.01) G01R 35/04 (2006.01) H02J 13/00 (2006.01) G01R 22/06 (2006.01)**
[25] EN
[54] **ELECTRIC GRID HIGH IMPEDANCE CONDITION DETECTION**
[54] **DETECTION DE CONDITION D'IMPEDANCE ELEVEE DANS UN RESEAU ELECTRIQUE**
[72] SONDEREGGER, ROBERT, US
[72] DRISCOLL, TIMOTHY JAMES, US
[73] ITRON, INC., US
[85] 2017-10-30
[86] 2016-04-29 (PCT/US2016/030129)
[87] (WO2016/179005)
[30] US (14/702,759) 2015-05-04

[11] **2,985,094**
[13] C
[51] **Int.Cl. H01R 39/38 (2006.01) H01R 39/58 (2006.01)**
[25] EN
[54] **BRUSH WEAR AND VIBRATION MONITORING**
[54] **SURVEILLANCE DE L'USURE ET DES VIBRATIONS D'UN BALAI**
[72] CUTSFORTH, ROBERT S., US
[72] CUTSFORTH, DUSTIN L., US
[73] CUTSFORTH, INC., US
[85] 2017-11-03
[86] 2016-05-31 (PCT/US2016/035051)
[87] (WO2016/196484)
[30] US (62/169,222) 2015-06-01
[30] US (15/168,607) 2016-05-31

[11] **2,985,482**
[13] C
[51] **Int.Cl. G01V 1/04 (2006.01) G01V 1/00 (2006.01)**
[25] EN
[54] **MULTIPLE ACTUATOR VIBRATOR**
[54] **VIBRATEUR A ACTIONNEURS MULTIPLES**
[72] EICK, PETER M., US
[72] BREWER, JOEL D., US
[72] SHAN, SHAN, US
[73] CONOCOPHILLIPS COMPANY, US
[85] 2017-11-08
[86] 2016-05-11 (PCT/US2016/031717)
[87] (WO2016/183122)
[30] US (62/161,589) 2015-05-14
[30] US (15/151,562) 2016-05-11

[11] **2,985,935**
[13] C
[51] **Int.Cl. C12N 15/56 (2006.01) A01K 67/027 (2006.01) A61K 48/00 (2006.01) A61P 3/00 (2006.01) C12N 5/10 (2006.01) C12N 9/40 (2006.01) C12N 15/67 (2006.01) C12N 15/85 (2006.01) C12N 15/864 (2006.01)**
[25] EN
[54] **FABRY DISEASE GENE THERAPY**
[54] **THERAPIE GENIQUE DE LA MALADIE DE FABRY**
[72] NATHWANI, AMIT, GB
[72] RAJ, DEEPAK, GB
[73] UCL BUSINESS LTD, GB
[85] 2017-11-14
[86] 2016-05-10 (PCT/GB2016/051328)
[87] (WO2016/181122)
[30] GB (1508025.2) 2015-05-11

[11] **2,986,904**
[13] C
[51] **Int.Cl. A47J 31/40 (2006.01) B67D 7/76 (2010.01) A47J 31/44 (2006.01) A47J 31/46 (2006.01) G01F 3/36 (2006.01)**
[25] EN
[54] **CARTRIDGE PUMP**
[54] **POMPE A CARTOUCHE**
[72] MEZA, HUMBERTO V., US
[72] PERKINS, BERNARD L., US
[73] FLOW CONTROL LLC., US
[85] 2017-11-22
[86] 2016-05-27 (PCT/US2016/034789)
[87] (WO2016/191731)
[30] US (62/166,988) 2015-05-27

[11] **2,986,956**
[13] C
[51] **Int.Cl. C12N 5/10 (2006.01) C12N 5/0783 (2010.01) A61K 35/12 (2015.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C07K 19/00 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **AN IMMUNE CELL COMPRISING A CAR AND TRUNCATED PROTEIN**
[54] **CELLULE IMMUNITAIRE COMPRENANT UN RECEPTEUR ANTIGENIQUE CHIMERIQUE (CAR)ET UNE PROTEINE TRONQUEE**
[72] PULE, MARTIN, GB
[72] CORDOBA, SHAUN, GB
[72] THOMAS, SIMON, GB
[72] KONG, KHAI, GB
[73] AUTOLUS LIMITED, GB
[85] 2017-11-23
[86] 2016-05-31 (PCT/GB2016/051576)
[87] (WO2016/193696)
[30] GB (1509413.9) 2015-06-01

[11] **2,990,047**
[13] C
[51] **Int.Cl. H02J 50/30 (2016.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTACTLESS ENERGY TRANSFER TO A MOVING PLATFORM**
[54] **SYSTEME ET PROCEDE DE TRANSFERT D'ENERGIE SANS CONTACT A UNE PLATE-FORME MOBILE**
[72] JUNGWIRTH, DOUGLAS R., US
[73] THE BOEING COMPANY, US
[85] 2017-12-18
[86] 2016-08-08 (PCT/US2016/045969)
[87] (WO2017/039961)
[30] US (14/840,384) 2015-08-31

[11] **2,990,872**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **ACTIVELY CONTROLLABLE HEART VALVE IMPLANT AND METHODS OF CONTROLLING SAME**
[54] **IMPLANT DE VALVE CARDIAQUE POUVANT ETRE COMMANDE DE MANIERE ACTIVE ET PROCEDES DE COMMANDE DE CELUI-CI**
[72] GREENE, JAMES L., US
[72] JIMENEZ, JORGE, US
[72] CARTLEDGE, RICHARD, US
[72] DEVILLE, DEREK DEE, US
[72] SMITH, KEVIN W., US
[73] EDWARDS LIFESCIENCE CARDIAQ LLC, US
[85] 2017-12-22
[86] 2016-06-22 (PCT/US2016/038776)
[87] (WO2016/209970)
[30] US (62/182,820) 2015-06-22
[30] US (62/183,451) 2015-06-23
[30] US (15/189,786) 2016-06-22

[11] **2,993,631**
[13] C
[51] **Int.Cl. G05D 7/06 (2006.01) G05D 7/00 (2006.01)**
[25] EN
[54] **ADVANCED REAL TIME GRAPHIC SENSORLESS ENERGY SAVING PUMP CONTROL SYSTEM**
[54] **SYSTEME DE COMMANDE DE POMPE A ECONOMIE D'ENERGIE SANS CAPTEUR GRAPHIQUE EN TEMPS REEL AVANCE**
[72] CHENG, ANDREW A., US
[72] GU, JAMES J., US
[72] PATEL, PRADIPKUMAR B., US
[72] SCHOENHEIT, KYLE D., US
[73] FLUID HANDLING LLC, US
[85] 2018-01-23
[86] 2016-07-22 (PCT/US2016/043527)
[87] (WO2017/019492)
[30] US (62/196,355) 2015-07-24

[11] **2,993,675**
[13] C
[51] **Int.Cl. C08F 210/16 (2006.01)**
[25] EN
[54] **HETEROGENEOUS ZIEGLER-NATTA CATALYSTS WITH FLUORIDED SILICA-COATED ALUMINA**
[54] **CATALYSEURS ZIEGLER-NATTA HETEROGENES COMPRENANT DE L'ALUMINE REVETUE DE SILICE FLUOREE**
[72] DING, ERRUN, US
[72] GRECO, JEFFREY F., US
[72] YANG, QING, US
[72] YU, YOULU, US
[73] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US
[85] 2018-01-24
[86] 2016-09-22 (PCT/US2016/053071)
[87] (WO2017/053543)
[30] US (14/863,698) 2015-09-24

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[11] **2,993,690**
[13] C
[51] **Int.Cl. C12N 1/12 (2006.01) A23K 10/16 (2016.01) A23K 20/158 (2016.01) A23L 33/12 (2016.01) A23L 33/135 (2016.01) A23D 9/00 (2006.01) A61K 31/201 (2006.01) A61K 35/66 (2015.01) A61P 3/00 (2006.01) C11B 1/00 (2006.01) C12N 1/00 (2006.01) C12N 1/10 (2006.01)**
[25] EN
[54] **EICOSAPENTAENOIC ACID-PRODUCING MICROORGANISMS, FATTY ACID COMPOSITIONS, AND METHODS OF MAKING AND USES THEREOF**
[54] **MICRO-ORGANISMES PRODUISANT DE L'ACIDE EICOSAPENTAENOIQUE, COMPOSITIONS D'ACIDES GRAS ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**
[72] APT, KIRK E., US
[72] BEHRENS, PAUL WARREN, US
[72] HANSEN, JON MILTON, US
[72] PFEIFER, JOSEPH W., III, US
[72] STAHL, TRACEY LYNN, US
[72] ZIRKLE, ROSS, US
[73] DSM IP ASSETS B.V., NL
[86] (2993690)
[87] (2993690)
[22] 2010-03-22
[62] 2,787,344
[30] US (61/296,456) 2010-01-19

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[11] **2,994,270**
[13] C
[51] **Int.Cl. E21B 33/04 (2006.01)**
[25] EN
[54] **LINER DEPLOYMENT ASSEMBLY HAVING FULL TIME DEBRIS BARRIER**
[54] **ENSEMBLE DE DEPLOIEMENT DE CHEMISE COMPORTANT UNE BARRIERE DE PROTECTION CONTRE LES DEBRIS A PLEIN TEMPS**
[72] LUKE, MIKE A., US
[72] REINHARDT, PAUL ANDREW, US
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
[85] 2018-01-30
[86] 2016-08-02 (PCT/US2016/045120)
[87] (WO2017/023911)
[30] US (62/200,251) 2015-08-03

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[11] **2,995,653**
[13] C
[51] **Int.Cl. G08B 3/10 (2006.01) G06Q 20/20 (2012.01) G06Q 20/32 (2012.01) H04L 12/28 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AUDIO SIGNAL MEDIATED INTERACTIONS**
[54] **SYSTEME ET PROCEDE POUR INTERACTIONS A MEDIATION DE SIGNAUX AUDIO**
[72] MISEK, PETER, CA
[72] SQUIRE, JASON, CA
[73] SOUNDPAYS INC., CA
[85] 2018-02-14
[86] 2016-08-16 (PCT/IB2016/054903)
[87] (WO2017/029605)
[30] US (62/207,021) 2015-08-19

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[11] **2,996,490**
[13] C
[51] **Int.Cl. A61J 1/06 (2006.01) A61J 1/16 (2006.01) F26B 25/06 (2006.01)**
[25] EN
[54] **CONTAINER HOLDING MEMBER AND MEDICAL CONTAINER SET**
[54] **ELEMENT PORTE-RECIPIENTS ET ENSEMBLE DE RECIPIENTS MEDICAUX**
[72] KAWAMURA, HIDEAKI, JP
[73] DAIKYO SEIKO, LTD., JP
[85] 2018-02-23
[86] 2016-08-31 (PCT/JP2016/075510)
[87] (WO2017/038878)
[30] JP (2015-174900) 2015-09-04

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[11] **2,997,563**
[13] C
[51] **Int.Cl. D21H 19/52 (2006.01) C08L 5/00 (2006.01) C08L 5/02 (2006.01) C09D 105/00 (2006.01) C09D 105/02 (2006.01) C09D 129/02 (2006.01) C09D 131/04 (2006.01) D06M 15/11 (2006.01) D21H 19/62 (2006.01) D21H 21/16 (2006.01)**
[25] EN
[54] **POLYSACCHARIDE COATINGS FOR PAPER**
[54] **REVETEMENTS A BASE DE POLYSACCHARIDES POUR PAPIER**
[72] BEHABTU, NATNAEL, US
[73] NUTRITION & BIOSCIENCES USA 4, INC., US
[85] 2018-03-02
[86] 2016-10-24 (PCT/US2016/058436)
[87] (WO2017/074859)
[30] US (62/246,349) 2015-10-26
[30] US (62/251,191) 2015-11-05

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[11] **2,997,638**
[13] C
[51] **Int.Cl. H04L 9/32 (2006.01) G06F 21/32 (2013.01) G06F 21/36 (2013.01)**
[25] EN
[54] **REMOTE IDENTITY AUTHENTICATION METHOD AND SYSTEM AND REMOTE ACCOUNT OPENING METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME D'AUTHENTIFICATION D'IDENTITE A DISTANCE, ET PROCEDE ET SYSTEME D'OUVERTURE DE COMPTE A DISTANCE**
[72] LI, DONGSHENG, CN
[73] TENDYRON CORPORATION, CN
[85] 2018-03-06
[86] 2016-09-07 (PCT/CN2016/098330)
[87] (WO2017/041715)
[30] CN (201510564864.0) 2015-09-07

[11] **2,998,724**
[13] C
[51] **Int.Cl. H01G 11/36 (2013.01) H01G 11/38 (2013.01) H01M 4/04 (2006.01) H01M 4/36 (2006.01) H01M 4/139 (2010.01) H01M 4/62 (2006.01)**
[25] EN
[54] **GRAPHENE DISPERSION, PROCESS FOR PRODUCING SAME, PROCESS FOR PRODUCING PARTICLES OF GRAPHENE/ACTIVE MATERIAL COMPOSITE, AND PROCESS FOR PRODUCING ELECTRODE PASTE**
[54] **DISPERSION DE GRAPHENE, SON PROCEDE DE PRODUCTION, PROCEDE DE PRODUCTION DE PARTICULES DE COMPOSITE DE GRAPHENE/MATERIAU ACTIF, ET PROCEDE DE PRODUCTION DE PATE D'ELECTRODE**
[72] MANABE, KOICHIRO, JP
[72] TAMAKI, EIICHIRO, JP
[72] KAWASAKI, MANABU, JP
[73] TORAY INDUSTRIES, INC., JP
[85] 2018-03-14
[86] 2016-09-09 (PCT/JP2016/076654)
[87] (WO2017/047521)
[30] JP (2015-184813) 2015-09-18

[11] **2,999,513**
[13] C
[51] **Int.Cl. A61B 17/04 (2006.01)**
[25] EN
[54] **DISTAL ANCHOR APPARATUS AND METHODS FOR MITRAL VALVE REPAIR**
[54] **APPAREIL ET PROCEDES D'ANCRAGE DISTAL POUR REPARATION DE VALVULE MITRALE**
[72] WILSON, PETER, US
[72] EPSTEIN, STEPHEN, US
[72] COURNANE, STEPHEN, US
[73] HARPOON MEDICAL, INC., US
[85] 2018-03-21
[86] 2016-10-03 (PCT/US2016/055170)
[87] (WO2017/059426)
[30] US (62/236,225) 2015-10-02
[30] US (62/315,879) 2016-03-31

[11] **3,000,561**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01)**
[25] EN
[54] **ALPHA-HEMOLYSIN VARIANTS**
[54] **VARIANTS D'ALPHA-HEMOLYSINE**
[72] DORWART, MICHAEL, US
[72] CRAIG, TIMOTHY KELLOG, US
[72] TZITZILONIS, CHRISTOS, US
[72] JENSEN, LIV ELIZABETH, US
[72] PORTER, MARSHALL WINSTON, US
[72] CECH, CYNTHIA ANN, US
[72] YANG, ALEXANDER HYUN-MIN, UA
[73] F. HOFFMAN-LA ROCHE AG, CH
[85] 2018-03-22
[86] 2016-09-20 (PCT/EP2016/072220)
[87] (WO2017/050718)
[30] US (62/232,175) 2015-09-24
[30] US (62/244,852) 2015-10-22

[11] **3,000,892**
[13] C
[51] **Int.Cl. G06Q 20/40 (2012.01) G07F 7/06 (2006.01)**
[25] EN
[54] **FRAUD DETECTION SYSTEM AND METHOD**
[54] **PROCEDE ET SYSTEME DE DETECTION DE FRAUDE**
[72] SAETHER, GEIR, NO
[72] SIVERTSEN, RONALD, NO
[72] LUNDE, TOM, NO
[72] NJASTAD, JOHNNY, NO
[73] TOMRA SYSTEMS ASA, NO
[85] 2018-04-04
[86] 2016-10-05 (PCT/EP2016/073775)
[87] (WO2017/060288)
[30] EP (EP15188634.8) 2015-10-06

[11] **3,003,926**
[13] C
[51] **Int.Cl. E21B 19/06 (2006.01) E21B 19/22 (2006.01)**
[25] EN
[54] **CARRIER BLOCK AND GRIPPER BLOCK FOR COILED TUBING ASSEMBLY**
[54] **BLOC DE SUPPORT ET BLOC DE PREHENSION POUR ENSEMBLE TUBE D'INTERVENTION ENROULE**
[72] HASSARD, CECIL, CA
[72] JURIC, MARIJANA, CA
[72] LOVSTROM, BRUCE, CA
[73] COIL SOLUTIONS, INC., CA
[85] 2018-05-03
[86] 2016-11-03 (PCT/CA2016/051280)
[87] (WO2017/075709)
[30] US (62/250,330) 2015-11-03

[11] **3,007,028**
[13] C
[51] **Int.Cl. G06Q 10/08 (2012.01) B65G 1/137 (2006.01)**
[25] EN
[54] **WAREHOUSE AUTOMATION SYSTEMS AND METHODS USING A MOTOR-DRIVEN CART**
[54] **SYSTEMES ET PROCEDES D'AUTOMATISATION D'ENTREPOT A L'AIDE D'UN CHARIOT A MOTEUR**
[72] HAMILTON, RYLAN, US
[72] DUBOIS, JEROME, US
[72] CACIOPPO, CHRISTOPHER, US
[72] HIGGINS, TIMOTHY, US
[73] 6 RIVER SYSTEMS, LLC, US
[85] 2018-05-30
[86] 2016-12-07 (PCT/US2016/065329)
[87] (WO2017/100287)
[30] US (62/263,966) 2015-12-07

[11] **3,007,161**
[13] C
[51] **Int.Cl. C07K 14/54 (2006.01) C07K 14/705 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **NOVEL CYTOKINE FUSION PROTEINS**
[54] **NOUVELLES PROTEINES DE FUSION A CYTOKINE**
[72] SAHIN, UGUR, DE
[72] GIESEKE, FRIEDERIKE, DE
[72] KREITER, SEBASTIAN, DE
[72] DIKEN, MUSTAFA, DE
[73] TRON TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITAETSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITAET MAINZ GGMBH, DE
[73] BIONTECH SE, DE
[85] 2018-06-01
[86] 2016-12-16 (PCT/EP2016/081401)
[87] (WO2017/103088)
[30] EP (PCT/EP2015/080299) 2015-12-17

[11] **3,007,872**
[13] C
[51] **Int.Cl. G01N 27/333 (2006.01) G01N 33/62 (2006.01)**
[25] EN
[54] **MIXED IONOPHORE ION-SELECTIVE ELECTRODE FOR THE IMPROVED DETECTION OF UREA IN BLOOD**
[54] **ELECTRODE SELECTIVE D'IONS PAR UN MELANGE D'IONOPHORES POUR LA DETECTION AMELIOREE DE L'UREE DANS LE SANG**
[72] KJAER, THOMAS, DK
[72] MICHELSEN, LONE, DK
[72] SOERENSEN, POUL RAVN, DK
[72] JAKOBSEN, HANS PETER BLAABJERG, DK
[73] RADIOMETER MEDICAL APS, DK
[85] 2018-06-08
[86] 2016-12-12 (PCT/EP2016/080607)
[87] (WO2017/125208)
[30] DK (PA 2015 00818) 2015-12-18

[11] **3,010,787**
[13] C
[51] **Int.Cl. D04H 1/425 (2012.01) D04H 1/4291 (2012.01) D04H 1/559 (2012.01) D04H 3/007 (2012.01) B32B 5/04 (2006.01) B32B 5/26 (2006.01)**
[25] EN
[54] **NONWOVEN FABRIC WITH IMPROVED HAND-FEEL**
[54] **ETOFFE NON TISSEE AVEC TOUCHER AMELIORE**
[72] ERLANDSSON, SVEN KRISTER, US
[72] SNIDER, JERRY, US
[72] DIETZ, ALBERT G., III, US
[72] GRONDIN, PIERRE, US
[72] MOODY, RALPH A., III, US
[73] AVINTIV SPECIALTY MATERIALS INC., US
[85] 2018-07-06
[86] 2017-01-05 (PCT/US2017/012283)
[87] (WO2017/120299)
[30] US (62/276,391) 2016-01-08

[11] **3,010,891**
[13] C
[51] **Int.Cl. C12N 15/63 (2006.01) C12N 9/22 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **RECOMBINOGENIC NUCLEIC ACID STRANDS IN SITU**
[54] **BRINS D'ACIDES NUCLEIQUES RECOMBINOGENIQUES IN SITU**
[72] CLUBE, JASPER, GB
[73] SNIPR TECHNOLOGIES LIMITED, GB
[85] 2018-07-09
[86] 2016-12-30 (PCT/EP2016/082942)
[87] (WO2017/118598)
[30] GB (1600417.8) 2016-01-10

[11] **3,015,725**
[13] C
[51] **Int.Cl. G06F 13/42 (2006.01)**
[25] EN
[54] **COMMUNICATING WITH TWO OR MORE SLAVES**
[54] **COMMUNICATION AVEC DEUX ESCLAVES OU PLUS**
[72] SUN, LI, CN
[72] SONG, JINGXIAN, CN
[73] MICRO MOTION, INC., US
[85] 2018-08-24
[86] 2016-02-26 (PCT/CN2016/074627)
[87] (WO2017/143578)

[11] **3,016,466**
[13] C
[51] **Int.Cl. A01J 9/02 (2006.01) F16K 11/00 (2006.01) F16K 24/02 (2006.01)**
[25] EN
[54] **SAFETY VALVE FOR AN AUTOMATIC DAIRY ANIMAL MILKER UNIT BACKFLUSHER AND TEAT DIP APPLICATOR**
[54] **SOUPAPE DE SURETE DESTINEE AU DECOLMATAGE A CONTRE-COURANT D'UNE UNITE DE TRAITE D'ANIMAL LAITIER AUTOMATIQUE**
[72] TORGERSON, KEVIN L., US
[72] HEDLUND, NATHAN, US
[72] STUESSEL, MATTHEW J., US
[73] GEA FARM TECHNOLOGIES, INC., US
[86] (3016466)
[87] (3016466)
[22] 2010-09-03
[62] 2,772,991
[30] US (12/584,475) 2009-09-04
[30] US (12/584,480) 2009-09-04
[30] US (12/584,479) 2009-09-04

[11] **3,017,731**
[13] C
[51] **Int.Cl. A61B 46/20 (2016.01)**
[25] EN
[54] **SURGICAL DRAPE**
[54] **CHAMP OPERATOIRE**
[72] CHUA, MARK SPENCER, US
[72] SEEFELDT, MICHAEL, US
[73] MEDLINE INDUSTRIES, INC., US
[85] 2018-09-13
[86] 2017-03-14 (PCT/US2017/022278)
[87] (WO2017/160819)
[30] US (15/069,380) 2016-03-14

[11] **3,020,278**
[13] C
[51] **Int.Cl. C08F 36/04 (2006.01)**
[25] EN
[54] **MERCAPTANIZED DICYCLOPENTADIENE COMPOSITIONS AND USE THEREOF AS A MINING CHEMICAL COLLECTOR**
[54] **COMPOSITIONS DE DICYCLOPENTADIENE MERCAPTANISE ET LEUR UTILISATION COMME COLLECTEUR CHIMIQUE POUR L'EXPLOITATION MINIERE**
[72] BYERS, JIM, US
[72] MATSON, MICHAEL, US
[72] KREIDER, JASON, US
[72] LASSEN, KENNETH, US
[73] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US
[85] 2018-10-05
[86] 2016-11-29 (PCT/US2016/063910)
[87] (WO2017/176320)
[30] US (15/090,643) 2016-04-05

[11] **3,020,626**
[13] C
[51] **Int.Cl. A61K 36/48 (2006.01) A61P 9/12 (2006.01)**
[25] EN
[54] **LENTIL CONSUMPTION REDUCES ARTERY REMODELING AND RESTORES ARTERIAL COMPLIANCE**
[54] **CONSOMMATION DE LENTILLES DANS LE BUT DE REDUIRE LE REMODELAGE DE L'ARTERE ET DE RETABLIR LA COMPLIANCE ARTERIELLE**
[72] TAYLOR, CARLA G., CA
[72] ZAHRADKA, PETER, CA
[73] PRAIRIE SKYLINE VENTURES, CA
[85] 2018-10-11
[86] 2016-06-27 (PCT/CA2016/050749)
[87] (WO2016/205954)
[30] US (62/184,307) 2015-06-25

[11] **3,021,835**
[13] C
[51] **Int.Cl. A61K 31/465 (2006.01) A61K 9/00 (2006.01) A61K 9/12 (2006.01) A61K 31/047 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL FORMULATIONS CONTAINING CANNABIDIOL AND NICOTINE FOR TREATING SMOKELESS TOBACCO ADDICTION**
[54] **FORMULATIONS PHARMACEUTIQUES CONTENANT DU CANNABIDIOL ET DE LA NICOTINE POUR LE TRAITEMENT DE LA DEPENDANCE AU TABAC SANS FUMEE**
[72] WILLIAMS, JONNIE R., US
[73] CV SCIENCES, INC., US
[85] 2018-10-22
[86] 2017-05-02 (PCT/US2017/030558)
[87] (WO2017/200740)
[30] US (62/336,990) 2016-05-16
[30] US (15/426,617) 2017-02-07

[11] **3,022,046**
[13] C
[51] **Int.Cl. G01S 5/02 (2010.01) G01S 19/42 (2010.01) G01S 5/06 (2006.01)**
[25] EN
[54] **PERSONAL PROTECTION SYSTEM WITH RF TIME-OF-FLIGHT RANGING**
[54] **SYSTEME DE PROTECTION PERSONNELLE DE TELEMETRIE RF**
[72] KAUFMANN, THOMAS, CH
[72] KAUPPINEN, TOMMI JUHANI, AU
[73] SAFEMINE AG, CH
[86] (3022046)
[87] (3022046)
[22] 2018-10-25
[30] EP (17198717) 2017-10-26

[11] **3,025,509**
[13] C
[51] **Int.Cl. F02M 25/10 (2006.01) F02M 25/12 (2006.01)**
[25] EN
[54] **HYDROGENATED LIQUID FUEL PRODUCTION AND HYPERBARIC FUEL INDUCTION SYSTEM FOR GASOLINE AND DIESEL INTERNAL COMBUSTION ENGINES**
[54] **PRODUCTION DE CARBURANT LIQUIDE HYDROGENE ET SYSTEME D'INDUCTION DE CARBURANT HYPERBARE POUR MOTEURS A COMBUSTION INTERNE A ESSENCE ET DIESEL**
[72] ST. MARY, HARVEY K, US
[72] CHADICK, JAMES A., US
[72] CORNELL, ROSS, US
[73] SALUS ENERGY SOLUTIONS, L.P., US
[85] 2018-11-23
[86] 2017-05-25 (PCT/US2017/034560)
[87] (WO2017/205681)
[30] US (62/341,228) 2016-05-25

[11] **3,026,727**
[13] C
[51] **Int.Cl. C07K 7/64 (2006.01) C12N 15/115 (2010.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01) C07K 16/00 (2006.01) C07K 16/08 (2006.01) C07K 16/30 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **AMATOXIN-ARMED THERAPEUTIC CELL SURFACE BINDING COMPONENTS DESIGNED FOR TUMOUR THERAPY**
[54] **CONSTITUANTS THERAPEUTIQUES CONTENANT DE L'AMATOXINE DE LIAISON A LA SURFACE CELLULAIRE DESTINES A LA THERAPIE DES TUMEURS**
[72] FAULSTICH, HEINZ, DE
[72] ANDERL, JAN, DE
[72] WERNER, SIMON, DE
[72] MULLER, CHRISTOPH, DE
[72] MOLDENHAUER, GERHARD, DE
[73] DEUTSCHES KREBSFORSCHUNGSZENTRUM, DE
[73] FAULSTICH, HEINZ, DE
[86] (3026727)
[87] (3026727)
[22] 2010-04-08
[62] 2,970,774
[30] US (61/167,690) 2009-04-08
[30] US (61/222,227) 2009-07-01

[11] **3,027,349**
[13] C
[51] **Int.Cl. H04N 1/60 (2006.01) H04N 1/00 (2006.01)**
[25] EN
[54] **PRINTING DEVICE SUPPLY COMPONENT**
[54] **COMPOSANT D'ALIMENTATION DE DISPOSITIF D'IMPRESSION**
[72] SHAW, MARK Q., US
[72] JERAN, PAUL, US
[72] COLLISON, SEAN MICHAEL, US
[72] NELSON, TERRY M., US
[72] TANG, CHUOHAO, US
[72] REIBMAN, AMY RUTH, US
[72] ALLEBACH, JAN P., US
[73] HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., US
[73] PURDUE RESEARCH FOUNDATION, US
[85] 2018-12-11
[86] 2016-11-07 (PCT/US2016/060877)
[87] (WO2018/009238)
[30] US (PCT/US2016/041633) 2016-07-08

[11] **3,027,605**
[13] C
[51] **Int.Cl. E04B 2/74 (2006.01)**
[25] EN
[54] **DEMOUNTABLE WALL SYSTEM**
[54] **SYSTEME MURAL DEMONTABLE**
[72] LA FLEUR, TIMOTHY JOHN, US
[72] QUINTAL, NATHAN A., US
[72] KOPISH, ANDREW J., US
[73] KRUEGER INTERNATIONAL, INC., US
[86] (3027605)
[87] (3027605)
[22] 2018-12-14
[30] US (16/045,037) 2018-07-25

[11] **3,027,973**
[13] C
[51] **Int.Cl. G06F 9/50 (2006.01) G06F 15/16 (2006.01)**
[25] EN
[54] **A COMPUTER CLUSTER ARRANGEMENT FOR PROCESSING A COMPUTATION TASK AND METHOD FOR OPERATION THEREOF**
[54] **AGENCEMENT DE GRAPPE D'ORDINATEURS POUR LE TRAITEMENT D'UNE TACHE DE CALCUL ET SON PROCEDE DE FONCTIONNEMENT**
[72] LIPPERT, THOMAS, DE
[73] PARTEC CLUSTER COMPETENCE CENTER GMBH, DE
[86] (3027973)
[87] (3027973)
[22] 2011-10-13
[62] 2,814,309
[30] EP (10187436.0) 2010-10-13

[11] **3,028,717**
[13] C
[51] **Int.Cl. A24F 40/40 (2020.01)**
[25] EN
[54] **INSTALLATION STRUCTURE OF CONDUCTIVE CONTACT AND ELECTRONIC CIGARETTE HAVING SAME**
[54] **STRUCTURE D'INSTALLATION DE CONTACT CONDUCTEUR ET CIGARETTE ELECTRONIQUE COMPORTANT CELUI-CI**
[72] OUYANG, JUNWEI, CN
[73] SHENZHEN IVPS TECHNOLOGY CO., LTD., CN
[86] (3028717)
[87] (3028717)
[22] 2018-12-31
[30] CN (201821615937.X) 2018-09-30

[11] **3,028,911**
[13] C
[51] **Int.Cl. H02S 10/40 (2014.01) H02S 20/30 (2014.01) H02S 30/20 (2014.01)**
[25] EN
[54] **PORTABLE POWER GENERATOR**
[54] **GENERATEUR D'ENERGIE PORTATIF**
[72] CARRINGTON, SCOTT, CA
[73] CARRINGTON, SCOTT, CA
[86] (3028911)
[87] (3028911)
[22] 2019-01-04
[30] US (15908468) 2018-02-28
[30] US (16240616) 2019-01-04

[11] **3,029,544**
[13] C
[51] **Int.Cl. C07F 7/00 (2006.01) C08F 4/64 (2006.01) C08F 4/642 (2006.01) C08F 10/06 (2006.01)**
[25] EN
[54] **QUINOLINYLDIAMIDO TRANSITION METAL COMPLEXES, PRODUCTION AND USE THEREOF**
[54] **COMPLEXES QUINOLINYLDIAMIDO DE METAUX DE TRANSITION, LEUR PRODUCTION ET LEUR UTILISATION**
[72] HAGADORN, JOHN R., US
[72] PALAFOX, PATRICK J., US
[72] JIANG, PEIJUN, US
[72] GAO, YAOHUA, US
[72] CHEN, XIN, US
[72] GORYUNOV, GEORGY P., RU
[72] UBORSKY, DMITRY V., RU
[72] VOSKOBOYNIKOV, ALEXANDER Z., RU
[72] SHARIKOV, MIKHAIL I., RU
[73] EXXONMOBIL CHEMICAL PATENTS INC., US
[85] 2018-12-28
[86] 2017-06-21 (PCT/US2017/038606)
[87] (WO2018/005201)
[30] US (62/357,033) 2016-06-30
[30] EP (16185512.7) 2016-08-24

[11] **3,029,690**
[13] C
[51] **Int.Cl. E02F 3/40 (2006.01)**
[25] EN
[54] **ATTACHMENT FOR A BUCKET OF A PRIME MOVER**
[54] **ACCESSOIRE DESTINE A UN GODET D'APPAREIL MOTEUR**
[72] MCDONALD, BRIAN C., CA
[73] MCDONALD, BRIAN C., CA
[86] (3029690)
[87] (3029690)
[22] 2019-01-10
[30] US (62/633,698) 2018-02-22

[11] **3,030,052**
[13] C
[51] **Int.Cl. H02K 3/28 (2006.01)**
[25] EN
[54] **VARIABLE POWER MOTOR**
[54] **MOTEUR A PUISSANCE VARIABLE**
[72] ZHANG, SHIXING, CN
[73] ZHANG, SHIXING, CN
[85] 2019-01-07
[86] 2017-07-05 (PCT/CN2017/000421)
[87] (WO2018/006579)
[30] CN (201610527604.0) 2016-07-07

[11] **3,030,825**
[13] C
[51] **Int.Cl. C10B 31/12 (2006.01) B01J 4/00 (2006.01) C10B 45/00 (2006.01)**
[25] EN
[54] **RETRACTABLE CENTER FEED INJECTION DEVICE**
[54] **DISPOSITIF D'INJECTION A ALIMENTATION CENTRALE RETRACTABLE**
[72] LAH, RUBEN F., US
[72] KRAUSE, KENNETH, US
[72] LARSEN, GARY, US
[73] DELTAVALVE, LLC, US
[85] 2019-01-14
[86] 2016-08-15 (PCT/US2016/047068)
[87] (WO2017/218020)
[30] US (15/185,324) 2016-06-17

[11] **3,030,938**
[13] C
[51] **Int.Cl. C12N 13/00 (2006.01) A01H 1/00 (2006.01) C12N 15/09 (2006.01)**
[25] EN
[54] **METHOD FOR INTRODUCING SUBSTANCE INTO PLANT CELL USING PLASMA**
[54] **PROCEDE D'INTRODUCTION D'UNE SUBSTANCE DANS UNE CELLULE VEGETALE AU MOYEN DE PLASMA**
[72] MITSUHARA, ICHIRO, JP
[72] YANAGAWA, YUKI, JP
[72] OKINO, AKITOSHI, JP
[72] MIYAHARA, HIDEKAZU, JP
[72] KAWANO, HIROAKI, JP
[72] KOBAYASHI, TOMOHIRO, JP
[72] WATANABE, YOSUKE, JP
[73] NATIONAL AGRICULTURE AND FOOD RESEARCH ORGANIZATION, JP
[85] 2019-01-15
[86] 2017-06-08 (PCT/JP2017/021361)
[87] (WO2018/016217)
[30] JP (2016-141638) 2016-07-19

[11] **3,031,126**
[13] C
[51] **Int.Cl. C07K 14/47 (2006.01) C12N 5/078 (2010.01) C12N 5/0783 (2010.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 7/06 (2006.01) C12N 15/12 (2006.01)**
[25] EN
[54] **WDRPUH EPITOPE PEPTIDES AND VACCINES CONTAINING THE SAME**
[54] **PEPTIDES A EPITOPE WDRPUH ET VACCINS LES INCLUANT**
[72] TSUNODA, TAKUYA, JP
[72] OHSAWA, RYUJI, JP
[72] YOSHIMURA, SACHIKO, JP
[72] WATANABE, TOMOHISA, JP
[73] ONCOTHERAPY SCIENCE, INC., JP
[86] (3031126)
[87] (3031126)
[22] 2009-12-03
[62] 2,745,408
[30] US (61/200,962) 2008-12-05
[30] US (61/209,704) 2009-03-09

[11] **3,033,428**
[13] C
[51] **Int.Cl. A61B 6/10 (2006.01) G06T 7/10 (2017.01) G16H 50/50 (2018.01) A61B 6/03 (2006.01) G06T 3/00 (2006.01)**
[25] EN
[54] **GENERATING AN ESTIMATE OF PATIENT RADIATION DOSE RESULTING FROM MEDICAL IMAGING SCANS**
[54] **GENERATION D'UNE ESTIMATION D'UNE DOSE DE RAYONNEMENT D'UN PATIENT RESULTANT D'EXAMENS D'IMAGERIE MEDICALE**
[72] COUCH, JAMES, CA
[72] COUCH, GREGORY, CA
[73] BAYER HEALTHCARE LLC, US
[86] (3033428)
[87] (3033428)
[22] 2011-12-08
[62] 2,819,331
[30] US (61/420834) 2010-12-08

[11] **3,035,258**
[13] C
[51] **Int.Cl. A61B 1/04 (2006.01) A61B 34/20 (2016.01) A61B 50/13 (2016.01) A61B 50/15 (2016.01) A61B 1/045 (2006.01) A61B 1/05 (2006.01) A61B 1/24 (2006.01) A61B 1/32 (2006.01) A61B 17/02 (2006.01) A61B 17/16 (2006.01) A61B 17/3211 (2006.01)**
[25] EN
[54] **IMMERSIVE THREE-DIMENSIONAL DISPLAY FOR ROBOTIC SURGERY**
[54] **AFFICHAGE TRIDIMENSIONNEL IMMERSIF POUR CHIRURGIE ROBOTISEE**
[72] ANDERSON, KENT, US
[72] SAVALL, JOAN, US
[72] NOBLES, BRENT, US
[72] SHUM, ALLEGRA, US
[72] GARCIA KILROY, PABLO E., US
[72] KOENIG, KAREN SHAKESPEAR, US
[73] VERB SURGICAL INC., US
[85] 2019-02-26
[86] 2017-10-03 (PCT/US2017/054995)
[87] (WO2018/067611)
[30] US (62/403,655) 2016-10-03

[11] **3,036,027**
[13] C
[51] **Int.Cl. B60W 20/17 (2016.01) B60K 6/485 (2007.10) B60W 10/08 (2006.01)**
[25] EN
[54] **CONTROL METHOD AND CONTROL DEVICE FOR HYBRID VEHICLE**
[54] **PROCEDE DE COMMANDE ET DISPOSITIF DE COMMANDE DE VEHICULE HYBRIDE**
[72] KONDO, SHINPEI, JP
[72] IENAKA, YUSUKE, JP
[72] KANEKO, HIROTAKA, JP
[72] ITO, TOMOHIRO, JP
[72] SATOU, YUUSUKE, JP
[73] NISSAN MOTOR CO., LTD., JP
[85] 2019-03-06
[86] 2016-09-06 (PCT/JP2016/076133)
[87] (WO2018/047224)

[11] **3,036,074**
[13] C
[51] **Int.Cl. B65G 23/23 (2006.01) G01G 19/03 (2006.01)**
[25] EN
[54] **WEIGH-IN-MOTION SCALE SYSTEM AND METHOD FOR LINEAR SYNCHRONOUS MOTOR CONVEYOR**
[54] **SYSTEME ET PROCEDE DE BALANCE DE PESEE EN MARCHE DESTINES A UN TRANSPORTEUR A MOTEUR SYNCHRONE LINEAIRE**
[72] LYMAN, CHRISTOPHER ROBERT, US
[72] GRANITZ, MICHAEL, US
[72] ROYCE, DANIEL RICHARD, US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2019-03-06
[86] 2017-09-08 (PCT/US2017/050597)
[87] (WO2018/049102)
[30] US (62/385,293) 2016-09-09

[11] **3,036,258**
[13] C
[51] **Int.Cl. A61M 39/16 (2006.01) A61L 2/18 (2006.01) A61M 39/02 (2006.01)**
[25] EN
[54] **INTRAVASCULAR LINE PORT CLEANING DEVICES**
[54] **DISPOSITIFS DE NETTOYAGE D'ORIFICE DE LIGNE INTRAVASCULAIRE**
[72] TENNICAN, PATRICK O., US
[73] HYPROTEK, INC., US
[86] (3036258)
[87] (3036258)
[22] 2007-05-16
[62] 2,893,151
[30] US (60/747606) 2006-05-18
[30] US (60/842194) 2006-08-31
[30] US (60/895621) 2007-03-19
[30] US (11/745843) 2007-05-08

[11] **3,036,483**
[13] C
[51] **Int.Cl. A47J 36/16 (2006.01) A23L 5/10 (2016.01) A23L 33/16 (2016.01) A47J 36/02 (2006.01)**
[25] EN
[54] **ELECTROLYTIC IRON COOKING IMPLEMENT**
[54] **USTENSILE DE CUISSON EN FER ELECTROLYTIQUE**
[72] ARMSTRONG, GAVIN, CA
[73] LUCKY IRON FISH, INC., CA
[85] 2019-03-11
[86] 2017-09-12 (PCT/IB2017/055504)
[87] (WO2018/047150)
[30] US (62/393,236) 2016-09-12

[11] **3,037,473**
[13] C
[51] **Int.Cl. A23L 21/25 (2016.01) A23L 21/20 (2016.01) A23L 29/30 (2016.01)**
[25] EN
[54] **HONEY COMPOSITIONS AND METHODS OF MAKING THE SAME**
[54] **COMPOSITIONS A BASE DE MIEL ET LEURS PROCEDES DE FABRICATION**
[72] EISELE, STEVEN, US
[73] EISELE, STEVEN, US
[85] 2019-03-19
[86] 2016-09-23 (PCT/US2016/053320)
[87] (WO2017/053708)
[30] US (62/222,319) 2015-09-23

[11] **3,037,762**
[13] C
[51] **Int.Cl. A61K 31/25 (2006.01) A61K 38/19 (2006.01) A61P 7/00 (2006.01) A61P 39/00 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING LEUKOPENIA AND THROMBOCYTOPENIA**
[54] **PROCEDES DE TRAITEMENT DE LA THROMBOCYTOPENIE ET LA LEUCOPENIE**
[72] HAN, YONG-HAE, KR
[72] CHONG, SAEHO, KR
[72] SOHN, KI-YOUNG, KR
[72] KIM, MYUNG-HWAN, KR
[72] KIM, JAE WHA, KR
[73] ENZYCHEM LIFESCIENCES CORPORATION, KR
[86] (3037762)
[87] (3037762)
[22] 2015-05-15
[62] 2,949,096
[30] US (61/993774) 2014-05-15
[30] US (61/993784) 2014-05-15
[30] US (62/018528) 2014-06-27
[30] US (62/018530) 2014-06-27
[30] US (62/083739) 2014-11-24
[30] US (62/083749) 2014-11-24

[11] **3,037,836**
[13] C
[51] **Int.Cl. A61K 31/427 (2006.01) A61K 31/4745 (2006.01)**
[25] EN
[54] **COMBINED COMPOSITION FOR PREVENTING OR TREATING CANCER COMPRISING A BENZOPHENONE THIAZOLE DERIVATIVES AS A VDA AND TOPOISOMERASE INHIBITOR**
[54] **COMPOSITION COMBINEE POUR LA PREVENTION OU LE TRAITEMENT DU CANCER COMPRENANT DES DERIVES DE BENZOPHENONE THIAZOLE EN TANT QUE VDA ET UN INHIBITEUR DE TOPO-ISOMERASE**
[72] KIM, SOO JIN, KR
[72] KIM, YOUNG SANG, KR
[72] KIM, MINCHAE, KR
[72] PARK, YOUNG-WHAN, KR
[72] KIM, JUNG-YONG, KR
[72] KIM, IN CHULL, KR
[73] CHONG KUN DANG PHARMACEUTICAL CORP., KR
[73] NATIONAL CANCER CENTER, KR
[85] 2019-03-21
[86] 2017-09-08 (PCT/KR2017/009889)
[87] (WO2018/056620)
[30] US (62/400,054) 2016-09-26
[30] US (15/447,247) 2017-03-02

[11] **3,038,495**
[13] C
[51] **Int.Cl. A61K 8/84 (2006.01) A45D 44/00 (2006.01) A45D 44/22 (2006.01) A61K 8/04 (2006.01) A61K 8/67 (2006.01) A61Q 19/08 (2006.01)**
[25] EN
[54] **METHOD FOR PREVENTING OXIDATION OF ANTIOXIDANT MATERIAL USING APTAMER, MATERIAL, AND USE THEREOF**
[54] **PROCEDE DE PREVENTION DE L'OXYDATION D'UN MATERIAU ANTIOXYDANT A L'AIDE D'UN APTAMERE, MATERIAU ET UTILISATION DE CELUI-CI**
[72] SON, IN SIK, KR
[73] NEXMOS CO., LTD., KR
[85] 2019-03-26
[86] 2017-09-27 (PCT/KR2017/010756)
[87] (WO2018/074763)
[30] KR (PCT/KR2016/011740) 2016-10-19

[11] **3,039,179**
[13] C
[51] **Int.Cl. B65D 85/00 (2006.01) B27N 5/00 (2006.01)**
[25] EN
[54] **BIODEGRADABLE FOOD ARTICLES AND METHODS OF PRODUCING SAME**
[54] **ARTICLES ALIMENTAIRES BIODEGRADABLES ET METHODES DE PRODUCTION ASSOCIEES**
[72] AUFOUJAL, MICHEL, CA
[72] GABAY, JAMES, CA
[73] AECOPAQ INC., CA
[86] (3039179)
[87] (3039179)
[22] 2019-04-03
[30] US (62/826,151) 2019-03-29

[11] **3,039,959**
[13] C
[51] **Int.Cl. B08B 9/023 (2006.01)**
[25] EN
[54] **PIPE CONDITIONING TOOL FOR SURFACE TREATMENT OF A PIPE**
[54] **OUTIL DE FINITION POUR TUYAUX**
[72] BAMFORD, BRAD, CA
[73] AUTOMATIC COATING LIMITED, CA
[86] (3039959)
[87] (3039959)
[22] 2012-01-16
[62] 2,764,099
[30] US (61/433,023) 2011-01-14

[11] **3,040,097**
[13] C
[51] **Int.Cl. E04F 15/10 (2006.01) E04C 2/40 (2006.01)**
[25] EN
[54] **PANEL, COVERING AND METHOD FOR INSTALLING SUCH PANELS.**
[54] **PANNEAU, REVETEMENT ET METHODE POUR INSTALLER DE TELS PANNEAUX**
[72] CAPPELLE, MARK, BE
[73] FLOORING INDUSTRIES LIMITED, SARL, LU
[86] (3040097)
[87] (3040097)
[22] 2010-12-09
[62] 2,784,227
[30] EP (09 015 855.1) 2009-12-22
[30] US (61/333.510) 2010-05-11

[11] **3,040,403**
[13] C
[51] **Int.Cl. A61B 3/10 (2006.01) A61B 3/00 (2006.01) A61B 3/12 (2006.01) A61B 3/14 (2006.01)**
[25] EN
[54] **OCT IMAGE PROCESSING**
[54] **TRAITEMENT D'IMAGE OCT**
[72] FLEMING, ALAN DUNCAN, GB
[72] MUYO, GONZALO, GB
[72] VERHOEK, MICHAEL, GB
[73] OPTOS PLC, GB
[86] (3040403)
[87] (3040403)
[22] 2019-04-16
[30] EP (EP 18 171 806.5) 2018-05-11

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[11] **3,040,498**
[13] C
[51] **Int.Cl. A61L 2/23 (2006.01) C11D 3/39 (2006.01) C11D 3/60 (2006.01) C11D 7/18 (2006.01) C11D 7/60 (2006.01) C11D 17/06 (2006.01) A23L 3/34 (2006.01)**
[25] EN
[54] **AMBIENT MOISTURE-ACTIVATED SURFACE TREATMENT POWDER**
[54] **POUDRE DE TRAITEMENT DE SURFACE ACTIVEE PAR L'HUMIDITE AMBIANTE**
[72] WOZNIAK, MARK, US
[72] FU, EDWARD, US
[72] BERGSTROM, CHRIS, US
[73] STERILEX, LLC, US
[85] 2019-04-12
[86] 2017-10-18 (PCT/US2017/057122)
[87] (WO2018/075604)
[30] US (62/409,497) 2016-10-18

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[11] **3,040,894**
[13] C
[51] **Int.Cl. G06F 9/30 (2018.01) G06F 9/312 (2018.01) G06N 20/00 (2019.01)**
[25] EN
[54] **DOUBLE LOAD INSTRUCTION**
[54] **DIRECTIVE DE DOUBLE CHARGE**
[72] ALEXANDER, ALAN GRAHAM, GB
[72] KNOWLES, SIMON CHRISTIAN, GB
[72] GORE, MRUDULA, GB
[73] GRAPHCORE LIMITED, GB
[86] (3040894)
[87] (3040894)
[22] 2019-04-23
[30] GB (1900848.1) 2019-01-22

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[11] **3,041,418**
[13] C
[51] **Int.Cl. A61B 5/16 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DIGITIZED DIGIT SYMBOL SUBSTITUTION TEST**
[54] **SYSTEME ET PROCEDE DE TEST DE SUBSTITUTION DE SYMBOLE NUMERIQUE NUMERISE**
[72] SINHA, ANIRUDDHA, IN
[72] CHATTERJEE, DEBATRI, IN
[72] CHAKRAVARTY, KINGSHUK, IN
[72] GAVAS, RAHUL DASHARATH, IN
[72] DAS, PRATYUSHA, IN
[72] LAHIRI, UTTAMA, IN
[73] TATA CONSULTANCY SERVICES LIMITED, IN
[85] 2019-04-23
[86] 2017-10-18 (PCT/IB2017/056483)
[87] (WO2018/073769)
[30] IN (201621036029) 2016-10-21

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[11] **3,041,557**
[13] C
[51] **Int.Cl. H04L 12/16 (2006.01) G06F 3/14 (2006.01) G06F 17/00 (2019.01)**
[25] EN
[54] **ESTIMATING AND DISPLAYING SOCIAL INTEREST IN TIME-BASED MEDIA**
[54] **ESTIMATION ET AFFICHAGE DE L'INTERET COLLECTIF POUR DES MEDIAS TEMPORELS**
[72] FLEISCHMAN, MICHAEL BEN, US
[72] ROY, DEB KUMAR, US
[73] BLUEFIN LABS, INC., US
[86] (3041557)
[87] (3041557)
[22] 2010-07-16
[62] 2,771,379
[30] US (61/226002) 2009-07-16

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[11] **3,042,155**
[13] C
[51] **Int.Cl. B60M 1/18 (2006.01)**
[25] EN
[54] **SECTION DISCONNECT DEVICE AND USE OF SUCH**
[54] **DISPOSITIF ISOLATEUR DE SECTIONNEMENT ET UTILISATION D'UN TEL DISPOSITIF**
[72] DARRA, DENNIS, CH
[72] GEIGER, SIMON, CH
[72] STAUBLI, ROLF, CH
[73] KUMMLER + MATTER AG, CH
[85] 2019-04-29
[86] 2018-07-10 (PCT/EP2018/068607)
[87] (WO2019/029925)
[30] EP (17185568.7) 2017-08-09

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[11] **3,042,675**
[13] C
[51] **Int.Cl. E21B 34/06 (2006.01) E21B 34/12 (2006.01)**
[25] EN
[54] **ISOLATION VALVE WITH DEBRIS CONTROL AND FLOW TUBE PROTECTION**
[54] **SOUPAPE DE SECTIONNEMENT MUNIE D'UN CONTROLE DES DEBRIS ET D'UNE PROTECTION DU TUBE D'ECOULEMENT**
[72] MCDOWELL, CHRISTOPHER L., US
[72] NOSKE, JOE, US
[72] SMITH, PAUL L., US
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
[86] (3042675)
[87] (3042675)
[22] 2011-07-11
[62] 2,911,221
[30] US (12/845,899) 2010-07-29

[11] **3,043,585**
[13] C
[51] **Int.Cl. C22C 38/40 (2006.01) B21B 1/22 (2006.01) B21B 3/02 (2006.01) B21B 37/74 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/46 (2006.01) C22C 38/48 (2006.01)**
[25] EN
[54] **PRESSURE VESSEL STEEL HAVING EXCELLENT HYDROGEN INDUCED CRACKING RESISTANCE, AND MANUFACTURING METHOD THEREFOR**
[54] **ACIER DE RESEVOIR SOUS PRESSION DOTE D'UNE EXCELLENTE RESISTANCE A LA FISSURATION INDUITE PAR L'HYDROGENE ET PROCEDE DE FABRICATION ASSOCIE**
[72] KIM, DAE-WOO, KR
[72] CHOI, JONG-KYO, KR
[72] JUNG, YOUNG-JIN, KR
[73] POSCO, KR
[85] 2019-05-10
[86] 2017-11-03 (PCT/KR2017/012414)
[87] (WO2018/088761)
[30] KR (10-2016-0150280) 2016-11-11

[11] **3,044,420**
[13] C
[51] **Int.Cl. C11D 3/386 (2006.01)**
[25] EN
[54] **CLEANING COMPOSITIONS INCLUDING ENZYMES**
[54] **COMPOSITIONS DE NETTOYAGE COMPRENANT DES ENZYMES**
[72] LANT, NEIL JOSEPH, GB
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2019-05-17
[86] 2017-11-30 (PCT/US2017/063824)
[87] (WO2018/102479)
[30] EP (16202070.5) 2016-12-02

[11] **3,045,674**
[13] C
[51] **Int.Cl. A61M 16/00 (2006.01) A61F 5/56 (2006.01) A61M 16/10 (2006.01) A61M 16/16 (2006.01)**
[25] EN
[54] **BREATHABLE GAS APPARATUS WITH HUMIDIFIER**
[54] **APPAREIL RESPIRATOIRE POUR INHALATION DE GAZ, MUNI D'UN HUMIDIFICATEUR**
[72] KENYON, BARTON JOHN, AU
[72] YEE, ARTHUR KIN-WAI, AU
[72] PRIMROSE, ROHAN NEIL, AU
[72] SAADA, JIM, AU
[72] SNOW, JOHN MICHEAL, AU
[72] SAPULA, MAREK TOMASZ, AU
[72] CRUMBLIN, GEOFFREY, AU
[72] TREVOR-WILSON, DUNCAN LOVEL, AU
[72] LITHGOW, PERRY DAVID, AU
[72] VIRR, ALEXANDER, AU
[72] RICHMOND, DONALD ANGUS, AU
[72] MURRAY, ANDREW CHARLES, AU
[72] PAYNE, MARK JOHN, AU
[72] JEHA, SIMONE MARIE, AU
[73] RESMED PTY LTD, AU
[86] (3045674)
[87] (3045674)
[22] 2004-06-21
[62] 2,912,125
[30] AU (2003903139) 2003-06-20
[30] AU (2003905136) 2003-09-22
[30] AU (2004901008) 2004-02-27

[11] **3,046,279**
[13] C
[51] **Int.Cl. D06M 15/19 (2006.01)**
[25] EN
[54] **USE OF POLYESTER TEREPHTHALATE TO REDUCE MALODOUR ON FABRICS**
[54] **UTILISATION DU POLYETHYLENE TEREPHTALATE POUR REDUIRE LA MAUVAISE ODEUR DES TISSUS**
[72] MAES, JEF ANNIE ALFONS, BE
[72] DEPOOT, KAREL JOZEF MARIA, BE
[73] THE PROCTER & GAMBLE COMPANY, US
[86] (3046279)
[87] (3046279)
[22] 2019-06-13
[30] EP (18179388.6) 2018-06-22

[11] **3,047,441**
[13] C
[51] **Int.Cl. B41F 17/22 (2006.01) G09F 3/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR PRINTING ON AN OBJECT HAVING A CURVED SURFACE**
[54] **PROCEDE ET APPAREIL POUR IMPRIMER SUR UN OBJET AYANT UNE SURFACE INCURVEE**
[72] SILBERT, ROLF, US
[72] ROSATI, ROBERT, US
[72] BUSE, DAVID, US
[72] TAMMER, OLEV, US
[72] MERTEN, MATTHIAS, US
[73] GEN-PROBE INCORPORATED, US
[86] (3047441)
[87] (3047441)
[22] 2015-10-21
[62] 3,006,133
[30] US (62/066,468) 2014-10-21

[11] **3,048,021**
[13] C
[51] **Int.Cl. F16L 1/038 (2006.01) B29C 63/26 (2006.01) B29C 70/50 (2006.01) B29C 70/68 (2006.01) B29D 23/18 (2006.01) B32B 1/08 (2006.01) B32B 37/10 (2006.01) F16L 1/032 (2006.01) F16L 9/133 (2006.01) F16L 9/14 (2006.01) F16L 11/14 (2006.01) F16L 11/24 (2006.01)**
[25] EN
[54] **CONTINUOUS CONSTRUCTION OF COMPOSITE PIPE**
[54] **CONSTRUCTION CONTINUE DE TUBES COMPOSITES**
[72] GRAHAM, NEIL DERYCK BRAY, AU
[73] LONG PIPES PTY LTD, AU
[86] (3048021)
[87] (3048021)
[22] 2011-10-31
[62] 2,852,945
[30] AU (2010904841) 2010-10-29

[11] **3,050,084**
[13] C
[51] **Int.Cl. E05B 65/10 (2006.01) E05C 19/02 (2006.01) E05C 21/00 (2006.01)**
[25] EN
[54] **QUIET LATCH FOR A LOCKING DEVICE**
[54] **LOQUET SILENCIEUX POUR DISPOSITIF DE VERROUILLAGE**
[72] YALAMATI, BHARGAV, IN
[72] CHETAN, V., IN
[72] SHETTY, SACHIN CHANDRA, IN
[72] YADAV, PRABHAT KUMAR, IN
[73] SCHLAGE LOCK COMPANY LLC, US
[85] 2019-07-12
[86] 2017-11-29 (PCT/US2017/063606)
[87] (WO2018/102351)
[30] US (15/363,180) 2016-11-29

[11] **3,050,261**
[13] C
[51] **Int.Cl. B65H 75/40 (2006.01) B65H 75/42 (2006.01) B65H 75/44 (2006.01) B65H 75/48 (2006.01)**
[25] EN
[54] **EQUIPMENT TETHER**
[54] **CABLE D'ATTACHE D'EQUIPEMENT**
[72] BESSAC, GRANT DENTON, US
[72] HARTZELL, CHARLES, US
[73] FISKARS BRANDS, INC., US
[85] 2019-07-15
[86] 2018-01-22 (PCT/US2018/014702)
[87] (WO2018/140356)
[30] US (62/451,522) 2017-01-27

[11] **3,053,992**
[13] C
[51] **Int.Cl. B65D 1/02 (2006.01)**
[25] EN
[54] **CONTAINER WITH CRUSH RESISTANT SPOUT**
[54] **RECIPIENT DOTE D'UN BEC VERSEUR RESISTANT A L'ECRASEMENT**
[72] PALMER, JOEY, US
[73] ALTIUM PACKAGING LP, US
[85] 2019-08-16
[86] 2018-03-16 (PCT/US2018/022808)
[87] (WO2018/170365)
[30] US (62/472,974) 2017-03-17

[11] **3,054,234**
[13] C
[51] **Int.Cl. B60P 1/64 (2006.01) B60P 1/48 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DETERMINING THE LENGTH OF A DEMOUNTABLE PLATFORM**
[54] **METHODE ET SYSTEME POUR DETERMINER LA LONGUEUR D`UNE PLATEFORME DEMONTABLE**
[72] NYSTROEM, MIKKO, FI
[73] HIAB AB, SE
[86] (3054234)
[87] (3054234)
[22] 2019-09-05
[30] EP (18195702.8) 2018-09-20

[11] **3,054,511**
[13] C
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 35/768 (2015.01) A61P 35/00 (2006.01)**
[25] EN
[54] **CANCER THERAPY WITH A PARVOVIRUS COMBINED WITH BEVACIZUMAB**
[54] **TRAITEMENT DU CANCER AVEC UN PARVOVIRUS COMBINE A DU BEVACIZUMAB**
[72] GELETNEKY, KARSTEN, DE
[72] ROMMELAERE, JEAN, DE
[72] WICK, WOLFGANG, DE
[72] WICK, ANTJE, DE
[72] DAHM, MICHAEL, DE
[73] DEUTSCHES KREBSFORSCHUNGSZENTRUM, DE
[73] RUPRECHT-KARLS-UNIVERSITAT HEIDELBERG, DE
[86] (3054511)
[87] (3054511)
[22] 2016-02-10
[62] 2,971,808
[30] EP (15154629.8) 2015-02-11

[11] **3,054,830**
[13] C
[51] **Int.Cl. A61B 90/60 (2016.01) A47C 9/00 (2006.01) A47C 16/00 (2006.01) A61G 15/10 (2006.01) A61G 15/12 (2006.01)**
[25] EN
[54] **ERGONOMIC BODY POSITIONING SYSTEM**
[54] **SYSTEME ERGONOMIQUE DE POSITIONNEMENT DE CORPS**
[72] NARDO, RICHARD P., US
[72] YRAD, BILLY ODON M., JR., US
[72] WHITWORTH, PETER N., US
[72] MACZUZAK, MICHAEL J., US
[73] AMERICAN STERILIZER COMPANY, US
[85] 2019-08-27
[86] 2018-04-23 (PCT/US2018/028811)
[87] (WO2018/200359)
[30] US (62/489,156) 2017-04-24
[30] US (15/958,139) 2018-04-20

[11] **3,055,064**
[13] C
[51] **Int.Cl. H02M 5/04 (2006.01) H05K 1/16 (2006.01)**
[25] EN
[54] **ELECTRICAL POWER CONVERSION SYSTEM**
[54] **SYSTEME DE CONVERSION DE LA PUISSANCE ELECTRIQUE**
[72] HARBER, MATTHEW, AU
[72] MURRAY, DAVID RUSSELL, AU
[73] SIEMENS AKTIENGESELLSCHAFT, DE
[86] (3055064)
[87] (3055064)
[22] 2019-09-11
[30] EP (18196756.3) 2018-09-26

[11] **3,055,154**
[13] C
[51] **Int.Cl. B29C 70/36 (2006.01) A63B 59/70 (2015.01)**
[25] EN
[54] **METHOD OF FORMING A SPORTING IMPLEMENT**
[54] **METHODE DE FABRICATION D`ARTICLE DE SPORT**
[72] DUCHARME, MATHIEU, CA
[72] CHAMBERT, MARTIN, CA
[72] CARON KARDOS, JEAN-FREDERIK, CA
[73] BAUER HOCKEY LTD., CA
[86] (3055154)
[87] (3055154)
[22] 2019-09-11
[30] US (62/730,232) 2018-09-12

[11] **3,055,339**
[13] C
[51] **Int.Cl. A42B 1/006 (2021.01) A42B 1/00 (2021.01)**
[25] EN
[54] **A REVERSIBLE BEANIE WITH A POM-POM**
[54] **BONNET REVERSIBLE A POMPON**
[72] WARSAW, JOSHUA, US
[72] SUN, YAN, CN
[72] TSAI, CHIA-CHING, CN
[73] SHANGHAI PACIFIC HAT MANUFACTURING CO., LTD, CN
[85] 2019-09-04
[86] 2017-03-07 (PCT/CN2017/075897)
[87] (WO2018/161258)

[11] **3,055,648**
[13] C
[51] **Int.Cl. C23F 15/00 (2006.01) B64F 5/10 (2017.01) B32B 7/025 (2019.01) B32B 7/08 (2019.01) B32B 33/00 (2006.01) B32B 37/14 (2006.01) C09K 3/10 (2006.01) F16B 5/00 (2006.01)**
[25] EN
[54] **HYBRID STRUCTURE AND METHODS FOR FORMING THE SAME**
[54] **STRUCTURE HYBRIDE ET PROCEDES DE FORMATION DE CELLE-CI**
[72] ERICKSON, MARCUS ALEXANDER, US
[73] THE BOEING COMPANY, US
[86] (3055648)
[87] (3055648)
[22] 2014-01-13
[62] 2,839,334
[30] US (13/832,181) 2013-03-15

[11] **3,055,720**
[13] C
[51] **Int.Cl. E21B 47/10 (2012.01) E21B 47/113 (2012.01) E21B 43/26 (2006.01)**
[25] EN
[54] **PREDICTING MATERIAL DISTRIBUTION IN A HYDRAULIC FRACTURING TREATMENT STAGE**
[54] **PREVISION DE LA DISTRIBUTION DE MATERIAU A UNE ETAPE DE TRAITEMENT DE FRACTURATION HYDRAULIQUE**
[72] RAY, BAIDURJA, US
[72] SWAMINATHAN, TIRUMANI N., US
[72] RAZAVI, SEYED OMID, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[86] (3055720)
[87] (3055720)
[22] 2019-09-13
[30] US (16/564,870) 2019-09-09

[11] **3,055,773**
[13] C
[51] **Int.Cl. F16L 23/08 (2006.01) F16B 2/06 (2006.01) F16L 23/00 (2006.01)**
[25] EN
[54] **PIPE CLAMP AND PIPE JOINT WITH SENSOR ACCOMMODATION**
[54] **COLLIER DE SERRAGE DE TUYAU ET RACCORD DE TUYAU AVEC LOGEMENT DE CAPTEUR**
[72] IGNACZAK, BRIAN T., US
[72] GEESE, BRIAN T., US
[72] BAUDOIN, MANUEL, GB
[72] AKREMI, BELAL, GB
[72] JAROSZ, MATEUSZ, GB
[72] RUMBAUSKIENE, TATJANA, GB
[73] NORMA U.S. HOLDING LLC, US
[85] 2019-09-05
[86] 2018-03-07 (PCT/US2018/021393)
[87] (WO2018/165332)
[30] US (62/468,056) 2017-03-07

[11] **3,055,815**
[13] C
[51] **Int.Cl. E04F 11/18 (2006.01) E04F 11/00 (2006.01)**
[25] EN
[54] **ADJUSTABLE GLASS GRIP**
[54] **SYSTEME DE FIXATION REGLABLE D'UNE BALUSTRADE EN VERRE**
[72] RAVAN, ALI, CA
[72] MERCIECA, HENRY, CA
[73] EURO ORNAMENTAL FORGINGS INC., CA
[86] (3055815)
[87] (3055815)
[22] 2019-09-18
[30] US (62/733,392) 2018-09-19

[11] **3,055,862**
[13] C
[51] **Int.Cl. C08L 63/00 (2006.01) B29C 64/141 (2017.01) B29C 64/153 (2017.01) C08G 59/42 (2006.01)**
[25] EN
[54] **USE OF A THERMOSETTING POLYMERIC POWDER COMPOSITION**
[54] **UTILISATION D'UNE COMPOSITION DE POUDRE POLYMERE THERMODURCISSABLE**
[72] NGUYEN, LE-HUONG, AT
[72] HERZHOFF, CARSTEN, AT
[72] BRUSTLE, BERNHARD, AT
[72] BUCHINGER, GERHARD, AT
[73] TIGER COATINGS GMBH & CO. KG, AT
[85] 2019-09-09
[86] 2018-03-13 (PCT/EP2018/056249)
[87] (WO2018/167065)
[30] EP (17160614.8) 2017-03-13

[11] **3,056,587**
[13] C
[51] **Int.Cl. F25J 1/02 (2006.01)**
[25] EN
[54] **ARTIC CASCADE METHOD FOR NATURAL GAS LIQUEFACTION IN A HIGH-PRESSURE CYCLE WITH PRE-COOLING BY ETHANE AND SUB-COOLING BY NITROGEN, AND A PLANT FOR ITS IMPLEMENTATION**
[54] **METHODE DE CASCADE ARCTIQUE POUR LIQUEFACTION DE GAZ NATUREL DANS UN CYCLE HAUTE PRESSION AVEC UN PREREFROIDISSEMENT PAR L'ETHANE ET UN SOUS-REFROIDISSEMENT PAR L'AZOTE, ET UNE PLANTE POUR SA MISE EN OEUVRE**
[72] MINIGULOV, RAFAIL MINIGULOVICH, RU
[72] RUDENKO, SERGEI VLADIMIROVICH, RU
[72] VASIN, OLEG EVGENIEVICH, RU
[72] GRITSISHIN, DMITRY NIKOLAEVICH, RU
[72] SOBOLEV, EVGENY IGOREVICH, RU
[73] PUBLICHNOE AKTSIONERNOE OBSHCHESTVO "NOVATEK", RU
[85] 2019-09-13
[86] 2017-08-10 (PCT/RU2017/000585)
[87] (WO2018/169437)
[30] RU (2017108800) 2017-03-16

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[11] **3,057,201**
[13] C
[51] **Int.Cl. G03G 9/08 (2006.01) B42D 25/36 (2014.01) C08J 3/12 (2006.01) C09K 11/02 (2006.01) C09K 11/78 (2006.01) G07D 7/12 (2016.01)**
[25] EN
[54] **SURFACE ADDITIVE INFRARED TAGGANT TONER**
[54] **TRACEUR A ENCRE EN POUDRE INFRAROUGE ADDITIVE DE SURFACE**
[72] QI, YU, US
[72] JANIS, JACLYN, US
[72] YOUNG, EUGENE F., US
[72] LI, SHIGENG, US
[72] CHENG, CHIEH-MIN, US
[73] XEROX CORPORATION, US
[86] (3057201)
[87] (3057201)
[22] 2019-10-01
[30] US (16/149608) 2018-10-02

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[11] **3,057,633**
[13] C
[51] **Int.Cl. B60R 3/00 (2006.01) B60R 9/06 (2006.01)**
[25] EN
[54] **RECEIVER ADAPTER**
[54] **ADAPTATEUR DE RECEPTEUR**
[72] FULLER, JUSTIN DANIEL, US
[73] N-FAB, INC., US
[86] (3057633)
[87] (3057633)
[22] 2019-10-04
[30] US (62/751,345) 2018-10-26

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[11] **3,057,729**
[13] C
[51] **Int.Cl. H04L 1/00 (2006.01)**
[25] EN
[54] **A COMMUNICATION METHOD AND APPARATUS**
[54] **PROCEDE ET DISPOSITIF DE MISE EN CORRESPONDANCE DE DEBIT DE CODE POLAIRE**
[72] CHEN, YING, CN
[72] ZHANG, GONGZHENG, CN
[72] HUANG, LINGCHEN, CN
[72] LI, RONG, CN
[72] ZHANG, HUAZI, CN
[72] LUO, HEJIA, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-09-24
[86] 2018-03-24 (PCT/CN2018/080393)
[87] (WO2018/171789)
[30] CN (201710184322.X) 2017-03-24
[30] CN (201710374785.2) 2017-05-24

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[11] **3,057,782**
[13] C
[51] **Int.Cl. H01Q 9/26 (2006.01) H01Q 1/38 (2006.01) H01Q 1/50 (2006.01)**
[25] EN
[54] **COMPACT FOLDED DIPOLE ANTENNA WITH MULTIPLE FREQUENCY BANDS**
[54] **ANTENNE DOUBLET PLIEE COMPACTE AYANT DE NOMBREUSES BANDES DE FREQUENCES**
[72] PATTON, DAMON LLOYD, US
[72] AVERY, VICTORIA ALEXIS, US
[73] NEPTUNE TECHNOLOGY GROUP INC., US
[86] (3057782)
[87] (3057782)
[22] 2019-10-03
[30] US (62/749,330) 2018-10-23

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[11] **3,057,910**
[13] C
[51] **Int.Cl. B60P 5/00 (2006.01) B60P 3/00 (2006.01) B62D 33/02 (2006.01) B62D 63/08 (2006.01)**
[25] EN
[54] **AGRICULTURAL TRANSPORT VEHICLE WITH WEIGHING SYSTEM**
[54] **VEHICULE DE TRANSPORT AGRICOLE DISPOSANT D`UN SYSTEME DE PESEE**
[72] LIET, ROBERT JAN, NL
[73] TRIOLIET B.V., NL
[86] (3057910)
[87] (3057910)
[22] 2019-10-08
[30] DE (20 2018 105 801.0) 2018-10-10

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[11] **3,058,015**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12N 15/11 (2006.01)**
[25] EN
[54] **DETECTION REAGENT, DETECTION KIT AND DETECTION METHOD FOR ITGA4 GENE METHYLATION**
[54] **REACTIF DE DETECTION, KIT DE DETECTION ET PROCEDE DE DETECTION DE LA METHYLATION DU GENE ITGA4**
[72] LIU, XIANGLIN, CN
[72] ZOU, HONGZHI, CN
[73] CREATIVE BIOSCIENCES (GUANGZHOU) CO., LTD., CN
[85] 2019-09-26
[86] 2017-12-26 (PCT/CN2017/118563)
[87] (WO2018/188377)
[30] CN (201710236243.9) 2017-04-12

[11] **3,059,288**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/14 (2006.01)**
[25] EN
[54] **NOVEL COLORIMETRIC SENSING METHOD FOR DUAL PATHOGEN**
[54] **NOUVEAU PROCEDE DE DETECTION COLORIMETRIQUE POUR UN AGENT PATHOGENE DOUBLE**
[72] LUO, YUNBO, CN
[72] XU, WENTAO, CN
[72] HUANG, KUNLUN, CN
[72] TIAN, JINGJING, CN
[72] DU, ZAIHUI, CN
[73] CHINA AGRICULTURAL UNIVERSITY, CN
[85] 2019-10-07
[86] 2018-08-08 (PCT/CN2018/099324)
[87] (WO2019/153675)
[30] CN (201810128946.4) 2018-02-08

[11] **3,060,093**
[13] C
[51] **Int.Cl. F21S 4/28 (2016.01) F21V 29/70 (2015.01) F21K 9/00 (2016.01) F21S 4/20 (2016.01) A47G 1/06 (2006.01) F21S 9/02 (2006.01) F21V 25/10 (2006.01) F21V 33/00 (2006.01)**
[25] EN
[54] **LED LIGHT SOURCE**
[54] **SOURCE DE LUMIERE A DEL**
[72] CONRAD, WAYNE ERNEST, CA
[73] OMACHRON INTELLECTUAL PROPERTY INC., CA
[85] 2019-10-16
[86] 2018-04-09 (PCT/CA2018/050434)
[87] (WO2018/191814)
[30] US (15/491,124) 2017-04-19
[30] US (15/491,167) 2017-04-19
[30] US (15/491,199) 2017-04-19
[30] US (15/491,238) 2017-04-19
[30] US (15/491,273) 2017-04-19

[11] **3,060,458**
[13] C
[51] **Int.Cl. H04L 1/18 (2006.01) H04W 28/04 (2009.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR EFFICIENT USAGE OF DAI BITS FOR EIMTA IN LTE**
[54] **PROCEDE ET APPAREIL POUR UTILISATION EFFICACE DE BITS DAI POUR EIMTA DANS LA TECHNOLOGIE LTE**
[72] WEI, CHAO, US
[72] WANG, NENG, US
[72] CHENG, PENG, US
[72] CHEN, WANSHI, US
[72] XU, HAO, US
[72] GAAL, PETER, US
[72] HOU, JILEI, US
[73] QUALCOMM INCORPORATED, US
[86] (3060458)
[87] (3060458)
[22] 2013-11-01
[62] 2,921,618
[30] CN (PCT/CN2013/084339) 2013-09-26

[11] **3,060,690**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6876 (2018.01) C07H 21/00 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **MULTISIGNAL LABELING REAGENTS AND PROCESSES AND USES THEREFOR**
[54] **REACTIFS DE MARQUAGE MULTISIGNAUX, PROCEDES ET UTILISATIONS CORRESPONDANTS**
[72] COLEMAN, JACK, US
[72] RABBANI, ELAZAR, US
[72] PANDE, PRAVEEN, US
[72] STAVRIANOPOULOS, JANNIS, US
[73] ENZO LIFE SCIENCES, INC., US
[86] (3060690)
[87] (3060690)
[22] 2012-02-28
[62] 2,827,754
[30] US (13/065,101) 2011-03-14

[11] **3,060,930**
[13] C
[51] **Int.Cl. G01N 1/00 (2006.01) B82Y 15/00 (2011.01) B81B 1/00 (2006.01) G01N 21/64 (2006.01)**
[25] EN
[54] **INTEGRATED ANALYSIS DEVICES AND RELATED FABRICATION METHODS AND ANALYSIS TECHNIQUES**
[54] **DISPOSITIFS D'ANALYSE INTEGRES ET PROCEDES DE FABRICATION ASSOCIES ET TECHNIQUES D'ANALYSE**
[72] CAO, HAN, US
[72] AUSTIN, MICHAEL D., US
[72] DESHPANDE, PARIKSHIT A., US
[72] KUNKEL, MARK, US
[72] SHARONOV, ALEXEY Y., US
[72] KOCHERSPERGER, MICHAEL, US
[73] BIONANO GENOMICS, INC., US
[86] (3060930)
[87] (3060930)
[22] 2009-06-05
[62] 2,727,095
[30] US (61/059,399) 2008-06-06

[11] **3,060,932**
[13] C
[51] **Int.Cl. E03C 1/12 (2006.01) E03C 1/22 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CONNECTING A TUB DRAIN TO THE MAIN PLUMBING OF A STRUCTURE**
[54] **METHODE ET APPAREIL POUR RACCORDER UN DRAIN DE BAIN A LA PLOMBERIE PRINCIPALE D'UNE STRUCTURE**
[72] YU, XINKUN, CN
[73] UNI-MOULDING INC., US
[86] (3060932)
[87] (3060932)
[22] 2019-11-04
[30] US (62/889,843) 2019-08-21

[11] **3,062,021**
[13] C
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 25/00 (2016.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **CANOLA INBRED G00010**
[54] **CANOLA AUTOGAME G00010**
[72] PATEL, JAYANTILAL DEVABHAI, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[86] (3062021)
[87] (3062021)
[22] 2019-11-19
[30] US (16/662,829) 2019-10-24

[11] **3,062,023**
[13] C
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 25/00 (2016.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **CANOLA INBRED G00555**
[54] **CANOLA AUTOGAME G00555**
[72] MCCLINCHEY, SCOTT, US
[72] PATEL, JAYANTILAL DEVABHAI, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[86] (3062023)
[87] (3062023)
[22] 2019-11-19
[30] US (16/662,849) 2019-10-24

[11] **3,062,219**
[13] C
[51] **Int.Cl. G01N 33/483 (2006.01) C07K 7/06 (2006.01) C07K 7/08 (2006.01) C12P 21/06 (2006.01) C12Q 1/37 (2006.01) G01N 1/28 (2006.01)**
[25] EN
[54] **METHOD OF DETECTING AT LEAST ONE MECHANISM OF RESISTANCE TO CARBAPENEMS BY MASS SPECTROMETRY**
[54] **PROCEDE DE DETECTION D'AU MOINS UN MECANISME DE RESISTANCE AUX CARBAPENEMES PAR SPECTROMETRIE DE MASSE**
[72] CHARRETIER, YANNICK, FR
[72] CHARRIER, JEAN-PHILIPPE, FR
[72] FRANCESCHI, CHRISTINE, FR
[72] ZAMBARDI, GILLES, FR
[72] DEGOUT-CHARMETTE, ELODIE, FR
[72] CECCHINI, TIPHAINE, FR
[73] BIOMERIEUX INC., US
[86] (3062219)
[87] (3062219)
[22] 2012-04-20
[62] 2,833,456
[30] US (61/477,915) 2011-04-21

[11] **3,062,265**
[13] C
[51] **Int.Cl. C07K 5/062 (2006.01) A61K 47/65 (2017.01) A61K 47/68 (2017.01) C07K 5/027 (2006.01) C07K 5/06 (2006.01) C07K 16/00 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING INTERMEDIATE OF ANTIBODY DRUG CONJUGATE**
[54] **PROCEDE DE PREPARATION D'UN INTERMEDIAIRE D'UN CONJUGUE D'ANTICORPS**
[72] HUANG, CHANGJIANG, CN
[72] YE, HUI, CN
[72] YAO, XUEJING, CN
[72] JIE, HAOHUA, CN
[72] ZHAI, SHIZHONG, CN
[72] FANG, JIANMIN, CN
[73] REMEGEN, LTD., CN
[85] 2019-11-20
[86] 2019-05-20 (PCT/CN2019/087641)
[87] (WO2019/223653)
[30] CN (201810487856.4) 2018-05-21

[11] **3,062,864**
[13] C
[51] **Int.Cl. E05F 15/649 (2015.01) E05F 15/614 (2015.01) A47G 29/14 (2006.01) A47J 39/00 (2006.01) E05F 15/00 (2015.01) F24C 15/02 (2006.01)**
[25] EN
[54] **MOTORIZED DOOR ASSEMBLY WITH SAFETY FEATURES FOR HEATED CABINET**
[54] **ENSEMBLE DE PORTES MOTORISEES A CARACTERISTIQUES DE SECURITE POUR ARMOIRE CHAUFFEE**
[72] WHITAKER, CRAIG, US
[72] WEAVER, EDWARD LEONARD, II, US
[72] ZIEKER, SCOTT A., US
[72] WARNER, CHARLES ELDON, US
[72] KNOLLMAN, RONALD G., US
[73] APEX INDUSTRIAL TECHNOLOGIES LLC, US
[85] 2019-11-07
[86] 2018-05-15 (PCT/US2018/032698)
[87] (WO2018/213265)
[30] US (62/506,493) 2017-05-15

[11] **3,063,017**
[13] C
[51] **Int.Cl. A24F 40/20 (2020.01) A24F 40/40 (2020.01) A61M 15/06 (2006.01)**
[25] EN
[54] **FLAVOR SOURCE UNIT AND FLAVOR INHALER**
[54] **UNITE DE SOURCE D'AROME ET INHALATEUR D'AROME**
[72] SHINKAWA, TAKESHI, JP
[72] AKIYAMA, TAKESHI, JP
[73] JAPAN TOBACCO INC., JP
[85] 2019-11-08
[86] 2018-04-26 (PCT/JP2018/016948)
[87] (WO2018/216430)
[30] JP (2017-104173) 2017-05-26

[11] **3,063,469**
[13] C
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 475/00 (2006.01)**
[25] EN
[54] **KRAS G12C INHIBITORS AND METHODS OF USING THE SAME**
[54] **INHIBITEURS DE KRAS G12C ET LEURS PROCEDES D'UTILISATION**
[72] LANMAN, BRIAN ALAN, US
[72] CHEN, JIAN, US
[72] REED, ANTHONY B., US
[72] CEE, VICTOR J., US
[72] LIU, LONGBIN, US
[72] KOPECKY, DAVID JOHN, US
[72] LOPEZ, PATRICIA, US
[72] WURZ, RYAN PAUL, US
[72] NGUYEN, THOMAS T., US
[72] BOOKER, SHON, US
[72] NISHIMURA, NOBUKO, US
[72] SHIN, YOUNGSOOK, US
[72] TAMAYO, NURIA A., US
[72] ALLEN, JOHN GORDON, US
[72] ALLEN, JENNIFER REBECCA, US
[73] AMGEN INC., US
[85] 2019-11-12
[86] 2018-05-21 (PCT/US2018/033714)
[87] (WO2018/217651)
[30] US (62/509,629) 2017-05-22

[11] **3,065,453**
[13] C
[51] **Int.Cl. A61F 7/02 (2006.01) A61F 5/34 (2006.01) A61F 7/08 (2006.01)**
[25] EN
[54] **REINFORCED THERAPEUTIC WRAP AND METHOD**
[54] **ENVELOPPE THERAPEUTIQUE RENFORCEE ET PROCEDE CORRESPONDANT**
[72] LOWE, MARK H., US
[72] BOWMAN, KRISTER, US
[73] COOLSYSTEMS, INC., US
[86] (3065453)
[87] (3065453)
[22] 2011-08-25
[62] 2,822,223
[30] US (12/982,266) 2010-12-30

[11] **3,065,825**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/1455 (2006.01)**
[25] EN
[54] **ANESTHESIA ASSESSMENT SYSTEM AND METHOD FOR LUNG PROTECTIVE VENTILATION**
[54] **SYSTEME D'EVALUATION D'ANESTHESIE ET PROCEDE DE VENTILATION DE PROTECTION PULMONAIRE**
[72] HEINONEN, ERKKI, FI
[72] GORDON BEN-AMI, TALI, US
[72] HAGGBLOM, TOM J., FI
[73] GENERAL ELECTRIC COMPANY, US
[85] 2019-11-29
[86] 2018-05-18 (PCT/US2018/033414)
[87] (WO2018/222415)
[30] US (15/612,109) 2017-06-02

[11] **3,066,125**
[13] C
[51] **Int.Cl. E02F 9/22 (2006.01) F15B 13/00 (2006.01)**
[25] EN
[54] **HYDRAULIC DRIVE DEVICE FOR INDUSTRIAL VEHICLE**
[54] **DISPOSITIF D`ENTRAINEMENT HYDRAULIQUE POUR VEHICULE INDUSTRIEL**
[72] KONDO, EISUKE, JP
[73] KABUSHIKI KAISHA TOYOTA JIDOSHOKKI, JP
[86] (3066125)
[87] (3066125)
[22] 2019-12-23
[30] JP (2018-242906) 2018-12-26

[11] **3,066,148**
[13] C
[51] **Int.Cl. E03C 1/04 (2006.01) B05B 1/22 (2006.01)**
[25] EN
[54] **CANTILEVERED FAUCET SPOUT**
[54] **BEC DE ROBINET EN PORTE-A FAUX**
[72] ROSKO, MICHAEL SCOT, US
[72] EADS, THAD J., US
[73] DELTA FAUCET COMPANY, US
[86] (3066148)
[87] (3066148)
[22] 2019-12-27
[30] US (16/235,563) 2018-12-28

[11] **3,066,461**
[13] C
[51] **Int.Cl. F25D 17/08 (2006.01) F25C 1/00 (2006.01) F25D 23/12 (2006.01)**
[25] EN
[54] **REFRIGERATOR**
[54] **REFRIGERATEUR**
[72] LI, YU, CN
[72] WEI, DEMING, CN
[72] JIA, YING, CN
[72] CHEN, WEI, CN
[72] LIU, DONGXIAN, CN
[72] ZHENG, XUEZAI, CN
[72] REN, WEI, CN
[73] HEFEI MIDEA REFRIGERATOR CO., LTD., CN
[73] HEFEI HUALING CO., LTD., CN
[73] MIDEA GROUP CO., LTD., CN
[85] 2020-06-04
[86] 2018-12-29 (PCT/CN2018/125734)
[87] (WO2020/107634)
[30] CN (2018114360000) 2018-11-28

[11] **3,066,503**
[13] C
[51] **Int.Cl. A61F 2/46 (2006.01) A61B 17/17 (2006.01) A61B 17/72 (2006.01) A61B 17/90 (2006.01) A61F 2/38 (2006.01)**
[25] EN
[54] **PLUG FOR BONE TISSUE**
[54] **BOUCHON POUR TISSU OSSEUX**
[72] BENOIT, BENOIT, CA
[73] 9384-4934 QUEBEC INC., CA
[85] 2019-12-06
[86] 2018-08-02 (PCT/CA2018/050950)
[87] (WO2019/023807)
[30] US (62/540,972) 2017-08-03

[11] **3,066,588**
[13] C
[51] **Int.Cl. A61K 31/232 (2006.01) A61P 9/10 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING AND/OR PREVENTING CARDIOVASCULAR DISEASE**
[54] **COMPOSITIONS ET METHODES POUR LE TRAITEMENT ET/OU LA PREVENTION DE MALADIES CARDIO-VASCULAIRES**
[72] ROWE, JONATHAN, US
[73] AMARIN PHARMACEUTICALS IRELAND LIMITED, US
[86] (3066588)
[87] (3066588)
[22] 2011-03-04
[62] 3,043,081
[30] US (61/310,443) 2010-03-04

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[11] **3,067,185**
[13] C
[51] **Int.Cl. B23K 35/02 (2006.01) B23K 9/12 (2006.01) B23K 9/173 (2006.01) B23K 35/30 (2006.01)**
[25] EN
[54] **ARC WELDING METHOD AND SOLID WIRE**
[54] **PROCEDE DE SOUDAGE A L'ARC ET FIL MASSIF**
[72] KINASHI, HIKARU, JP
[72] YOKOTA, YASUYUKI, JP
[72] SATO, KOJI, JP
[73] KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.), JP
[85] 2019-12-12
[86] 2018-06-13 (PCT/JP2018/022643)
[87] (WO2018/230619)
[30] JP (2017-118766) 2017-06-16

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[11] **3,067,283**
[13] C
[51] **Int.Cl. B21B 37/76 (2006.01)**
[25] EN
[54] **METHOD AND ELECTRONIC DEVICE FOR DETERMINING THE TEMPERATURE OF A METAL STRIP, RELATED CONTROL METHOD, COMPUTER PROGRAM, CONTROL APPARATUS AND HOT ROLLING INSTALLATION**
[54] **PROCEDE ET DISPOSITIF ELECTRONIQUE POUR DETERMINER LA TEMPERATURE D'UNE BANDE METALLIQUE, PROCEDE DE COMMANDE ASSOCIE, PROGRAMME INFORMATIQUE, APPAREIL DE COMMANDE ET INSTALLATION DE LAMINAGE A CHAUD**
[72] JACOLOT, RONAN, FR
[72] HUIN, DIDIER, FR
[72] MORETTO, CHRISTIAN, FR
[72] CORSELLO, DANIELE, FR
[73] ARCELORMITTAL, LU
[85] 2019-12-13
[86] 2017-06-26 (PCT/IB2017/053804)
[87] (WO2019/002910)

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[11] **3,067,334**
[13] C
[51] **Int.Cl. G01D 3/032 (2006.01) G01F 1/84 (2006.01)**
[25] EN
[54] **FREQUENCY SPACINGS TO PREVENT INTERMODULATION DISTORTION SIGNAL INTERFERENCE**
[54] **ESPACEMENTS DE FREQUENCE POUR EMPECHER UNE INTERFERENCE DE SIGNAL DE DISTORSION D'INTERMODULATION**
[72] RENSING, MATTHEW JOSEPH, US
[72] CUNNINGHAM, TIMOTHY J., US
[73] MICRO MOTION, INC., US
[85] 2019-12-13
[86] 2017-06-14 (PCT/US2017/037530)
[87] (WO2018/231229)

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[11] **3,068,112**
[13] C
[51] **Int.Cl. F17D 3/00 (2006.01) B08B 9/04 (2006.01) B08B 13/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR IN-LINE CHARGING OF A PIPELINE TOOL**
[54] **APPAREIL ET PROCEDE POUR CHARGEMENT EN LIGNE D'UN OUTIL DE PIPELINE**
[72] COMELLO, CORRY, CA
[72] LAURSEN, PAUL, CA
[72] SPEERS, DARYL, CA
[72] TAYLOR, PETER, CA
[73] INVODANE ENGINEERING LTD., CA
[86] (3068112)
[87] (3068112)
[22] 2014-03-12
[62] 2,904,228
[30] US (13/829,247) 2013-03-14

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[11] **3,068,499**
[13] C
[51] **Int.Cl. E21B 1/00 (2006.01) F15B 11/16 (2006.01)**
[25] EN
[54] **ADVANCE AND RETREAT AUTOMATIC CONTROL METHOD BASED ON HYDRAULIC SENSING CONVERSION AND ADVANCE AND RETREAT AUTOMATIC CONTROL SYSTEM BASED ON HYDRAULIC SENSING CONVERSION**
[54] **PROCEDE ET SYSTEME DE COMMANDE AUTOMATIQUE D'AVANCEMENT ET DE RECUL BASES SUR UNE CONVERSION DE DETECTION HYDRAULIQUE**
[72] LIU, SUHUA, CN
[73] LIU, SUHUA, CN
[85] 2019-12-24
[86] 2018-06-26 (PCT/CN2018/092753)
[87] (WO2019/001401)
[30] CN (201710496732.8) 2017-06-26
[30] CN (201710602610.2) 2017-07-21
[30] CN (201711080652.0) 2017-11-06

[11] **3,068,601**
[13] C
[51] **Int.Cl. H01M 4/96 (2006.01) H01M 4/86 (2006.01) H01M 4/88 (2006.01) H01M 8/10 (2016.01)**
[25] EN
[54] **SUPPORT FOR POLYMER ELECTROLYTE FUEL CELL CATALYST, METHOD OF PRODUCING SUPPORT FOR POLYMER ELECTROLYTE FUEL CELL CATALYST, CATALYST LAYER FOR POLYMER ELECTROLYTE FUEL CELL, AND FUEL CELL**
[54] **SUPPORT DE CATALYSEUR DE PILE A COMBUSTIBLE DU TYPE POLYMERE SOLIDE, PROCEDE DE FABRICATION DE SUPPORT DE CATALYSEUR DE PILE A COMBUSTIBLE DU TYPE POLYMERE SOLIDE, COUCHE DE CATAL YSEUR POUR PILE A COMBUSTIBLE DU TYPE POLYMERE SOLIDE ET PILE A COMBUSTIBLE**
[72] IIJIMA, TAKASHI, JP
[72] TADOKORO, KENICHIRO, JP
[72] HIYOSHI, MASATAKA, JP
[72] FURUKAWA, SHINYA, JP
[72] KOMURA, TOMOKO, JP
[72] MIZUUCHI, KAZUHIKO, JP
[73] NIPPON STEEL CHEMICAL & MATERIAL CO., LTD., JP
[85] 2019-12-27
[86] 2018-06-29 (PCT/JP2018/024965)
[87] (WO2019/004472)
[30] JP (2017-127399) 2017-06-29

[11] **3,069,077**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6809 (2018.01) G16B 20/10 (2019.01) G16B 30/00 (2019.01)**
[25] EN
[54] **NONINVASIVE DIAGNOSIS OF FETAL ANEUPLOIDY BY SEQUENCING**
[54] **DIAGNOSTIC NON EFFRACTIF D'ANEUPLOIDIE FOETALE PAR SEQUENCAGE**
[72] FAN, HEI-MUN, US
[72] QUAKE, STEPHEN R., US
[73] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[86] (3069077)
[87] (3069077)
[22] 2009-09-16
[62] 2,737,643
[30] US (61/098,758) 2008-09-20

[11] **3,069,082**
[13] C
[51] **Int.Cl. C12Q 1/6809 (2018.01) G16B 20/10 (2019.01) G16B 30/00 (2019.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **NONINVASIVE DIAGNOSIS OF FETAL ANEUPLOIDY BY SEQUENCING**
[54] **DIAGNOSTIC NON EFFRACTIF D'ANEUPLOIDIE FOETALE PAR SEQUENCAGE**
[72] FAN, HEI-MUN, US
[72] QUAKE, STEPHEN R., US
[73] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[86] (3069082)
[87] (3069082)
[22] 2009-09-16
[62] 2,737,643
[30] US (61/098,758) 2008-09-20

[11] **3,069,083**
[13] C
[51] **Int.Cl. F16B 13/06 (2006.01) E02D 5/74 (2006.01) E04B 1/48 (2006.01) E21D 21/00 (2006.01)**
[25] EN
[54] **EXPANSION ANCHOR**
[54] **ANCRAGE EXPANSIBLE**
[72] SCHAEFFER, MARC, CH
[73] HILTI AKTIENGESELLSCHAFT, LI
[86] (3069083)
[87] (3069083)
[22] 2014-09-02
[62] 2,923,044
[30] EP (13184592.7) 2013-09-16

[11] **3,069,383**
[13] C
[51] **Int.Cl. B07B 1/46 (2006.01) B22D 19/04 (2006.01) B22D 19/08 (2006.01) E21B 21/06 (2006.01)**
[25] EN
[54] **SCREEN SEGMENT HAVING A WEAR PROTECTION AND METHOD FOR PRODUCING A SCREEN SEGMENT**
[54] **SEGMENT DE CRIBLE MUNI D'UNE PROTECTION CONTRE L'USURE ET PROCEDE DE FABRICATION D'UN SEGMENT DE CRIBLE**
[72] IRMAK, BARIS, DE
[72] TIGGES, MARC, DE
[72] EVERMANN, DANIEL, DE
[73] THYSSENKRUPP INDUSTRIAL SOLUTIONS AG, DE
[73] THYSSENKRUPP AG, DE
[85] 2020-01-08
[86] 2018-07-11 (PCT/EP2018/068739)
[87] (WO2019/011962)
[30] DE (10 2017 211 948.9) 2017-07-12

[11] **3,070,066**
[13] C
[51] **Int.Cl. A47C 27/06 (2006.01) A47C 27/15 (2006.01)**
[25] EN
[54] **MATTRESSES INCLUDING SPACER FABRIC AND RELATED METHODS**
[54] **MATELAS COMPRENANT UN TISSU D'ESPACEMENT ET PROCEDES ASSOCIES**
[72] MOON, SHAWN DAVID, US
[72] HAMILTON, LARS CHRISTEN, US
[72] WHEADON, TANNER RICK, US
[73] PURPLE INNOVATION, LLC, US
[85] 2020-01-15
[86] 2018-07-16 (PCT/US2018/042331)
[87] (WO2019/022987)
[30] US (15/662,934) 2017-07-28

[11] **3,070,173**
[13] C
[51] **Int.Cl. B01D 27/08 (2006.01)**
[25] EN
[54] **FILTER UNIT WITH OFFSET ENGAGEMENT PROTRUSION**
[54] **ENSEMBLE DE FILTRATION AYANT UNE PARTIE SAILLANTE D'ENGAGEMENT DECALEE**
[72] KRUCKENBERG, CHRISTOPHER A., US
[72] MORRISON, JOHN W., US
[72] SPINDLER, JEFFREY A., US
[73] WHIRLPOOL CORPORATION, US
[86] (3070173)
[87] (3070173)
[22] 2012-09-06
[62] 2,788,798
[30] US (13/233,410) 2011-09-15

[11] **3,070,174**
[13] C
[51] **Int.Cl. B01F 35/80 (2022.01) B01F 25/42 (2022.01) B01F 35/71 (2022.01)**
[25] EN
[54] **MIXER WITH A COMPENSATION CHANNEL AND/OR RESERVOIR CHAMBER**
[54] **MELANGEUR AVEC CONDUIT DE COMPENSATION ET/OU CHAMBRE DE STOCKAGE**
[72] BUBLEWITZ, ALEXANDER, DE
[72] REBER, JENS-PETER, DE
[73] 3LMED GMBH, DE
[85] 2020-01-16
[86] 2018-07-26 (PCT/EP2018/070344)
[87] (WO2019/020768)
[30] DE (10 2017 117 199.1) 2017-07-28
[30] DE (10 2017 117 198.3) 2017-07-28

[11] **3,070,244**
[13] C
[51] **Int.Cl. B01D 27/02 (2006.01) B01D 39/20 (2006.01) B01J 20/20 (2006.01) C02F 1/00 (2006.01) C02F 3/20 (2006.01)**
[25] EN
[54] **APPARATUS FOR FILTERING WATER**
[54] **APPAREIL DE FILTRATION D'EAU**
[72] DEANGELO, REGINA, US
[72] KEELEY, WILLIAM SCOTT, US
[73] DEANGELO, REGINA, US
[73] KEELEY, WILLIAM SCOTT, US
[85] 2020-01-16
[86] 2018-07-24 (PCT/US2018/043504)
[87] (WO2019/023242)
[30] US (62/536,758) 2017-07-25

[11] **3,070,269**
[13] C
[51] **Int.Cl. G01N 21/47 (2006.01) A61B 5/00 (2006.01) G01N 21/64 (2006.01) G02B 26/10 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR RAPID WIDE FIELD ILLUMINATION SCANNING FOR IN VIVO SMALL ANIMAL FLUORESCENCE TOMOGRAPHIC IMAGING**
[54] **SYSTEMES ET PROCEDES DE BALAYAGE RAPIDE A ECLAIRAGE DANS UN LARGE CHAMP POUR IMAGERIE TOMOGRAPHIQUE PAR FLUORESCENCE IN VIVO DE PETIT ANIMAL**
[72] HURLEY, WILLIAM, US
[72] BEHROOZ, ALI, US
[72] MELTZER, MICHAEL, US
[72] WILSON, ANDREW, US
[73] PERKINELMER HEALTH SCIENCES, INC., US
[85] 2020-01-16
[86] 2018-07-18 (PCT/US2018/042723)
[87] (WO2019/018547)
[30] US (15/654,442) 2017-07-19

[11] **3,070,406**
[13] C
[51] **Int.Cl. B24B 39/02 (2006.01)**
[25] EN
[54] **PLANETARY REFORM ROLLER AND METHOD OF REFORMING A VESSEL CAVITY**
[54] **ROULEAU DE REFORMAGE PLANETAIRE ET PROCEDE DE REFORMAGE D'UNE CAVITE DE CUVE**
[72] JOHNSON, GREG, US
[72] GOLESTANEH, KAVEH, US
[73] TITANIUM METALS CORPORATION, US
[85] 2020-01-17
[86] 2018-07-17 (PCT/US2018/042432)
[87] (WO2019/018360)
[30] US (62/533,570) 2017-07-17

[11] **3,071,357**
[13] C
[51] **Int.Cl. C03B 35/20 (2006.01) C03B 23/03 (2006.01) C03B 23/035 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR BENDING PANES**
[54] **PROCEDE ET DISPOSITIF POUR CINTRER DES VITRES**
[72] PALMANTIER, ARTHUR, DE
[72] BRIS, JEAN JACQUES, FR
[72] PENNERS, JACK, DE
[72] ZEICHNER, ACHIM, DE
[72] KAHLEN, WERNER, DE
[73] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2020-01-28
[86] 2018-06-22 (PCT/EP2018/066744)
[87] (WO2019/025078)
[30] EP (17183928.5) 2017-07-31

[11] **3,072,011**
[13] C
[51] **Int.Cl. H02P 6/10 (2016.01) H02P 6/17 (2016.01) H02P 6/185 (2016.01) H02P 25/089 (2016.01) H02P 25/092 (2016.01) H02P 25/098 (2016.01) H02P 6/14 (2016.01) H02P 6/16 (2016.01) H02P 6/18 (2016.01) H02P 6/20 (2016.01) H02P 8/12 (2006.01) H02P 8/34 (2006.01)**
[25] EN
[54] **MANUFACTURING-SENSITIVE CONTROL OF HIGH ROTOR POLE SWITCHED RELUCTANCE MOTORS**
[54] **COMMANDE SENSIBLE A LA FABRICATION DE MOTEURS A RELUCTANCE COMMUTEE A POLE DE ROTOR ELEVE**
[72] KRISHNAMURTHY, MAHESH, US
[72] CREARY, TREVOR, US
[72] KNODEL, TIM, US
[73] TURNTIDE TECHNOLOGIES INC., US
[85] 2020-02-03
[86] 2018-03-31 (PCT/US2018/025609)
[87] (WO2019/190569)

[11] **3,072,327**
[13] C
[51] **Int.Cl. A23L 27/30 (2016.01) A23L 27/00 (2016.01) A23L 29/00 (2016.01) A23L 29/10 (2016.01) A23L 2/60 (2006.01)**
[25] EN
[54] **SWEETENER COMPOSITION AND METHODS OF MAKING IT**
[54] **COMPOSITION D'EDULCORANT ET SES PROCEDES DE PRODUCTION**
[72] SAHI, CARL R., US
[72] POLIDORO, JOHN M., US
[72] KETNER, MARK ENNIS, US
[72] DEVANGA CHINTA, DAKSHINAMURTHY, US
[73] EBIO NUTRITIONAL SCIENCES LLC, US
[85] 2020-02-06
[86] 2018-08-08 (PCT/US2018/045770)
[87] (WO2019/032678)
[30] US (62/542,524) 2017-08-08

[11] **3,072,488**
[13] C
[51] **Int.Cl. A61G 13/12 (2006.01) B60N 2/80 (2018.01) A61F 5/37 (2006.01) A61G 13/00 (2006.01)**
[25] EN
[54] **PRESSURE MANAGEMENT WARMING HEADREST**
[54] **APPUIE-TETE CHAUFFANT A GESTION DE PRESSION**
[72] NARDO, RICHARD P., US
[72] MOSS, ANDREW, US
[73] AMERICAN STERILIZER COMPANY, US
[85] 2020-02-07
[86] 2018-08-06 (PCT/US2018/045310)
[87] (WO2019/032420)
[30] US (16/054,005) 2018-08-03
[30] US (62/542,964) 2017-08-09

[11] **3,072,532**
[13] C
[51] **Int.Cl. G02C 7/04 (2006.01) G02C 7/08 (2006.01) G02F 1/1333 (2006.01) G02F 1/1339 (2006.01)**
[25] EN
[54] **FLEXIBLE LIQUID CRYSTAL CELLS AND LENSES**
[54] **CELLULES ET LENTILLES A CRISTAUX LIQUIDES FLEXIBLES**
[72] LIN, YI-HSIN, TW
[72] CHEN, MING-SYUAN, TW
[72] WANG, YU-JEN, TW
[73] COOPERVISION INTERNATIONAL LIMITED, GB
[85] 2020-02-10
[86] 2018-07-30 (PCT/GB2018/052152)
[87] (WO2019/030491)
[30] US (62/544,543) 2017-08-11

[11] **3,072,704**
[13] C
[51] **Int.Cl. A61B 17/90 (2006.01) A61B 17/16 (2006.01) A61B 17/17 (2006.01) A61F 2/40 (2006.01) A61F 2/46 (2006.01)**
[25] EN
[54] **GLENOID IMPLANT SURGERY USING PATIENT SPECIFIC INSTRUMENTATION**
[54] **CHIRURGIE D'IMPLANTATION GLENOIDE UTILISANT UNE INSTRUMENTATION SPECIFIQUE AU PATIENT**
[72] COUTURE, PIERRE, CA
[72] MERETTE, JEAN-SEBASTIEN, CA
[72] RICHARD, ALAIN, CA
[72] ABIVEN, JEAN-GUILLAUME, CA
[72] GOURGON, THOMAS, CA
[73] ORTHOSOFT ULC, CA
[86] (3072704)
[87] (3072704)
[22] 2013-03-28
[62] 2,866,395
[30] US (61/616,623) 2012-03-28
[30] US (61/659,272) 2012-06-13
[30] US (61/675,955) 2012-07-26

[11] **3,072,716**
[13] C
[51] **Int.Cl. A61B 17/88 (2006.01) A61B 17/17 (2006.01) A61B 17/90 (2006.01) A61F 2/40 (2006.01) A61F 2/46 (2006.01)**
[25] EN
[54] **GLENOID IMPLANT SURGERY USING PATIENT SPECIFIC INSTRUMENTATION**
[54] **CHIRURGIE D'IMPLANTATION GLENOIDE UTILISANT UNE INSTRUMENTATION SPECIFIQUE AU PATIENT**
[72] COUTURE, PIERRE, CA
[72] MERETTE, JEAN-SEBASTIEN, CA
[72] RICHARD, ALAIN, CA
[72] ABIVEN, JEAN-GUILLAUME, CA
[72] GOURGON, THOMAS, CA
[73] ORTHOSOFT ULC, CA
[86] (3072716)
[87] (3072716)
[22] 2013-03-28
[62] 2,866,395
[30] US (61/616,623) 2012-03-28
[30] US (61/659,272) 2012-06-13
[30] US (61/675,955) 2012-07-26

[11] **3,074,424**
[13] C
[51] **Int.Cl. C08G 18/42 (2006.01) C08G 18/66 (2006.01) C08G 63/16 (2006.01) C09J 175/04 (2006.01) C09J 175/06 (2006.01)**
[25] EN
[54] **URETHANE ACRYLATE HYBRID STRUCTURE ADHESIVES**
[54] **ADHESIFS A STRUCTURE HYBRIDE URETHANE-ACRYLATE**
[72] CHEN, JIANXIA, US
[73] ASHLAND LICENSING AND INTELLECTUAL PROPERTY LLC, US
[85] 2020-02-28
[86] 2018-08-27 (PCT/US2018/048165)
[87] (WO2019/046200)
[30] US (62/552,436) 2017-08-31

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[11] **3,074,767**
[13] C
[51] **Int.Cl. D04H 1/42 (2012.01) D04H 1/4234 (2012.01) D04H 3/005 (2012.01) H05K 9/00 (2006.01)**
[25] EN
[54] **NONWOVEN FABRIC FOR SHIELDING TERAHERTZ FREQUENCIES**
[54] **NON-TISSE DESTINE AU BLINDAGE DE FREQUENCES TERAHERTZ**
[72] VAN HATTUM, EDGAR-JOHANNES, DE
[73] SZE SPEZIAL ELEKTRONIK HAGENUK GMBH, DE
[85] 2020-03-04
[86] 2017-09-08 (PCT/EP2017/072634)
[87] (WO2019/048056)

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[11] **3,074,911**
[13] C
[51] **Int.Cl. F16J 12/00 (2006.01) A23L 3/015 (2006.01) F04B 43/08 (2006.01) F16J 13/00 (2006.01)**
[25] EN
[54] **PLUG, MACHINE AND METHOD FOR HIGH-PRESSURE PROCESSING**
[54] **BOUCHON, MACHINE ET PROCEDE POUR TRAITEMENT SOUS HAUTES PRESSIONS**
[72] LOPEZ ONDEVILLA, RAUL, ES
[72] GARCIA REIZABAL, RUBEN, ES
[72] TARRAGO MINGO, SANTIAGO, ES
[72] HERNANDO SAIZ, ANDRES FELIPE, ES
[72] BURGGRAAF, WOUTER NICOLAAS ANDRIES, ES
[73] HIPERBARIC, S.A., ES
[85] 2020-03-05
[86] 2017-09-07 (PCT/ES2017/070600)
[87] (WO2019/048716)

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[11] **3,075,556**
[13] C
[51] **Int.Cl. B60P 7/02 (2006.01) B62D 33/04 (2006.01)**
[25] EN
[54] **TONNEAU COVER SYSTEM FOR A CARGO BED OF A VEHICLE**
[54] **SYSTEME DE COUVRE-TONNEAU DESTINE A UNE PLATEFORME DE CHARGEMENT D'UN VEHICULE**
[72] WILLIAMSON, SCOTT, US
[72] KOSINSKI, DAVID, US
[72] YANG, MICHAEL, US
[72] YAN, XICHANG, CN
[72] TONG, JIANFENG, CN
[72] WEI, CHENGPING, CN
[72] SMITH, RONALD BRIAN, US
[72] BURGER, DANIEL DAVID, US
[72] MAYS, JAMES, US
[73] RUGGED LINER, INC., US
[73] BEYOND INDUSTRIES (NANJING) LIMITED, CN
[86] (3075556)
[87] (3075556)
[22] 2017-04-25
[62] 2,991,735
[30] CN (201620796716.1) 2016-07-27
[30] CN (201610597765.7) 2016-07-27
[30] US (62/414,384) 2016-10-28
[30] CN (201621215371.2) 2016-11-11

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[11] **3,075,726**
[13] C
[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/01 (2006.01) A61M 25/06 (2006.01) A61M 39/00 (2006.01) A61M 39/10 (2006.01) A61M 39/12 (2006.01) A61M 39/16 (2006.01) F16L 35/00 (2006.01)**
[25] EN
[54] **PERIPHERAL INTRAVENOUS CATHETERS HAVING FLOW DIVERTING FEATURES**
[54] **CATHETERS INTRAVEINEUX PERIPHERIQUES COMPORTANT DES ELEMENTS DE DEVIATION D'ECOULEMENT**
[72] BIHLMAIER, BRYAN, US
[72] BURKHOLZ, JONATHAN KARL, US
[72] WANG, BIN, US
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2020-03-12
[86] 2018-09-06 (PCT/US2018/049725)
[87] (WO2019/067176)
[30] US (15/716,812) 2017-09-27

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[11] **3,077,712**
[13] C
[51] **Int.Cl. B01D 67/00 (2006.01)**
[25] EN
[54] **RADIAL-PATH FILTER ELEMENTS, SYSTEMS AND METHODS OF USING SAME**
[54] **ELEMENTS FILTRANTS A TRAJET RADIAL, SYSTEMES ET PROCEDES D'UTILISATION E CES DERNIERS**
[72] STEEN, JONATHAN, US
[73] EMD MILLIPORE CORPORATION, US
[86] (3077712)
[87] (3077712)
[22] 2017-05-26
[62] 3,023,486
[30] US (62/347,780) 2016-06-09

[11] **3,081,085**
[13] C
[51] **Int.Cl. C08L 101/04 (2006.01) C08J 3/075 (2006.01) C08J 3/24 (2006.01) C08K 3/00 (2018.01)**
[25] EN
[54] **FLUORINATED POLYMERIZABLE HYDROGELS FOR WOUND DRESSINGS AND METHODS OF MAKING SAME**
[54] **HYDROGELS FLUORES POLYMERISABLES POUR PANSEMENTS POUR PLAIES ET LEURS PROCEDES DE PRODUCTION**
[72] LEIPZIG, NIC, US
[72] WIJEKOON, ASANKA, US
[73] THE UNIVERSITY OF AKRON, US
[86] (3081085)
[87] (3081085)
[22] 2013-01-25
[62] 2,862,531
[30] US (61/590,379) 2012-01-25

[11] **3,081,263**
[13] C
[51] **Int.Cl. G01N 21/90 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR OPTICAL DETECTION OF BIO-CONTAMINANTS WITHIN A LUMEN**
[54] **PROCEDE ET APPAREIL DE DETECTION OPTIQUE DE BIOCONTAMINANTS DANS UNE LUMIERE**
[72] BARIBEAU, FRANCOIS, CA
[73] STERIS, INC., US
[73] INSTITUT NATIONAL D'OPTIQUE / NATIONAL OPTICS INSTITUTE, CA
[85] 2020-04-30
[86] 2018-05-30 (PCT/US2018/034999)
[87] (WO2019/089083)
[30] US (15/802,505) 2017-11-03

[11] **3,081,382**
[13] C
[51] **Int.Cl. H02S 20/10 (2014.01) H02S 20/30 (2014.01) H02S 30/10 (2014.01)**
[25] EN
[54] **SOLAR PANEL GROUND MOUNT SYSTEM AND METHOD OF INSTALLING AND CHANGING TILT ANGLE OF RACK ASSEMBLY THEREOF**
[54] **SYSTEME DE MONTAGE TERRESTRE DE PANNEAUX SOLAIRES ET METHODE POUR INSTALLER ET CHANGER L`ANGLE D'INCLINAISON D`UN ENSEMBLE DE RATELIER CONNEXE**
[72] PIQUE, PAULO ERIC, CA
[72] STOTZ, NICHOLE DAWN, CA
[73] SUNDIAL ENERGY GROUP CORP., CA
[86] (3081382)
[87] (3081382)
[22] 2020-05-26

[11] **3,083,921**
[13] C
[51] **Int.Cl. B60R 11/06 (2006.01) A45C 13/02 (2006.01) B25H 3/02 (2006.01)**
[25] EN
[54] **MAGNETIC POUCH ASSEMBLY**
[54] **ASSEMBLAGE DE POCHE MAGNETIQUE**
[72] SCHROEDER, TIMOTHY PAUL, US
[72] SPECTOR, YUVAL, US
[72] BAR-EREZ, EYAL, US
[73] FERNO-WASHINGTON, INC., US
[73] SHELL-CASE, LTD., IL
[86] (3083921)
[87] (3083921)
[22] 2014-08-08
[62] 3,073,768
[30] US (62/026,520) 2014-07-18

[11] **3,086,624**
[13] C
[51] **Int.Cl. H02K 41/03 (2006.01) H02K 11/215 (2016.01) H02K 11/33 (2016.01)**
[25] EN
[54] **STATOR MODULE**
[54] **MODULE DE STATOR**
[72] PRUESSMEIER, UWE, DE
[72] BENTFELD, LUKAS, DE
[72] BRINKMANN, ROLF, DE
[72] NEUFELD, JOERG, DE
[73] BECKHOFF AUTOMATION GMBH, DE
[85] 2020-06-22
[86] 2018-12-19 (PCT/EP2018/085787)
[87] (WO2019/129566)
[30] DE (10 2017 131 314.1) 2017-12-27

[11] **3,087,957**
[13] C
[51] **Int.Cl. G10L 21/0388 (2013.01) G10L 19/022 (2013.01)**
[25] EN
[54] **PROCESSING OF AUDIO SIGNALS DURING HIGH FREQUENCY RECONSTRUCTION**
[54] **TRAITEMENT DE SIGNAUX AUDIO PENDANT LA RECONSTRUCTION A HAUTE FREQUENCE**
[72] KJOERLING, KRISTOFER, SE
[73] DOLBY INTERNATIONAL AB, NL
[86] (3087957)
[87] (3087957)
[22] 2011-07-14
[62] 3,072,785
[30] US (61/365518) 2010-07-19
[30] US (61/386725) 2010-09-27

[11] **3,088,678**
[13] C
[51] **Int.Cl. G02C 5/00 (2006.01) G02C 5/14 (2006.01)**
[25] EN
[54] **MAGNETIC ATTACHMENT MECHANISM FOR EYEWEAR**
[54] **MECANISME DE FIXATION MAGNETIQUE DESTINE A DES ARTICLES DE LUNETTERIE**
[72] THORSELL, ERIC, US
[72] CAPOZZI, MATT, US
[72] RAMIREZ, NICOLAS, US
[72] QUALLS, MICHAEL, US
[72] LAYTON, SCOTT, US
[72] NEMOTO, SEAN, US
[72] CHILSON, JAMES ANDREW, US
[73] SMITH OPTICS, INC., US
[86] (3088678)
[87] (3088678)
[22] 2018-02-27
[62] 2,996,756
[30] US (15/449,616) 2017-03-03

[11] **3,089,528**
[13] C
[51] **Int.Cl. C08L 33/12 (2006.01)**
[25] EN
[54] **LIGHT SCATTERING POLYMERIC COMPOSITION WITH IMPROVED SCATTERING EFFICIENCY AND IMPROVED MECHANICAL PROPERTIES**
[54] **COMPOSITION POLYMERE DE DIFFUSION DE LUMIERE AYANT UNE EFFICACITE DE DIFFUSION AMELIOREE ET DES PROPRIETES MECANIQUES AMELIOREES**
[72] KOGLER, RENE, DE
[72] PASIERB, MICHAEL, US
[72] SPAIN, CHRISTOPHER, US
[72] GOLCHERT, URSULA, DE
[72] RICHTER, RALF, DE
[72] BECKER, ERNST, DE
[72] NAU, STEFAN, DE
[73] ROHM GMBH, DE
[73] ROEHM AMERICA LLC, US
[85] 2020-07-24
[86] 2019-01-31 (PCT/EP2019/052325)
[87] (WO2019/149799)
[30] US (62/626,618) 2018-02-05
[30] EP (18159341.9) 2018-03-01

[11] **3,090,523**
[13] C
[51] **Int.Cl. G06F 21/16 (2013.01) G06F 21/60 (2013.01) G06T 1/00 (2006.01)**
[25] EN
[54] **MASKED WATERMARKS AND RELATED SYSTEMS AND TECHNIQUES**
[54] **FILIGRANES MASQUES ET SYSTEMES ET TECHNIQUES CONNEXES**
[72] ZHOU, FUPING, CN
[72] LIU, YEPING, CN
[73] CITRIX SYSTEMS, INC., US
[85] 2020-08-19
[86] 2019-08-20 (PCT/CN2019/101539)
[87] (WO2020/206897)

[11] **3,093,399**
[13] C
[51] **Int.Cl. C10M 115/02 (2006.01) C10M 117/00 (2006.01)**
[25] EN
[54] **TRACTION FLUID COMPOSITION COMPRISING A HYDROGENATED ALPHA DIMETHYL STYRENE DIMER BASE OIL, A POLYISOBUTENE VISCOSITY MODIFIER, AND A COMB-POLYMETHACRYLATE VISCOSITY MODIFIER**
[54] **COMPOSITION DE FLUIDE DE TRACTION COMPRENANT UNE HUILE DE BASE A DIMERE DE STYRENE ALPHA-DYMETHYLE HYDROGENE, UN MODIFICATEUR DE VISCOSITE AU POLYISOBUTYLENE ET UN MODIFICATEUR DE VISCOSITE AU POLYMETHACRYLATE EN PEIGNE**
[72] WU, GEFEI, US
[72] REN, NING, US
[72] LOCKWOOD, FRANCES E., US
[73] VALVOLINE LICENSING AND INTELLECTUAL PROPERTY LLC, US
[85] 2020-09-08
[86] 2019-03-06 (PCT/US2019/020880)
[87] (WO2019/173427)
[30] US (62/639,195) 2018-03-06

[11] **3,093,905**
[13] C
[51] **Int.Cl. F16D 55/02 (2006.01) F16D 55/08 (2006.01) F16D 55/22 (2006.01) F16D 65/18 (2006.01)**
[25] EN
[54] **BISTABLE BRAKE**
[54] **FREIN BISTABLE**
[72] SILVESTRINI, RICHARD LARRY, US
[72] NYQUIST, STEPHEN E., US
[72] UFFELMAN, BRADLEY LYN, US
[73] WARNER ELECTRIC TECHNOLOGY LLC, US
[85] 2020-09-14
[86] 2018-11-19 (PCT/US2018/061780)
[87] (WO2019/199354)
[30] US (15/951,712) 2018-04-12

[11] **3,096,353**
[13] C
[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6827 (2018.01) G06F 17/18 (2006.01)**
[25] EN
[54] **DETERMINATION OF FREQUENCY DISTRIBUTION OF NUCLEOTIDE SEQUENCE VARIANTS**
[54] **DETERMINATION DE LA DISTRIBUTION DE FREQUENCE DE VARIANTS DE SEQUENCE NUCLEOTIDIQUE**
[72] YUDOVICH, DAVID, SE
[72] LARSSON, JONAS, SE
[73] TIGERQ AB, SE
[85] 2020-10-06
[86] 2019-04-02 (PCT/SE2019/050299)
[87] (WO2019/199218)
[30] SE (1850405-0) 2018-04-11

[11] **3,096,804**
[13] C
[51] **Int.Cl. C09J 11/08 (2006.01) C09J 9/00 (2006.01)**
[25] EN
[54] **HOT-MELT FORMULATIONS UTILIZING DEPOLYMERIZED POLYMERIC MATERIAL**
[54] **FORMULATIONS THERMOFUSIBLES UTILISANT UN MATERIAU POLYMERE DEPOLYMERISE**
[72] FENTON, IRINA, CA
[72] DI MONDO, DOMENIC, CA
[73] GREENMANTRA RECYCLING TECHNOLOGIES LTD., CA
[85] 2020-10-09
[86] 2019-04-12 (PCT/CA2019/000046)
[87] (WO2019/195915)
[30] US (62/656,730) 2018-04-12

[11] **3,096,889**
[13] C
[51] **Int.Cl. B65D 50/04 (2006.01) B65D 41/04 (2006.01) B65D 55/12 (2006.01)**
[25] EN
[54] **METAL CHILD RESISTANT CONTAINER**
[54] **CONTENANT METALLIQUE A SECURITE POUR ENFANT**
[72] KARLL, NICHOLAS, US
[73] KARLL, NICHOLAS, US
[85] 2020-10-12
[86] 2019-04-11 (PCT/US2019/027049)
[87] (WO2019/200147)
[30] US (15/951,482) 2018-04-12
[30] US (16/011,267) 2018-06-18
[30] US (16/381,904) 2019-04-11

[11] **3,096,923**
[13] C
[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/06 (2006.01) A61M 39/12 (2006.01)**
[25] EN
[54] **EXTENSION TUBING STRAIN RELIEF**
[54] **REDUCTION DES CONTRAINTES DE TUBE DE RALLONGE**
[72] PETERSON, BART D., US
[72] BURKHOLZ, JONATHAN KARL, US
[72] BIHLMAIER, BRYAN FRED, US
[73] BECTON, DICKINSON AND COMPANY, US
[86] (3096923)
[87] (3096923)
[22] 2016-10-06
[62] 3,002,009
[30] US (62/247,626) 2015-10-28
[30] US (62/247,621) 2015-10-28
[30] US (62/247,607) 2015-10-28
[30] US (62/247,617) 2015-10-28
[30] US (62/247,599) 2015-10-28
[30] US (62/247,596) 2015-10-28
[30] US (62/247,624) 2015-10-28
[30] US (62/296,383) 2016-02-17
[30] US (62/296,385) 2016-02-17
[30] US (15/286,212) 2016-10-05

[11] **3,098,700**
[13] C
[51] **Int.Cl. E21B 34/12 (2006.01) E21B 33/13 (2006.01) E21B 34/00 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **FRAC VALVE**
[54] **VANNE DE FRACTURATION**
[72] WATSON, BROCK W., US
[72] KLIEWER, GREGORY A., US
[72] FEARS, BRETT A., US
[73] THRU TUBING SOLUTIONS, INC., US
[85] 2020-10-28
[86] 2019-05-20 (PCT/US2019/033042)
[87] (WO2019/226509)
[30] US (62/674,383) 2018-05-21

[11] **3,098,951**
[13] C
[51] **Int.Cl. B65B 11/00 (2006.01) B65B 9/06 (2012.01) B65B 11/08 (2006.01) B65B 11/58 (2006.01) B65B 41/14 (2006.01) B65B 49/14 (2006.01) B65B 49/16 (2006.01) B65B 51/14 (2006.01) B65B 61/10 (2006.01)**
[25] EN
[54] **FILM-WRAPPING APPARATUS**
[54] **DISPOSITIF D'EMBALLAGE DANS UNE FEUILLE**
[72] FRISCH, CLEMENS, AT
[73] SPRINGER MASCHINENFABRIK GMBH, AT
[85] 2020-10-30
[86] 2019-04-29 (PCT/EP2019/060891)
[87] (WO2019/211228)
[30] AT (A 50369/2018) 2018-05-02

[11] **3,100,757**
[13] C
[51] **Int.Cl. H05F 1/00 (2006.01) G05D 1/02 (2020.01)**
[25] EN
[54] **VOLTAGE DIFFERENTIAL REDUCTION METHODS USED WHILE RETRIEVING A MOBILE PLATFORM FROM A TANK CONTAINING A HAZARDOUS, NON-CONDUCTIVE SUBSTANCE**
[54] **PROCEDES DE REDUCTION DIFFERENTIELLE DE TENSION UTILISES TOUT EN RECUPERANT UNE PLATEFORME MOBILE A PARTIR D'UN RESERVOIR CONTENANT UNE SUBSTANCE DANGEREUSE NON CONDUCTRICE**
[72] MEYERS, JOHN W., US
[72] DAILY, JOSEPH A., US
[72] EFFINGER, ROBERT T., IV, US
[72] PONTRELLI, DONALD A., US
[72] CHEUVRONT, DAVID L., US
[72] LOVELACE, JAMES TODD, US
[72] GILLORY, RONALD, US
[72] CASSIMATIS, DAVID JOHN, US
[73] TANKBOTS, INC., US
[86] (3100757)
[87] (3100757)
[22] 2018-12-15
[62] 3,077,399
[30] US (PCT/US2017/066758) 2017-12-15

[11] **3,101,404**
[13] C
[51] **Int.Cl. B02C 4/28 (2006.01) B02C 23/00 (2006.01) B02C 25/00 (2006.01)**
[25] EN
[54] **DISTRIBUTION METERING DEVICE FOR A ROLLER MILL, ROLLER MILL WITH SUCH A DISTRIBUTION METERING DEVICE, METHOD FOR GRINDING STOCK, AND ROLLER MILL COMPRISING A SWITCHING CABINET WITH A COOLING SYSTEM**
[54] **APPAREIL DE MESURE DE DISTRIBUTION POUR UN MOULIN A CYLINDRES, MOULIN A CYLINDRES COMPORTANT UN TEL APPAREIL DE MESURE DE DISTRIBUTION, METHODE DE BROYAGE DE STOCKS ET MOULIN A CYLINDRES COMPRENANT UNE ARMOIRE DE COMMUTATION AVEC UN SYSTEME DE REFROIDISSEMENT**
[72] MARK, DANIEL, CH
[72] RICKENBACH, DANIEL, CH
[72] SALZMANN, STEFAN, CH
[73] BUHLER AG, CH
[85] 2020-11-24
[86] 2019-05-27 (PCT/EP2019/063644)
[87] (WO2019/224399)
[30] EP (18174239.6) 2018-05-25

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[11] **3,106,644**
[13] C
[51] **Int.Cl. F25C 1/12 (2006.01) F25C 1/25 (2018.01)**
[25] EN
[54] **ICE MACHINE**
[54] **MACHINE A GLACE**
[72] WILKINS, MICHAEL ALEXANDER, US
[72] HOLWERK, CHARLES HUNTER, US
[73] WELLER ICE, LLC, US
[85] 2021-01-15
[86] 2019-07-17 (PCT/US2019/042189)
[87] (WO2020/018658)
[30] US (62/701,179) 2018-07-20

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[11] **3,107,361**
[13] C
[51] **Int.Cl. C07J 9/00 (2006.01) A61K 9/08 (2006.01) A61K 31/573 (2006.01) A61P 27/12 (2006.01)**
[25] EN
[54] **CRYSTAL FORM OF LANOSTEROL PRODRUG COMPOUND AND APPLICATION THEREOF**
[54] **FORME CRISTALLINE D'UN COMPOSE DE PROMEDICAMENT DE LANOSTEROL ET SON APPLICATION**
[72] LIU, YIZHI, CN
[72] WANG, YANDONG, CN
[72] LI, XIAOLIN, CN
[72] LUO, ZHI, CN
[72] HE, HAIYING, CN
[72] LI, JIAN, CN
[72] CHEN, SHUHUI, CN
[73] GUANGZHOU OCUSUN OPHTHALMIC BIOTECHNOLOGY CO., LTD., CN
[85] 2021-01-22
[86] 2019-07-25 (PCT/CN2019/097773)
[87] (WO2020/020306)
[30] CN (201810826425.6) 2018-07-25

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[11] **3,107,914**
[13] C
[51] **Int.Cl. G06Q 10/08 (2012.01) G06V 10/44 (2022.01) G06V 10/764 (2022.01) G06N 3/02 (2006.01)**
[25] EN
[54] **POPULATING CATALOG DATA WITH ITEM PROPERTIES BASED ON SEGMENTATION AND CLASSIFICATION MODELS**
[54] **REMPLISSAGE DE DONNEES DE CATALOGUE AVEC DES PROPRIETES D'ARTICLES D'APRES DES MODELES DE SEGMENTATION ET DE CLASSIFICATION**
[72] HSIEH, JONATHAN, US
[72] GOTHE, OLIVER, US
[72] STANLEY, JEREMY, US
[73] MAPLEBEAR, INC. (DBA INSTACART), US
[85] 2021-01-27
[86] 2019-06-25 (PCT/US2019/039075)
[87] (WO2020/027950)
[30] US (16/048,800) 2018-07-30

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[11] **3,107,976**
[13] C
[51] **Int.Cl. C08J 11/08 (2006.01) B29B 17/00 (2006.01) C08F 12/08 (2006.01)**
[25] EN
[54] **PROCESSES FOR RECYCLING POLYSTYRENE WASTE AND/OR POLYSTYRENE COPOLYMER WASTE**
[54] **PROCEDES DE RECYCLAGE DE DECHETS DE POLYSTYRENE ET/OU DE DECHETS DE COPOLYMERE DE POLYSTYRENE**
[72] COTE, ROLAND, CA
[73] POLYSTYVERT INC., CA
[85] 2021-01-28
[86] 2019-10-25 (PCT/CA2019/051512)
[87] (WO2020/082184)
[30] US (62/751,037) 2018-10-26
[30] US (62/760,532) 2018-11-13

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[11] **3,109,442**
[13] C
[51] **Int.Cl. A63D 15/00 (2006.01) A63D 15/20 (2006.01)**
[25] EN
[54] **BILLIARD MONITORING AND MANAGEMENT SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE SURVEILLANCE ET DE GESTION DE BILLARD**
[72] BOUCHARD, DAVID, CA
[72] COTE, FRANCIS, CA
[72] GAUDET, NIL, CA
[72] LAVALLEE, CHRISTIAN, CA
[73] COMPUSPORT INC., CA
[85] 2021-02-09
[86] 2019-08-09 (PCT/CA2019/000115)
[87] (WO2020/028970)
[30] US (62/716,419) 2018-08-09

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[11] **3,111,999**
[13] C
[51] **Int.Cl. A61F 2/40 (2006.01)**
[25] EN
[54] **UNIVERSAL SHOULDER PROSTHESIS SYSTEM**
[54] **SYSTEME UNIVERSEL DE PROTHESE D'EPAULE**
[72] LONGOBARDI, RAPHAEL S.F., US
[73] RAPHAEL S.F. LONGOBARDI, LLC, US
[85] 2021-03-05
[86] 2019-09-09 (PCT/US2019/050253)
[87] (WO2020/051595)
[30] US (62/728,394) 2018-09-07
[30] US (16/439,639) 2019-06-12

[11] **3,113,460**
[13] C
[51] **Int.Cl. G09B 9/02 (2006.01) G09B 9/22 (2006.01) G10L 21/02 (2013.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR LIMITING SPATIAL INTERFERENCE FLUCTUATIONS BETWEEN AUDIO SIGNALS**
[54] **METHODE ET SYSTEME POUR LIMITER LES FLUCTUATIONS D`INTERFERENCE SPATIALE ENTRE DES SIGNAUX SONORES**
[72] DESMET, LAURENT, CA
[72] AYOTTE, MAXIME, CA
[72] GIGUERE, MARC-ANDRE, CA
[73] CAE INC., CA
[86] (3113460)
[87] (3113460)
[22] 2021-03-29

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[11] **3,113,586**
[13] C
[51] **Int.Cl. G01N 21/77 (2006.01) B82Y 15/00 (2011.01)**
[25] EN
[54] **NANOSTRUCTURES FOR IMPROVED MOLECULAR DETECTION**
[54] **NANOSTRUCTURES POUR UNE DETECTION MOLECULAIRE AMELIOREE**
[72] DENOMME, RYAN, CA
[72] STRATHEARN, SARAH, CA
[73] NICOYA LIFESCIENCES, INC., CA
[85] 2021-03-19
[86] 2019-09-24 (PCT/IB2019/058104)
[87] (WO2020/065537)
[30] US (62/735,233) 2018-09-24

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[11] **3,114,338**
[13] C
[51] **Int.Cl. D21H 21/14 (2006.01) C08L 29/04 (2006.01) D21F 5/18 (2006.01)**
[25] EN
[54] **YANKEE ADHESIVE COMPOSITIONS AND METHODS OF USING THESE COMPOSITIONS**
[54] **COMPOSITIONS ADHESIVES DE FRICTIONNEUR ET PROCEDES D'UTILISATION DE CES COMPOSITIONS**
[72] BJERKE, MICHAEL, SE
[72] TREMBLAY, BRUNO, CA
[72] BERGSTROM, VIKTOR, SE
[72] ERICSSON, PETTER, SE
[72] MARCOS, DANILO, SE
[73] VALMET AKTIEBOLAG, SE
[85] 2021-03-25
[86] 2018-10-19 (PCT/SE2018/051067)
[87] (WO2020/080988)

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[11] **3,114,654**
[13] C
[51] **Int.Cl. A43B 1/00 (2006.01) A43B 3/00 (2022.01) A43B 7/08 (2022.01) A43B 7/16 (2006.01) A43B 7/32 (2006.01) A43B 21/00 (2006.01) A43B 21/02 (2006.01)**
[25] EN
[54] **RAPID-ENTRY FOOTWEAR HAVING A COMPRESSIBLE LATTICE STRUCTURE**
[54] **CHAUSSURE A ENFILAGE RAPIDE AYANT UNE STRUCTURE EN TREILLIS COMPRESSIBLE**
[72] CHENEY, CRAIG, US
[72] HERMANN, STEVEN, US
[73] FAST IP, LLC, US
[85] 2021-03-26
[86] 2019-12-19 (PCT/US2019/067437)
[87] (WO2020/146113)
[30] US (62/789,367) 2019-01-07
[30] US (62/935,556) 2019-11-14

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[11] **3,114,661**
[13] C
[51] **Int.Cl. C07F 7/18 (2006.01) C08G 77/50 (2006.01)**
[25] EN
[54] **METHOD FOR THE PREPARATION USE OF AN ALKOXY-FUNCTIONAL ORGANOHYDROGENSILOXANE OLIGOMER USING PURIFIED STARTING MATERIALS AND USE OF THE OLIGOMER**
[54] **PROCEDE DE PREPARATION D'UN OLIGOMERE D'ORGANOHYDROGENOSILOXANE A FONCTION ALCOXY A L'AIDE DE MATIERES PREMIERES PURIFIEES ET UTILISATION DE L'OLIGOMERE**
[72] ZHOU, XIAOYUAN, US
[72] HAGHPANAH, REZA, US
[72] GREINER, AARON, US
[72] JOFFRE, ERIC, US
[72] REISCH, SEAN, US
[72] MARCHAND, CHRISTINE, US
[73] DOW SILICONES CORPORATION, US
[85] 2021-03-26
[86] 2020-09-02 (PCT/US2020/048970)
[87] (WO2021/050326)
[30] US (62/898,565) 2019-09-11

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[11] **3,121,283**
[13] C
[51] **Int.Cl. E04H 17/22 (2006.01) E04H 12/22 (2006.01)**
[25] EN
[54] **ANCHORING SYSTEM FOR SECURING A POST**
[54] **SYSTEME D'ANCRAGE POUR FIXER UN POTEAU**
[72] FENNEMA, RICHARD, CA
[73] FENNEMA, RICHARD, CA
[85] 2021-05-27
[86] 2019-12-17 (PCT/CA2019/051826)
[87] (WO2020/124215)
[30] US (62/780,530) 2018-12-17

[11] **3,122,649**
[13] C
[51] **Int.Cl. C04B 28/04 (2006.01) C04B 28/06 (2006.01) C04B 40/00 (2006.01)**
[25] EN
[54] **RAPID-HARDENING MINERAL BINDER MIXTURE**
[54] **MELANGE LIANT MINERAL A DURCISSEMENT RAPIDE**
[72] HETCHE, OLAF, DE
[73] VENATOR GERMANY GMBH, DE
[85] 2021-06-09
[86] 2020-01-15 (PCT/EP2020/050860)
[87] (WO2020/148309)
[30] EP (19152545.0) 2019-01-18

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[11] **3,123,787**
[13] C
[51] **Int.Cl. C01D 7/12 (2006.01) C01B 32/60 (2017.01) C01D 7/00 (2006.01) C01D 7/38 (2006.01)**
[25] EN
[54] **A PROCESS FOR PREPARING CHEMICALLY MODIFIED BICARBONATE SALT PARTICLES**
[54] **PROCEDE DE PREPARATION DE PARTICULES DE SEL DE BICARBONATE CHIMIQUEMENT MODIFIEES**
[72] BHUSHAN, INDU, IN
[72] RAO, VINAY, IN
[72] SHETTY, RAKSHITH, IN
[73] STEERLIFE INDIA PRIVATE LIMITED, IN
[85] 2021-06-16
[86] 2019-12-20 (PCT/IB2019/061180)
[87] (WO2020/128995)
[30] IN (201841048298) 2018-12-20

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[11] **3,123,908**
[13] C
[51] **Int.Cl. A61K 36/07 (2006.01) A61K 31/4045 (2006.01) A61K 31/675 (2006.01)**
[25] EN
[54] **ETHANOL EXTRACTION OF PSYCHOACTIVE COMPOUNDS FROM PSILOCYBIN FUNGUS**
[54] **EXTRACTION A L'ETHANOL DE COMPOSES PSYCHOACTIFS DE CHAMPIGNONS PSILOCYBINES**
[72] LIGHTBURN, BENJAMIN, CA
[72] MOSS, RYAN, CA
[72] RANKEN, LISA, CA
[73] PSILO SCIENTIFIC LTD., CA
[86] (3123908)
[87] (3123908)
[22] 2020-07-29
[62] 3,088,384
[30] US (63040317) 2020-06-17
[30] US (63046089) 2020-06-30

---

[11] **3,126,651**
[13] C
[51] **Int.Cl. A01N 63/32 (2020.01) A01N 25/08 (2006.01) A01N 25/18 (2006.01) A01N 61/00 (2006.01) A01P 11/00 (2006.01)**
[25] EN
[54] **RODENT CONTROL FEED MIXTURE AND METHODS OF MANUFACTURE AND USAGE THEREOF**
[54] **MELANGE D`ALIMENT DE DERATISATION ET METHODES DE FABRICATION ET D`UTILISATION**
[72] COLDWELL, GUY RICHARD, CA
[73] COLDWELL, GUY RICHARD, CA
[86] (3126651)
[87] (3126651)
[22] 2021-08-03

---

[11] **3,127,874**
[13] C
[51] **Int.Cl. H02H 1/00 (2006.01) H02H 3/34 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR PRODUCING NEGATIVE SEQUENCE CURRENT**
[54] **APPAREIL ET METHODE POUR PRODUIRE UN COURANT INVERSE**
[72] PATTERSON, RUSSELL W., US
[73] PATTERSON, RUSSELL W., US
[86] (3127874)
[87] (3127874)
[22] 2021-08-12
[30] US (17/313,510) 2021-05-06

---

[11] **3,131,278**
[13] C
[51] **Int.Cl. A45F 5/00 (2006.01) A45C 3/12 (2006.01) A47F 7/08 (2006.01) A47G 25/00 (2006.01)**
[25] EN
[54] **A DISPLAY, SECURING AND TRANSPORTING DEVICE FOR A PAIR OF FOOTWEAR**
[54] **DISPOSITIF DE PRESENTATION, DE FIXATION ET DE TRANSPORT POUR UNE PAIRE DE CHAUSSURES**
[72] YAKLHA, CHEME, CA
[72] RIVEST, HUGUES, CA
[72] LABERGE, MARTIN, CA
[72] LEFEBVRE, PHILIPPE, CA
[73] VLIRKA INCORPORATED, CA
[85] 2021-08-24
[86] 2020-03-10 (PCT/CA2020/050315)
[87] (WO2020/181370)
[30] US (62/816,271) 2019-03-11

[11] **3,139,751**
[13] C
[51] **Int.Cl. G06V 10/12 (2022.01) G06F 21/32 (2013.01) G06V 40/12 (2022.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR CAPTURING BIOMETRIC DATA**
[54] **PROCEDES ET SYSTEMES DE SAISIE DE DONNEES BIOMETRIQUES**
[72] PEIRCE, MICHAEL, IE
[72] SAHIN, TEVFIK BURAK, US
[72] SEZILLE, NICOLAS JACQUES JEAN, IE
[72] WHITE, CONOR ROBERT, US
[73] DAON ENTERPRISES LIMITED, MT
[86] (3139751)
[87] (3139751)
[22] 2012-01-19
[62] 2,764,773
[30] US (13/010,443) 2011-01-20
[30] US (13/025,729) 2011-02-11

Canadian Applications Open to Public Inspection

March 6, 2022 to March 12, 2022

Demandes canadiennes mises à la disponibilité du public

6 mars 2022 au 12 mars 2022

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[21] **3,087,796**
[13] A1
[51] **Int.Cl. E04B 1/343 (2006.01)**
[25] FR
[54] **HOME PACKAGE WITH PREFABRICATED INTERLOCKING FRAMING**
[54] **KIT DE MAISON AVEC CHARPENTE PRE-USINE PIECES SUR PIECES EMBOITABLE**
[72] BOSTAN, SERGIU, CA
[71] BOSTAN, SERGIU, CA
[22] 2020-09-10
[41] 2022-03-10

---

[21] **3,092,367**
[13] A1
[51] **Int.Cl. B63B 35/00 (2020.01) B63B 35/58 (2006.01)**
[25] EN
[54] **FLOATING PLATFORM STRUCTURE FORMED OF MODULAR UNITS**
[54] **STRUCTURE DE PLATEFORME FLOTTANTE FORMEE D'UNITES MODULAIRES**
[72] ASLAN, SELIM, TR
[71] ASLAN, SELIM, TR
[22] 2020-09-08
[41] 2022-03-08

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[21] **3,092,371**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 38/20 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY OF PD-1-TARGETED IL-2 VARIANT IMMUNOCYTOKINES AND ANTIBODIES AGAINST HUMAN PD-L1**
[54] **POLYTHERAPIE D'IMMUNOCYTOKINES DE VARIANTE IL-2 CIBLANT PD-1 ET ANTICORPS CONTRE LE PD-L1 HUMAIN**
[72] CODARRI DEAK, LAURA, CH
[72] KLEIN, CHRISTIAN, CH
[72] NICOLINI, VALERIA, CH
[72] UMANA, PABLO, CH
[71] F. HOFFMANN-LA ROCHE AG, CH
[22] 2020-09-08
[41] 2022-03-08

---

[21] **3,092,385**
[13] A1
[51] **Int.Cl. B66F 13/00 (2006.01) B60S 9/04 (2006.01)**
[25] EN
[54] **SYSTEMS, DEVICES, AND METHODS FOR OPERATING A JACK**
[54] **SYSTEMES, DISPOSITIFS ET METHODES POUR EXPLOITER UN VERIN**
[72] VANBODEGOM, JORDAN LEE, CA
[71] VANBODEGOM, JORDAN LEE, CA
[22] 2020-09-08
[41] 2022-03-08

---

[21] **3,092,394**
[13] A1
[51] **Int.Cl. F28F 9/16 (2006.01)**
[25] EN
[54] **TUBE AND TUBESHEET ASSEMBLY WITH DAMAGE RESISTANCE AND METHOD FOR PROTECTING TUBE AND TUBESHEET ASSEMBLIES FROM DAMAGE**
[54] **TUBE ET ASSEMBLAGE DE PLAQUE TUBULAIRE RESISTANTS AUX DOMMAGES ET METHODE DE PROTECTION DU TUBE ET DE L'ASSEMBLAGE DE PLAQUE TUBULAIRE CONTRE LES DOMMAGES**
[72] YUEN, SIMON, CA
[72] SUZUK, YASIN, CA
[72] SERATE, DUANE GO, CA
[71] SUNCOR ENERGY INC., CA
[22] 2020-09-08
[41] 2022-03-08

---

[21] **3,092,395**
[13] A1
[51] **Int.Cl. B65H 49/20 (2006.01)**
[25] EN
[54] **ARRANGEMENT FOR UNWINDING CABLE WOUND ONTO A SPOOL**
[54] **CONFIGURATION POUR DEROULER UN CABLE ENROULE SUR UNE BOBINE**
[72] BENICHOU, FABRICE, FR
[72] LACROIX, JOEL, FR
[72] PETINOT, SYLVAIN, FR
[72] MULLER, ISAAC, CA
[72] GARDNER, LUCAS, CA
[71] NEXANS, FR
[22] 2020-09-08
[41] 2022-03-08

[21] **3,092,481**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/6883 (2018.01)**
[25] EN
[54] **METHOD FOR DETECTING AN INDIVIDUAL'S PREDISPOSITION TO NEURODEVELOPMENTAL DISORDERS AND THE LIKELIHOOD OF NUERORECOVERY BASED ON THE PRESENCE OFCERTAIN LENGTH POLYMORPHISMS OF A MICROSATELLITE SEQUENCE NEAR THE PLA2G4A GENE**
[54] **METHODE POUR DETECTER LES PREDISPOSITIONS D'UN INDIVIDU AUX TROUBLES NEURODEVELOPPEMENTAUX ET LA POSSIBILITE DE RECUPERATION NEURONALE EN FONCTION DE LA PRESENCE DE POLYMORPHISMES DE CERTAINES LONGUEURS D'UNE SEQUENCE MICROSATELLITE PRES DU GENE PLA2G4A**
[72] HUDSON, CRAIG J., CA
[71] HUDSON, CRAIG J., CA
[22] 2020-09-09
[41] 2022-03-09

[21] **3,092,498**
[13] A1
[51] **Int.Cl. A21D 13/066 (2017.01) A21D 2/08 (2006.01) A21D 2/26 (2006.01)**
[25] EN
[54] **GLUTEN-FREE DRY MIX FOR MAKING BAKED GOODS AND GLUTEN-FREE BAKED GOODS**
[54] **MELANGE SEC SANS GLUTEN POUR PRODUIRE DES PRODUITS DE BOULANGERIE, ET PRODUITS DE BOULANGERIE SANS GLUTEN**
[72] ANDERSEN, KIM, CA
[71] ANDERSEN, KIM, CA
[22] 2020-09-09
[41] 2022-03-09

[21] **3,092,511**
[13] A1
[51] **Int.Cl. H04L 9/32 (2006.01) H04W 4/14 (2009.01) H04M 3/42 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR INITIATING AN AUTHENTICATED SESSION**
[54] **SYSTEMES ET METHODES POUR LANCER UNE SESSION AUTHENTIFIEE**
[72] RANA, NISHA, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2020-09-09
[41] 2022-03-09

[21] **3,092,658**
[13] A1
[51] **Int.Cl. B68C 1/14 (2006.01)**
[25] EN
[54] **SHOCK REDUCING BUCKLE AND STRAP ASSEMBLIES FOR GIRTHS AND CINCHES**
[54] **ASSEMBLAGES DE BOUCLE ET DE COURROIE POUR SANGLES**
[72] LAROCQUE, WILLIAM ALVIN, CA
[71] LAROCQUE, WILLIAM ALVIN, CA
[22] 2020-09-10
[41] 2022-03-10

[21] **3,092,668**
[13] A1
[51] **Int.Cl. G16H 40/00 (2018.01) G06Q 40/08 (2012.01) G06Q 40/00 (2012.01)**
[25] EN
[54] **HEALTHCARE CLAIMS SUBMISSION METHOD**
[54] **METHODE DE SOUMISSION DE RECLAMATIONS DE SOINS DE SANTE**
[72] MANZO, BEN, CA
[72] MANZO, NADEEN, CA
[71] MANZO, BEN, CA
[71] MANZO, NADEEN, CA
[22] 2020-09-10
[41] 2022-03-09
[30] US (17/016,309) 2020-09-09

[21] **3,092,681**
[13] A1
[51] **Int.Cl. G07F 7/10 (2006.01) G06Q 20/34 (2012.01) G07F 19/00 (2006.01)**
[25] EN
[54] **VALUE TRANSFER CARD MANAGEMENT SYSTEM**
[54] **SYSTEME DE GESTION DES CARTES DE TRANSFERT DE LA VALEUR**
[72] TAX, DAVID SAMUEL, CA
[72] DUNJIC, MILOS, CA
[72] RASTOGI, KUSHANK, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2020-09-10
[41] 2022-03-10

[21] **3,092,701**
[13] A1
[51] **Int.Cl. A47C 7/74 (2006.01) A61G 5/10 (2006.01) A61G 5/12 (2006.01) B62K 5/00 (2013.01)**
[25] EN
[54] **THERMAL COMFORT WHEELCHAIR BACKREST**
[54] **DOSSIER DE FAUTEUIL ROULANT POUR LE CONFORT THERMIQUE**
[72] QIU, JINTAO, CN
[72] CAI, MINGJIE, CA
[71] THUJA INNOVATIONS INC., CA
[22] 2020-09-10
[41] 2022-03-10

[21] **3,092,760**
[13] A1
[51] **Int.Cl. E04C 3/36 (2006.01)**
[25] EN
[54] **PRE PAINTED ALUMINUM PROFILES FILLED WITH POLYURETHANE FOAM**
[54] **PROFILS D'ALUMINIUM PREPEINTS REMPLIS DE MOUSSE DE POLYURETHANNE**
[72] DAABOUL, MOHAMMAD MUMTAZ, CA
[71] DAABOUL, MOHAMMAD MUMTAZ, CA
[22] 2020-09-11
[41] 2022-03-11

[21] **3,092,764**
[13] A1
[51] **Int.Cl. C02F 1/22 (2006.01) C02F 1/52 (2006.01)**
[25] EN
[54] **TREATMENT OF WATER**
[54] **TRAITEMENT D'EAU**
[72] MAREE, JOHANNES PHILIPPUS, ZA
[71] ROC WATER TECHNOLOGIES(PTY) LTD, ZA
[22] 2020-09-10
[41] 2022-03-10

---

[21] **3,092,795**
[13] A1
[51] **Int.Cl. G06F 3/01 (2006.01) G06N 20/00 (2019.01) G10L 15/00 (2013.01) G10L 15/24 (2013.01)**
[25] EN
[54] **CUSTOMIZABLE USER INPUT RECOGNITION SYSTEMS**
[54] **SYSTEMES DE RECONNAISSANCE DES SAISIES D'UTILISATEURS PERSONNALISABLES**
[72] CHAU, THOMAS TAK KIN, CA
[72] HAN, CHUZHANG, CA
[72] ORLANDI, SILVIA, CA
[72] DUEZ, PIERRE, CA
[71] HOLLAND BLOORVIEW KIDS REHABILITATION HOSPITAL, CA
[22] 2020-09-10
[41] 2022-03-10

---

[21] **3,092,840**
[13] A1
[51] **Int.Cl. G06F 9/50 (2006.01) G06Q 40/02 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MANAGING RESOURCE ACCOUNTS**
[54] **SYSTEMES ET METHODES POUR GERER DES COMPTES DE RESSOURCES**
[72] LADZIK, MATTHEW RENOLD, CA
[72] BROTHERSTON, DANIEL SCOTT, CA
[72] REILLY, HARRISON MICHAEL JAMES, CA
[72] ODOBETSKIY, KYRYLL, CA
[72] CHUNG, ESTELLE, CA
[72] NGUYEN, TRI NHAN, CA
[72] FLITTON, FRANK JOHN ELDRIDGE, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2020-09-11
[41] 2022-03-11

---

[21] **3,092,853**
[13] A1
[51] **Int.Cl. B08B 3/02 (2006.01)**
[25] EN
[54] **RECIPROCATING PRESSURE WASHER SYSTEM FOR CLEANING OPEN GEARS**
[54] **SYSTEME DE LAVEUR A PRESSION RECIPROQUE POUR NETTOYER DES ENGRENAGES DECOUVERTS**
[72] SHUMKA, JASON, CA
[72] SHUMKA, THOMAS, CA
[71] SHUMKA, JASON, CA
[71] SHUMKA, THOMAS, CA
[22] 2020-09-11
[41] 2022-03-11

---

[21] **3,092,857**
[13] A1
[51] **Int.Cl. B65G 7/08 (2006.01) B65B 3/06 (2006.01) B67C 9/00 (2006.01) F16M 11/20 (2006.01)**
[25] EN
[54] **CRYOGENIC DEWAR BOTTLE TIPPING STAND**
[54] **SUPPORT A BOUTEILLE INCLINE CRYOGENIQUE DEWAR**
[72] BOIVIN, STEPHAN, CA
[71] BOIVIN, STEPHAN, CA
[22] 2020-09-11
[41] 2022-03-11

---

[21] **3,093,290**
[13] A1
[51] **Int.Cl. A01N 47/44 (2006.01) A01P 1/00 (2006.01) A61L 2/16 (2006.01) C11D 1/62 (2006.01) C11D 3/48 (2006.01) D06M 13/00 (2006.01)**
[25] EN
[54] **AN ANTIVIRAL COMPOSITION FOR TEXTILES**
[54] **COMPOSITION ANTIVIRALE POUR TISSUS**
[72] BEEVIS, GIANCARLO, CA
[72] NIU, SHOUHUA, CN
[71] INTELLIGENT FABRIC TECHNOLOGIES (NORTH AMERICA) INC., CA
[22] 2020-09-16
[41] 2022-03-11
[30] US (17/018,338) 2020-09-11

---

[21] **3,095,309**
[13] A1
[51] **Int.Cl. G06F 21/62 (2013.01) G06Q 40/02 (2012.01) G06N 20/00 (2019.01) G06N 3/02 (2006.01) H04L 9/06 (2006.01)**
[25] EN
[54] **APPLICATION OF TRAINED ARTIFICIAL INTELLIGENCE PROCESSES TO ENCRYPTED DATA WITHIN A DISTRIBUTED COMPUTING ENVIRONMENT**
[54] **APPLICATION DE PROCEDES D'INTELLIGENCE ARTIFICIELLE ENTRAINEE A DES DONNEES CHIFFREES DANS UN ENVIRONNEMENT INFORMATIQUE DISTRIBUE**
[72] BEGG, JAMES ANTHONY, CA
[72] HAMDAN, OMAR, CA
[72] KABADAYI, SERTAC, CA
[72] ZHENG, ZEZHONG, CA
[72] TITUS, JINOJ, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2020-10-05
[41] 2022-03-07
[30] US (63/075,260) 2020-09-07

---

[21] **3,098,813**
[13] A1
[51] **Int.Cl. E21B 47/10 (2012.01) E21B 47/135 (2012.01) E21B 43/26 (2006.01)**
[25] EN
[54] **DETERMINING FLUID DISTRIBUTION AND HYDRAULIC FRACTURE ORIENTATION IN A GEOLOGICAL FORMATION**
[54] **DETERMINATION DE LA DISTRIBUTION DE FLUIDE ET DE L'ORIENTATION DE LA FRACTURATION HYDRAULIQUE DANS UNE FORMATION GEOLOGIQUE**
[72] JAASKELAINEN, MIKKO, US
[72] DAVIS, ERIC JAMES, US
[72] LEBLANC, MICHEL JOSEPH, US
[72] MAIDA, JOHN LAURETO, JR., US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[22] 2020-11-12
[41] 2022-03-08
[30] US (17/013,983) 2020-09-08

[21] **3,100,496**
[13] A1
[51] **Int.Cl. A43B 3/24 (2006.01) A43B 3/06 (2006.01) A43B 3/12 (2006.01)**
[25] EN
[54] **FLIP-FLOP CAPABLE OF CHANGING TO A SANDAL HAVING AN EMBEDDED REAR STRAP MOVABLE BETWEEN TWO POSITIONS**
[54] **GOUGOUNE POUVANT SE TRANSFORMER EN SANDALE AYANT UNE COURROIE ARRIERE ENCASTREE POUVANT SE DEPLACER ENTRE DEUX POSITIONS**
[72] CHEHEBAR, JOSEPH, US
[71] CHEHEBAR, JOSEPH, US
[22] 2020-11-24
[41] 2022-03-10
[30] US (17016553) 2020-09-10

[21] **3,104,092**
[13] A1
[51] **Int.Cl. A24F 40/46 (2020.01) A24F 40/40 (2020.01) B05B 7/16 (2006.01)**
[25] EN
[54] **ATOMIZER COMPRISING TWO HEATING WIRES**
[54] **PULVERISATEUR COMPRENANT DEUX FILAMENTS CHAUFFANTS**
[72] LIU, TUANFANG, CN
[71] SHENZHEN EIGATE TECHNOLOGY CO., LTD., CN
[22] 2020-12-24
[41] 2022-03-07
[30] CN (202021933465.X) 2020-09-07

[21] **3,104,094**
[13] A1
[51] **Int.Cl. A24F 40/46 (2020.01) A24F 40/40 (2020.01)**
[25] EN
[54] **CERAMIC ATOMIZER**
[54] **PULVERISATEUR CERAMIQUE**
[72] LIU, TUANFANG, CN
[71] SHENZHEN EIGATE TECHNOLOGY CO., LTD., CN
[22] 2020-12-24
[41] 2022-03-07
[30] CN (202021933459.4) 2020-09-07

[21] **3,107,584**
[13] A1
[51] **Int.Cl. E04C 3/02 (2006.01) E04B 1/18 (2006.01)**
[25] EN
[54] **INSULATED BUILDING STUDS AND METHODS OF MANUFACTURE**
[54] **GOUJONS DE BATIMENT ISOLES ET METHODES DE FABRICATION**
[72] LAING, CHRISTOPHER J., US
[71] LAING, CHRISTOPHER J., US
[22] 2021-02-01
[41] 2022-03-11
[30] US (62/706,802) 2020-09-11

[21] **3,108,661**
[13] A1
[51] **Int.Cl. G01B 17/02 (2006.01)**
[25] EN
[54] **ULTRASONIC TESTING USING A PHASED ARRAY**
[54] **ESSAIS ULTRASONIQUES UTILISANT UNE ANTENNE RESEAU A COMMANDE DE PHASE**
[72] HOLLOWAY, PAUL, CA
[71] HOLLOWAY NDT & ENGINEERING INC., CA
[22] 2021-02-12
[41] 2022-03-08

[21] **3,111,410**
[13] A1
[51] **Int.Cl. E04H 15/62 (2006.01) E02D 5/80 (2006.01)**
[25] EN
[54] **TIE-DOWN STAKE FOR YARD ORNAMENTS**
[54] **PIEU D'ATTACHE POUR DECORATIONS DE JARDIN**
[72] KACINES, JEFFERY J., US
[71] KACINES, JEFFERY J., US
[22] 2021-03-05
[41] 2022-03-12
[30] US (17/019,213) 2020-09-12

[21] **3,113,019**
[13] A1
[51] **Int.Cl. E04B 2/88 (2006.01)**
[25] EN
[54] **FIXING ASSEMBLY FOR GLASS**
[54] **ASSEMBLAGE DE FIXATION POUR VERRE**
[72] ZHOU, DANING, CN
[71] QINGDAO CHANGHUAI MACHINERY CO., LTD., CN
[22] 2021-03-23
[41] 2022-03-08
[30] CN (CN202010932409.2) 2020-09-08

[21] **3,116,493**
[13] A1
[51] **Int.Cl. B65D 33/28 (2006.01) B65F 1/06 (2006.01)**
[25] EN
[54] **DRAWSTRING TRASH BAG**
[54] **SAC A ORDURES A CORDONNET**
[72] ENGELKING, JARRED R., US
[71] POLY-AMERICA, L.P., US
[22] 2021-04-29
[41] 2022-03-10
[30] US (17/016,739) 2020-09-10

[21] **3,117,560**
[13] A1
[51] **Int.Cl. F02K 5/00 (2006.01) B64D 27/00 (2006.01) B64D 27/24 (2006.01) F01D 25/36 (2006.01) F02C 6/20 (2006.01) F02C 7/32 (2006.01) F02C 7/36 (2006.01) F02K 3/06 (2006.01) H02K 7/18 (2006.01)**
[25] EN
[54] **SPLIT COMPRESSOR GAS TURBINE ENGINE**
[54] **TURBINE A GAZ A COMPRESSEUR SEPARE**
[72] VALOIS, PATRICK, CA
[72] TURCOTTE, HERVE, CA
[72] PLANTE, GHISLAIN, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-05-06
[41] 2022-03-08
[30] US (17/014,051) 2020-09-08

[21] **3,117,613**
[13] A1
[51] **Int.Cl. A61L 9/015 (2006.01) A61L 2/20 (2006.01) C01B 13/10 (2006.01)**
[25] EN
[54] **BIO-DECONTAMINATION SYSTEM AND METHOD USING OZONE**
[54] **SYSTEME DE DECONTAMINATION BIOLOGIQUE ET METHODE UTILISANT L'OZONE**
[72] FRISKY, SEAN, CA
[72] BEAUDIN, JASON, CA
[71] GROUND EFFECTS ENVIRONMENTAL SERVICES INC., CA
[22] 2021-05-07
[41] 2022-03-11
[30] US (63/076,992) 2020-09-11

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[21] **3,122,679**
[13] A1
[51] **Int.Cl. E05F 15/70 (2015.01) E05F 15/50 (2015.01) E05F 15/603 (2015.01)**
[25] EN
[54] **DOOR ACTUATOR**
[54] **ACTIONNEUR DE PORTE**
[72] DELLORTO, SARA MARIE, US
[72] WONG, PETER, US
[71] INTERNATIONAL TRUCK INTELLECTUAL PROPERTY COMPANY, LLC, US
[22] 2021-06-17
[41] 2022-03-11
[30] US (17/018,697) 2020-09-11

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[21] **3,122,818**
[13] A1
[51] **Int.Cl. B60J 5/00 (2006.01) B60R 16/00 (2006.01)**
[25] EN
[54] **DOOR CONDITION MONITORING**
[54] **SURVEILLANCE DE CONDITION DE PORTE**
[72] DELLORTO, SARA MARIE, US
[72] WONG, PETER, US
[71] INTERNATIONAL TRUCK INTELLECTUAL PROPERTY COMPANY, LLC, US
[22] 2021-06-18
[41] 2022-03-11
[30] US (17/018,732) 2020-09-11

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[21] **3,122,973**
[13] A1
[51] **Int.Cl. F02C 7/00 (2006.01) F01D 25/18 (2006.01) F01D 25/28 (2006.01) F02C 7/28 (2006.01)**
[25] EN
[54] **BOSS FOR GAS TURBINE ENGINE**
[54] **BOSSAGE POUR TURBINE A GAZ**
[72] MORENKO, OLEG, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-06-21
[41] 2022-03-11
[30] US (17/018,409) 2020-09-11

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[21] **3,123,121**
[13] A1
[51] **Int.Cl. F04D 29/42 (2006.01) F02C 3/08 (2006.01) F04D 29/28 (2006.01)**
[25] EN
[54] **IMPELLER EXDUCER CAVITY WITH FLOW RECIRCULATION**
[54] **CAVITE DE SORTIE DE ROTOR AVEC RECIRCULATION DE FLUX**
[72] DUONG, HIEN, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-06-21
[41] 2022-03-08
[30] US (17/013,991) 2020-09-08

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[21] **3,123,440**
[13] A1
[51] **Int.Cl. A61K 36/185 (2006.01) A61K 9/50 (2006.01) A61P 3/02 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION FOR USE IN A COMBINATION WITH CANNABINOIDS TO ENHANCE BENEFITS OF CANNABINOIDS TO SUPPORT HUMAN ENDOCANNABINOID SYSTEM**
[54] **COMPOSITION PHARMACEUTIQUE A UTILISER EN COMBINAISON AVEC DES CANNABINOIDES POUR AMELIORER LEURS EFFETS DE SOUTIEN DU SYSTEME ENDOCANNABINOIDE HUMAIN**
[72] MONTOYA, JORGE A. MENDOZA, HN
[71] MONTOYA, JORGE A. MENDOZA, HN
[22] 2021-06-29
[41] 2022-03-12
[30] US (63/064,791) 2020-09-12

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[21] **3,124,722**
[13] A1
[51] **Int.Cl. F21V 25/12 (2006.01) F21S 8/02 (2006.01) F21V 15/01 (2006.01) F21V 21/04 (2006.01)**
[25] EN
[54] **FIRE RATED RECESSED LIGHTING FIXTURE**
[54] **APPAREIL D'ECLAIRAGE ENCASTRE IGNIFUGE**
[72] LUPIEN, PIERRE-PAUL, CA
[71] NDR ELECTRIC, CA
[22] 2021-07-15
[41] 2022-03-11
[30] US (63/077,198) 2020-09-11

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[21] **3,126,653**
[13] A1
[51] **Int.Cl. E02F 3/58 (2006.01) E02F 3/60 (2006.01)**
[25] EN
[54] **COMBINED STRUCTURE**
[54] **STRUCTURE COMBINEE**
[72] SONG, KEUN CHUL, KR
[72] RYU, DAE HYUN, KR
[72] LEE, HYUN SOO, KR
[71] SUNGBO INDUSTRIAL CO., LTD., KR
[22] 2021-08-04
[41] 2022-03-10
[30] KR (10-2020-0116234) 2020-09-10

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[21] **3,127,049**
[13] A1
[51] **Int.Cl. A61B 17/068 (2006.01) A61B 17/072 (2006.01)**
[25] EN
[54] **LAPAROSCOPIC TRANSVERSE SURGICAL STAPLING SYSTEM**
[54] **SYSTEME D'AGRAFAGE CHIRURGICAL TRANSVERSAL POUR LAPAROSCOPIE**
[72] FARASCIONI, DAVID M., US
[71] COVIDIEN LP, US
[22] 2021-08-09
[41] 2022-03-08
[30] US (17/014,421) 2020-09-08

[21] **3,128,092**
[13] A1
[51] **Int.Cl. A61B 90/11 (2016.01) A61B 18/18 (2006.01)**
[25] EN
[54] **MICROWAVE ABLATION NEEDLE POSITIONING DEVICE**
[54] **DISPOSITIF DE POSITIONNEMENT D'AIGUILLE D'ABLATION PAR MICRO-ONDES**
[72] DONG, ZHIYI, CN
[72] WANG, LIXIN, CN
[72] XU, LIYUN, CN
[71] SHANGHAI PULMONARY HOSPITAL, CN
[22] 2021-08-12
[41] 2022-03-07
[30] CN (202010926156.8) 2020-09-07

[21] **3,128,308**
[13] A1
[51] **Int.Cl. F16N 31/00 (2006.01) B64D 35/00 (2006.01) F16H 57/04 (2010.01) F16N 1/00 (2006.01)**
[25] FR
[54] **DEVICE FOR SEPARATING AND COLLECTING TWO FLOWS OF LUBRICATION FLUID, EPICYCLIC GEAR TRAIN, POWER TRANSMISSION BOX AND AIRCRAFT**
[54] **DISPOSITIF DE SEPARATION ET DE COLLECTE DE DEUX FLUX D'UN LIQUIDE DE LUBRIFICATION, TRAIN EPICYCLOIDAL D'ENGRENAGES, BOITE DE TRANSMISSION DE PUISSANCE ET AERONEF**
[72] CHARRIER, MATHIEU, FR
[72] LE RU, JOHN, FR
[72] ESCOFFIER, ADRIEN, FR
[71] AIRBUS HELICOPTERS, FR
[22] 2021-08-16
[41] 2022-03-07
[30] FR (2009040) 2020-09-07

[21] **3,128,527**
[13] A1
[51] **Int.Cl. A61M 25/098 (2006.01) A61M 25/00 (2006.01)**
[25] EN
[54] **ELONGATED MEDICAL CATHETER INCLUDING MARKER BAND**
[54] **CATHETER MEDICAL ALLONGE COMPRENANT UN NIVEAU REPERE**
[72] CHEHADE, MOUSSA, CA
[71] BAYLIS MEDICAL COMPANY INC., CA
[22] 2021-08-17
[41] 2022-03-10
[30] US (63/076,535) 2020-09-10

[21] **3,128,576**
[13] A1
[51] **Int.Cl. G06F 16/903 (2019.01)**
[25] EN
[54] **DYNAMIC DATABASE QUERY PROCESSING**
[54] **TRAITEMENT DYNAMIQUE DE RECHERCHE DANS UNE BASE DE DONNEES**
[72] AYMARD, MARINE LUCIE, FR
[72] CHENEVOTOT, SEBASTIEN, FR
[72] GOTTI, LIONEL, FR
[72] MYTYCH, FRANCOIS-JOSEPH, FR
[72] HENNION, FLORIAN, FR
[72] AMADIEU, OLIVIER, FR
[71] AMADEUS S.A.S., FR
[22] 2021-08-18
[41] 2022-03-09
[30] US (17/015,198) 2020-09-09
[30] EP (20 305 996.9) 2020-09-09

[21] **3,128,633**
[13] A1
[51] **Int.Cl. G11B 33/14 (2006.01) G11B 33/08 (2006.01) G11C 99/00 (2006.01)**
[25] EN
[54] **CRASH PROTECTED MEMORY UNIT**
[54] **MEMOIRE PROTEGEE CONTRE LE PLANTAGE**
[72] STEHLE, NIKOLAUS, DE
[72] METZLER, MARKUS, DE
[71] HENSOLDT SENSORS GMBH, DE
[22] 2021-08-19
[41] 2022-03-08
[30] EP (20195125.8) 2020-09-08

[21] **3,128,695**
[13] A1
[51] **Int.Cl. B65D 1/34 (2006.01) A47G 19/03 (2006.01) B32B 7/02 (2019.01) B32B 27/10 (2006.01) B32B 29/06 (2006.01) B65D 1/28 (2006.01) B65D 1/40 (2006.01)**
[25] EN
[54] **PRESS-FORMED DISPOSABLE CONTAINER MADE FROM A LAMINATED PAPERBOARD STRUCTURE**
[54] **CONTENANT JETABLE FORME A LA PRESSE FAIT D'UNE STRUCTURE DE CARTON STRATIFIE**
[72] LITTLEJOHN, MARK B., US
[72] BREINING, MICHAEL A., US
[71] GPCP IP HOLDINGS LLC, US
[22] 2021-08-20
[41] 2022-03-08
[30] US (17/014,791) 2020-09-08

[21] **3,128,835**
[13] A1
[51] **Int.Cl. B66C 13/52 (2006.01) B66C 23/36 (2006.01) B66C 23/62 (2006.01) B66F 9/075 (2006.01) B66F 11/00 (2006.01)**
[25] EN
[54] **ROTARY TELEHANDLER WITH MULTIPLE ASCENT AND DESCENT PATHS**
[54] **CHARIOT TELESCOPIQUE ROTATIF COMPORTANT DE MULTIPLES VOIES DE MONTEE ET DE DESCENTE**
[72] IOTTI, MARCO, IT
[71] MANITOU ITALIA S.R.L., IT
[22] 2021-08-25
[41] 2022-03-08
[30] IT (102020000021244) 2020-09-08

[21] **3,128,850**
[13] A1
[51] **Int.Cl. F03B 3/04 (2006.01) F03B 3/12 (2006.01) F03B 3/16 (2006.01) F03B 11/00 (2006.01)**
[25] EN
[54] **TURBINE ASSEMBLY WITH SELECTIVELY COUPLABLE ROTOR SEGMENTS AND CORRESPONDING METHOD**
[54] **ASSEMBLAGE DE TURBINE AVEC SEGMENTS DE ROTOR A RACCORD SELECTIF ET METHODE CONNEXE**
[72] BUENDIA, ALI EL ZAHER, CA
[71] BUENDIA, ALI EL ZAHER, CA
[22] 2021-08-25
[41] 2022-03-09
[30] US (63/075.873) 2020-09-09

[21] **3,128,983**
[13] A1
[51] **Int.Cl. A01B 76/00 (2006.01) H04N 5/232 (2006.01)**
[25] EN
[54] **AUTO-POSITIONING CAMERA FOR DRAWN IMPLEMENTS**
[54] **CAMERA A POSITIONNEMENT AUTOMATIQUE POUR LES APPAREILS TIRES**
[72] ROTH, DARIN L., US
[72] GRAEVE, JOSHUA D., US
[72] MURRAY, COLE L., US
[71] DEERE & COMPANY, US
[22] 2021-08-26
[41] 2022-03-09
[30] US (17/015,672) 2020-09-09

[21] **3,129,235**
[13] A1
[51] **Int.Cl. A01G 31/02 (2006.01) A01G 31/06 (2006.01)**
[25] EN
[54] **VERTICAL FARMING APPARATUS AND A METHOD OF VERTICAL FARMING**
[54] **APPAREIL ET METHODE D'AGRICULTURE VERTICALE**
[72] MOORE, DAVID JAMES, GB
[71] AGRICULTURE INVESTMENTS LIMITED, GB
[22] 2021-08-27
[41] 2022-03-07
[30] GB (2014046.3) 2020-09-07
[30] GB (2107294.7) 2021-05-21

[21] **3,129,308**
[13] A1
[51] **Int.Cl. B60W 50/00 (2006.01) B60W 40/00 (2006.01)**
[25] EN
[54] **REMOTE INITIALIZATION SYSTEM FOR A VEHICLE SYSTEM**
[54] **SYSTEME D'INITIALISATION A DISTANCE POUR UN SYSTEME DE VEHICULE**
[72] TRIPATHY, JANMEJAY, US
[72] KERNWEIN, JEFFREY D., US
[72] GRIMM, ANN K., US
[72] BURGART, PHILLIP A., US
[71] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
[22] 2021-08-30
[41] 2022-03-11
[30] US (63/077/262) 2020-09-11
[30] US (17/458,841) 2021-08-27

[21] **3,129,473**
[13] A1
[51] **Int.Cl. E01F 13/00 (2006.01) B65G 69/34 (2006.01)**
[25] EN
[54] **GATE SAFETY BARRIER SYSTEM**
[54] **SYSTEME DE BARRIERE DE SURETE POUR PORTAIL**
[72] PALUS, THOMAS, US
[72] MERVIN, TODD, US
[72] KALAVATHI, SUNIL, US
[72] HENSEL, ROBERT J., US
[71] MULTI-FAB PRODUCTS, LLC, US
[22] 2021-08-31
[41] 2022-03-09
[30] US (17//153,422) 2021-01-20
[30] US (63/076,224) 2020-09-09

[21] **3,129,520**
[13] A1
[51] **Int.Cl. B25B 11/00 (2006.01) B25B 23/08 (2006.01) B25H 7/00 (2006.01)**
[25] EN
[54] **A FASTENER SETTING TOOL**
[54] **OUTIL POUR LA POSE D'ATTACHES**
[72] FRIIS, MORTEN, US
[72] NISSEN, ANDERS, US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2021-08-31
[41] 2022-03-09
[30] EP (EP20195370) 2020-09-09
[30] EP (EP20199800) 2020-10-02
[30] EP (EP20206810) 2020-11-10

[21] **3,129,568**
[13] A1
[51] **Int.Cl. H01R 39/08 (2006.01) B23K 9/10 (2006.01) B23K 9/28 (2006.01) B23K 9/29 (2006.01) B23K 9/32 (2006.01)**
[25] EN
[54] **ROTATING POWER CONNECTOR FOR WELDING TORCH CABLES**
[54] **CONNECTEUR D'ALIMENTATION ROTATIF POUR CABLES DE CHALUMEAU SOUDEUR**
[72] MA, TIEJUN, US
[72] COSSETTE, ROMEO, US
[72] BONDY, CRAIG MATTHEW, US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2021-09-01
[41] 2022-03-11
[30] US (63/077,353) 2020-09-11
[30] US (17/411,384) 2021-08-25

[21] **3,129,692**
[13] A1
[51] **Int.Cl. E04B 1/82 (2006.01) E04B 1/98 (2006.01)**
[25] EN
[54] **SOUND DAMPING STRUCTURAL SUPPORT SYSTEM**
[54] **SYSTEME DE SUPPORT STRUCTURAL A ATTENUATION SONORE**
[72] SESSLER, JON, US
[71] SESSLER, JON, US
[22] 2021-09-01
[41] 2022-03-09
[30] US (63/076,238) 2020-09-09
[30] US (17/411,817) 2021-08-25

[21] **3,129,697**
[13] A1
[51] **Int.Cl. E04B 2/58 (2006.01) E04B 1/84 (2006.01)**
[25] EN
[54] **UNITARY DOUBLE STUD ASSEMBLY FOR SOUND DAMPING WALL**
[54] **ASSEMBLAGE DE POTEAUX JUMELES UNITAIRES POUR UN MUR D'ATTENUATION SONORE**
[72] SESSLER, JON, US
[71] SESSLER, JON, US
[22] 2021-09-01
[41] 2022-03-09
[30] US (63/076,241) 2020-09-09
[30] US (17/411,826) 2021-08-25

[21] **3,129,756**
[13] A1
[51] **Int.Cl. E01C 23/16 (2006.01) G09F 19/22 (2006.01) E01F 9/50 (2016.01)**
[25] EN
[54] **INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD, AND ROAD SURFACE MARKING SYSTEM**
[54] **APPAREIL ET METHODE DE TRAITEMENT DE L'INFORMATION ET SYSTEME DE MARQUAGE DE LA SURFACE ROUTIERE**
[72] TANAKA, YURIKA, JP
[72] SAWADA, SHUICHI, JP
[72] SAKURADA, SHIN, JP
[72] BABA, YASUHIRO, JP
[72] MATSUTANI, SHINTARO, JP
[72] MAKINO, TOMOYA, JP
[71] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP
[22] 2021-09-02
[41] 2022-03-07
[30] JP (2020-149936) 2020-09-07

[21] **3,129,808**
[13] A1
[51] **Int.Cl. E06C 7/08 (2006.01) E06C 1/34 (2006.01) E06C 7/50 (2006.01)**
[25] EN
[54] **UTILITY POLE STEP**
[54] **MARCHE DE POTEAU DE SERVICE**
[72] ALBERTYN, GREGORY IAN, US
[71] WESTERN UTILITY SOLUTIONS, INC., US
[22] 2021-09-02
[41] 2022-03-08
[30] US (63/075,608) 2020-09-08

[21] **3,129,859**
[13] A1
[51] **Int.Cl. G06Q 30/00 (2012.01) G06Q 20/32 (2012.01) G06Q 20/36 (2012.01)**
[25] EN
[54] **STORING CUSTOMER IDENTIFIER IN A SMART DEVICE FOR ENABLING ENGAGEMENT WITH AN ENTERPRISE**
[54] **STOCKAGE D'IDENTIFIANT DE CLIENT DANS UN DISPOSITIF INTELLIGENT POUR PERMETTRE L'ENGAGEMENT AVEC UNE ENTREPRISE**
[72] KANNAN, PALLIPURAM, US
[72] RAJSHEKAR, MANOJ, US
[71] [24]7.AI, INC., US
[22] 2021-09-03
[41] 2022-03-09
[30] US (17/016,054) 2020-09-09

[21] **3,130,050**
[13] A1
[25] EN
[54] **MULTIPLE LINK LAYER ADDRESSES FOR A DEVICE**
[54] **MULTIPLES ADRESSES DE COUCHE LIAISON POUR UN DISPOSITIF**
[72] LEPP, JAMES RANDOLPH WINTER, CA
[72] MONTEMURRO, MICHAEL PETER, CA
[72] MCCANN, STEPHEN, CA
[71] BLACKBERRY LIMITED, CA
[22] 2021-09-07
[41] 2022-03-11
[30] US (63/076,967) 2020-09-11
[30] US (17/446,838) 2021-09-03

[21] **3,130,056**
[13] A1
[51] **Int.Cl. H04W 12/06 (2021.01) H04W 4/90 (2018.01) H04W 12/065 (2021.01)**
[25] EN
[54] **AUTHENTICATION USING WIRELESS SENSING**
[54] **AUTHENTIFICATION AU MOYEN DE LA DETECTION SANS FIL**
[72] LEPP, JAMES RANDOLPH WINTER, CA
[72] MONTEMURRO, MICHAEL PETER, CA
[72] MCCANN, STEPHEN, CA
[71] BLACKBERRY LIMITED, CA
[22] 2021-09-07
[41] 2022-03-10
[30] US (63/076,749) 2020-09-10
[30] US (17/446,839) 2021-09-03

[21] **3,130,126**
[13] A1
[51] **Int.Cl. B65B 5/00 (2006.01) A61J 1/16 (2006.01) B65D 77/00 (2006.01) B65D 81/05 (2006.01)**
[25] FR
[54] **SYSTEM AND PROCESS FOR THE PACKAGING OF MEDICAL PLUGS COMPRISING A CAP AND A CLOSURE MEMBER**
[54] **SYSTEME ET PROCEDE D'EMBALLAGE DE BOUCHONS MEDICAUX COMPOSE D'UNE COIFFE ET D'UN OBTURATEUR**
[72] REY, GAETAN, FR
[71] A. RAYMOND ET CIE, FR
[22] 2021-09-08
[41] 2022-03-11
[30] FR (FR2009218) 2020-09-11

[21] **3,130,141**
[13] A1
[51] **Int.Cl. A01C 1/06 (2006.01) C05F 11/00 (2006.01) C09K 17/04 (2006.01)**
[25] EN
[54] **ENCAPSULATED SEED AND METHOD AND APPARATUS FOR MAKING SAME**
[54] **GRAINE ENCAPSULEE ET METHODE ET APPAREIL POUR LA FABRIQUER**
[72] MCKAY, TALBY, CA
[71] MCKAY, TALBY, CA
[22] 2021-09-08
[41] 2022-03-09
[30] US (63/076,162) 2020-09-09

[21] **3,130,145**
[13] A1
[51] **Int.Cl. B65B 7/28 (2006.01) A61G 12/00 (2006.01) B67B 3/20 (2006.01)**
[25] EN
[54] **DEVICES FOR CAPPING VIALS USEFUL IN SYSTEM AND METHOD FOR DISPENSING PRESCRIPTIONS**
[54] **DISPOSITIFS POUR CAPUCHONNER DES FIOLES UTILES DANS UN SYSTEME ET METHODE DE DISTRIBUTION DE PRESCRIPTIONS**
[72] CURL, WELDON, JR, US
[72] CROSS, JOE, US
[71] PARATA SYSTEMS, LLC, US
[22] 2021-09-07
[41] 2022-03-09
[30] US (63/076062) 2020-09-09

[21] **3,130,236**
[13] A1
[51] **Int.Cl. G06F 16/903 (2019.01) G06F 16/901 (2019.01)**
[25] EN
[54] **WEB SERVICES FOR DATA AGGREGATION AND APPLICATION FOR PATH TRAVERSAL IN KNOWLEDGE GRAPHS**
[54] **SERVICES WEB POUR L'AGREGATION DE DONNEES ET L'APPLICATION POUR LA TRAVERSEE DE VOIE DANS LES GRAPHIQUES DE CONNAISSANCES**
[72] MARIKAR, MOHAMMED, CA
[72] SUN, JIAHAO, CA
[72] TONG, JIAXING, CA
[72] JAYAKODY, RYAN, CA
[72] BURANDT, DEREK, CA
[72] GUPTA, JAYASREE, CA
[72] RAO, PRASANTH, CA
[72] WEN, YIZHE, CA
[72] GUIDUCCI, ADAM JAMES, CA
[72] WANG, CHEN HANG, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2021-09-09
[41] 2022-03-09
[30] US (63/076,205) 2020-09-09

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[21] **3,130,294**
[13] A1
[51] **Int.Cl. G01N 27/90 (2021.01)**
[25] EN
[54] **DETECTING STRESS-STRAIN IN METAL COMPONENTS**
[54] **DETECTION DES EFFORTS ET DEFORMATION DANS LES COMPOSANTES EN METAL**
[72] RUSSEL, DAVID, CA
[72] YU, YUWU, CA
[72] SHATAT, AD, CA
[72] KORZ, MARTIN, CA
[71] PIPELINE INSPECTION AND CONDITION ANALYSIS CORPORATION, CA
[22] 2021-09-09
[41] 2022-03-10
[30] US (63/076,606) 2020-09-10

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[21] **3,130,309**
[13] A1
[51] **Int.Cl. B08B 9/055 (2006.01) F16L 55/40 (2006.01)**
[25] EN
[54] **PIPELINE PIGGING APPARATUS AND METHODS OF USE**
[54] **APPAREIL DE RACLAGE DE PIPELINE ET METHODES D'UTILISATION**
[72] BELL, BRIAN, CA
[71] BELL, BRIAN, CA
[22] 2021-09-09
[41] 2022-03-11
[30] US (63/077,061) 2020-09-11

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[21] **3,130,314**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2012.01)**
[25] EN
[54] **ORDER STATE UNIFIED MANAGEMENT METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF DE GESTION UNIFIEE DE L'ETAT DE COMMANDE, MATERIEL INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] XU, XIAOHU, CN
[72] XU, LEI, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-09-09
[41] 2022-03-09
[30] CN (202010942260.6) 2020-09-09

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[21] **3,130,317**
[13] A1
[51] **Int.Cl. G05D 1/02 (2020.01) B60W 60/00 (2020.01) G06V 20/52 (2022.01)**
[25] EN
[54] **INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING SYSTEM, AND INFORMATION PROCESSING METHOD**
[54] **DISPOSITIF, SYSTEME INFORMATIQUE ET METHODE DE TRAITEMENT DE L'INFORMATION**
[72] UENO, TAKAHARU, JP
[72] YAMADA, KENICHI, JP
[72] KOBAYASHI, RYOSUKE, JP
[72] MATSUTANI, SHINTARO, JP
[71] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP
[22] 2021-09-09
[41] 2022-03-11
[30] JP (2020-152803) 2020-09-11

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[21] **3,130,318**
[13] A1
[25] EN
[54] **DATA ACQUISITION DEMAND PROCESSING METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF DE TRAITEMENT DE DEMANDE D'ACQUISITION DE DONNEES, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] LI, XINJIAN, CN
[72] XU, LEI, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-09-09
[41] 2022-03-09
[30] CN (202010943219.0) 2020-09-09

[21] **3,130,319**
[13] A1
[51] **Int.Cl. B26B 15/00 (2006.01) B26B 13/00 (2006.01)**
[25] EN
[54] **BLADE REPLACEMENT MECHANISM OF ELECTRIC INSTRUMENT**
[54] **MECANISME DE REMPLACEMENT DE LAME D'UN INSTRUMENT ELECTRIQUE**
[72] MENG, SHU GONG, US
[72] ZHENG, LI DA, US
[71] TECHTRONIC CORDLESS GP, US
[22] 2021-09-09
[41] 2022-03-10
[30] CN (202021965628.2) 2020-09-10
[30] CN (202120335406.0) 2021-02-05

[21] **3,130,321**
[13] A1
[51] **Int.Cl. E21B 43/119 (2006.01) E21B 43/116 (2006.01)**
[25] EN
[54] **OILFIELD PERFORATING SELF-POSITIONING SYSTEMS AND METHODS**
[54] **SYSTEMES DE POSITIONNEMENT AUTONOMES DE PERFORATION DE CHAMP PETROLIER ET METHODES**
[72] SHELTON, JAMES F., US
[72] ANDRZEJAK, TIMOTHY A., US
[72] LOPEZ DE CARDENAS, JORGE E., US
[71] HARRISON JET GUNS II, L.P., US
[71] RESENTECH, LLC, US
[22] 2021-09-09
[41] 2022-03-10
[30] US (63/076,670) 2020-09-10

[21] **3,130,322**
[13] A1
[51] **Int.Cl. G06Q 30/02 (2012.01) G06V 20/52 (2022.01)**
[25] EN
[54] **MONITORING METHOD, DEVICE AND SYSTEM FOR USER BEHAVIORS IN STORE AND COMPUTER SYSTEM**
[54] **METHODE, DISPOSITIF ET SYSTEME DE SURVEILLANCE DES COMPORTEMENTS DES UTILISATEURS EN MAGASIN ET SYSTEME INFORMATIQUE**
[72] DAI, TING, CN
[72] LIU, SHU, CN
[72] CHENG, JIAJIA, CN
[72] WANG, XIAOGANG, CN
[72] MA, ZHENZHEN, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-09-09
[41] 2022-03-09
[30] CN (202010942975.1) 2020-09-09

[21] **3,130,336**
[13] A1
[51] **Int.Cl. F21V 5/04 (2006.01) F21K 9/00 (2016.01) G02B 27/18 (2006.01) G09F 9/30 (2006.01) G09F 9/33 (2006.01) H01L 23/02 (2006.01) H01L 25/13 (2006.01) H05K 1/18 (2006.01)**
[25] EN
[54] **LIGHT SHAPING ASSEMBLY HAVING A TWO-DIMENSIONAL ARRAY OF LIGHT SOURCES AND A FRESNEL LENS**
[54] **ASSEMBLAGE HOLOGRAPHIQUE AYANT UN RESEAU BIDIMENSIONNEL DE SOURCES LUMINEUSES ET UNE LENTILLE DE FRESNEL**
[72] JALBOUT, BASSAM, CA
[72] WONG, BRIAN, CA
[71] SACO TECHNOLOGIES INC., CA
[22] 2021-09-09
[41] 2022-03-10
[30] US (63/076,784) 2020-09-10

[21] **3,130,337**
[13] A1
[51] **Int.Cl. E01H 5/09 (2006.01)**
[25] EN
[54] **SNOW THROWER**
[54] **SOUFFLEUSE A NEIGE**
[72] LI, SHUHUA, CN
[71] GLOBE (JIANGSU) CO., LTD., CN
[22] 2021-09-08
[41] 2022-03-10
[30] CN (202010945490.8) 2020-09-10
[30] CN (202021966141.6) 2020-09-10

[21] **3,130,344**
[13] A1
[51] **Int.Cl. E21B 43/12 (2006.01) E21B 43/22 (2006.01) F15D 1/02 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR SOLVENT-BASED OR SOLVENT-ENHANCED RECOVERY**
[54] **APPAREIL ET PROCEDES POUR LA RECUPERATION A BASE DE SOLVANT OU AMELIOREE PAR UN SOLVANT**
[72] LASTIWKA, MARTIN, CA
[71] SUNCOR ENERGY INC., CA
[22] 2021-09-10
[41] 2022-03-11
[30] US (63/077,249) 2020-09-11

[21] **3,130,352**
[13] A1
[51] **Int.Cl. E04B 1/94 (2006.01) E04B 1/82 (2006.01)**
[25] EN
[54] **FLUTE PLUG**
[54] **BOUCHON DE FLUTE**
[72] PILZ, DONALD ANTHONY, US
[71] CALIFORNIA EXPANDED METAL PRODUCTS COMPANY, US
[22] 2021-09-09
[41] 2022-03-10
[30] US (63/076,801) 2020-09-10

[21] **3,130,353**
[13] A1
[51] **Int.Cl. G03B 15/00 (2021.01) G03B 15/08 (2021.01) G01G 19/52 (2006.01)**
[25] EN
[54] **COMMODITY INFORMATION ACQUISITION DEVICE**
[54] **DISPOSITIF D'ACQUISITION DE RENSEIGNEMENTS SUR UN BIEN**
[72] JI, SHUNLIN, CN
[72] JI, HUAIYUAN, CN
[72] LIU, SHU, CN
[72] DAI, TING, CN
[72] YIN, HAO, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-09-10
[41] 2022-03-10
[30] CN (202010949349.5) 2020-09-10

---

[21] **3,130,355**
[13] A1
[51] **Int.Cl. A47G 29/30 (2006.01) A47G 29/14 (2006.01) A47J 39/02 (2006.01) B65D 55/02 (2006.01) B65D 55/14 (2006.01) E05G 1/08 (2006.01) F25D 15/00 (2006.01)**
[25] EN
[54] **SECURED DELIVERY BOX**
[54] **BOITE DE LIVRAISON SECURITAIRE**
[72] SCAPPATICCI, ANTHONY, CA
[71] KS2 CORP INC., CA
[71] INFIELD CLIPBOARD INC., CA
[22] 2021-09-10
[41] 2022-03-11
[30] US (63/077,235) 2020-09-11

---

[21] **3,130,356**
[13] A1
[51] **Int.Cl. A47F 10/00 (2006.01)**
[25] EN
[54] **UNMANNED GOODS SHOP**
[54] **BOUTIQUE DE BIENS SANS DETAILLANT**
[72] JI, SHUNLIN, CN
[72] JI, HUAIYUAN, CN
[72] LIU, SHU, CN
[72] DAI, TING, CN
[72] YIN, HAO, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-09-10
[41] 2022-03-10
[30] CN (202010949371.X) 2020-09-10

---

[21] **3,130,359**
[13] A1
[51] **Int.Cl. A61B 50/33 (2016.01) A61J 1/16 (2006.01) B65B 5/06 (2006.01) B65D 21/036 (2006.01) B65D 25/10 (2006.01) B65D 81/133 (2006.01)**
[25] FR
[54] **DELIVERY TRAY AND MEDICAL ITEM PACKAGING SYSTEM**
[54] **PLATEAU DE LIVRAISON ET SYSTEME D'EMBALLAGE D'ELEMENTS MEDICAUX**
[72] REY, GAETAN, FR
[71] A. RAYMOND ET CIE, FR
[22] 2021-09-09
[41] 2022-03-11
[30] FR (FR2009215) 2020-09-11

---

[21] **3,130,365**
[13] A1
[51] **Int.Cl. E21C 35/183 (2006.01)**
[25] EN
[54] **MINERAL BIT AND CUTTING TIP THEREFOR**
[54] **FORET POUR MINERAI ET POINTE DE COUPE CONNEXE**
[72] ZAAYMAN, OSWALD D., US
[71] CARRIERE INDUSTRIAL SUPPLY LIMITED, CA
[22] 2021-09-10
[41] 2022-03-11
[30] US (63/077,015) 2020-09-11

---

[21] **3,130,366**
[13] A1
[51] **Int.Cl. H02J 13/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MANAGING VOLTAGE EVENT ALARMS IN AN ELECTRICAL SYSTEM**
[54] **SYSTEMES ET METHODES DE GESTION D'ALARMES DE TENSION DANS UN SYSTEME ELECTRIQUE**
[72] BICKEL, JON A., US
[71] SCHNEIDER ELECTRIC USA, INC., US
[22] 2021-09-09
[41] 2022-03-11
[30] US (17/018518) 2020-09-11

---

[21] **3,130,367**
[13] A1
[51] **Int.Cl. G02B 27/18 (2006.01) G02B 7/04 (2021.01) G02B 3/08 (2006.01) G02B 5/04 (2006.01)**
[25] EN
[54] **LENS AND PRISM COMBINATION FOR DIRECTING LIGHT TOWARD A PROJECTOR LENS**
[54] **COMBINAISON DE LENTILLE ET DE PRISME POUR DIRIGER LA LUMIERE VERS UNE LENTILLE DE PROJECTEUR**
[72] JALBOUT, BASSAM, CA
[72] WONG, BRIAN, CA
[71] SACO TECHNOLOGIES INC., CA
[22] 2021-09-09
[41] 2022-03-10
[30] US (63/076,784) 2020-09-10

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[21] **3,130,374**
[13] A1
[51] **Int.Cl. G02B 27/09 (2006.01) G02B 17/00 (2006.01) G09F 9/30 (2006.01) H05K 1/18 (2006.01) G02B 3/08 (2006.01)**
[25] EN
[54] **LIGHT SHAPING ELEMENT AND LIGHT SHAPING ASSEMBLY**
[54] **ELEMENT HOLOGRAPHIQUE ET ASSEMBLAGE HOLOGRAPHIQUE**
[72] JALBOUT, BASSAM, CA
[72] WONG, BRIAN, CA
[71] SACO TECHNOLOGIES INC., CA
[22] 2021-09-09
[41] 2022-03-10
[30] US (63/076,784) 2020-09-10

[21] **3,130,378**
[13] A1
[51] **Int.Cl. H05B 47/10 (2020.01) H05B 47/155 (2020.01) G02B 27/09 (2006.01) G02B 27/18 (2006.01)**
[25] EN
[54] **METHOD FOR TRANSMITTING CONTROL INSTRUCTIONS TO A PLURALITY OF RECEIVERS AND RECEIVER ADAPTED TO RECEIVE A LIGHT PIXEL CARRYING THE CONTROL INSTRUCTIONS**
[54] **METHODE DE TRANSMISSION D'INSTRUCTIONS DE COMMANDE A PLUSIEURS RECEPTEURS ET RECEPTEUR ADAPTE A RECEVOIR UN PIXEL DE LUMIERE TRANSPORTANT LES INSTRUCTIONS DE COMMANDE**
[72] JALBOUT, BASSAM, CA
[72] WONG, BRIAN, CA
[71] SACO TECHNOLOGIES INC., CA
[22] 2021-09-09
[41] 2022-03-10
[30] US (63/076,784) 2020-09-10

[21] **3,130,380**
[13] A1
[51] **Int.Cl. F21V 19/00 (2006.01) F21K 9/00 (2016.01) F21V 5/04 (2006.01) G02B 27/18 (2006.01) G09F 9/30 (2006.01) G09F 9/33 (2006.01) H05K 1/18 (2006.01)**
[25] EN
[54] **LIGHT SHAPING ASSEMBLY HAVING LIGHT SOURCES MOUNTED ON A PCB VIA SUPPORTING PINS BENT FOR ORIENTING LIGHT TOWARD A PROJECTOR LENS**
[54] **ASSEMBLAGE HOLOGRAPHIQUE AYANT DES SOURCES LUMINEUSES MONTEES SUR UNE CARTE DE CIRCUITS IMPRIMES A L'AIDE DE BROCHES DE SUPPORT CINTREES POUR ORIENTER LA LUMIERE VERS UNE LENTILLE DE PROJECTEUR**
[72] JALBOUT, BASSAM, CA
[72] WONG, BRIAN, CA
[71] SACO TECHNOLOGIES INC., CA
[22] 2021-09-09
[41] 2022-03-10
[30] US (63/076,784) 2020-09-10

[21] **3,130,381**
[13] A1
[51] **Int.Cl. F22B 37/00 (2006.01) F16L 53/34 (2018.01) F22B 37/38 (2006.01)**
[25] EN
[54] **IMPROVED SYSTEM AND METHOD FOR HEATING STEAM AND CHEMICAL FEED LINES FOR NATURAL GAS POWERED PLANTS**
[54] **SYSTEME ET METHODE AMELIORES POUR CHAUFFER DE LA VAPEUR ET CONDUITES D'ALIMENTATION DE PRODUITS CHIMIQUES POUR DES INSTALLATIONS ALIMENTEES AU GAZ NATUREL**
[72] KOZICH, JOHN, US
[71] INDEECO, LLC, US
[22] 2021-09-10
[41] 2022-03-11
[30] US (63/077,007) 2020-09-11

[21] **3,130,458**
[13] A1
[51] **Int.Cl. F24F 11/63 (2018.01) G06F 12/00 (2006.01)**
[25] EN
[54] **A CONTROL SYSTEM FOR AN HVAC SYSTEM**
[54] **SYSTEME DE COMMANDE POUR SYSTEME CVC**
[72] ATCHISON, SHAUN B., US
[72] BOYD, ANDREW M., US
[71] JOHNSON CONTROLS TYCO IP HOLDINGS LLP, US
[22] 2021-09-10
[41] 2022-03-11
[30] US (63/077281) 2020-09-11

[21] **3,130,474**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23L 19/00 (2016.01) A01H 6/82 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/08 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **TOMATO VARIETY NUN 06043 TOF**
[54] **TOMATE DE VARIETE NUN 06043 TOF**
[72] VECCHIO, FRANCO, IT
[71] NUNHEMS B.V., NL
[22] 2021-09-10
[41] 2022-03-11
[30] US (63/077156) 2020-09-11
[30] US (63/118168) 2020-11-25

[21] **3,130,541**
[13] A1
[51] **Int.Cl. A01D 63/02 (2006.01)**
[25] EN
[54] **ZUSAMMENFASSUNG**
[54] **RESUME**
[72] SUDHUES, STEFFEN, DE
[72] PUTTER, HANS, DE
[72] HARTMANN, CHRISTOPH, DE
[72] TIESSEN, REIMER, DE
[72] POKRIEFKE, MICHAEL, DE
[72] HANSKOTTER, WERNER, DE
[71] CARL GERINGHOFF GMBH & CO. KG, DE
[22] 2021-09-08
[41] 2022-03-08
[30] DE (102020123350. 7) 2020-09-08

[21] **3,130,544**
[13] A1
[51] **Int.Cl. B60S 5/00 (2006.01) G06Q 10/10 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MANAGING REPAIR PROCEDURES FROM DISPARATE SOURCES**
[54] **SYSTEMES ET METHODES POUR GERER LES PROCEDURES DE REPARATION DE SOURCES DIFFERENTES**
[72] MILLIKEN, MIKE, US
[72] BAIERL, SCOTT, US
[72] GASTINEAU, JERRY, US
[72] STRONG, JOHN, US
[72] GENOVESE, PENNY, US
[72] SUSANA, RANDY, US
[72] GUPTA, SARIKA, US
[71] MITCHELL INTERNATIONAL, INC., US
[22] 2021-09-03
[41] 2022-03-08
[30] US (17/015,013) 2020-09-08

[21] **3,130,611**
[13] A1
[51] **Int.Cl. B65G 7/12 (2006.01) A45F 5/00 (2006.01)**
[25] EN
[54] **CARGO CARRYING STRAP SYSTEM**
[54] **SYSTEME DE COURROIE DE TRANSPORT DE MARCHANDISES**
[72] WOLTERS, MARK THEODORE, CA
[71] WOLTERS, MARK THEODORE, CA
[22] 2021-09-04
[41] 2022-03-08
[30] US (63/075,698) 2020-09-08

[21] **3,130,648**
[13] A1
[51] **Int.Cl. G06F 16/24 (2019.01) G06F 16/28 (2019.01)**
[25] EN
[54] **DATA PROCESSING QUERY METHOD AND DEVICE BASED ON OLAP PRE-CALCULATION MODEL**
[54] **METHODE ET DISPOSITIF DE DEMANDE DE TRAITEMENT DE DONNEES FONDES SUR UN MODELE DE PRECALCUL DE TRAITEMENT ANALYTIQUE EN LIGNE**
[72] GUO, XIAOLONG, CN
[72] SUN, QIAN, CN
[72] SANG, QIANG, CN
[72] ZHENG, YAOFENG, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-09-13
[41] 2022-03-11
[30] CN (202010950451.7) 2020-09-11

[21] **3,138,590**
[13] A1
[51] **Int.Cl. F41A 33/02 (2006.01) H05B 47/16 (2020.01) F41A 21/32 (2006.01) G09B 9/00 (2006.01)**
[25] EN
[54] **MUZZLE FLASH SIMULATOR**
[54] **SIMULATEUR DE LUEUR DE DEPART**
[72] CHANG, YUNG-HUI, TW
[71] ACETK CORP LTD., TW
[22] 2021-11-12
[41] 2022-03-11
[30] US (63/122,484) 2020-12-08

PCT Applications Entering the National Phase

Demandes PCT entrant en phase nationale

[21] **3,128,310**
[13] A1
[51] **Int.Cl. A61K 36/185 (2006.01) A61P 31/14 (2006.01) A61P 37/04 (2006.01)**
[25] EN
[54] **CORONAVIRUS THERAPEUTIC AGENT INCLUDING ELAEOCARPUS SYLVESTRIS EXTRACT AS ACTIVE INGREDIENT**
[54] **AGENT THERAPEUTIQUE CONTRE LE CORONAVIRUS COMPRENANT UN EXTRAIT D'ELAEOCARPUS SYLVESTRIS COMME INGREDIENT ACTIF**
[72] KANG, SE CHAN, KR
[72] JEONG, YONG JOON, KR
[72] JEON, HYE LIN, KR
[72] HER, YANG MI, KR
[71] GENENCELL CO., LTD., KR
[85] 2021-08-13
[86] 2021-01-11 (PCT/KR2021/000347)
[87] (3128310)
[30] KR (10-2020-0113730) 2020-09-07

---

[21] **3,131,164**
[13] A1
[51] **Int.Cl. G01R 1/20 (2006.01)**
[25] EN
[54] **CENTRALIZED ECU DEVELOPMENT AND TEST SYSTEM**
[54] **SYSTEME DE CONCEPTION ET D'ESSAI D'UNITE DE COMMANDE ELECTRONIQUE CENTRALISE**
[72] LIU, JI, CN
[72] LI, ZHENKUN, CN
[72] CAI, JIYE, CN
[71] SHANGHAI SHINEROAD AUTOMOBILE TECHNOLOGY CO., LTD., CN
[85] 2022-01-06
[86] 2021-03-18 (PCT/CN2021/081602)
[87] (3131164)
[30] CN (202010932072.5) 2020-09-08

---

[21] **3,131,581**
[13] A1
[51] **Int.Cl. G01M 15/10 (2006.01) G01L 23/24 (2006.01)**
[25] EN
[54] **FAILURE DETECTION METHOD FOR SCR UREA INJECTION DEVICES**
[54] **METHODE DE DETECTION DES DEFAILLANCES DANS LES DISPOSITIFS D'INJECTION D'UREE A REDUCTION CATALYTIQUE SELECTIVE**
[72] CHEN, YIPING, CN
[72] HE, JIAMING, CN
[72] CAI, JIYE, CN
[71] SHANGHAI SHINEROAD AUTOMOBILE TECHNOLOGY CO., LTD, CN
[85] 2022-01-06
[86] 2021-03-18 (PCT/CN2021/081603)
[87] (3131581)
[30] CN (202010945468.3) 2020-09-10

---

[21] **3,133,165**
[13] A1
[51] **Int.Cl. G02C 3/00 (2006.01) A61F 9/02 (2006.01) G02C 3/02 (2006.01)**
[25] EN
[54] **ENHANCED ADHESIVE LENS COVER SET AND GASKET THEREFOR**
[54] **ASSEMBLAGE DE CABOCHON ADHESIF AMELIORE ET JOINT CONNEXE**
[72] KAELIN, DYLAN, CA
[71] KAELIN, DYLAN, CA
[85] 2021-11-27
[86] 2020-11-23 (PCT/CA2020/051591)
[87] (3133165)

---

[21] **3,142,006**
[13] A1
[51] **Int.Cl. G01M 3/28 (2006.01) G01N 21/81 (2006.01)**
[25] EN
[54] **METHOD OF MONITORING OF PRESSURE AND MOISTURE CONTENT IN THE HOLLOW OF A DECOMMISSIONED PIPELINE AND DEVICE FOR IMPLEMENTATION THEREOF**
[54]
[72] IGOREVICH, SHIRYAPOV DMITRIY, RU
[72] ALEKSANDROVICH, LUKIN SERGEY, RU
[72] ANATOLIEVICH, MAYANTS URIY, RU
[72] SERGEEVICH, ALIKHASHKIN ALEKSEY, RU
[71] PUBLICHNOE AKTSIONERNOE OBSCHESTVO "GAZPROM", RU
[85] 2021-12-07
[86] 2020-11-23 (PCT/RU2020/000626)
[87] (3142006)
[30] RU (2020129861) 2020-09-09

[21] **3,146,077**
[13] A1
[51] **Int.Cl. C12Q 1/6806 (2018.01) G16B 25/00 (2019.01) G16B 25/10 (2019.01) G16B 30/00 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SAMPLE PREPARATION, SAMPLE SEQUENCING, AND SEQUENCING DATA BIAS CORRECTION AND QUALITY CONTROL**
[54] **SYSTEMES ET PROCEDES POUR LA PREPARATION D'ECHANTILLONS, LE SEQUENCAGE D'ECHANTILLONS, LA CORRECTION DE BIAIS DE DONNEES DE SEQUENCAGE ET LE CONTROLE DE QUALITE**
[72] NUZHDINA, EKATERINA, RU
[72] BAGAEV, ALEXANDER, RU
[72] CHELUSHKIN, MAKSIM, RU
[72] LOZINSKY, YAROSLAV, RU
[72] MIHEECHEVA, NATALIA, RU
[71] BOSTONGENE CORPORATION, US
[85] 2021-12-30
[86] 2020-07-03 (PCT/IB2020/000928)
[87] (WO2021/028726)
[30] US (62/870,622) 2019-07-03
[30] US (62/991,570) 2020-03-18

[21] **3,146,721**
[13] A1
[51] **Int.Cl. C11D 17/00 (2006.01) C11D 1/825 (2006.01) C11D 1/83 (2006.01) C11D 3/37 (2006.01) C11D 11/00 (2006.01) C11D 17/04 (2006.01)**
[25] EN
[54] **CLEANING COMPOSITION**
[54] **COMPOSITION NETTOYANTE**
[72] SHERRY, ALAN EDWARD, US
[72] POLICICCHIO, NICOLA JOHN, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-02-02
[86] 2020-08-17 (PCT/US2020/070421)
[87] (WO2021/035248)
[30] EP (19192593.2) 2019-08-20

[21] **3,146,722**
[13] A1
[51] **Int.Cl. A47C 7/02 (2006.01) A47C 7/14 (2006.01) A47C 7/34 (2006.01) A47C 9/00 (2006.01)**
[25] EN
[54] **CUSHIONING FOR FURNITURE ITEM**
[54] **REMBOURRAGE POUR ARTICLE DE MOBILIER**
[72] HAHAM, YAACOV, IL
[72] KUDIN AMAR, GALI, IL
[72] SPAANDER, HANNAH, IL
[71] KETER HOME AND GARDEN PRODUCTS LTD, IL
[85] 2022-02-02
[86] 2020-08-04 (PCT/IL2020/050851)
[87] (WO2021/028903)
[30] IL (268638) 2019-08-12

[21] **3,146,728**
[13] A1
[51] **Int.Cl. B66C 1/66 (2006.01) B66F 19/02 (2006.01)**
[25] EN
[54] **ROTATING SUSPENSION POINT FOR USE WITH CONCRETE ANCHORS**
[54] **POINT DE SUSPENSION ROTATIF DESTINE A ETRE UTILISE AVEC DES ANCRAGES EN BETON**
[72] GRUMBERG, MATHIEU, US
[71] SAFWAY SERVICES, LLC, US
[85] 2022-02-02
[86] 2020-07-31 (PCT/US2020/044564)
[87] (WO2021/026014)
[30] US (62/882,378) 2019-08-02

[21] **3,146,729**
[13] A1
[51] **Int.Cl. H04L 9/08 (2006.01) H04L 9/14 (2006.01) H04L 9/32 (2006.01)**
[25] EN
[54] **TWO-FACTOR AUTHENTICATION FOR WIRELESS FIELD DEVICES**
[54] **AUTHENTIFICATION A DEUX FACTEURS POUR DISPOSITIFS DE TERRAIN SANS FIL**
[72] THEN, MATTHEW M., US
[71] ROSEMOUNT INC, US
[85] 2022-02-02
[86] 2020-07-30 (PCT/US2020/044173)
[87] (WO2021/030067)
[30] US (16/536,489) 2019-08-09

[21] **3,146,730**
[13] A1
[51] **Int.Cl. C08J 9/00 (2006.01) B29D 99/00 (2010.01) B29C 44/00 (2006.01) B29C 44/06 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING POLYMETHYL METHACRYLATE RIGID FOAMS AS CORE MATERIALS IN ROTOR BLADES OF WIND POWER PLANTS AND IN BOATBUILDING**
[54] **PROCEDE DE FABRICATION DE MOUSSES RIGIDES DE POLYMETHACRYLATE DE METHYLE COMME MATERIAUX DE NOYAU DANS DES PALES DE ROTOR D'EOLIENNES ET DANS LA CONSTRUCTION NAVALE**
[72] RICHTER, THOMAS, DE
[72] SEIPEL, CHRISTOPH, DE
[72] MA JUNYONG, VINCENT, DE
[72] BECKER, FLORIAN, DE
[72] LANGEL, LISA, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-02-02
[86] 2020-06-24 (PCT/EP2020/067571)
[87] (WO2021/023432)
[30] EP (19190719.5) 2019-08-08

[21] **3,146,732**
[13] A1
[51] **Int.Cl. E04G 3/28 (2006.01) E04G 3/00 (2006.01) E04G 3/18 (2006.01)**
[25] EN
[54] **MONORAIL SYSTEM AND RELATED SCAFFOLD STRUCTURES, SYSTEMS AND METHODS OF USE**
[54] **SYSTEME DE MONORAIL ET STRUCTURES D'ECHAFAUDAGE ASSOCIEES, SYSTEMES ET PROCEDES D'UTILISATION**
[72] GRUMBERG, MATHIEU, US
[71] SAFWAY SERVICES, LLC, US
[85] 2022-02-02
[86] 2020-07-31 (PCT/US2020/044566)
[87] (WO2021/026015)
[30] US (62/882,384) 2019-08-02

[21] **3,146,735**
[13] A1
[51] **Int.Cl. C08L 1/02 (2006.01) C08L 23/26 (2006.01) C08L 101/00 (2006.01)**
[25] EN
[54] **FIBROUS CELLULOSE COMPOSITE RESIN AND PRODUCTION METHOD THEREFOR**
[54] **RESINE COMPOSITE DE CELLULOSE FIBREUSE ET PROCEDE DE PRODUCTION ASSOCIE**
[72] MATSUSUE, IKKO, JP
[72] IMAI, TAKAAKI, JP
[72] OCHIAI, YU, JP
[71] DAIO PAPER CORPORATION, JP
[85] 2022-02-02
[86] 2020-08-24 (PCT/JP2020/031806)
[87] (WO2021/039706)
[30] JP (2019-157359) 2019-08-29

[21] **3,146,741**
[13] A1
[51] **Int.Cl. G06V 10/00 (2022.01) G06V 10/44 (2022.01) G06V 10/82 (2022.01) G06N 3/02 (2006.01) G06N 5/00 (2006.01)**
[25] EN
[54] **METHOD FOR SEMANTIC OBJECT DETECTION WITH KNOWLEDGE GRAPH**
[54] **PROCEDE DE DETECTION D'OBJET SEMANTIQUE AVEC UN GRAPHE DE CONNAISSANCES**
[72] LECUE, FREDDY, CA
[72] BEACH, DAVID, CA
[72] POMMELLET, TANGUY, CA
[71] THALES CANADA INC., CA
[85] 2022-02-02
[86] 2021-02-24 (PCT/IB2021/051560)
[87] (WO2021/171208)
[30] US (62/980,657) 2020-02-24

[21] **3,146,746**
[13] A1
[51] **Int.Cl. C12N 15/82 (2006.01)**
[25] EN
[54] **NOVEL GENETIC LOCI ASSOCIATED WITH EAR ROT RESISTANCE IN MAIZE**
[54] **NOUVEAUX LOCI GENETIQUES ASSOCIES A LA RESISTANCE A LA POURRITURE DE L'EPI DU MAIS**
[72] XU, MINGLIANG, CN
[72] YAO, LISHAN, CN
[72] LI, YANMEI, CN
[72] MA, CHUANYU, CN
[72] TONG, LIXIU, CN
[72] DU, FEILI, CN
[72] LIU, QINGLI, US
[72] BREITINGER, BECKY WELSH, US
[71] CHINA AGRICULTURAL UNIVERSITY, CN
[71] SYNGENTA CROP PROTECTION AG, CH
[85] 2022-02-02
[86] 2020-08-12 (PCT/US2020/045854)
[87] (WO2021/030391)
[30] CN (PCT/CN2019/100801) 2019-08-15

[21] **3,146,747**
[13] A1
[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **SCHEDULING INDICATION METHOD AND DEVICE, AND STORAGE MEDIUM**
[54] **PROCEDE ET DISPOSITIF D'INDICATION D'ORDONNANCEMENT ET SUPPORT DE STOCKAGE**
[72] HU, YOUJUN, CN
[72] DAI, BO, CN
[72] YANG, WEIWEI, CN
[72] FANG, HUIYING, CN
[72] LIU, KUN, CN
[72] BIAN, LUANJIAN, CN
[71] ZTE CORPORATION, CN
[85] 2022-02-02
[86] 2020-07-28 (PCT/CN2020/105121)
[87] (WO2021/023058)
[30] CN (201910718562.2) 2019-08-05

[21] **3,146,749**
[13] A1
[51] **Int.Cl. F16C 33/80 (2006.01) F16J 15/3256 (2016.01) F16J 15/3264 (2016.01) F16C 33/78 (2006.01)**
[25] EN
[54] **LABYRINTH SEAL WITH INTERLOCKING ROTOR AND SEAL CASE INSERT**
[54] **JOINT D'ETANCHEITE A LABYRINTHE, DOTE DE ROTOR DE VERROUILLAGE ET DE PIECE RAPPORTEE DE BOITIER D'ETANCHEITE**
[72] HARGRAVES, JAMES, US
[71] AMSTED RAIL COMPANY, INC., US
[85] 2022-02-02
[86] 2020-08-14 (PCT/US2020/046530)
[87] (WO2021/034720)
[30] US (62/888,004) 2019-08-16

[21] **3,146,750**
[13] A1
[25] EN
[54] **A MEDICAL ALARM RELAY DEVICE FOR THE INCAPACITATED**
[54] **DISPOSITIF RELAIS D'ALARME MEDICALE POUR SUJETS PRESENTANT UNE INCAPACITE**
[72] HOOKWAY, JOHN, NZ
[71] HOOKWAY, JOHN, NZ
[85] 2022-02-02
[86] 2019-07-29 (PCT/NZ2019/050088)
[87] (WO2020/032804)
[30] NZ (744977) 2018-08-06

[21] **3,146,751**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) C07K 14/005 (2006.01) C07K 14/47 (2006.01) C12N 9/22 (2006.01)**
[25] EN
[54] **METHOD FOR TREATING MUSCULAR DYSTROPHY BY TARGETING LAMA1 GENE**
[54] **METHODE DE TRAITEMENT DE LA DYSTROPHIE MUSCULAIRE PAR CIBLAGE DU GENE LAMA1**
[72] QIN, YUANBO, US
[72] YAMAGATA, TETSUYA, US
[71] MODALIS THERAPEUTICS CORPORATION, JP
[85] 2022-02-02
[86] 2020-08-14 (PCT/JP2020/030864)
[87] (WO2021/033635)
[30] US (62/887,863) 2019-08-16
[30] US (63/008,059) 2020-04-10

[21] **3,146,752**
[13] A1
[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/06 (2006.01)**
[25] EN
[54] **CATHETER ADAPTERS**
[54] **ADAPTATEURS DE CATHETER**
[72] SPATARO, JOSEPH, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2022-02-02
[86] 2020-08-18 (PCT/US2020/046833)
[87] (WO2021/034845)
[30] US (62/889,375) 2019-08-20
[30] US (16/993,062) 2020-08-13

[21] **3,146,753**
[13] A1
[51] **Int.Cl. G02B 1/00 (2006.01) B82Y 20/00 (2011.01) G02B 5/00 (2006.01) G02F 1/01 (2006.01)**
[25] EN
[54] **ULTRA-WIDE FIELD-OF-VIEW FLAT OPTICS**
[54] **OPTIQUE PLATE A CHAMP DE VISION ULTRA-LARGE**
[72] HU, JUEJUN, US
[72] GU, TIAN, US
[72] SHALAGINOV, MIKHAIL, US
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[85] 2022-02-02
[86] 2020-06-08 (PCT/US2020/036557)
[87] (WO2021/025759)
[30] US (62/884,645) 2019-08-08
[30] US (62/897,452) 2019-09-09

[21] **3,146,754**
[13] A1
[51] **Int.Cl. A01C 7/10 (2006.01) A01C 7/20 (2006.01) A01C 7/04 (2006.01)**
[25] EN
[54] **PARTICLE DELIVERY ASSEMBLY OF AN AGRICULTURAL ROW UNIT**
[54] **ENSEMBLE DE DISTRIBUTION DE PARTICULES D'UN RAYONNEUR AGRICOLE**
[72] ANDERSON, BRIAN JOHN, US
[72] JOHNSON, CHAD MICHAEL, US
[72] DINNON, PATRICK, US
[72] MACDONALD, GRANT THOMAS, US
[72] ELWING, BRENT DAVID, US
[71] CNH INDUSTRIAL AMERICA LLC, US
[85] 2022-02-02
[86] 2020-08-05 (PCT/US2020/045023)
[87] (WO2021/040976)
[30] US (62/891,723) 2019-08-26

[21] **3,146,759**
[13] A1
[51] **Int.Cl. H01M 4/00 (2006.01) H01M 8/00 (2016.01) H01M 10/00 (2006.01)**
[25] EN
[54] **ION-CONDUCTING STRUCTURES, DEVICES INCLUDING ION-CONDUCTING STRUCTURES, AND METHODS FOR USE AND FABRICATION THEREOF**
[54] **STRUCTURES CONDUCTRICES D'IONS, DISPOSITIFS COMPRENANT DES STRUCTURES CONDUCTRICES D'IONS ET LEURS PROCEDES D'UTILISATION ET DE FABRICATION**
[72] HU, LIANGBING, US
[72] LI, TIAN, US
[72] YANG, CHUNPENG, US
[72] ZHANG, XIN, US
[72] BRIBER, ROBERT M., US
[72] WU, MEILING, US
[71] UNIVERSITY OF MARYLAND, COLLEGE PARK, US
[85] 2022-02-02
[86] 2020-08-21 (PCT/US2020/047460)
[87] (WO2021/035162)
[30] US (62/890,404) 2019-08-22

[21] **3,146,760**
[13] A1
[51] **Int.Cl. B29C 64/112 (2017.01) C12N 5/071 (2010.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B33Y 40/00 (2020.01) B29C 64/245 (2017.01) B29C 64/343 (2017.01) A61L 27/38 (2006.01) A61L 27/54 (2006.01) C12N 5/00 (2006.01)**
[25] EN
[54] **METHOD FOR 3D PRINTING OF VASCULARIZED TISSUES AND ORGANS**
[54] **PROCEDE D'IMPRESSION 3D DE TISSUS ET D'ORGANES VASCULARISES**
[72] SCHAFER, KONSTANZE, DE
[72] SALOMON, ANDREAS, DE
[71] JH HOLDING GMBH, CH
[85] 2022-02-02
[86] 2020-08-03 (PCT/EP2020/071804)
[87] (WO2021/023708)
[30] EP (19189755.2) 2019-08-02

[21] **3,146,765**
[13] A1
[51] **Int.Cl. C12Q 1/6844 (2018.01) C12Q 1/6806 (2018.01)**
[25] EN
[54] **DIAGNOSTIC SYSTEM**
[54] **SYSTEME DE DIAGNOSTIC**
[72] ANDESHMAND, SAYEED, US
[72] CAULEY, THOMAS H. III, US
[72] DIXON, JOHN, US
[72] GLADE, DAVID, US
[72] MAAMAR, HEDIA, US
[72] MCADAMS, MICHAEL JOHN, US
[72] NG, DZAM-SI JESSE, US
[72] ROLFE, DAVID ALEXANDER, US
[71] TALIS BIOMEDICAL CORPORATION, US
[85] 2022-02-02
[86] 2020-08-17 (PCT/US2020/046721)
[87] (WO2021/030812)
[30] US (62/887,469) 2019-08-15
[30] US (16/655,028) 2019-10-16
[30] US (16/655,007) 2019-10-16

[21] **3,146,826**
[13] A1
[51] **Int.Cl. A61K 8/97 (2017.01)**
[25] EN
[54] **SENSITIZATION CREAM COMPRISING L-ARGININE AND L-CITRULLINE AND THERAPEUTIC USES THEREOF**
[54] **CREME DE SENSIBILISATION COMPRENANT DE LA L-ARGININE ET DE LA L-CITRULLINE ET SES UTILISATIONS THERAPEUTIQUES**
[72] DAMAJ, BASSAM, US
[71] INNOVUS PHARMACEUTICALS, INC., US
[85] 2022-02-03
[86] 2020-08-14 (PCT/US2020/046398)
[87] (WO2021/030698)
[30] US (62/886,861) 2019-08-14

[21] **3,146,834**
[13] A1
[51] **Int.Cl. A01B 63/111 (2006.01) A01B 69/00 (2006.01) A01B 76/00 (2006.01) A01B 49/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETECTING LEVELNESS OF TOOLS OF A TILLAGE IMPLEMENT BASED ON MATERIAL FLOW**
[54] **SYSTEME ET PROCEDE DE DETECTION DE NIVEAU D'OUTILS D'UN INSTRUMENT DE TRAVAIL DU SOL SUR LA BASE D'UN ECOULEMENT DE MATERIAU**
[72] BARRICK, CHRISTOPHER, US
[71] CNH INDUSTRIAL AMERICA LLC, US
[85] 2022-02-03
[86] 2020-08-25 (PCT/US2020/047778)
[87] (WO2021/041400)
[30] US (16/551,900) 2019-08-27

[21] **3,146,835**
[13] A1
[51] **Int.Cl. C07H 19/067 (2006.01) A61K 31/7064 (2006.01) A61P 21/00 (2006.01)**
[25] EN
[54] **TREATING MITOCHONDRIAL DNA DEPLETION DISORDERS**
[54] **TRAITEMENT DE TROUBLES D'EPUISEMENT DE L'ADN MITOCHONDRIAL**
[72] CUI, CURTIS LIANJIE, US
[72] PETERSON, WARD, US
[72] YERXA, BENJAMIN ROBINSON, GB
[71] MITORAINBOW THERAPEUTICS, INC., US
[85] 2022-02-03
[86] 2020-09-04 (PCT/US2020/049413)
[87] (WO2021/046355)
[30] US (62/896,218) 2019-09-05

[21] **3,146,837**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/46 (2006.01) A61P 15/00 (2006.01) A61P 15/10 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01) C07D 451/06 (2006.01)**
[25] EN
[54] **COMPOUND FOR COMBINATION TREATMENT**
[54] **COMPOSE POUR TRAITEMENT COMBINE**
[72] SIMONSEN, ULF, DK
[72] COMERMA-STEFFENSEN, SIMON, DK
[72] PETERS, DAN, DK
[71] INITIATOR PHARMA A/S, DK
[85] 2022-02-03
[86] 2020-08-06 (PCT/EP2020/072092)
[87] (WO2021/023805)
[30] EP (19190224.6) 2019-08-06

[21] **3,146,855**
[13] A1
[51] **Int.Cl. A01C 7/20 (2006.01) A01C 7/04 (2006.01)**
[25] EN
[54] **PARTICLE DELIVERY ASSEMBLY OF AN AGRICULTURAL ROW UNIT**
[54] **ENSEMBLE DE DISTRIBUTION DE PARTICULES D'UN RAYONNEUR AGRICOLE**
[72] ANDERSON, BRIAN JOHN, US
[72] JOHNSON, CHAD MICHAEL, US
[72] DINNON, PATRICK, US
[72] MACDONALD, GRANT THOMAS, US
[72] ELWING, BRENT DAVID, US
[71] CNH INDUSTRIAL AMERICA LLC, US
[85] 2022-02-03
[86] 2020-08-05 (PCT/US2020/045034)
[87] (WO2021/040977)
[30] US (62/891,755) 2019-08-26

[21] **3,146,863**
[13] A1
[51] **Int.Cl. C08L 83/10 (2006.01) C08G 77/445 (2006.01)**
[25] EN
[54] **BRANCHED POLYESTER SILOXANES**
[54] **POLYESTER-SILOXANES RAMIFIES**
[72] LEHMANN, KATHRIN, DE
[72] HENNING, FRAUKE, DE
[72] BUSCH, STEFAN, DE
[72] NAWRACALA, ANGELA, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-02-03
[86] 2020-08-03 (PCT/EP2020/071781)
[87] (WO2021/023701)
[30] EP (19190670.0) 2019-08-08

[21] **3,146,864**
[13] A1
[51] **Int.Cl. C09D 131/04 (2006.01) C08F 220/18 (2006.01) C09D 133/08 (2006.01) C09D 133/12 (2006.01)**
[25] EN
[54] **BLEND OF POLYACRYLIC AND POLYVINYL ACETATE LATEXES**
[54] **MELANGE DE LATEX POLYACRYLIQUE ET DE LATEX D'ACETATE DE POLYVINYLE**
[72] ALA, AZIZE, US
[72] DOMBROWSKI, GARY W., US
[72] JACKSON, CATHERYN L., US
[72] MAJUMDAR, PARTHA S., US
[72] PHILLIPS, TERESA A., US
[72] VUONG, SHARON M., US
[72] ARTURO, STEVEN G., US
[71] ROHM AND HAAS COMPANY, US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2022-02-03
[86] 2020-08-04 (PCT/US2020/044818)
[87] (WO2021/030095)
[30] US (62/884,828) 2019-08-09

[21] **3,146,866**
[13] A1
[51] **Int.Cl. A01H 5/00 (2018.01) C07K 14/415 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **MODIFIED EXOPOLYSACCHARIDE RECEPTORS FOR RECOGNIZING AND STRUCTURING MICROBIOTA**
[54] **RECEPTEURS D'EXOPOLYSACCHARIDES MODIFIES POUR LA RECONNAISSANCE ET LA STRUCTURATION DE MICROBIOTE**
[72] ANDERSEN, KASPER ROJKJÆR, DK
[72] KELLY, SIMON, DK
[72] WONG, MEI MEI JASLYN ELIZABETH, DK
[72] GYSEL, KIRA, DK
[72] RADUTOIU, SIMONA, DK
[72] TAO, KE, DK
[72] HANSEN, SIMON BOJE, DK
[72] STOUGAARD, JENS, DK
[72] ZHANG, SHA, DK
[71] AARHUS UNIVERSITY, DK
[85] 2022-02-03
[86] 2020-08-19 (PCT/EP2020/073164)
[87] (WO2021/032769)
[30] US (62/888,944) 2019-08-19

[21] **3,146,869**
[13] A1
[51] **Int.Cl. C07C 405/00 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PREPARATION OF A NITRIC OXIDE DONATING PROSTAGLANDIN ANALOGUE**
[54] **PROCEDE DE PREPARATION D'UN ANALOGUE DE PROSTAGLANDINE DONNEUR D'OXYDE NITRIQUE**
[72] ALMIRANTE, NICOLETTA, IT
[71] NICOX S.A., FR
[85] 2022-02-03
[86] 2020-08-03 (PCT/EP2020/071766)
[87] (WO2021/023693)
[30] EP (19189993.9) 2019-08-05

[21] **3,146,873**
[13] A1
[51] **Int.Cl. F25B 7/00 (2006.01)**
[25] EN
[54] **MICROBIAL COMPOSITIONS FOR THE PREVENTION OR REDUCTION OF GROWTH OF FUNGAL PATHOGENS ON PLANTS**
[54] **COMPOSITIONS MICROBIENNES POUR LA PREVENTION OU LA REDUCTION DE LA CROISSANCE D'AGENTS PATHOGENES FONGIQUES SUR DES PLANTES**
[72] GARCIA, VERONICA, US
[72] ANDRIKOPOULOS, SOPHIA, US
[72] FROLAND, JENSINA, US
[72] TRINIDAD, KELLY, US
[72] PIAMONTE, CHRISTY, US
[72] PEARCE, JAMES, US
[72] BACHER, JAMIE, US
[72] BECKER, NATHANIEL T., US
[72] VIRAG, ALEKSANDRA, US
[72] BEDEKAR, AMRUTA J., US
[72] MALINICH, ELIZABETH A., US
[71] BOOST BIOMES, INC., US
[85] 2022-02-03
[86] 2020-08-13 (PCT/US2020/046165)
[87] (WO2021/030577)
[30] US (62/886,883) 2019-08-14

[21] **3,146,874**
[13] A1
[51] **Int.Cl. B01D 21/24 (2006.01) B01D 46/54 (2006.01) B01D 61/20 (2006.01) F04B 43/00 (2006.01) F16K 7/12 (2006.01) G05B 19/02 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND METHODS FOR CONTINUOUS PROCESSING WITH ALTERNATING TANGENTIAL FLOW**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DE TRAITEMENT CONTINU AVEC ECOULEMENT TANGENTIEL ALTERNATIF**
[72] PERREAULT, MARK A., US
[71] REPLIGEN CORPORATION, US
[85] 2022-02-03
[86] 2020-07-28 (PCT/US2020/043838)
[87] (WO2021/025901)
[30] US (62/882,783) 2019-08-05

[21] **3,146,875**
[13] A1
[51] **Int.Cl. E02F 9/26 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETERMINING PART WEAR USING A BOUNDING MODEL**
[54] **PROCEDES ET SYSTEMES PERMETTANT DE DETERMINER L'USURE D'UNE PIECE A L'AIDE D'UN MODELE DE DELIMITATION**
[72] CAMPOMANES, PATRICK S., US
[72] HARTOONIAN, GRAHAM R., US
[72] MCCAFFREY, BRANDON H., US
[71] CATERPILLAR INC., US
[85] 2022-02-03
[86] 2020-07-17 (PCT/US2020/042494)
[87] (WO2021/030005)
[30] US (16/537,269) 2019-08-09

[21] **3,146,876**
[13] A1
[51] **Int.Cl. B01D 53/06 (2006.01) B01D 53/26 (2006.01) F04B 39/16 (2006.01)**
[25] EN
[54] **DRYER FOR COMPRESSED GAS, COMPRESSOR INSTALLATION PROVIDED WITH A DRYER AND A METHOD FOR DRYING COMPRESSED GAS**
[54] **SECHEUR POUR GAZ COMPRIME, INSTALLATION DE COMPRESSEUR EQUIPE D'UN SECHEUR ET PROCEDE DE SECHAGE DE GAZ COMPRIME**
[72] CREPAIN, THIBAULT, BE
[72] HELLEMANS, GEERT, BE
[72] HERMANS, HANS, BE
[71] ATLAS COPCO AIRPOWER, NV, BE
[85] 2022-02-03
[86] 2020-08-14 (PCT/IB2020/057663)
[87] (WO2021/033101)
[30] BE (BE2019/5536) 2019-08-16
[30] BE (BE2019/5537) 2019-08-16
[30] BE (BE2019/5538) 2019-08-16

[21] **3,146,877**
[13] A1
[51] **Int.Cl. E21B 43/12 (2006.01) F04D 13/10 (2006.01) F04D 25/06 (2006.01) F04D 29/046 (2006.01)**
[25] EN
[54] **INTERMEDIATE BEARING IN ELECTRICAL SUBMERSIBLE PUMP**
[54] **PALIER INTERMEDIAIRE DANS UNE POMPE ELECTRIQUE SUBMERSIBLE**
[72] YE, ZHENG, US
[72] RUTTER, RISA, US
[72] LACK, RYAN ANTHONY, US
[72] IVES, JASON, US
[71] BAKER HUGHES OILFIELD OPERATIONS, LLC, US
[85] 2022-02-03
[86] 2020-08-11 (PCT/US2020/045761)
[87] (WO2021/030345)
[30] US (62/885,649) 2019-08-12
[30] US (16/985,877) 2020-08-05

[21] **3,146,880**
[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/00 (2020.01) A61K 9/72 (2006.01) A61K 31/4045 (2006.01) A61K 36/185 (2006.01)**
[25] EN
[54] **DELIVERY SYSTEM FOR AYAHUASCA-LIKE SUBSTANCES**
[54] **SYSTEME D'ADMINISTRATION DE SUBSTANCES DE TYPE AYAHUASCA**
[72] ELLIS, GREGORY, US
[71] ELLIS, GREGORY, US
[85] 2022-02-03
[86] 2021-07-18 (PCT/US2021/042123)
[87] (WO2022/026223)
[30] US (63/058,444) 2020-07-29
[30] US (63/144,923) 2021-02-02

[21] **3,146,882**
[13] A1
[51] **Int.Cl. C22C 38/02 (2006.01) C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/16 (2006.01) H01F 1/147 (2006.01)**
[25] EN
[54] **CU-CONTAINING NON-ORIENTED ELECTRICAL STEEL PLATE AND MANUFACTURING METHOD THEREFOR**
[54] **TOLE D'ACIER ELECTRIQUE NON ORIENTEE CONTENANT DU CU ET SON PROCEDE DE FABRICATION**
[72] ZHANG, FENG, CN
[72] WANG, BO, CN
[72] SHEN, KANYI, CN
[72] LIU, BAOJUN, CN
[72] LI, GUOBAO, CN
[72] CHU, SHUANGJIE, CN
[71] BAOSHAN IRON & STEEL CO., LTD., CN
[85] 2022-02-03
[86] 2020-08-26 (PCT/CN2020/111406)
[87] (WO2021/037064)
[30] CN (201910791206.3) 2019-08-26

[21] **3,146,883**
[13] A1
[51] **Int.Cl. C12N 15/67 (2006.01) C12N 15/117 (2010.01) A61K 39/39 (2006.01)**
[25] EN
[54] **MODIFIED CIRCULAR RNAS AND METHODS OF USE THEREOF**
[54] **ARN CIRCULAIRES MODIFIES ET LEURS PROCEDES D'UTILISATION**
[72] CHANG, HOWARD Y., US
[72] CHEN, ROBERT, US
[72] AMAYA, LAURA, US
[72] CHEN, CHUN-KAN, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2022-02-03
[86] 2020-08-26 (PCT/US2020/047995)
[87] (WO2021/041541)
[30] US (62/892,776) 2019-08-28

[21] **3,146,884**
[13] A1
[51] **Int.Cl. B62D 55/088 (2006.01) B62D 55/15 (2006.01)**
[25] EN
[54] **THREADED IDLER BLOCK CAP**
[54] **CAPUCHON DE BLOC-TENDEUR FILETE**
[72] DONLAN, ZACHARY T., US
[72] DUMITRU, MIRCEA, US
[71] CATERPILLAR INC., US
[85] 2022-02-03
[86] 2020-07-22 (PCT/US2020/042949)
[87] (WO2021/030012)
[30] US (16/539,278) 2019-08-13

[21] **3,146,885**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **A METHOD FOR DIAGNOSING OR MONITORING KIDNEY FUNCTION OR DIAGNOSING KIDNEY DYSFUNCTION IN PEDIATRIC PATIENTS**
[54] **PROCEDE DE DIAGNOSTIC OU DE SURVEILLANCE DE LA FONCTION RENALE OU DE DIAGNOSTIC D'UNE DYSFONCTION RENALE CHEZ DES PATIENTS PEDIATRIQUES**
[72] BERGMANN, ANDREAS, DE
[72] DE WILDT, SASKIA, NL
[71] SPHINGOTEC GMBH, DE
[85] 2022-02-03
[86] 2020-08-14 (PCT/EP2020/072916)
[87] (WO2021/028582)
[30] EP (19191968.7) 2019-08-15

[21] **3,146,887**
[13] A1
[51] **Int.Cl. A01B 61/04 (2006.01) A01B 63/111 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MONITORING SHANK FLOAT**
[54] **SYSTEME ET PROCEDE DE SURVEILLANCE DE FLOTTEMENT DE TIGE**
[72] KOVACH, MICHAEL G., US
[71] CNH INDUSTRIAL AMERICA LLC, US
[85] 2022-02-03
[86] 2020-08-26 (PCT/US2020/047965)
[87] (WO2021/041520)
[30] US (16/555,398) 2019-08-29

[21] **3,146,888**
[13] A1
[51] **Int.Cl. C22C 38/02 (2006.01) C21D 8/12 (2006.01) C22C 33/04 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01)**
[25] EN
[54] **600MPA GRADE NON-ORIENTED ELECTRICAL STEEL SHEET AND MANUFACTURING METHOD THEREOF**
[54] **TOLE MAGNETIQUE EN ACIER NON ORIENTEE DE QUALITE 600 MPA ET SON PROCEDE DE FABRICATION**
[72] ZHANG, FENG, CN
[72] LIU, BAOJUN, CN
[72] LI, JUN, CN
[72] WANG, BO, CN
[72] SHEN, KANYI, CN
[72] LI, GUOBAO, CN
[71] BAOSHAN IRON & STEEL CO., LTD, CN
[85] 2022-02-03
[86] 2020-08-26 (PCT/CN2020/111402)
[87] (WO2021/037061)
[30] CN (201910790407.1) 2019-08-26

[21] **3,146,890**
[13] A1
[51] **Int.Cl. F04B 23/06 (2006.01) E21B 43/20 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **HYDRAULIC DRIVE TRAIN FOR A FRAC PUMP**
[54] **TRAIN D'ENTRAINEMENT HYDRAULIQUE POUR POMPE DE FRACTURATION**
[72] BAYYOUK, JACOB A., US
[72] WAGNER, BRYAN C., US
[72] CLARK, WESLEY P., US
[71] SPM OIL & GAS INC., US
[85] 2022-02-03
[86] 2020-07-28 (PCT/US2020/043913)
[87] (WO2021/030048)
[30] US (62/886,263) 2019-08-13

[21] **3,146,892**
[13] A1
[51] **Int.Cl. D01F 2/28 (2006.01) G01N 21/25 (2006.01) G01N 31/12 (2006.01) G01N 31/16 (2006.01)**
[25] EN
[54] **CELLULOSE ACETATE TOW WITH HIGH DPF AND LOW TITANIUM DIOXIDE CONTENT**
[54] **CABLE D'ACETATE DE CELLULOSE A HAUT DPF ET A FAIBLE TENEUR EN DIOXYDE DE TITANE**
[72] BLANKENSHIP, SUSAN, US
[72] AMTOWER, DIRK, US
[72] COMBS, MICHAEL, US
[72] BUNDREN, CHRISTOPHER, US
[72] ZAZZARA, KAREN, US
[71] ACETATE INTERNATIONAL LLC, US
[85] 2022-02-03
[86] 2020-04-17 (PCT/US2020/028796)
[87] (WO2021/040816)
[30] US (62/892,306) 2019-08-27

[21] **3,146,893**
[13] A1
[51] **Int.Cl. E21B 43/22 (2006.01)**
[25] EN
[54] **ADDITIVE FOR ENHANCED OIL RECOVERY**
[54] **ADDITIF POUR RECUPERATION AMELIOREE DU PETROLE**
[72] PATIL, PRAMOD, US
[72] CHURCHFIELD, MECHELLE, US
[72] GAO, PENG, CN
[72] KNIGHT, TROY E., US
[72] YU, WANGLIN, US
[72] KATIYAR, AMIT, US
[72] ROHILLA, NEERAJ, IN
[72] MUKHERJEE, BIPLAB, US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2022-02-03
[86] 2019-08-15 (PCT/CN2019/100780)
[87] (WO2021/026883)

[21] **3,146,894**
[13] A1
[51] **Int.Cl. C08J 9/00 (2006.01) C08F 2/44 (2006.01) C08J 9/06 (2006.01) C08L 33/12 (2006.01) C08F 220/14 (2006.01)**
[25] EN
[54] **PMMA-BASED CAST POLYMERS HAVING IMPROVED MECHANICAL PROPERTIES**
[54] **POLYMERES COULES A BASE DE PMMA AYANT DES PROPRIETES MECANIQUES AMELIOREES**
[72] RICHTER, THOMAS, DE
[72] SEIPEL, CHRISTOPH, DE
[72] BERNHARD, KAY, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-02-03
[86] 2020-07-03 (PCT/EP2020/068757)
[87] (WO2021/023444)
[30] EP (19190732.8) 2019-08-08

[21] **3,146,897**
[13] A1
[51] **Int.Cl. H04B 7/185 (2006.01) H04B 7/204 (2006.01)**
[25] EN
[54] **NARROW BAND INTERNET OF THINGS COMMUNICATIONS OVER A SATELLITE COMMUNICATION SYSTEM**
[54] **COMMUNICATIONS A BANDE ETROITE DE L'INTERNET DES OBJETS SUR UN SYSTEME DE COMMUNICATION PAR SATELLITE**
[72] CHEN, LIPING, US
[72] LEE, LIN-NAN, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2022-02-03
[86] 2020-08-04 (PCT/US2020/044820)
[87] (WO2021/026113)
[30] US (16/534,807) 2019-08-07

[21] **3,146,903**
[13] A1
[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 39/00 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **MODIFIED CYTOTOXIC T CELLS AND METHODS OF USE THEREOF**
[54] **LYMPHOCYTES T CYTOXIQUES MODIFIES ET LEURS PROCEDES D'UTILISATION**
[72] SURI, ANISH, US
[71] CUE BIOPHARMA, INC., US
[85] 2022-02-03
[86] 2020-10-22 (PCT/US2020/056901)
[87] (WO2021/081232)
[30] US (62/925,111) 2019-10-23

[21] **3,146,908**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 9/14 (2006.01) A61K 31/198 (2006.01) A61K 31/7028 (2006.01) A61K 36/61 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **OLFACTORY DELIVERY OF THERAPEUTIC COMPOUNDS TO THE CENTRAL NERVOUS SYSTEM**
[54] **ADMINISTRATION OLFACTIVE DE COMPOSES THERAPEUTIQUES AU SYSTEME NERVEUX CENTRAL**
[72] FARMER, SEAN, US
[72] ALIBEK, KEN, US
[71] LOCUS IP COMPANY, LLC, US
[85] 2022-02-03
[86] 2020-08-08 (PCT/US2020/045545)
[87] (WO2021/030232)
[30] US (62/885,231) 2019-08-10

[21] **3,146,914**
[13] A1
[51] **Int.Cl. G10L 15/22 (2006.01) G06F 3/16 (2006.01)**
[25] EN
[54] **NETWORK MICROPHONE DEVICE WITH COMMAND KEYWORD CONDITIONING**
[54] **DISPOSITIF DE MICROPHONE RESEAU AVEC CONDITIONNEMENT DE MOTS-CLES DE COMMANDE**
[72] SMITH, CONNOR, US
[72] TOLOMEI, JOHN, US
[72] SOTO, KURT, US
[71] SONOS, INC., US
[85] 2022-02-03
[86] 2020-06-11 (PCT/US2020/037229)
[87] (WO2020/252163)
[30] US (16/439,009) 2019-06-12

[21] **3,146,915**
[13] A1
[51] **Int.Cl. A23C 11/10 (2021.01)**
[25] EN
[54] **FERMENTED COMPOSITIONS AND PROCESSES OF PREPARING THE SAME**
[54] **COMPOSITIONS FERMENTEES ET LEURS PROCEDES DE PREPARATION**
[72] LARRERE, FANNY, FR
[72] DEPIERRIS, ANNE, FR
[72] MARCHAL, LAURENT, FR
[71] COMPAGNIE GERVAIS DANONE, FR
[85] 2022-02-03
[86] 2020-08-07 (PCT/IB2020/000666)
[87] (WO2021/028724)
[30] US (62/884,854) 2019-08-09
[30] US (62/886,031) 2019-08-13

[21] **3,146,916**
[13] A1
[51] **Int.Cl. B32B 37/10 (2006.01) E04F 15/02 (2006.01)**
[25] EN
[54] **A PRESSING EQUIPMENT, A PLANT AND A METHOD FOR FORMING A FLOOR ELEMENT**
[54] **EQUIPEMENT DE PRESSAGE, INSTALLATION ET PROCEDE DE FORMATION D'UN ELEMENT DE PLANCHER**
[72] GIANNAZZO, FELIPE, US
[72] CASELLI, CLAUDIO, US
[72] PATKI, RAHUL, US
[71] DAL-TILE CORPORATION, US
[85] 2022-02-03
[86] 2020-09-14 (PCT/US2020/050615)
[87] (WO2021/055261)
[30] US (16/572,944) 2019-09-17

[21] **3,146,917**
[13] A1
[51] **Int.Cl. C07K 14/74 (2006.01) A61K 47/50 (2017.01) A61P 37/02 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **T-CELL MODULATORY CHIMERIC MOLECULES AND METHODS OF USE THEREOF**
[54] **MOLECULES CHIMERES MODULATRICES DE LYMPHOCYTES T ET LEURS PROCEDES D'UTILISATION**
[72] SURI, ANISH, US
[71] CUE BIOPHARMA, INC., US
[85] 2022-02-03
[86] 2020-10-22 (PCT/US2020/056908)
[87] (WO2021/081239)
[30] US (62/925,115) 2019-10-23

[21] **3,146,919**
[13] A1
[51] **Int.Cl. A01C 1/06 (2006.01) A01C 7/06 (2006.01) A01C 7/10 (2006.01) A01C 7/20 (2006.01) A01C 23/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR REDUCING DUST DEVELOPMENT IN PRECISION DRILL SOWING**
[54] **APPAREIL ET PROCEDE POUR REDUIRE LA PRODUCTION DE POUSSIERE DANS LE SEMIS DE PRECISION**
[72] RICKARD, JAMIE, CH
[72] LUPFER, CHRISTOPHE, CH
[72] GRIMM, CHRISTOPH, CH
[71] SYNGENTA PARTICIPATIONS AG, CH
[85] 2022-02-03
[86] 2020-08-14 (PCT/EP2020/072890)
[87] (WO2021/032634)
[30] EP (19192908.2) 2019-08-21

[21] **3,146,926**
[13] A1
[51] **Int.Cl. E03D 1/30 (2006.01) E03D 1/24 (2006.01)**
[25] EN
[54] **IMPROVED TOILET FLUSHING SYSTEM**
[54] **CHASSE D'EAU AMELIOREE POUR TOILETTES**
[72] PRASAD, HARI, US
[71] PRASAD, HARI, US
[85] 2022-02-03
[86] 2020-08-06 (PCT/US2020/045277)
[87] (WO2021/026389)
[30] US (16/533,776) 2019-08-06

[21] **3,146,927**
[13] A1
[51] **Int.Cl. A23C 11/10 (2021.01)**
[25] EN
[54] **FERMENTED PLANT-BASED PROBIOTIC COMPOSITIONS AND PROCESSES OF PREPARING THE SAME**
[54] **COMPOSITIONS PROBIOTIQUES A BASE DE PLANTES FERMENTEES ET PROCEDES DE PREPARATION DE CELLES-CI**
[72] LARRERE, FANNY, FR
[72] MARCHAL, LAURENT, FR
[71] COMPAGNIE GERVAIS DANONE, FR
[85] 2022-02-03
[86] 2020-08-07 (PCT/IB2020/000669)
[87] (WO2021/028725)
[30] US (62/884,854) 2019-08-09

[21] **3,146,928**
[13] A1
[51] **Int.Cl. G01K 7/38 (2006.01)**
[25] EN
[54] **TEMPERATURE CONTROL USING APPLIED ELECTROMAGNETIC FIELDS**
[54] **REGULATION DE TEMPERATURE A L'AIDE DE CHAMPS ELECTROMAGNETIQUES APPLIQUES**
[72] ISRANI, SAMEER H., US
[72] DU, XIAOTANG, US
[72] JAMPALA, SOUJANYA N., US
[72] GIRARD, JOHN M., US
[72] ZHOU, KEQIN, US
[71] PRAXAIR TECHNOLOGY, INC., US
[85] 2022-02-03
[86] 2020-08-13 (PCT/US2020/046140)
[87] (WO2021/034596)
[30] US (62/887,849) 2019-08-16

[21] **3,146,930**
[13] A1
[51] **Int.Cl. C01G 53/04 (2006.01) C01B 32/20 (2017.01) B01J 2/22 (2006.01) C01D 17/00 (2006.01) C01G 45/02 (2006.01) C01G 51/04 (2006.01)**
[25] EN
[54] **IMPROVED MICROGRANULATION METHODS AND PRODUCT PARTICLES THEREFROM**
[54] **PROCEDES DE MICROGRANULATION AMELIORES ET PARTICULES DE PRODUIT OBTENUES A PARTIR DE CEUX-CI**
[72] OBROVAC, MARK, CA
[72] ZHENG, LITUO, CA
[72] GARAYT, MATTHEW, CA
[71] NOVONIX BATTERY TECHNOLOGY SOLUTIONS INC., CA
[85] 2022-02-03
[86] 2020-07-24 (PCT/US2020/043621)
[87] (WO2021/040932)
[30] US (62/893,787) 2019-08-29
[30] US (62/946,938) 2019-12-11
[30] US (63/020,526) 2020-05-05

[21] **3,146,932**
[13] A1
[51] **Int.Cl. E04B 1/19 (2006.01) E04B 1/24 (2006.01) E04B 1/38 (2006.01) E04B 1/58 (2006.01) E04H 12/00 (2006.01)**
[25] EN
[54] **COLUMN-TO-BEAM CONNECTION SYSTEMS INCLUDING A SHEAR COMPONENT**
[54] **SYSTEMES DE RACCORDEMENT COLONNE-POUTRE COMPRENANT UN ELEMENT DE CISAILLEMENT**
[72] RICHARDS, PAUL WILLIAM, US
[71] DURAFUSE FRAMES, LLC, US
[85] 2022-02-03
[86] 2020-08-05 (PCT/US2020/044982)
[87] (WO2021/030111)
[30] US (62/884,901) 2019-08-09

[21] **3,146,933**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 49/16 (2006.01) A61K 51/10 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **RADIOLABELED MET BINDING PROTEINS FOR IMMUNO-PET IMAGING**
[54] **PROTEINES DE LIAISON DE MET RADIOMARQUEES POUR IMAGERIE IMMUNO-TEP**
[72] KELLY, MARCUS, US
[72] MA, DANGSHE, US
[72] OLSON, WILLIAM, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-02-03
[86] 2020-09-15 (PCT/US2020/050865)
[87] (WO2021/055350)
[30] US (62/901,003) 2019-09-16

[21] **3,146,934**
[13] A1
[51] **Int.Cl. C01G 53/00 (2006.01) H01M 4/00 (2006.01)**
[25] EN
[54] **LITHIUM TRANSITION METAL OXIDE AND PRECURSOR PARTICULATES AND METHODS**
[54] **MATIERES PARTICULAIRES DE PRECURSEURS ET D'OXYDE DE METAL DE TRANSITION AU LITHIUM, ET PROCEDES ASSOCIES**
[72] ZHENG, LITUO, CA
[72] OBROVAC, MARK, CA
[71] NOVONIX BATTERY TECHNOLOGY SOLUTIONS INC., CA
[85] 2022-02-03
[86] 2020-08-24 (PCT/US2020/047597)
[87] (WO2021/041296)
[30] US (62/893,787) 2019-08-29
[30] US (62/946,938) 2019-12-11
[30] US (63/020,526) 2020-05-05
[30] US (PCT/US2020/043599) 2020-07-24

[21] **3,146,937**
[13] A1
[51] **Int.Cl. A61B 8/12 (2006.01) A61B 8/00 (2006.01) A61B 8/08 (2006.01)**
[25] EN
[54] **MEDICAL SHEATH AND SYSTEMS AND METHODS FOR USING MEDICAL SHEATH**
[54] **GAINE MEDICALE ET SYSTEMES ET PROCEDES D'UTILISATION DE GAINE MEDICALE**
[72] DAVIES, GARETH, CA
[71] BAYLIS MEDICAL COMPANY INC., CA
[85] 2022-02-03
[86] 2020-08-14 (PCT/IB2020/057685)
[87] (WO2021/028882)
[30] US (62/886,534) 2019-08-14

[21] **3,146,940**
[13] A1
[51] **Int.Cl. A61B 5/352 (2021.01) A61B 5/333 (2021.01) A61B 5/349 (2021.01)**
[25] EN
[54] **FACILITATING A CARDIAC RHYTHM DISORDER DIAGNOSIS WITH THE AID OF A DIGITAL COMPUTER**
[54] **FACILITATION DU DIAGNOSTIC D'UN TROUBLE DU RYTHME CARDIAQUE A L'AIDE D'UN ORDINATEUR NUMERIQUE**
[72] DAW, SHAWNI L., US
[72] EPPS, BRIAN W., US
[72] BARDY, GUST H., US
[72] DREISBACH, EZRA M., US
[72] BOLEYN, RODNEY, US
[71] BARDY DIAGNOSTICS, INC., US
[85] 2022-02-03
[86] 2020-08-07 (PCT/US2020/045501)
[87] (WO2021/030216)
[30] US (16/537,408) 2019-08-09

[21] **3,146,943**
[13] A1
[51] **Int.Cl. A01G 13/06 (2006.01) A01G 9/24 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR COOLING AND/OR HEATING PLANT ROOTS**
[54] **SYSTEME ET PROCEDE DE REFROIDISSEMENT ET/OU DE CHAUFFAGE DE RACINES DE PLANTES**
[72] VISSER, JOHANNES NICOLAAS, NL
[71] VIRIDI HOLDING B.V., NL
[85] 2022-02-03
[86] 2020-08-07 (PCT/NL2020/050502)
[87] (WO2021/025559)
[30] NL (2023619) 2019-08-08

[21] **3,146,944**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61M 31/00 (2006.01)**
[25] EN
[54] **BIOERODIBLE CROSS-LINKED HYDROGEL IMPLANTS AND RELATED METHODS OF USE**
[54] **IMPLANTS D'HYDROGEL RETICULE BIOERODABLE ET METHODES D'UTILISATION ASSOCIEES**
[72] HUGHES, PATRICK MICHAEL, US
[72] MUSTAFAJ, INA, US
[71] DOSE MEDICAL CORPORATION, US
[85] 2022-02-03
[86] 2020-08-05 (PCT/US2020/044975)
[87] (WO2021/026214)
[30] US (62/883,493) 2019-08-06

[21] **3,146,948**
[13] A1
[51] **Int.Cl. A61K 38/20 (2006.01) C07K 14/54 (2006.01)**
[25] EN
[54] **METHOD FOR INCREASING LYMPHOCYTE COUNT BY USING IL-7 FUSION PROTEIN IN TUMORS**
[54] **METHODE PERMETTANT D'AUGMENTER LA NUMERATION LYMPHOCYTAIRE EN UTILISANT UNE PROTEINE DE FUSION D'IL-7 DANS DES TUMEURS**
[72] SUNG, YOUNG CHUL, KR
[72] WOO, JUNG WON, KR
[72] HEO, MIN KYU, KR
[72] YANG, SANG IN, KR
[72] YANG, SEHWAN, US
[71] GENEXINE, INC., KR
[71] NEOIMMUNE TECH, INC., US
[85] 2022-02-03
[86] 2020-09-04 (PCT/US2020/049483)
[87] (WO2021/046404)
[30] US (62/895,787) 2019-09-04
[30] US (62/935,828) 2019-11-15

[21] **3,146,950**
[13] A1
[51] **Int.Cl. G16H 50/20 (2018.01)**
[25] EN
[54] **SYSTEMS, METHODS AND APPARATUS FOR PREVENTION OF INJURY**
[54] **SYSTEMES, METHODES ET APPAREIL DE PREVENTION CONTRE UNE LESION**
[72] MARTINEAU, PAUL, CA
[71] CONSULTATION SEMPERFORM INC., CA
[85] 2022-02-03
[86] 2020-07-16 (PCT/IB2020/000593)
[87] (WO2021/024036)
[30] US (16/532,450) 2019-08-05

[21] **3,146,985**
[13] A1
[51] **Int.Cl. A61M 16/04 (2006.01)**
[25] EN
[54] **MEDICAMENT DELIVERY DEVICE**
[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENTS**
[72] COMMAROTO, COREY, US
[72] ACKERMAN, KATE, US
[71] ONY BIOTECH INC., US
[85] 2022-02-04
[86] 2019-08-09 (PCT/US2019/045830)
[87] (WO2021/029849)

[21] **3,146,989**
[13] A1
[51] **Int.Cl. A23L 5/10 (2016.01) A23L 19/00 (2016.01) A23N 1/00 (2006.01) A23N 7/00 (2006.01) A47J 44/00 (2006.01)**
[25] EN
[54] **DEVICE FOR THE DELIVERY OF PRODUCTS PROCESSED FROM FRESH FRUITS AND /OR VEGETABLES**
[54] **DISPOSITIF POUR LA DISTRIBUTION DE PRODUITS TRANSFORMES A PARTIR DE FRUITS ET/OU LEGUMES FRAIS**
[72] GIANNOPOULOS, PANAGIOTIS, GR
[71] GIANNOPOULOS, PANAGIOTIS, GR
[85] 2022-02-04
[86] 2019-04-16 (PCT/GR2019/000030)
[87] (WO2020/212716)

[21] **3,147,006**
[13] A1
[51] **Int.Cl. A63F 9/24 (2006.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED METHODS AND REGULATED GAMING MACHINES CONFIGURED FOR COORDINATED PLACEMENT OF COMMERCIAL MESSAGES**
[54] **PROCEDES MIS EN ?UVRE PAR ORDINATEUR ET MACHINES DE JEU REGLEMENTEES, CONFIGUREES POUR UN PLACEMENT COORDONNE DE MESSAGES COMMERCIAUX**
[72] WASHINGTON, GEORG M., US
[72] MILLER, AARON M., US
[71] SYNERGY BLUE, LLC, US
[85] 2022-02-04
[86] 2020-07-30 (PCT/US2020/044321)
[87] (WO2021/025961)
[30] US (16/534,655) 2019-08-07

[21] **3,147,009**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01)**
[25] EN
[54] **SINGLE NUCLEOTIDE POLYMORPHISMS AND USES THEREOF**
[54] **POLYMORPHISMES MONONUCLEOTIDIQUES ET LEURS UTILISATIONS**
[72] GARCIA, JOE G.N., US
[71] THE ARIZONA BOARD OF REGENTS ON BEHALF OF THE UNIVERSITY OF ARIZONA, US
[85] 2022-02-04
[86] 2020-08-07 (PCT/US2020/045476)
[87] (WO2021/026487)
[30] US (62/883,934) 2019-08-07

[21] **3,147,020**
[13] A1
[51] **Int.Cl. C07K 16/18 (2006.01)**
[25] EN
[54] **ANTI-NAMPT ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-NAMPT ET LEURS UTILISATIONS**
[72] GARCIA, JOE G.N., US
[72] MACCANN, DARRAGH, IE
[71] AQUALUNG THERAPEUTICS CORP., US
[85] 2022-02-04
[86] 2020-08-07 (PCT/US2020/045511)
[87] (WO2021/026508)
[30] US (62/883,952) 2019-08-07

[21] **3,147,022**
[13] A1
[51] **Int.Cl. A61D 17/00 (2006.01) A01K 29/00 (2006.01)**
[25] EN
[54] **APPARATUS, SYSTEM AND METHOD FOR MONITORING A CONDITION**
[54] **APPAREIL, SYSTEME ET PROCEDE POUR SURVEILLER UN ETAT DE SANTE**
[72] PENTY, EDWARD, GB
[71] PENTY, EDWARD, GB
[85] 2022-02-04
[86] 2020-08-28 (PCT/GB2020/052062)
[87] (WO2021/038235)
[30] GB (1912384.3) 2019-08-29

[21] **3,147,023**
[13] A1
[51] **Int.Cl. C12M 1/38 (2006.01) C12Q 1/686 (2018.01)**
[25] EN
[54] **ULTRA-RAPID PCR DETECTION SYSTEM AND DETECTION METHOD**
[54] **SYSTEME DE TEST DE REACTION PCR RAPIDE ET PROCEDE DE TEST**
[72] ZHOU, RONG, CN
[72] LIU, WENKUAN, CN
[72] LI, XIAO, CN
[72] WANG, XIANHUA, CN
[72] XU, HUI, CN
[72] ZHOU, ZHICHAO, CN
[72] GAO, WENJUAN, CN
[72] LI, LEI, CN
[72] LIAO, XIAOHONG, CN
[71] GIRM BIOSAFETY TECHNOLOGY CO. LTD., CN
[85] 2022-02-04
[86] 2020-08-13 (PCT/CN2020/108969)
[87] (WO2021/027891)
[30] CN (201910742089.1) 2019-08-13

[21] **3,147,024**
[13] A1
[51] **Int.Cl. A01G 7/06 (2006.01) A01H 3/00 (2006.01) A01H 17/00 (2006.01) A01N 63/00 (2020.01) C12N 1/20 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MICROBIAL COMPOSITIONS FOR USE WITH PLANTS FOR THE PREVENTION OR REDUCTION OF FUNGAL PATHOGENS**
[54] **COMPOSITIONS MICROBIENNES DESTINEES A ETRE UTILISEES AVEC DES PLANTES POUR LA PREVENTION OU LA REDUCTION D'AGENTS PATHOGENES FONGIQUES**
[72] GARCIA, VERONICA, US
[72] ANDRIKOPOULOS, SOPHIA, US
[72] FROLAND, JENSINA, US
[72] TRINIDAD, KELLY, US
[72] PIAMONTE, CHRISTY, US
[72] PEARCE, JAMES, US
[72] BACHER, JAMIE, US
[71] BOOST BIOMES, INC., US
[85] 2022-02-04
[86] 2020-08-07 (PCT/US2020/045426)
[87] (WO2021/030195)
[30] US (62/885,114) 2019-08-09

[21] **3,147,045**
[13] A1
[51] **Int.Cl. A61F 9/008 (2006.01) A61N 5/067 (2006.01)**
[25] EN
[54] **PHOTOACTIVATION SYSTEMS AND METHODS FOR CORNEAL CROSS-LINKING TREATMENTS**
[54] **SYSTEMES ET METHODES DE PHOTOACTIVATION POUR DES TRAITEMENTS DE RETICULATION CORNEENNE**
[72] ADLER, DESMOND C., US
[72] SMIRNOV, MIKHAIL, US
[72] USHER, DAVID, US
[72] TAVAKOL, BEHROUZ, US
[72] HILL, JASON, US
[72] ZHANG, JIE, US
[72] MUKERJEE, AMIT, US
[72] YILDIZYAN, ALEX, US
[71] AVEDRO, INC., US
[85] 2022-02-04
[86] 2020-08-06 (PCT/US2020/045299)
[87] (WO2021/026405)
[30] US (62/883,197) 2019-08-06

[21] **3,147,047**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61M 15/00 (2006.01) A61M 16/00 (2006.01) G01F 1/00 (2022.01)**
[25] EN
[54] **DOSE MEASURING DEVICE AND METHOD IN INHALERS**
[54] **DISPOSITIF ET PROCEDE DE MESURE DE DOSE DANS DES INHALATEURS**
[72] ESTEBAN GORGOJO, IGNACIO, ES
[72] LAGUNA GALARZA, EDUARDO, ES
[72] CALVO FERNANDEZ, ALBERTO, ES
[71] IGNCYERTO S.L., ES
[85] 2022-02-04
[86] 2020-07-28 (PCT/EP2020/071222)
[87] (WO2021/037462)
[30] ES (P201930752) 2019-08-23

[21] **3,147,050**
[13] A1
[51] **Int.Cl. A61F 9/007 (2006.01)**
[25] EN
[54] **REDUCED VIBRATION VITRECTOMY PROBE**
[54] **SONDE DE VITRECTOMIE A VIBRATIONS REDUITES**
[72] REYES, NATHANIEL, US
[72] UNDERWOOD, JOHN R., US
[71] ALCON, INC., CH
[85] 2022-02-04
[86] 2020-09-09 (PCT/IB2020/058376)
[87] (WO2021/053467)
[30] US (62/900,756) 2019-09-16

[21] **3,147,052**
[13] A1
[51] **Int.Cl. G06K 9/00 (2022.01) G16H 10/60 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD OF UTILIZING COMPUTER-AIDED IDENTIFICATION WITH MEDICAL PROCEDURES**
[54] **SYSTEME ET PROCEDE D'UTILISATION D'IDENTIFICATION ASSISTEE PAR ORDINATEUR AVEC PROCEDURES MEDICALES**
[72] WITTNEBEL, MICHAEL, DE
[72] KERN, OLIVER, DE
[71] ALCON, INC., CH
[85] 2022-02-04
[86] 2020-08-31 (PCT/IB2020/058108)
[87] (WO2021/048680)
[30] US (62/899,988) 2019-09-13

[21] **3,147,055**
[13] A1
[51] **Int.Cl. A61K 31/445 (2006.01) A61P 3/00 (2006.01)**
[25] EN
[54] **METHODS OF TREATING FABRY DISEASE IN PATIENTS HAVING A MUTATION IN THE GLA GENE**
[54] **METHODES DE TRAITEMENT DE LA MALADIE DE FABRY CHEZ LES PATIENTS PORTEURS D'UNE MUTATION DU GENE GLA**
[72] BENJAMIN, ELFRIDA, US
[72] WU, XIAOYANG, US
[71] AMICUS THERAPEUTICS, INC., US
[85] 2022-02-04
[86] 2020-08-07 (PCT/US2020/045392)
[87] (WO2021/026447)
[30] US (62/883,756) 2019-08-07
[30] US (62/986,297) 2020-03-06

[21] **3,147,061**
[13] A1
[51] **Int.Cl. E02F 3/40 (2006.01) A01B 23/02 (2006.01) E02F 9/28 (2006.01) E21C 35/183 (2006.01)**
[25] EN
[54] **RETAINER SLEEVE DESIGN WITH ANTI-ROTATION FEATURES FOR A GROUND ENGAGING TOOL**
[54] **CONCEPTION DE MANCHON DE RETENUE A ELEMENTS ANTI-ROTATION POUR UN OUTIL DE MISE EN PRISE AVEC LE SOL**
[72] SERRURIER, DOUGLAS C., US
[72] SINN, ERIC T., US
[72] JURA, JASON GRANT, US
[72] WELLS, COREY MICHAEL, US
[71] CATERPILLAR INC., US
[85] 2022-02-04
[86] 2020-07-20 (PCT/US2020/042701)
[87] (WO2021/034433)
[30] US (62/887,745) 2019-08-16

[21] **3,147,064**
[13] A1
[51] **Int.Cl. H01R 4/66 (2006.01) H01R 13/648 (2006.01) H01R 13/652 (2006.01) H02G 13/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ELECTRICAL EARTHING SYSTEMS**
[54] **SYSTEMES ET PROCEDES POUR DES SYSTEMES ELECTRIQUES DE MISE A LA TERRE**
[72] LABARGE, THOMAS EVAN, US
[72] WYSONG, GORDON J., US
[72] BROCCOLI, JOHN LOUIS, US
[72] BELK, JOHN H., US
[71] GLXT HOLDINGS, LLC, US
[85] 2022-02-04
[86] 2020-08-06 (PCT/US2020/045129)
[87] (WO2021/026308)
[30] US (62/883,300) 2019-08-06

[21] **3,147,065**
[13] A1
[51] **Int.Cl. A01K 67/033 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR BREEDING, IN PARTICULAR FOR BREEDING INSECTS**
[54] **DISPOSITIF ET PROCEDE D'ELEVAGE, EN PARTICULIER D'ELEVAGE D'INSECTES**
[72] NGO, GIA TIEN, DE
[72] SHALATI, ROHI, DE
[71] NGO, GIA TIEN, DE
[71] SHALATI, ROHI, DE
[85] 2022-02-04
[86] 2020-05-14 (PCT/DE2020/100419)
[87] (WO2021/023327)
[30] DE (10 2019 121 102.6) 2019-08-05

[21] **3,147,066**
[13] A1
[51] **Int.Cl. G06Q 30/00 (2012.01)**
[25] EN
[54] **TECHNOLOGIES FOR CONTENT PRESENTATION**
[54] **TECHNOLOGIES DE PRESENTATION DE CONTENU**
[72] BATKIN, ANDY, US
[72] HERMAN, GARY, US
[72] HANNON, MICHAEL, US
[71] DURATION MEDIA LLC, US
[85] 2022-02-04
[86] 2020-08-06 (PCT/US2020/045284)
[87] (WO2021/026394)
[30] US (62/497,324) 2019-08-06

[21] **3,147,067**
[13] A1
[51] **Int.Cl. C23C 22/77 (2006.01) B05D 3/02 (2006.01) B05D 5/00 (2006.01) B05D 7/14 (2006.01) B05D 7/24 (2006.01)**
[25] EN
[54] **RUST-PROOFING TREATMENT METHOD, AND RUST-PROOFING-TREATED ARTICLE**
[54] **PROCEDE DE TRAITEMENT ANTIROUILLE ET ARTICLE TRAITE CONTRE LA ROUILLE**
[72] KOMATSUZAKI, TAKUMI, JP
[72] TAMAKI, SATORU, JP
[71] NOF METAL COATINGS ASIA PACIFIC CO.,LTD., JP
[85] 2022-02-04
[86] 2020-09-23 (PCT/JP2020/035851)
[87] (WO2021/060294)
[30] JP (2019-174904) 2019-09-26

[21] **3,147,070**
[13] A1
[51] **Int.Cl. H04N 21/242 (2011.01) H04N 21/43 (2011.01) H04N 21/8547 (2011.01)**
[25] EN
[54] **SYSTEM AND METHOD OF MEASURING DELAY BETWEEN TRANSMITTED AUDIO AND VIDEO SIGNALS**
[54] **SYSTEME ET PROCEDE DE MESURE DE RETARD ENTRE DES SIGNAUX AUDIO ET VIDEO EMIS**
[72] BUTTERS, JEFFREY R., GB
[71] GRASS VALLEY LIMITED, GB
[85] 2022-02-04
[86] 2020-08-04 (PCT/GB2020/051866)
[87] (WO2021/023988)
[30] US (62/883,022) 2019-08-05

[21] **3,147,071**
[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01)**
[25] EN
[54] **METHODS OF TREATMENT**
[54] **PROCEDES DE TRAITEMENT**
[72] LI, PENG, US
[72] DAVIS, ROBERT, US
[71] INTRA-CELLULAR THERAPIES, INC., US
[85] 2022-02-04
[86] 2020-09-03 (PCT/US2020/049248)
[87] (WO2021/046250)
[30] US (62/895,476) 2019-09-03

[21] **3,147,072**
[13] A1
[51] **Int.Cl. E04B 9/08 (2006.01) E04B 9/12 (2006.01) E04B 9/30 (2006.01)**
[25] EN
[54] **BUILDING PERIMETER SYSTEM**
[54] **SYSTEME PERIPHERIQUE DE BATIMENT**
[72] UNDERKOFLER, ABRAHAM M., US
[72] GULBRANDSEN, PEDER J., US
[72] PAULSEN, MARK R., US
[72] O'DONNELL, MICHAEL P., US
[71] USG INTERIORS, LLC, US
[85] 2022-02-04
[86] 2020-08-13 (PCT/US2020/046174)
[87] (WO2021/034608)
[30] US (16/545,183) 2019-08-20

[21] **3,147,076**
[13] A1
[51] **Int.Cl. B01D 45/08 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR CONTROLLING OIL/EMULSION MIST POLLUTION AND FUMES**
[54] **DISPOSITIF ET PROCEDE POUR COMMANDER LA POLLUTION ET LES FUMEES DE BROUILLARD D'HUILE/EMULSION**
[72] SALAZAR, ABRAHAM J., US
[71] GIFFIN, INC., US
[85] 2022-02-04
[86] 2020-08-06 (PCT/US2020/045153)
[87] (WO2021/026323)
[30] US (62/883,940) 2019-08-07

[21] **3,147,077**
[13] A1
[51] **Int.Cl. C12N 15/10 (2006.01) C12Q 1/6806 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/686 (2018.01) C12N 15/11 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR SINGLE-CELL ANALYSIS FOR DETERMINING A CELL TRAJECTORY**
[54] **PROCEDE ET APPAREIL D'ANALYSE DE CELLULES UNIQUES POUR LA DETERMINATION D'UNE TRAJECTOIRE CELLULAIRE**
[72] RUFF, DAVID, US
[72] DHINGRA, DALIA, US
[72] OOI, AIK, US
[72] MENDEZ, PEDRO, US
[71] MISSION BIO, INC., US
[85] 2022-02-04
[86] 2020-08-05 (PCT/US2020/045001)
[87] (WO2021/026228)
[30] US (62/882,750) 2019-08-05

[21] **3,147,078**
[13] A1
[51] **Int.Cl. C07H 19/056 (2006.01) A61K 31/7056 (2006.01) A61P 11/00 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **(2-ACETAMIDYL)THIO-BETA-D-GALACTOPYRANOSIDE DERIVATIVES**
[54] **DERIVES DE (2-ACETAMIDYLE)THIO-BETA-D-GALACTOPYRANOSIDE**
[72] BOLLI, MARTIN, CH
[72] BUR, DANIEL, CH
[72] GATFIELD, JOHN, CH
[72] GRISOSTOMI, CORINNA, CH
[72] REMEN, LUBOS, CH
[72] ZUMBRUNN, CORNELIA, CH
[71] IDORSIA PHARMACEUTICALS LTD, CH
[85] 2022-02-04
[86] 2020-08-06 (PCT/EP2020/072197)
[87] (WO2021/028323)
[30] EP (PCT/EP2019/071399) 2019-08-09

[21] **3,147,080**
[13] A1
[51] **Int.Cl. C09D 5/00 (2006.01)**
[25] EN
[54] **LOW TEMPERATURE CURE COATING COMPOSITION**
[54] **COMPOSITIONS DE REVETEMENT DURCISSABLES A BASSE TEMPERATURE**
[72] SWARUP, SHANTI, US
[72] CAMERANO, JOSE ANTONIO, DE
[72] KLAEGER, WOLFGANG, DE
[72] SADVARY, RICHARD J., US
[72] SEILER, BEATE, DE
[72] LANDIS, CHAD A., US
[72] HARRIS, CAROLINE S., US
[72] MIZUHARA, TSUKASA, US
[72] ZHOU, HONGYING, US
[71] PPG INDUSTRIES OHIO, INC., US
[85] 2022-02-04
[86] 2020-08-05 (PCT/US2020/044936)
[87] (WO2021/026192)
[30] US (16/531,400) 2019-08-05
[30] US (62/946,160) 2019-12-10

[21] **3,147,081**
[13] A1
[51] **Int.Cl. B29C 31/06 (2006.01) B08B 5/04 (2006.01) B29B 7/80 (2006.01)**
[25] EN
[54] **SELF-CLEANING GRAVIMETRIC AND VOLUMETRIC DOSING APPARATUSES**
[54] **APPAREILS DE DOSAGE GRAVIMETRIQUE ET VOLUMETRIQUE AUTONETTOYANTS**
[72] MARGALIT, ELI, IL
[71] AMPACET CORPORATION, US
[85] 2022-02-04
[86] 2020-08-05 (PCT/US2020/045036)
[87] (WO2021/026253)
[30] IL (268544) 2019-08-06

[21] **3,147,082**
[13] A1
[51] **Int.Cl. A61K 31/7056 (2006.01) A61P 11/00 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01) C07H 19/056 (2006.01)**
[25] EN
[54] **(HETERO)ARYL-METHYL-THIO-BETA-D-GALACTOPYRANOSIDE DERIVATIVES**
[54] **DERIVES (HETERO)ARYL-METHYL-THIO-BETA-D-GALACTOPYRANOSIDE**
[72] BOLLI, MARTIN, CH
[72] BUR, DANIEL, CH
[72] GATFIELD, JOHN, CH
[72] GRISOSTOMI, CORINNA, CH
[72] REMEN, LUBOS, CH
[72] ZUMBRUNN, CORNELIA, CH
[71] CIPO, CA
[71] IDORSIA PHARMACEUTICALS LTD, CH
[85] 2022-02-04
[86] 2020-08-07 (PCT/EP2020/072238)
[87] (WO2021/028336)
[30] EP (PCT/EP2019/071416) 2019-08-09

[21] **3,147,085**
[13] A1
[51] **Int.Cl. G06T 7/00 (2017.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROCESSING IMAGES OF SLIDES FOR DIGITAL PATHOLOGY**
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT D'IMAGES DE DIAPOSITIVES POUR UNE PATHOLOGIE NUMERIQUE**
[72] LOCK, JASON, US
[72] SUE, JILLIAN, US
[72] SCHUEFFLER, PETER, US
[72] IZURIETA-HERRERA, JOSE SEBASTIAN, US
[71] PAIGE.AI, INC., US
[85] 2022-02-04
[86] 2020-09-08 (PCT/US2020/049698)
[87] (WO2021/050421)
[30] US (62/897,745) 2019-09-09

[21] **3,147,086**
[13] A1
[51] **Int.Cl. H04W 40/04 (2009.01)**
[25] EN
[54] **SECURE VIRTUAL PRIVATE MOBILE AND IP NETWORK IN CLOUD**
[54] **RESEAU MOBILE PRIVE VIRTUEL SECURISE ET RESEAU IP EN NUAGE**
[72] TYAGI, ANIRUDH, US
[72] KAMAR, MOHAMED, US
[72] CASEM, DAVID, US
[71] TELNYX LLC, US
[85] 2022-02-04
[86] 2020-02-28 (PCT/US2020/020312)
[87] (WO2021/029910)
[30] US (62/886,471) 2019-08-14

[21] **3,147,813**
[13] A1
[51] **Int.Cl. G10L 15/26 (2006.01) G10L 17/02 (2013.01) G10L 17/22 (2013.01) G10L 19/16 (2013.01) G11B 20/10 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM OF GENERATING AND TRANSMITTING A TRANSCRIPT OF VERBAL COMMUNICATION**
[54] **PROCEDE ET SYSTEME DE GENERATION ET DE TRANSMISSION DE TRANSCRIPTION DE COMMUNICATION VERBALE**
[72] BONSER, IMRAN, AU
[72] REHANI, LARA, HK
[71] KWB GLOBAL LIMITED, CN
[85] 2022-02-11
[86] 2020-08-14 (PCT/AU2020/050854)
[87] (WO2021/026617)
[30] AU (2019902964) 2019-08-15

[21] **3,150,106**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2012.01) G06Q 10/06 (2012.01) G07C 1/10 (2006.01)**
[25] EN
[54] **REPORTING LOGIN GEO-LOCATION FOR GEO-FENCED REMO TE CLOCK-IN/CLOCK-OUT VERIFICATION OF A REMOTE EMPLOYMENT MANAGEMENT SYSTEM**
[54] **RAPPORT DE GEOLOCALISATION D'OUVERTURE DE SESSION POUR UNE VERIFICATION D'ENTREE/SORTIE A DISTANCE GEOREPEREE D'UN SYSTEME DE GESTION DU PERSONNEL A DISTANCE**
[72] CARZOLI, ROBERT E., US
[71] PROCREWZ, INC., US
[85] 2022-02-07
[86] 2020-08-05 (PCT/US2020/045063)
[87] (WO2021/026271)
[30] US (62/883,564) 2019-08-06

[21] **3,150,109**
[13] A1
[51] **Int.Cl. A61B 18/18 (2006.01)**
[25] EN
[54] **MICROWAVE ABLATION PROBE**
[54] **SONDE D'ABLATION PAR MICRO-ONDES**
[72] MOSESOV, OLEG F., US
[72] KOLEMANN, DANIEL T., US
[71] BIOCOMPATIBLES UK LIMITED, GB
[85] 2022-02-07
[86] 2020-08-07 (PCT/US2020/045440)
[87] (WO2021/026471)
[30] US (62/883,989) 2019-08-07

[21] **3,150,115**
[13] A1
[51] **Int.Cl. F02M 25/08 (2006.01) B01D 53/02 (2006.01) B01D 53/04 (2006.01)**
[25] EN
[54] **SORBENT DEVICES FOR AIR INTAKES**
[54] **DISPOSITIFS SORBANTS POUR PRISES D'AIR**
[72] GREENBANK, MICHAEL, US
[72] ADOMAITIS, MATTHEW, US
[72] MUTSCHLER, SCOTT, US
[71] CALGON CARBON CORPORATION, US
[85] 2022-02-07
[86] 2020-08-10 (PCT/US2020/045642)
[87] (WO2021/026535)
[30] US (62/884,458) 2019-08-08

[21] **3,150,125**
[13] A1
[51] **Int.Cl. A61G 7/05 (2006.01) A61G 12/00 (2006.01)**
[25] EN
[54] **PATIENT SUPPORT APPARATUSES WITH NURSE CALL CONNECTION DETECTION**
[54] **APPAREILS D'ASSISTANCE AU PATIENT AVEC DETECTION DE CONNEXION D'APPEL INFIRMIER**
[72] BODURKA, ALEXANDER JOSEF, US
[72] TREPANIER, JERALD A., US
[72] BHIMAVARAPU, KRISHNA SANDEEP, US
[72] KUEBLER, SCOTT, US
[71] STRYKER CORPORATION, US
[85] 2022-02-07
[86] 2020-09-03 (PCT/US2020/049125)
[87] (WO2021/046171)
[30] US (62/896,075) 2019-09-05

[21] **3,150,159**
[13] A1
[51] **Int.Cl. C09K 8/42 (2006.01) C04B 20/00 (2006.01) C04B 28/02 (2006.01)**
[25] EN
[54] **MULTIFUNCTIONAL ADDITIVE FOR USE IN WELLBORE SERVICING**
[54] **ADDITIF MULTIFONCTIONNEL POUR UTILISATION DANS L'ENTRETIEN D'UN PUITS DE FORAGE**
[72] AN, JUN SU, US
[72] HELANDER, JASON, US
[72] SCHUBER, PAUL, US
[72] MORDH, ANDREW, US
[72] SWANSON, TOM, US
[72] ARCEO, CHRIS, US
[72] LAPEROUSE, DAVID, US
[72] CRIMMINS, WILLIAM, US
[71] SOLUGEN, INC., US
[85] 2022-02-04
[86] 2020-08-12 (PCT/US2020/046031)
[87] (WO2021/030505)
[30] US (62/885,684) 2019-08-12
[30] US (62/885,688) 2019-08-12
[30] US (62/890,738) 2019-08-23

[21] **3,150,161**
[13] A1
[51] **Int.Cl. A61K 8/11 (2006.01) A61K 8/31 (2006.01) A61K 8/33 (2006.01)**
[25] EN
[54] **NON-ACTIVATED, AMORPHOUS, PH NEUTRAL, TWO-PART BEDSIDE-READY CLAY DELIVERY SYSTEM THAT TREATS PATHOGEN INFECTIONS IN HUMANS AND ANIMALS**
[54] **SYSTEME D'ADMINISTRATION D'ARGILE ACCESSIBLE AU CHEVET, AMORPHE, NON ACTIVEE, A PH NEUTRE, EN DEUX PARTIES, QUI TRAITE DES INFECTIONS PATHOGENES CHEZ LES ETRES HUMAINS ET LES ANIMAUX**
[72] MCCORD, DARLENE E., US
[71] MCCORD, DARLENE E., US
[85] 2022-02-04
[86] 2020-08-13 (PCT/US2020/046109)
[87] (WO2021/030550)
[30] US (62/885,986) 2019-08-13

[21] **3,150,162**
[13] A1
[51] **Int.Cl. A61K 31/435 (2006.01) A61P 11/00 (2006.01) C07D 513/22 (2006.01)**
[25] EN
[54] **CRYSTALLINE FORMS OF CFTR MODULATORS**
[54] **FORMES CRISTALLINES DE MODULATEURS DE CFTR**
[72] SHI, YI, US
[72] GAGNON, KEVIN J., US
[72] LI, JICONG, US
[72] LU, JENNIFER, US
[72] MEDEK, ALES, US
[72] SHRESTHA, MUNA, US
[72] WALDO, MICHAEL, US
[72] ZHANG, BEILI, US
[72] ZWICKER, CARL L., US
[72] ANDERSON, COREY DON, US
[72] CLEMENS, JEREMY J., US
[72] CLEVELAND, THOMAS, US
[72] COON, TIMOTHY RICHARD, US
[72] FRIEMAN, BRYAN, US
[72] MCCARTNEY, JASON, US
[72] MILLER, MARK THOMAS, US
[72] PARASELLI, PRASUNA, US
[72] PIERRE, FABRICE, US
[72] SWIFT, SARA E., US
[72] ZHOU, JINGLAN, US
[72] GROOTENHUIS, PETER (DECEASED), US
[72] HADIDA RUAH, SARA SABINA, US
[71] VERTEX PHARMACEUTICALS INCORPORATED, US
[85] 2022-02-04
[86] 2020-08-13 (PCT/US2020/046113)
[87] (WO2021/030552)
[30] US (62/886,565) 2019-08-14
[30] US (63/015,903) 2020-04-27

[21] **3,150,163**
[13] A1
[51] **Int.Cl. A61K 47/60 (2017.01) A61P 35/00 (2006.01)**
[25] EN
[54] **IMMUNO ONCOLOGY COMBINATION THERAPIES WITH IL-2 CONJUGATES**
[54] **POLYTHERAPIES IMMUNO-ONCOLOGIQUES AVEC DES CONJUGUES D'IL-2**
[72] PTACIN, JEROD, US
[72] CAFFARO, CAROLINA E., US
[72] MILLA, MARCOS, US
[71] SYNTHORX, INC., US
[85] 2022-02-04
[86] 2020-08-14 (PCT/US2020/046419)
[87] (WO2021/030706)
[30] US (62/887,400) 2019-08-15
[30] US (62/903,187) 2019-09-20
[30] US (62/962,668) 2020-01-17

[21] **3,150,164**
[13] A1
[51] **Int.Cl. C07C 227/16 (2006.01) C07C 229/76 (2006.01) C07F 1/08 (2006.01)**
[25] EN
[54] **DIVALENT METAL ASCORBATE GLYCINATE CO-SALT**
[54] **CO-SEL ASCORBATE GLYCINATE D'UN METAL DIVALENT**
[72] HARDIMON, JOSEPH R., US
[72] MORRIS, KASEY L., US
[72] JEROME, KEVIN D., US
[71] JOST CHEMICAL CO., US
[85] 2022-02-04
[86] 2021-07-12 (PCT/US2021/041302)
[87] (WO2022/015654)
[30] US (63/053,293) 2020-07-17

[21] **3,150,165**
[13] A1
[51] **Int.Cl. H01J 37/20 (2006.01) G01N 1/06 (2006.01) G01N 1/31 (2006.01) H01J 37/28 (2006.01)**
[25] EN
[54] **ELECTRON MICROSCOPE IMAGING ADAPTOR**
[54] **ADAPTATEUR D'IMAGERIE DE MICROSCOPE ELECTRONIQUE**
[72] ROSA-MOLINAR, EDUARDO, US
[71] THE UNIVERSITY OF KANSAS, US
[85] 2022-02-04
[86] 2020-08-06 (PCT/US2020/045239)
[87] (WO2021/026371)
[30] US (62/883,496) 2019-08-06
[30] US (62/883,918) 2019-08-07
[30] US (62/891,067) 2019-08-23
[30] US (62/893,534) 2019-08-29

[21] **3,150,168**
[13] A1
[51] **Int.Cl. C07K 16/24 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **NOVEL ANTIGEN BINDING MOLECULE FORMATS**
[54] **NOUVEAUX FORMATS DE MOLECULES DE LIAISON A L'ANTIGENE**
[72] ZHANG, TONG, US
[72] PYLES, ERICA, US
[72] ROSCONI, MICHAEL, US
[72] LIU, NINA, US
[72] PATEL, SUPRIYA, US
[72] SMITH, ERIC, US
[72] MURPHY, ANDREW, US
[72] LIN, CHIAYANG, US
[72] DAVIS, SAMUEL, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-02-04
[86] 2020-08-07 (PCT/US2020/045309)
[87] (WO2021/026409)
[30] US (62/884,496) 2019-08-08
[30] US (63/050,483) 2020-07-10

[21] **3,150,169**
[13] A1
[51] **Int.Cl. H02J 50/60 (2016.01)**
[25] EN
[54] **FOREIGN OBJECT DETECTION FOR WIRELESS CHARGING SYSTEMS**
[54] **DETECTION DE CORPS ETRANGER POUR SYSTEMES DE CHARGE SANS FIL**
[72] JUDSON, BURTON C., US
[72] GUTHRIE, WARREN, US
[72] DAVISON, TIMOTHY CULLEN, US
[72] REASONER, STEPHEN J., US
[72] VIDETICH, JOHN GREGORY, US
[71] STRYKER CORPORATION, US
[85] 2022-02-04
[86] 2020-08-07 (PCT/US2020/045432)
[87] (WO2021/026466)
[30] US (62/884,092) 2019-08-07

[21] **3,150,171**
[13] A1
[51] **Int.Cl. G06Q 50/08 (2012.01) G06Q 10/06 (2012.01) G06Q 50/16 (2012.01)**
[25] EN
[54] **BUILDING CONSTRUCTION MANAGEMENT SYSTEM AND PROCESS**
[54] **SYSTEME ET PROCEDE DE GESTION DE CONSTRUCTION DE BATIMENT**
[72] WOODS, PETER, AU
[71] WOODS COMPANY HOLDINGS PTY LTD, AU
[85] 2022-02-07
[86] 2020-08-04 (PCT/AU2020/050801)
[87] (WO2021/022328)
[30] AU (2019902823) 2019-08-07

[21] **3,150,173**
[13] A1
[51] **Int.Cl. G01S 7/40 (2006.01) G01B 15/02 (2006.01)**
[25] EN
[54] **ANTENNA ICE LOADING SENSOR AND METHOD**
[54] **PROCEDE ET CAPTEUR DE CHARGE DE GLACE D'ANTENNE**
[72] MILLER, JUSTIN DINSDALE, CA
[72] NICHOLLS, CHARLES WILLIAM TREMLETT, CA
[71] NANOWAVE TECHNOLOGIES INC., CA
[85] 2022-02-07
[86] 2020-08-10 (PCT/CA2020/051096)
[87] (WO2021/022385)
[30] US (62/884,398) 2019-08-08

[21] **3,150,175**
[13] A1
[51] **Int.Cl. C22B 3/08 (2006.01) C22B 3/22 (2006.01) C22B 3/44 (2006.01) C22B 15/00 (2006.01) C22B 23/00 (2006.01) C22B 47/00 (2006.01)**
[25] EN
[54] **PROCESS FOR THE RECOVERY OF METALS FROM OXIDIC ORES**
[54] **PROCEDE DE RECUPERATION DE METAUX A PARTIR DE MINERAIS OXYDIQUES**
[72] DANIELS, MICHEL, BE
[72] SCOYER, JEAN, BE
[72] BALTES, MICHAEL, BE
[72] NEVEN, MARGOT, BE
[72] LEYSSEN, JAN, BE
[71] UMICORE, BE
[85] 2022-02-07
[86] 2020-07-27 (PCT/EP2020/071079)
[87] (WO2021/028201)
[30] EP (19190915.9) 2019-08-09

[21] **3,150,176**
[13] A1
[51] **Int.Cl. A61N 2/02 (2006.01)**
[25] FR
[54] **DEVICE FOR EMITTING A MAGNETIC FIELD**
[54] **DISPOSITIF POUR L'EMISSION D'UN CHAMP MAGNETIQUE**
[72] GREFF, DANIEL, FR
[71] BIOPASS, LU
[85] 2022-02-07
[86] 2020-08-04 (PCT/EP2020/071926)
[87] (WO2021/023749)
[30] FR (FR1908980) 2019-08-05

[21] **3,150,177**
[13] A1
[51] **Int.Cl. G06F 12/0802 (2016.01) G06F 12/0862 (2016.01) G06F 9/30 (2018.01)**
[25] EN
[54] **DEFERRING CACHE STATE UPDATES IN A NON-SPECULATIVE CACHE MEMORY IN A PROCESSOR-BASED SYSTEM IN RESPONSE TO A SPECULATIVE DATA REQUEST UNTIL THE SPECULATIVE DATA REQUEST BECOMES NON-SPECULATIVE**
[54] **REPORT DE MISES A JOUR D'ETAT DE CACHE DANS UNE MEMOIRE CACHE NON SPECULATIVE DANS UN SYSTEME BASE SUR UN PROCESSEUR EN REPONSE A UNE DEMANDE DE DONNEES SPECULATIVE JUSQU'A CE QUE LA DEMANDE DE DONNEES SPECULATIVE DEVIENNE NON SPECULATIVE**
[72] KOTHINTI NARESH, VIGNYAN REDDY, US
[72] PERAIS, ARTHUR, US
[72] AL SHEIKH, RAMI MOHAMMAD, US
[72] PRIYADARSHI, SHIVAM, US
[71] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2022-02-07
[86] 2020-06-17 (PCT/US2020/037990)
[87] (WO2021/045814)
[30] US (16/558,843) 2019-09-03

[21] **3,150,187**
[13] A1
[51] **Int.Cl. G06F 21/14 (2013.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR PROTECTING WEB SCRIPT CODES**
[54] **PROCEDE ET APPAREIL DE PROTECTION DE CODE DE SCRIPT DE PAGE WEB**
[72] YAN, JIE, CN
[72] LIU, JIAJIN, CN
[72] YAO, LIFEI, CN
[72] LU, YANG, CN
[72] YE, GUOHUA, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-02-07
[86] 2020-06-24 (PCT/CN2020/097852)
[87] (WO2021/022927)
[30] CN (201910721402.3) 2019-08-06

[21] **3,150,188**
[13] A1
[51] **Int.Cl. G06F 11/28 (2006.01) G06F 11/34 (2006.01) G06F 11/36 (2006.01)**
[25] EN
[54] **INDEXING AND REPLAYING TIME-TRAVEL TRACES USING DIFFGRAMS**
[54] **INDEXATION ET RELECTURE DE TRACES DE VOYAGE TEMPOREL A L'AIDE DE DIFFGRAMMES**
[72] MOLA, JORDI, US
[71] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2022-02-07
[86] 2020-06-17 (PCT/US2020/038252)
[87] (WO2021/055040)
[30] US (16/573,734) 2019-09-17

[21] **3,150,190**
[13] A1
[51] **Int.Cl. C02F 9/00 (2006.01) B01D 1/00 (2006.01) B01D 3/10 (2006.01) B01D 3/14 (2006.01) B01D 3/20 (2006.01) B01D 3/32 (2006.01) B01D 3/42 (2006.01) B01D 5/00 (2006.01) C02F 1/04 (2006.01) C02F 1/18 (2006.01) C02F 1/32 (2006.01) C02F 1/36 (2006.01) C02F 1/50 (2006.01) C02F 1/68 (2006.01)**
[25] EN
[54] **DEVICE FOR DISTRIBUTING MINERALIZED WATER AND ASSOCIATED METHOD**
[54] **DISPOSITIF DE DISTRIBUTION D'EAU MINERALISEE ET PROCEDE ASSOCIE**
[72] GAZZELLI, MAURO, CH
[72] COZZI, ALBERTO, CH
[71] 77 VISION WAY LTD, GB
[85] 2022-02-07
[86] 2019-08-30 (PCT/EP2019/073278)
[87] (WO2021/037385)

[21] **3,150,193**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2012.01)**
[25] EN
[54] **PRIVACY SCORE**
[54] **SCORE DE CONFIDENTIALITE**
[72] LU, MARVIN, US
[72] SCHAPIRO, JESSICA, US
[72] STEWART, JAKE, US
[72] PATEL, SHASHIN, US
[72] DAFTARY, SIDDARTH, US
[72] SHARP, MICHAEL, US
[72] DHAKSHNAMOORTHY, JHANANI, US
[71] ALLSTATE INSURANCE COMPANY, US
[85] 2022-02-07
[86] 2020-08-07 (PCT/US2020/045315)
[87] (WO2021/026411)
[30] US (16/536,020) 2019-08-08

[21] **3,150,195**
[13] A1
[51] **Int.Cl. G06T 11/00 (2006.01)**
[25] EN
[54] **X-RAY TOMOGRAPHY SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE TOMOGRAPHIE PAR RAYONS X**
[72] SOLOVIEV, VADIM, GB
[71] ADAPTIX LTD, GB
[85] 2022-02-07
[86] 2020-08-14 (PCT/IB2020/057671)
[87] (WO2021/028878)
[30] GB (1911656.5) 2019-08-14

[21] **3,150,196**
[13] A1
[51] **Int.Cl. G06T 11/00 (2006.01)**
[25] EN
[54] **AN X-RAY TOMOGRAPHY SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE TOMOGRAPHIE PAR RAYONS X**
[72] SOLOVIEV, VADIM, GB
[71] ADAPTIX LTD, GB
[85] 2022-02-07
[86] 2020-08-14 (PCT/IB2020/057673)
[87] (WO2021/033105)
[30] GB (1911759.7) 2019-08-16
[30] GB (1918798.8) 2019-12-19

[21] **3,150,197**
[13] A1
[51] **Int.Cl. G16B 20/00 (2019.01) G01N 33/574 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHODS FOR PEPTIDE MASS SPECTROMETRY FRAGMENTATION PREDICTION**
[54] **PROCEDES DE PREDICTION DE FRAGMENTATION PAR SPECTROMETRIE DE MASSE DE PEPTIDES**
[72] TSOU, CHIH-CHIANG, US
[72] FRITSCHE, JENS, DE
[72] WEINSCHENK, TONI, DE
[72] MULLER, JULIAN, DE
[71] IMMATICS US, INC., US
[71] IMMATICS BIOTECHNOLOGIES GMBH, DE
[85] 2022-02-07
[86] 2020-08-07 (PCT/US2020/045462)
[87] (WO2021/030207)
[30] DE (10 2019 121 600.1) 2019-08-09
[30] US (62/884,893) 2019-08-09

[21] **3,150,268**
[13] A1
[51] **Int.Cl. H04W 72/04 (2009.01)**
[25] EN
[54] **FEEDBACK CHANNEL ALLOCATION AND TRANSMISSION METHOD AND DEVICE**
[54] **PROCEDE ET DISPOSITIF DE TRANSMISSION ET D'ATTRIBUTION DE CANAL DE RETOUR**
[72] XING, WEIMIN, CN
[72] ZHANG, BOYUAN, CN
[72] LU, YOUXIONG, CN
[72] YANG, JIN, CN
[71] ZTE CORPORATION, CN
[85] 2022-02-07
[86] 2019-08-08 (PCT/CN2019/099786)
[87] (WO2021/022551)

[21] **3,150,269**
[13] A1
[51] **Int.Cl. H02M 5/04 (2006.01) H02M 1/00 (2007.10) H02M 5/00 (2006.01) H02M 5/02 (2006.01) H02M 11/00 (2006.01)**
[25] EN
[54] **STEP-WISE POWER TRANSFORMATION**
[54] **TRANSFORMATION DE PUISSANCE PAS A PAS**
[72] WOODFORD, DENNIS, CA
[71] BARTHOLD, LIONEL O., US
[71] ELECTRANIX CORP., CA
[85] 2022-02-07
[86] 2020-08-11 (PCT/US2020/045807)
[87] (WO2021/030371)
[30] US (62/885,275) 2019-08-11

[21] **3,150,270**
[13] A1
[51] **Int.Cl. C10M 141/10 (2006.01) C10M 129/06 (2006.01) C10M 137/10 (2006.01)**
[25] EN
[54] **COMPOSITION AND METHOD FOR LUBRICATING AUTOMOTIVE GEARS, AXLES AND BEARINGS**
[54] **COMPOSITION ET PROCEDE DE LUBRIFICATION D'ENGRENAGES, D'ESSIEUX ET DE PALIERS AUTOMOBILES**
[72] KIM, HYUNGSOO, US
[72] STANDEN, PATRICIA, US
[72] PATTERSON, SUZANNE M., US
[72] GUO, BINBIN, US
[72] FILIPPINI, BRIAN B., US
[71] THE LUBRIZOL CORPORATION, US
[85] 2022-02-07
[86] 2020-08-12 (PCT/US2020/045832)
[87] (WO2021/034553)
[30] US (62/887,737) 2019-08-16

[21] **3,150,271**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) C12N 5/0784 (2010.01) C12M 1/12 (2006.01) C12M 1/34 (2006.01) C12M 1/36 (2006.01)**
[25] EN
[54] **DUTY CYCLE FOR CELL CULTURE SYSTEMS**
[54] **CYCLE DE SERVICE POUR SYSTEMES DE CULTURE CELLULAIRE**
[72] MURTHY, SHASHI K., US
[71] FLASKWORKS, LLC, US
[85] 2022-02-07
[86] 2020-08-12 (PCT/US2020/045900)
[87] (WO2021/030420)
[30] US (16/539,916) 2019-08-13

[21] **3,150,272**
[13] A1
[51] **Int.Cl. A61K 31/436 (2006.01) A61K 9/00 (2006.01) A61K 31/4375 (2006.01)**
[25] EN
[54] **DRUG DELIVERY SYSTEM FOR THE DELIVERY OF ANTIVIRAL AGENTS**
[54] **SYSTEME D'ADMINISTRATION DE MEDICAMENT POUR L'ADMINISTRATION D'AGENTS ANTIVIRAUX**
[72] FORSTER, SETH P., US
[72] BARRETT, STEPHANIE ELIZABETH, US
[72] TELLER, RYAN S., US
[72] GILES, MORGAN B., US
[72] KOYNOV, ATHANAS, US
[71] MERCK SHARP & DOHME CORP., US
[85] 2022-02-07
[86] 2020-08-11 (PCT/US2020/045693)
[87] (WO2021/030306)
[30] US (62/885,968) 2019-08-13

[21] **3,150,273**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01)**
[25] EN
[54] **METHOD OF GENERATING ACTIVATED T CELLS FOR CANCER THERAPY**
[54] **PROCEDE DE GENERATION DE LYMPHOCYTES T ACTIVES POUR UNE THERAPIE ANTICANCEREUSE**
[72] YU, JOHN SUN, US
[72] BLACK, KEITH L., US
[71] CEDARS-SINAI MEDICAL CENTER, US
[85] 2022-02-07
[86] 2020-08-10 (PCT/US2020/045570)
[87] (WO2021/026522)
[30] US (62/884,570) 2019-08-08

[21] **3,150,274**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 9/00 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **TREATMENT OF CANCERS WITH ANTIBODY DRUG CONJUGATES (ADC) THAT BIND TO 191P4D12 PROTEINS**
[54] **TRAITEMENT DE CANCERS AVEC DES CONJUGUES ANTICORPS-MEDICAMENT (ADC) QUI SE LIENT A DES PROTEINES 191P4D12**
[72] ABIDOYE, OYEWALE O., US
[71] AGENSYS, INC., US
[71] SEAGEN INC., US
[85] 2022-02-07
[86] 2020-08-10 (PCT/US2020/045567)
[87] (WO2021/030240)
[30] US (62/886,270) 2019-08-13

[21] **3,150,275**
[13] A1
[51] **Int.Cl. H04L 1/16 (2006.01)**
[25] EN
[54] **FEEDBACK INFORMATION TRANSMISSION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE TRANSMISSION D'INFORMATIONS DE RETROACTION**
[72] JI, ZICHAO, CN
[72] PAN, XUEMING, CN
[72] WU, HUAMING, CN
[72] LIU, SIQI, CN
[72] LIU, SHIXIAO, CN
[72] PENG, SHUYAN, CN
[72] JIANG, WEI, CN
[71] VIVO MOBILE COMMUNICATION CO., LTD., CN
[85] 2022-02-07
[86] 2020-08-04 (PCT/CN2020/106833)
[87] (WO2021/027636)
[30] CN (201910736646.9) 2019-08-09

[21] **3,150,276**
[13] A1
[51] **Int.Cl. C12N 9/10 (2006.01) C07K 14/20 (2006.01) C07K 14/22 (2006.01) C12N 15/67 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **AMINOACYL-TRNA SYNTHETASES AND CELL LINES FOR SITE-SPECIFIC INCORPORATION OF UNNATURAL AMINO ACIDS**
[54] **AMINOACYL-ARNT SYNTHETASES ET LIGNEES CELLULAIRES POUR INTEGRATION SPECIFIQUE A UN SITE D'ACIDES AMINES NON NATURELS**
[72] ITALIA, JAMES SEBASTIAN, US
[71] BRICKBIO, INC., US
[85] 2022-02-07
[86] 2020-08-07 (PCT/US2020/045506)
[87] (WO2021/026506)
[30] US (62/884,465) 2019-08-08
[30] US (62/884,454) 2019-08-08
[30] US (62/936,860) 2019-11-18

[21] **3,150,277**
[13] A1
[51] **Int.Cl. E04B 2/74 (2006.01) A47H 23/00 (2006.01)**
[25] EN
[54] **MODULAR LOCKING CURTAIN PARTITIONS**
[54] **CLOISONS RIDEAU MODULAIRES VERROUILLABLES**
[72] ASHELIN, CHARLES J., US
[72] HOFFMANN, DAVID J., US
[72] HEIM, FRANK, US
[72] ALLEN, KELLY, US
[72] SCHMIDT, TIMOTHY J., US
[71] RITE-HITE HOLDING CORPORATION, US
[85] 2022-02-07
[86] 2020-08-07 (PCT/US2020/045490)
[87] (WO2021/026497)
[30] US (62/884,041) 2019-08-07

[21] **3,150,279**
[13] A1
[51] **Int.Cl. A61B 18/00 (2006.01) A61B 18/14 (2006.01) A61B 18/18 (2006.01)**
[25] EN
[54] **COOLING SYSTEM FOR SURGICAL DEVICE**
[54] **SYSTEME DE REFROIDISSEMENT POUR DISPOSITIF CHIRURGICAL**
[72] SENNESS, CHARLES, US
[72] BACHMAN, TIM, US
[72] SPRAIN, JASON WILLIAM, US
[72] BABCOCK, DENNIS, US
[72] CHAN, LUAN, US
[72] MISIAK, MACIEJ WOJCIECH, US
[72] TAN, WINSTON, US
[72] GOULET, MATTHEW, US
[72] ZACHMAN, ANDREW KEVIN, US
[72] ERNSTER, LOGAN, US
[71] BIOCOMPATIBLES UK LIMITED, GB
[85] 2022-02-07
[86] 2020-08-07 (PCT/US2020/045439)
[87] (WO2021/026470)
[30] US (62/884,044) 2019-08-07

[21] **3,150,281**
[13] A1
[51] **Int.Cl. A61K 31/395 (2006.01) A61K 31/505 (2006.01) A61K 31/519 (2006.01) C07D 207/08 (2006.01) C07D 247/02 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **JAK INHIBITORS**
[54] **INHIBITEURS DE JAK**
[72] MOHAN, RAJU, US
[72] NUSS, JOHN, US
[72] HARRIS, JASON, US
[72] YUAN, SHENDONG, US
[71] VIMALAN BIOSCIENCES, INC., US
[85] 2022-02-07
[86] 2020-08-07 (PCT/US2020/045431)
[87] (WO2021/026465)
[30] US (62/884,593) 2019-08-08

[21] **3,150,282**
[13] A1
[51] **Int.Cl. A47L 9/08 (2006.01) A47L 5/14 (2006.01) A47L 9/00 (2006.01) A47L 9/02 (2006.01) A47L 9/28 (2006.01) A47L 11/40 (2006.01)**
[25] EN
[54] **ROBOTIC CLEANER WITH AIR JET ASSEMBLY**
[54] **ROBOT NETTOYEUR AVEC ENSEMBLE JET D'AIR**
[72] BROWN, ANDRE D., US
[71] SHARKNINJA OPERATING LLC, US
[85] 2022-02-07
[86] 2020-08-07 (PCT/US2020/045374)
[87] (WO2021/026438)
[30] US (62/884,303) 2019-08-08

[21] **3,150,283**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6806 (2018.01) C12Q 1/6827 (2018.01) C12Q 1/6848 (2018.01) C12Q 1/686 (2018.01) C12Q 1/32 (2006.01)**
[25] EN
[54] **SELECTIVE ENRICHMENT**
[54] **ENRICHISSEMENT SELECTIF**
[72] SHUBER, ANTHONY P., US
[71] GENETICS RESEARCH, LLC, US
[85] 2022-02-07
[86] 2020-08-07 (PCT/US2020/045322)
[87] (WO2021/026414)
[30] US (62/884,498) 2019-08-08

[21] **3,150,284**
[13] A1
[51] **Int.Cl. C07D 403/14 (2006.01) A61K 31/435 (2006.01) A61K 31/505 (2006.01) A61P 35/00 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **AZA-QUINOLINE COMPOUNDS AND USES THEREOF**
[54] **COMPOSES D'AZA-QUINOLEINE ET LEURS UTILISATIONS**
[72] LI, LING, CN
[72] DAI, XUAN, CN
[72] DORE, MICHAEL, CA
[72] GU, XIANG-JU JUSTIN, CN
[72] LIU, KEVIN KUN CHIN, CN
[72] MAK, SING YEUNG FRANKIE, SG
[72] MI, YUAN, CN
[72] OYANG, COUNDE, US
[72] PAPILLON, JULIEN, US
[72] QI, WEI (VICKY), CN
[72] YAN, XIAOXIA, CN
[72] YU, ZHENGTIAN, CN
[72] ZHANG, JI YUE (JEFF), CN
[72] ZHAO, KEHAO, US
[71] NOVARTIS AG, CH
[85] 2022-02-07
[86] 2020-09-24 (PCT/CN2020/117487)
[87] (WO2021/057853)
[30] CN (PCT/CN2019/108296) 2019-09-26

[21] **3,150,286**
[13] A1
[51] **Int.Cl. B60B 9/04 (2006.01) B60B 9/26 (2006.01) B60C 7/14 (2006.01) B60C 7/18 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING WHEELS HAVING VARIABLE SPRING RATES**
[54] **SYSTEMES ET PROCEDES POUR FOURNIR DES ROUES AYANT DES CONSTANTES DE RAPPEL VARIABLES**
[72] LONG, GUOMING ALEX, US
[71] BERKSHIRE GREY, INC., US
[85] 2022-02-07
[86] 2020-08-06 (PCT/US2020/045141)
[87] (WO2021/030132)
[30] US (62/884,795) 2019-08-09

[21] **3,150,287**
[13] A1
[51] **Int.Cl. A01G 7/04 (2006.01) A01G 9/02 (2018.01)**
[25] EN
[54] **COMPACT CLOSED-SPACE SYSTEM FOR ILLUMINATION, CLIMATE CONTROL AND AIR PURIFICATION**
[54] **SYSTEME COMPACT POUR ESPACE FERME POUR L'ECLAIRAGE, LE CONDITIONNEMENT D'AIR ET LA PURIFICATION DE L'AIR**
[72] CHAMAMI, ZIV, IL
[71] GROWOP WORLD LTD., IL
[85] 2022-02-07
[86] 2019-08-20 (PCT/IL2019/050930)
[87] (WO2021/033175)

[21] **3,150,291**
[13] A1
[51] **Int.Cl. B25J 9/14 (2006.01) B25J 15/06 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING, IN PROGRAMMABLE MOTION DEVICES, COMPLIANT END EFFECTORS WITH NOISE MITIGATION**
[54] **SYSTEMES ET PROCEDES POUR FOURNIR, DANS DES DISPOSITIFS DE MOUVEMENT PROGRAMMABLES, DES EFFECTEURS TERMINAUX CONFORMES AVEC ATTENUATION DU BRUIT**
[72] ANDERSON, BRETTON, US
[71] BERKSHIRE GREY, INC., US
[85] 2022-02-07
[86] 2020-08-05 (PCT/US2020/044923)
[87] (WO2021/026183)
[30] US (62/884,359) 2019-08-08

[21] **3,150,292**
[13] A1
[51] **Int.Cl. C08L 27/06 (2006.01) C08F 2/44 (2006.01) C08J 3/09 (2006.01) C08J 5/18 (2006.01) C08L 1/02 (2006.01) C08L 83/04 (2006.01)**
[25] EN
[54] **NANOCRYSTALLINE MATERIALS DISPERSED IN VINYL-CONTAINING POLYMERS AND PROCESSES THEREFOR**
[54] **MATERIAUX NANOCRISTALLINS DISPERSES DANS DES POLYMERES CONTENANT DU VINYLE ET LEURS PROCEDES**
[72] HENDERSON, KEVIN O., US
[71] AVERY DENNISON CORPORATION, US
[85] 2022-02-07
[86] 2020-07-30 (PCT/US2020/044253)
[87] (WO2021/025950)
[30] US (62/883,179) 2019-08-06
[30] US (62/937,826) 2019-11-20

[21] **3,150,295**
[13] A1
[51] **Int.Cl. A61M 15/00 (2006.01) G16H 20/10 (2018.01) A24F 47/00 (2020.01) A61M 11/04 (2006.01) A61M 15/06 (2006.01)**
[25] EN
[54] **VAPOR DOSING PLATFORM FOR VAPORIZATION CARTRIDGES**
[54] **PLATE-FORME DE DOSAGE DE VAPEUR POUR CARTOUCHES DE VAPORISATION**
[72] WAGNER, AKIVA, US
[72] BATES, ROBERT STEPHEN WALTER, US
[72] PRIMAS, SIDNEY, US
[72] KIRSH, YISROEL, US
[72] KOOLS, JEROEN ARNOLD NORBERT, US
[72] WEITZ, ANDREW JAMES, US
[72] PANCHALAN, PRASAD K., US
[71] VAPOR DOSING TECHNOLOGIES, INC., US
[85] 2022-02-07
[86] 2019-08-16 (PCT/US2019/046853)
[87] (WO2020/037226)
[30] US (62/719,017) 2018-08-16

[21] **3,150,300**
[13] A1
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **INTERMITTENTLY CONNECTED OPTICAL FIBER RIBBON AND METHOD FOR MANUFACTURING INTERMITTENTLY CONNECTED OPTICAL FIBER RIBBON**
[54] **BANDE DE FIBRE OPTIQUE DE TYPE A CONNEXION INTERMITTENTE ET PROCEDE DE FABRICATION DE BANDE DE FIBRE OPTIQUE DE TYPE A CONNEXION INTERMITTENTE**
[72] KANEKO, SOICHIRO, JP
[72] TOMIKAWA, KOJI, JP
[72] OSATO, KEN, JP
[71] FUJIKURA LTD., JP
[85] 2022-02-07
[86] 2019-10-30 (PCT/JP2019/042515)
[87] (WO2021/084640)

[21] **3,150,302**
[13] A1
[51] **Int.Cl. A01N 43/54 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **METHOD FOR CONTROLLING HERBICIDE-RESISTANT WEED**
[54] **PROCEDE DE LUTTE CONTRE LES MAUVAISES HERBES RESISTANTES AUX HERBICIDES**
[72] JIN, YOSHINOBU, JP
[72] TOMITA, AKIHIRO, JP
[71] SUMITOMO CHEMICAL COMPANY, LIMITED, JP
[85] 2022-02-07
[86] 2020-08-04 (PCT/JP2020/029781)
[87] (WO2021/029273)
[30] JP (2019-147166) 2019-08-09

[21] **3,150,303**
[13] A1
[51] **Int.Cl. C07D 205/04 (2006.01)**
[25] EN
[54] **SALT AND CRYSTAL FORM OF COMPOUND HAVING AGONISTIC ACTIVITY TO S1P5 RECEPTOR**
[54] **SEL ET FORME CRISTALLINE D'UN COMPOSE AYANT UNE ACTIVITE AGONISTE VIS-A-VIS DU RECEPTEUR S1P5**
[72] OTANI, SHUHEI, JP
[72] FUJITO, TAKAYUKI, JP
[72] IMURA, NAOKO, JP
[72] KIJIMA, HIDEOMI, JP
[72] PARENT, STEPHAN D., US
[72] BEVILL, MELANIE JANELLE, US
[72] JOHNSON, COURTNEY S., US
[72] HOUSTON, TRAVIS LEE, US
[71] ONO PHARMACEUTICAL CO., LTD., JP
[85] 2022-02-07
[86] 2020-08-19 (PCT/JP2020/031326)
[87] (WO2021/033729)
[30] US (62/889,091) 2019-08-20

[21] **3,150,304**
[13] A1
[51] **Int.Cl. B65D 19/24 (2006.01) B64D 9/00 (2006.01)**
[25] EN
[54] **TRANSPORT PALLET**
[54] **PALETTE DE TRANSPORT**
[72] FURUNES, MORTEN, NO
[72] GUDEM RINGDALEN, MARTIN, NO
[71] BEWI NORPLASTA AS, NO
[85] 2022-02-07
[86] 2020-08-11 (PCT/NO2020/050203)
[87] (WO2021/029775)
[30] NO (20190983) 2019-08-15

[21] **3,150,305**
[13] A1
[51] **Int.Cl. G03B 7/08 (2021.01) G03B 9/08 (2021.01)**
[25] EN
[54] **DEVICE FOR CAPTURING A LONG-EXPOSURE IMAGE**
[54] **DISPOSITIF DE FIXATION D'IMAGE A LONGUE EXPOSITION**
[72] PASHKOVSKY, VLADIMIR ELIICH, RU
[71] PASHKOVSKY, VLADIMIR ELIICH, RU
[85] 2022-02-07
[86] 2020-08-15 (PCT/RU2020/050190)
[87] (WO2021/045652)
[30] RU (2019127675) 2019-09-03

[21] **3,150,379**
[13] A1
[51] **Int.Cl. G06N 3/08 (2006.01) G06T 7/60 (2017.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATING BIOLOGICAL STRUCTURE IDENTIFICATION UTILIZING MACHINE LEARNING**
[54] **SYSTEMES ET PROCEDES D'AUTOMATISATION D'IDENTIFICATION DE STRUCTURE BIOLOGIQUE A L'AIDE D'UN APPRENTISSAGE AUTOMATIQUE**
[72] JOHNSON, JEROMY, US
[72] ELI, ROB, US
[72] HOYING, JAY, US
[71] ADVANCED SOLUTIONS LIFE SCIENCES, LLC, US
[85] 2022-02-07
[86] 2020-08-14 (PCT/US2020/046362)
[87] (WO2021/030684)
[30] US (62/887,244) 2019-08-15

[21] **3,150,380**
[13] A1
[51] **Int.Cl. A61K 38/08 (2019.01) A61K 9/14 (2006.01) A61K 9/20 (2006.01) A61P 1/00 (2006.01) A61P 1/04 (2006.01) A61P 3/00 (2006.01)**
[25] EN
[54] **LARAZOTIDE FORMULATIONS**
[54] **FORMULATIONS DE LARAZOTIDE**
[72] RADHAKRISHNAN, BALASINGHAM, US
[72] MADAN, JAY P., US
[72] MUSSO, GARY F., US
[71] 9 METERS BIOPHARMA, INC., US
[85] 2022-02-07
[86] 2020-08-14 (PCT/US2020/046272)
[87] (WO2021/034629)
[30] US (62/888,052) 2019-08-16
[30] US (63/009,768) 2020-04-14

[21] **3,150,382**
[13] A1
[51] **Int.Cl. H01M 8/04 (2016.01) H01M 8/0432 (2016.01) H01M 8/04537 (2016.01) H01M 8/04701 (2016.01) H01M 8/04746 (2016.01)**
[25] EN
[54] **SOFC-CONDUCTION**
[54] **CONDUCTION DE PILE A COMBUSTIBLE A OXYDE SOLIDE**
[72] PALUMBO, NATHAN, US
[72] OSENAR, PAUL, US
[72] OTIS, MATTHEW, US
[72] PILCZAK, JAMES, US
[71] UPSTART POWER, INC., US
[85] 2022-02-07
[86] 2020-08-14 (PCT/US2020/046458)
[87] (WO2021/030728)
[30] US (62/886,406) 2019-08-14

[21] **3,150,384**
[13] A1
[51] **Int.Cl. E05B 63/06 (2006.01) E05B 9/00 (2006.01) E05B 15/00 (2006.01) E05B 63/00 (2006.01) G05G 1/02 (2006.01)**
[25] EN
[54] **ADJUSTABLE BUTTON MECHANISM**
[54] **MECANISME DE BOUTON REGLABLE**
[72] FOURNIER, BRIAN R., US
[72] ZIMMER, TODD, US
[72] BEDFORD, MICHAEL, US
[72] NGUYEN, DAVID, US
[72] VOELKER, CHRISTINE, US
[72] HARRIS, JUSTIN, US
[71] SARGENT MANUFACTURING COMPANY, US
[85] 2022-02-07
[86] 2020-08-14 (PCT/US2020/046479)
[87] (WO2021/030736)
[30] US (62/887,475) 2019-08-15

[21] **3,150,385**
[13] A1
[51] **Int.Cl. B07C 3/00 (2006.01) G06Q 10/04 (2012.01) G06Q 10/08 (2012.01)**
[25] EN
[54] **SEQUENCING PARCEL SORTER**
[54] **TRIEUSE DE COLIS A SEQUENCEMENT**
[72] SERSTAD, JAMES M., US
[72] FUTCH, MICHAEL C., US
[71] TOMPKINS ROBOTICS, INC., US
[85] 2022-02-07
[86] 2020-08-19 (PCT/US2020/046940)
[87] (WO2021/041102)
[30] US (62/892,575) 2019-08-28

[21] **3,150,386**
[13] A1
[51] **Int.Cl. B01D 53/86 (2006.01) B01J 29/06 (2006.01) B01J 35/10 (2006.01)**
[25] EN
[54] **A METHANE OXIDATION CATALYST AND A METHOD OF MAKING AND USING THEREOF**
[54] **CATALYSEUR D'OXYDATION DE METHANE ET SON PROCEDE DE FABRICATION ET D'UTILISATION**
[72] TANEV, PETER TANEV, US
[72] SOORHOLTZ, MARIO, DE
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2022-02-07
[86] 2020-08-20 (PCT/US2020/047129)
[87] (WO2021/035019)
[30] US (62/889,078) 2019-08-20

[21] **3,150,388**
[13] A1
[51] **Int.Cl. A47J 27/086 (2006.01) A47J 27/62 (2006.01) A47J 36/00 (2006.01)**
[25] EN
[54] **MULTI-FUNCTIONAL SLOW COOKER WITH TEMPERATURE CONTROL FEATURES**
[54] **APPAREIL DE CUISSON LENTE MULTIFONCTIONNEL A CARACTERISTIQUES DE REGULATION DE TEMPERATURE**
[72] HOLINKA, SEAN P., US
[72] CLEPPE, BENJAMIN M., US
[72] SMITH, JACOB D., US
[72] HEIDENREICH, DREW W., US
[72] PULVERMACHER, NOAH C., US
[71] SPECTRUM BRANDS, INC., US
[85] 2022-02-07
[86] 2020-08-20 (PCT/US2020/047225)
[87] (WO2021/035061)
[30] US (62/889,759) 2019-08-21

[21] **3,150,389**
[13] A1
[51] **Int.Cl. G06F 21/30 (2013.01) H04L 9/32 (2006.01)**
[25] EN
[54] **AUTHENTICATION OF MEDICAL DEVICE COMPUTING SYSTEMS BY USING METADATA SIGNATURE**
[54] **AUTHENTIFICATION DE SYSTEMES INFORMATIQUES DE DISPOSITIF MEDICAL A L'AIDE D'UNE SIGNATURE DE METADONNEES**
[72] LEINFELLNER, NORBERT, US
[72] MANAKKIL, JOSEPH EDWIN INASE, US
[72] POCHENDORFER, PAOLO, US
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2022-02-07
[86] 2020-08-28 (PCT/US2020/048484)
[87] (WO2021/045974)
[30] US (16/560,534) 2019-09-04

[21] **3,150,391**
[13] A1
[51] **Int.Cl. A61M 11/00 (2006.01) A61M 15/00 (2006.01) B05B 17/04 (2006.01) B06B 1/02 (2006.01) B06B 1/06 (2006.01)**
[25] EN
[54] **A METHOD AND DEVICE FOR DRIVING A PIEZOELECTRIC DEVICE**
[54] **PROCEDE ET DISPOSITIF DE COMMANDE D'UN DISPOSITIF PIEZOELECTRIQUE**
[72] KANG, LIAT KENG, SG
[72] TAN, WILLIAM, US
[71] KANG, LIAT KENG, SG
[71] TAN, WILLIAM, US
[85] 2022-02-07
[86] 2020-09-26 (PCT/US2020/052970)
[87] (WO2021/062337)
[30] US (62/907,428) 2019-09-27

[21] **3,150,392**
[13] A1
[51] **Int.Cl. F16K 47/08 (2006.01) F16K 3/24 (2006.01)**
[25] EN
[54] **CIRCUMFERENTIALLY-SECTIONED VALVE CAGES**
[54] **CAGES DE SOUPAPE A SECTION CIRCONFERENTIELLE**
[72] MASIAS, JUSTIN L., US
[72] PLUMMER, DAVID O., US
[72] FAN, GUOLEI, CN
[72] XIAO, YAWEI, CN
[71] EMERSON PROCESS MANAGEMENT REGULATOR TECHNOLOGIES, INC., US
[85] 2022-02-07
[86] 2020-09-30 (PCT/US2020/053506)
[87] (WO2021/076330)
[30] CN (201910983650.5) 2019-10-16
[30] CN (201921735082.9) 2019-10-16
[30] US (16/660,383) 2019-10-22

[21] **3,150,394**
[13] A1
[51] **Int.Cl. C10L 3/06 (2006.01) C10L 10/00 (2006.01)**
[25] EN
[54] **FUEL COMPOSITION**
[54] **COMPOSITION DE CARBURANT**
[72] KOOT, MATTHIJS PIETER, NL
[72] LEVINSKY, HOWARD BARRETT, NL
[72] GERSEN, SANDER, NL
[72] VAN ESSEN, VINCENT MARTIJN, NL
[72] KOFOD, MAX, DE
[72] SLEESWIJK VISSER, FENNA IONA, NL
[72] VAN DIJK, GERARDUS HUGO JOZEF, NL
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2022-02-08
[86] 2020-08-06 (PCT/EP2020/072115)
[87] (WO2021/032492)
[30] EP (19192096.6) 2019-08-16

[21] **3,150,396**
[13] A1
[51] **Int.Cl. E21B 49/00 (2006.01)**
[25] EN
[54] **RESISTIVITY MEASUREMENT POLAR PLATE AND MANUFACTURING METHOD**
[54] **PLAQUE POLAIRE DE MESURE DE RESISTIVITE ET PROCEDE DE FABRICATION**
[72] LIAO, SHENGJUN, CN
[72] WANG, HUI, CN
[72] YU, ZENGHUI, CN
[72] MA, HUANBO, CN
[72] ZHANG, ZHIGANG, CN
[72] WAN, QI, CN
[72] HOU, HONGWEI, CN
[71] CHINA OILFIELD SERVICES LIMITED, CN
[85] 2022-02-08
[86] 2020-04-02 (PCT/CN2020/083024)
[87] (WO2021/031572)
[30] CN (201910774862.2) 2019-08-21

[21] **3,150,398**
[13] A1
[51] **Int.Cl. H04W 4/40 (2018.01)**
[25] EN
[54] **SIDELINK RESOURCE MAPPING METHOD, SIDELINK RESOURCE TRANSMISSION METHOD, NETWORK DEVICE, AND TERMINAL DEVICE**
[54] **PROCEDE DE MAPPAGE DE RESSOURCES DE LIAISON LATERALE, PROCEDE DE TRANSMISSION, APPAREIL DE RESEAU ET APPAREIL TERMINAL**
[72] JI, ZICHAO, CN
[72] PAN, XUEMING, CN
[72] WU, HUAMING, CN
[72] PENG, SHUYAN, CN
[72] LIU, SIQI, CN
[72] LIU, SHIXIAO, CN
[72] JIANG, WEI, CN
[71] VIVO MOBILE COMMUNICATION CO., LTD., CN
[85] 2022-02-08
[86] 2020-08-05 (PCT/CN2020/107052)
[87] (WO2021/027646)
[30] CN (201910736259.5) 2019-08-09

[21] **3,150,399**
[13] A1
[51] **Int.Cl. B01D 1/22 (2006.01)**
[25] EN
[54] **THIN-LAYER TREATMENT APPARATUS**
[54] **DISPOSITIF DE TRAITEMENT DES COUCHES MINCES**
[72] ZIKELI, STEFAN, AT
[72] KITZLER, HANNES, AT
[72] ZAUNER, PHILIPP, AT
[72] AIGNER, PAUL, AT
[72] LONGIN, MICHAEL, AT
[72] NAEF, RAINER, CH
[71] AUROTEC GMBH, AT
[71] BUSS-SMS-CANZLER GMBH, DE
[85] 2021-12-08
[86] 2020-06-12 (PCT/EP2020/066249)
[87] (WO2020/249705)
[30] EP (19179678.8) 2019-06-12

[21] **3,150,401**
[13] A1
[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 35/17 (2015.01) C12N 15/49 (2006.01) C12N 15/85 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **NEF-CONTAINING T CELLS AND METHODS OF PRODUCING THEREOF**
[54] **LYMPHOCYTES T CONTENANT DES NEF ET LEURS METHODES DE PRODUCTION**
[72] FAN, XIAOHU, CA
[72] ZHAO, YUNCHENG, CN
[72] WANG, BING, CN
[72] YU, DAWEI, CN
[72] HUANG, XIN, CN
[72] WANG, PINGYAN, CN
[72] ZHUANG, QIUCHUAN, CN
[71] NANJING LEGEND BIOTECH CO., LTD., CN
[85] 2022-02-08
[86] 2020-08-28 (PCT/CN2020/112181)
[87] (WO2021/037221)
[30] CN (PCT/CN2019/103041) 2019-08-28
[30] CN (PCT/CN2019/125681) 2019-12-16

[21] **3,150,402**
[13] A1
[51] **Int.Cl. H02K 41/02 (2006.01) H01F 7/02 (2006.01) H01F 10/06 (2006.01) H02N 15/00 (2006.01)**
[25] EN
[54] **LINEAR MOTOR FOR MAGLEV TRAIN, AND MAGLEV TRAIN**
[54] **MOTEUR LINEAIRE POUR TRAIN A SUSTENTATION MAGNETIQUE ET TRAIN A SUSTENTATION MAGNETIQUE**
[72] LIANG, JIANYING, CN
[72] LIU, XIANKAI, CN
[72] WU, DONGHUA, CN
[72] HAN, WEITAO, CN
[72] LUAN, JIN, CN
[72] JIANG, FUJIE, CN
[71] CRRC QINGDAO SIFANG CO., LTD., CN
[85] 2022-02-08
[86] 2021-01-26 (PCT/CN2021/073746)
[87] (WO2021/179816)
[30] CN (202010168652.1) 2020-03-11

[21] **3,150,403**
[13] A1
[51] **Int.Cl. G06K 19/077 (2006.01)**
[25] EN
[54] **ANTENNA FOR A RADIO FREQUENCY IDENTIFICATION TRANSPONDER AND RADIO FREQUENCY IDENTIFICATION TRANSPONDER**
[54] **ANTENNE POUR TRANSPONDEUR D'IDENTIFICATION PAR RADIOFREQUENCE ET TRANSPONDEUR D'IDENTIFICATION PAR RADIOFREQUENCE**
[72] CHANTHET, KACHEN, TH
[72] SOMKHANTEE, NIWAT, TH
[71] LINXENS HOLDING, FR
[85] 2022-02-08
[86] 2019-08-22 (PCT/IB2019/000975)
[87] (WO2021/033005)

[21] **3,150,405**
[13] A1
[51] **Int.Cl. B29C 64/393 (2017.01) B33Y 50/00 (2015.01) B29C 64/40 (2017.01)**
[25] EN
[54] **IMPOSING QUALITY REQUIREMENTS ON 3D MODELS WITH SUPPORT STRUCTURES**
[54] **IMPOSITION D'EXIGENCES DE QUALITE SUR DES MODELES 3D AVEC DES STRUCTURES DE SUPPORT**
[72] TANAKA, SIMON, DE
[72] STAHL, CHRISTIAN, DE
[72] WEISS, DANIEL, DE
[71] DENTSPLY SIRONA INC., US
[71] SIRONA DENTAL SYSTEMS GMBH, DE
[85] 2022-02-08
[86] 2020-07-29 (PCT/EP2020/071377)
[87] (WO2021/032425)
[30] EP (19192326.7) 2019-08-19

[21] **3,150,406**
[13] A1
[51] **Int.Cl. B27N 3/02 (2006.01) B27N 3/14 (2006.01)**
[25] EN
[54] **CONSTRUCTION BOARD AND METHOD OF MAKING SAME**
[54] **PANNEAU DE MATERIAU ET PROCEDE DE PRODUCTION D'UN PANNEAU DE MATERIAU**
[72] SCHOLER, MICHAEL, DE
[72] HUNEKE, JORG HEINZ, DE
[71] SIEMPELKAMP MASCHINEN- UND ANLAGENBAU GMBH, DE
[85] 2022-02-08
[86] 2020-08-05 (PCT/EP2020/072031)
[87] (WO2021/023782)
[30] DE (10 2019 121 471.8) 2019-08-08

[21] **3,150,408**
[13] A1
[51] **Int.Cl. C12N 5/10 (2006.01) C12N 5/073 (2010.01) C12N 5/077 (2010.01) C12N 15/54 (2006.01) C12N 15/867 (2006.01) C12Q 1/00 (2006.01)**
[25] EN
[54] **IMMORTALIZED MYOBLAST CELL LINES AND USES THEREOF**
[54] **LIGNEES CELLULAIRES DE MYOBLASTES IMMORTALISEES ET LEURS UTILISATIONS**
[72] LATHUILIERE, AURELIEN, CH
[72] MACH, NICOLAS, CH
[72] SALMON, PATRICK, CH
[71] MAXIVAX SA, CH
[71] LES HOPITAUX UNIVERSITAIRES DE GENEVE, CH
[71] UNIVERSITE DE GENEVE, CH
[85] 2022-02-08
[86] 2020-08-12 (PCT/EP2020/072669)
[87] (WO2021/028500)
[30] EP (19191867.1) 2019-08-14

[21] **3,150,410**
[13] A1
[51] **Int.Cl. D04H 1/28 (2012.01) D04H 1/26 (2012.01) D04H 1/58 (2012.01)**
[25] EN
[54] **LOW-DUST AIRLAID NONWOVEN MATERIALS**
[54] **MATERIAUX NON TISSES FORMES PAR VOIE AERODYNAMIQUE A FAIBLE TENEUR EN POUSSIERES**
[72] DUTKIEWICZ, JACEK K., US
[72] MOOSE, RONALD T., US
[72] FONG, BRIAN, US
[72] MCGEE, KATHY, US
[72] BOOKER, RICHARD, US
[72] CAMPBELL, ALAN J., US
[71] GLATFELTER CORPORATION, US
[85] 2022-02-08
[86] 2020-08-05 (PCT/IB2020/057401)
[87] (WO2021/024200)
[30] US (62/884,258) 2019-08-08

[21] **3,150,414**
[13] A1
[51] **Int.Cl. F22B 3/00 (2006.01) C10L 5/40 (2006.01) F01K 13/00 (2006.01) F01K 21/00 (2006.01) F23C 10/00 (2006.01) F23Q 13/00 (2006.01)**
[25] EN
[54] **THERMAL POWER PLANT**
[54] **CENTRALE THERMIQUE**
[72] OQAB, HAROON B., CA
[72] DIETRICH, GEORGE B., CA
[71] OQAB DIETRICH INDUCTION INC., CA
[85] 2022-02-08
[86] 2020-08-10 (PCT/IB2020/057524)
[87] (WO2021/028823)
[30] US (62/884,960) 2019-08-09

[21] **3,150,415**
[13] A1
[51] **Int.Cl. C07C 1/12 (2006.01) C07C 51/00 (2006.01)**
[25] EN
[54] **CATALYTIC CONVERSION OF CARBON DIOXIDE**
[54] **CONVERSION CATALYTIQUE DU DIOXYDE DE CARBONE**
[72] SIMANZHENKOV, VASILY, CA
[72] GOODARZNIA, SHAHIN, CA
[72] OLAYIWOLA, BOLAJI, CA
[71] NOVA CHEMICALS CORPORATION, CA
[85] 2022-02-08
[86] 2020-09-24 (PCT/IB2020/058948)
[87] (WO2021/064527)
[30] US (62/907,942) 2019-09-30

[21] **3,150,416**
[13] A1
[51] **Int.Cl. B65D 85/10 (2006.01) B65D 5/54 (2006.01) B65D 5/66 (2006.01)**
[25] EN
[54] **A PACKAGE**
[54] **EMBALLAGE**
[72] HODGES, PAUL, GB
[71] BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED, GB
[85] 2022-02-08
[86] 2020-07-30 (PCT/GB2020/051822)
[87] (WO2021/028651)
[30] GB (1911723.3) 2019-08-15

[21] **3,150,419**
[13] A1
[51] **Int.Cl. C22B 1/08 (2006.01) C01B 9/00 (2006.01) C22B 1/10 (2006.01) C22B 7/00 (2006.01) C22B 9/02 (2006.01)**
[25] EN
[54] **METAL RECOVERY PROCESS**
[54] **PROCEDE DE RECUPERATION DE METAL**
[72] DEY, BRIAN MATTHEW, GB
[71] MINEX TECHNOLOGY GROUP LIMITED, GB
[85] 2022-02-08
[86] 2020-08-13 (PCT/GB2020/051941)
[87] (WO2021/028694)
[30] GB (1911658.1) 2019-08-14

[21] **3,150,420**
[13] A1
[51] **Int.Cl. A61K 9/52 (2006.01) A61F 2/02 (2006.01) A61K 35/12 (2015.01) A61K 47/34 (2017.01) A61L 27/38 (2006.01)**
[25] EN
[54] **IMPLANTABLE CAPSULE**
[54] **CAPSULE IMPLANTABLE**
[72] LATHUILIERE, AURELIEN, CH
[72] GROGG, JULIEN, CH
[72] MACH, NICOLAS, CH
[71] MAXIVAX SA, CH
[71] LES HOPITAUX UNIVERSITAIRES DE GENEVE, CH
[71] UNIVERSITE DE GENEVE, CH
[85] 2022-02-08
[86] 2020-08-12 (PCT/EP2020/072673)
[87] (WO2021/028502)
[30] EP (19191868.9) 2019-08-14

[21] **3,150,422**
[13] A1
[51] **Int.Cl. B65D 5/20 (2006.01) B65D 5/24 (2006.01) B65D 5/42 (2006.01) B65D 5/48 (2006.01) B65D 5/56 (2006.01) B65D 85/76 (2006.01)**
[25] EN
[54] **A CONTAINER FOR FOODSTUFFS AND A METHOD FOR MANUFACTURING SAID CONTAINER**
[54] **RECIPIENT POUR PRODUITS ALIMENTAIRES ET SON PROCEDE DE FABRICATION**
[72] ZANARELLA, CLAUDIO ERNESTINO, IT
[72] ZORZETTO, TOBIA, IT
[71] MUSTANGPACK S.R.L., IT
[85] 2022-02-08
[86] 2020-07-28 (PCT/IB2020/057095)
[87] (WO2021/028756)
[30] IT (102019000014529) 2019-08-09
[30] IT (102019000014538) 2019-08-09
[30] IT (102019000014544) 2019-08-09

[21] **3,150,423**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 13/12 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **USE OF THE ANTI-P-SELECTIN ANTIBODY CRIZANLIZUMAB FOR TREATING SICKLE CELL NEPHROPATHY AND CHRONIC KIDNEY DISEASE ASSOCIATED WITH SICKLE CELL DISEASE**
[54] **UTILISATION DE L'ANTICORPS ANTI-P-SELECTINE CRIZANLIZUMAB POUR LE TRAITEMENT DE LA DREPANOCYTOSE ET DE LA NEPHROPATHIE CHRONIQUE ASSOCIEE A LA DREPANOCYTOSE**
[72] ATAGA, KENNETH, US
[72] DEBONNETT, LAURIE, US
[72] DEREBAIL, VIMAL, US
[72] HAN, GUANGYANG, US
[72] INATI, ADLETTE, LB
[72] KANTER, JULIE, US
[72] LEBENSBURGER, JEFFREY, US
[72] SARAF, SANTOSH, US
[72] SHARPE, CLAIRE, GB
[72] BARTOLUCCI, PABLO, FR
[72] STANKOVIC, MIONA, CH
[71] NOVARTIS AG, CH
[85] 2022-02-08
[86] 2020-08-06 (PCT/IB2020/057438)
[87] (WO2021/024220)
[30] US (62/884,313) 2019-08-08

[21] **3,150,424**
[13] A1
[51] **Int.Cl. C07D 233/88 (2006.01) A61K 31/4164 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **SOLID STATE FORMS OF (S)-2-(((S)-6,8-DIFLUORO-1,2,3,4-TETRAHYDRONAPHTHALEN-2-YL)AMINO)-N-(1-(2-METHYL-1-(NEOPENTYLAMINO)PROPAN-2-YL)-1H-IMIDAZOL-4-YL)PENTANAMIDE AND USES THEREOF**
[54] **FORMES A L'ETAT SOLIDE DE (S)-2-(((S)-6,8-DIFLUORO-1,2,3,4-TETRAHYDRONAPHTHALEN-2-YL)AMINO)-N-(1-(2-METHYL-1-(NEOPENTYLAMINO)PROPAN-2-YL)-1H-IMIDAZOL-4-YL)PENTANAMIDE ET UTILISATIONS ASSOSIEES**
[72] GREER, ELAINE, US
[72] ANDERSON, STEPHEN, US
[72] MALONEY, MARK, US
[72] YU, SHU, US
[72] ALBERT, EKATERINA, US
[72] RIGSBEE, EMILY, US
[71] PFIZER INC., US
[85] 2022-02-08
[86] 2019-08-09 (PCT/US2019/045948)
[87] (WO2021/029854)

[21] **3,150,425**
[13] A1
[51] **Int.Cl. C12N 5/0783 (2010.01) C12N 5/0789 (2010.01) A61K 35/17 (2015.01) C12M 3/00 (2006.01)**
[25] EN
[54] **METHODS OF T CELL PRODUCTION**
[54] **PROCEDES DE PRODUCTION DE LYMPHOCYTES T**
[72] GUEGUEN, CLAIRE, GB
[71] ADAPTIMMUNE LIMITED, GB
[85] 2022-02-08
[86] 2020-08-20 (PCT/EP2020/073332)
[87] (WO2021/032836)
[30] GB (1911958.5) 2019-08-20

[21] **3,150,426**
[13] A1
[51] **Int.Cl. A61M 1/28 (2006.01) A61M 1/36 (2006.01)**
[25] EN
[54] **VOLUME-BASED PRIMING OF DIALYSIS MACHINES**
[54] **AMORCAGE DE DIALYSEURS BASE SUR LE VOLUME**
[72] PLAHEY, KULWINDER, US
[72] THIEBAUD, PIERRE, CH
[72] BIEWER, JOHN A., US
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[71] DEBIOTECH S.A., CH
[85] 2022-02-08
[86] 2020-07-22 (PCT/US2020/042980)
[87] (WO2021/030013)
[30] US (16/536,618) 2019-08-09

[21] **3,150,427**
[13] A1
[51] **Int.Cl. C12N 5/0789 (2010.01) C12N 5/071 (2010.01) C12N 5/073 (2010.01) C12N 5/078 (2010.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) C12N 5/10 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **METHODS OF PRODUCING HAEMOGENIC PROGENITOR CELLS FROM PLURIPOTENT STEM CELLS**
[54] **PROCEDES DE PRODUCTION DE CELLULES PROGENITRICES HEMOGENIQUES A PARTIR DE CELLULES SOUCHES PLURIPOTENTES**
[72] YANG, CHENG TAO, GB
[72] CARPENTER, LEE, GB
[71] ADAPTIMMUNE LIMITED, GB
[85] 2022-02-08
[86] 2020-08-20 (PCT/EP2020/073396)
[87] (WO2021/032851)
[30] GB (1911957.7) 2019-08-20

[21] **3,150,428**
[13] A1
[51] **Int.Cl. A61P 35/00 (2006.01) C07K 16/28 (2006.01) A61K 39/00 (2006.01)**
[25] EN
[54] **ANTIBODIES AGAINST ILT2 AND USE THEREOF**
[54] **ANTICORPS DIRIGES CONTRE LE ILT2 ET LEUR UTILISATION**
[72] MANDEL, ILANA, IL
[72] PERETZ, TSURI, IL
[72] HAVES ZIV, DANA, IL
[72] GOLDSHTEIN, ILANA, IL
[72] ALISHEKEVITZ, DROR, IL
[72] FRIDMAN-DROR, ANNA, IL
[72] HAKIM, MOTTI, IL
[72] SHULMAN, AVIDOR, IL
[72] SAPIR, YAIR, IL
[72] BEN-MOSHE, TEHILA, IL
[71] BIOND BIOLOGICS LTD., IL
[85] 2022-02-08
[86] 2020-08-12 (PCT/IL2020/050889)
[87] (WO2021/028921)
[30] US (62/885,374) 2019-08-12
[30] US (63/034,569) 2020-06-04

[21] **3,150,429**
[13] A1
[51] **Int.Cl. C12N 5/10 (2006.01) C12N 5/071 (2010.01) C12N 5/0783 (2010.01) C12N 5/0789 (2010.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01) C12N 15/85 (2006.01) A61K 35/17 (2015.01)**
[25] EN
[54] **T CELL PRODUCTION FROM RAG INACTIVATED IPSCS**
[54] **PRODUCTION DE LYMPHOCYTES T A PARTIR D'IPSC A RAG INACTIVE**
[72] BARKER, LAURA JANE, GB
[72] CARPENTER, LEE, GB
[72] SIDAWAY, ADAM, GB
[71] ADAPTIMMUNE LIMITED, GB
[85] 2022-02-08
[86] 2020-08-20 (PCT/EP2020/073400)
[87] (WO2021/032852)
[30] GB (1911953.6) 2019-08-20

[21] **3,150,432**
[13] A1
[51] **Int.Cl. E21B 43/267 (2006.01) E21B 47/11 (2012.01) C09K 8/80 (2006.01)**
[25] EN
[54] **GRANULAR CROSSLINKED POLYETHYLENE AS A HYDRAULIC FRACTURING PROPPANT**
[54] **POLYETHYLENE RETICULE GRANULAIRE EN TANT QU'AGENT DE SOUTENEMENT POUR FRACTURATION HYDRAULIQUE**
[72] ENTCHEV, PAVLIN B., US
[72] SHIRLEY, ROBERT M., US
[72] GALUSKA, ALAN A., US
[72] HANDY, WILLIAM, US
[72] STOJKOVIC, DRAGAN, US
[71] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US
[85] 2022-02-08
[86] 2020-07-24 (PCT/US2020/043508)
[87] (WO2021/034450)
[30] US (62/888,214) 2019-08-16
[30] US (62/890,185) 2019-08-22
[30] US (62/944,106) 2019-12-05
[30] US (62/951,339) 2019-12-20

[21] **3,150,433**
[13] A1
[51] **Int.Cl. A61K 31/4375 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **RIPRETINIB FOR TREATING GASTROINTESTINAL STROMAL TUMORS**
[54] **RIPRETINIB POUR LE TRAITEMENT DE TUMEURS STROMALES GASTRO-INTESTINALES**
[72] SOTO, RODRIGO RUIZ, US
[72] ROSEN, OLIVER, US
[72] PITMAN, JAMA, US
[71] DECIPHERA PHARMACEUTICALS, LLC, US
[85] 2022-02-08
[86] 2020-08-12 (PCT/US2020/045876)
[87] (WO2021/030405)
[30] US (62/885,797) 2019-08-12
[30] US (62/904,198) 2019-09-23
[30] US (62/926,281) 2019-10-25
[30] US (62/936,018) 2019-11-15
[30] US (62/968,927) 2020-01-31
[30] US (62/968,945) 2020-01-31
[30] US (63/023,921) 2020-05-13
[30] US (63/023,936) 2020-05-13

[21] **3,150,434**
[13] A1
[51] **Int.Cl. A61K 31/4375 (2006.01) A61P 31/04 (2006.01) A61P 31/10 (2006.01) A61P 31/12 (2006.01) A61P 33/00 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **SALTS OF A PD-1/PD-L1 INHIBITOR**
[54] **SELS D'UN INHIBITEUR DE PD-1/PD-L1**
[72] JIA, ZHONGJIANG, US
[72] LIU, PINGLI, US
[72] MELONI, DAVID J., US
[72] PAN, YONGCHUN, US
[72] WU, YONGZHONG, US
[72] ZHOU, JIACHENG, US
[72] LI, QUN, US
[71] INCYTE CORPORATION, US
[85] 2022-02-08
[86] 2020-08-07 (PCT/US2020/045311)
[87] (WO2021/030162)
[30] US (62/884,996) 2019-08-09

[21] **3,150,436**
[13] A1
[51] **Int.Cl. A01M 7/00 (2006.01) A01C 23/00 (2006.01)**
[25] EN
[54] **MATERIAL DELIVERY SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE DISTRIBUTION DE SUBSTANCE**
[72] MEADE, DARRYL A., US
[72] LANG, EDWARD, US
[72] LI, XUAN, US
[72] LYNCH, MAGGIE, US
[71] FMC CORPORATION, US
[85] 2022-02-08
[86] 2020-08-13 (PCT/US2020/046088)
[87] (WO2021/030540)
[30] US (62/885,978) 2019-08-13

[21] **3,150,438**
[13] A1
[51] **Int.Cl. F25J 5/00 (2006.01) F25J 1/02 (2006.01) F28B 1/00 (2006.01) F28D 7/00 (2006.01) F28F 1/24 (2006.01) F28F 9/02 (2006.01)**
[25] EN
[54] **HEAT EXCHANGER SYSTEM AND METHOD**
[54] **PROCEDE ET SYSTEME D'ECHANGEUR DE CHALEUR**
[72] PAL, UMA SHANKAR, CA
[72] JOSHI, HIMANSHU, US
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2022-02-08
[86] 2020-08-14 (PCT/US2020/046271)
[87] (WO2021/030648)
[30] US (62/886,603) 2019-08-14

[21] **3,150,439**
[13] A1
[51] **Int.Cl. C02F 1/00 (2006.01) C02F 1/28 (2006.01) C02F 1/68 (2006.01)**
[25] EN
[54] **REACTOR ARRANGEMENT COMPRISING A MEANS FOR ROTATING AND/OR OSCILLATING A TRANSFORMATION DEVICE AND A METHOD OF USING SUCH REACTOR ARRANGEMENT**
[54] **AGENCEMENT DE REACTEUR COMPRENANT UN MOYEN DE ROTATION ET/OU D'OSCILLATION D'UN DISPOSITIF DE TRANSFORMATION ET PROCEDE D'UTILISATION D'UN TEL AGENCEMENT DE REACTEUR**
[72] BYSTROM, EMIL, SE
[72] LOFGREN, ERIK, SE
[72] BERGGREN, ALEXANDER, SE
[71] SPINCHEM AB, SE
[85] 2022-02-08
[86] 2020-08-25 (PCT/EP2020/073720)
[87] (WO2021/052724)
[30] SE (1951055-1) 2019-09-18

[21] **3,150,441**
[13] A1
[51] **Int.Cl. C07K 14/55 (2006.01) C12N 5/0783 (2010.01) A61K 38/20 (2006.01) A61P 3/10 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01) A61P 37/06 (2006.01) C07K 19/00 (2006.01) C12N 1/21 (2006.01) C12N 5/10 (2006.01) C12N 15/26 (2006.01) C12N 15/62 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **INTERLEUKIN-2 MUTEINS FOR THE EXPANSION OF T-REGULATORY CELLS**
[54] **MUTEINES DE L'INTERLEUKINE-2 POUR L'EXPANSION DE LYMPHOCYTES T REGULATEURS**
[72] BATES, DARREN L., US
[72] SOHN, SUE J., US
[72] CATTERALL, HANNAH, US
[72] WANG, ZHULUN, US
[71] AMGEN INC., US
[85] 2022-02-08
[86] 2020-08-13 (PCT/US2020/046202)
[87] (WO2021/030602)
[30] US (62/886,283) 2019-08-13

[21] **3,150,442**
[13] A1
[51] **Int.Cl. A61K 38/37 (2006.01)**
[25] EN
[54] **FACTOR VIII PROTEIN WITH INCREASED HALF-LIFE**
[54] **PROTEINE DU FACTEUR VIII A DEMI-VIE ACCRUE**
[72] KISTNER, STEFFEN, DE
[72] SCHUTTRUMPF, JORG, DE
[72] DAUFENBACH, JENS, DE
[72] HERBENER, PETER, DE
[72] UNGERER, CHRISTOPHER, DE
[72] DE GROOT, ANNIE, US
[72] MARTIN, WILLIAM, US
[71] BIOTEST AG, DE
[85] 2022-02-08
[86] 2020-09-01 (PCT/EP2020/074326)
[87] (WO2021/043757)
[30] EP (19194964.3) 2019-09-02
[30] EP (19202622.7) 2019-10-11

[21] **3,150,444**
[13] A1
[51] **Int.Cl. G01S 7/52 (2006.01) A61B 8/10 (2006.01)**
[25] EN
[54] **SECTOR VARIABLE TIME GAIN COMPENSATION**
[54] **COMPENSATION DE GAIN DE TEMPS VARIABLE DE SECTEUR**
[72] SCHAFER, MARK E., US
[72] CHANG, CHENG-NING, US
[72] LEFKOWITZ, ROSS, US
[71] ACCUTOME INC., US
[85] 2022-02-08
[86] 2020-08-07 (PCT/US2020/045437)
[87] (WO2021/026468)
[30] US (62/884,461) 2019-08-08

[21] **3,150,445**
[13] A1
[51] **Int.Cl. C09K 8/584 (2006.01) E21B 43/22 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR ENHANCED OIL RECOVERY**
[54] **COMPOSITIONS POUR UNE RECUPERATION ASSISTEE DE PETROLE**
[72] NGUYEN, DUY T., US
[72] HSU, TZU-PING, US
[71] CHAMPIONX USA INC., US
[85] 2022-02-08
[86] 2020-08-24 (PCT/US2020/047601)
[87] (WO2021/035207)
[30] US (62/890,235) 2019-08-22

[21] **3,150,447**
[13] A1
[51] **Int.Cl. A23L 33/21 (2016.01) A23L 7/20 (2016.01) A23L 33/17 (2016.01) A23J 1/00 (2006.01) A23J 1/12 (2006.01) A23K 10/38 (2016.01) C12C 1/16 (2006.01)**
[25] EN
[54] **PROCESS FOR RECOVERING PROTEIN AND FIBRE COMPOSITIONS FROM BREWERS' SPENT GRAIN**
[54] **PROCEDE DE RECUPERATION DE COMPOSITIONS DE PROTEINES ET DE FIBRES A PARTIR DE DRECHES DE BRASSERIE**
[72] MUNCH, STEFFEN, BE
[72] VALDEPEREZ, DANIEL, BE
[71] ANHEUSER-BUSCH INBEV S.A., BE
[85] 2022-02-04
[86] 2020-08-10 (PCT/EP2020/072432)
[87] (WO2021/028405)
[30] BE (BE2019/5518) 2019-08-09
[30] BE (BE2019/5519) 2019-08-09
[30] BE (BE2019/5589) 2019-09-06

[21] **3,150,449**
[13] A1
[51] **Int.Cl. G10L 19/02 (2013.01) H03H 21/00 (2006.01) H04S 3/02 (2006.01)**
[25] EN
[54] **AUDIO FILTERBANK WITH DECORRELATING COMPONENTS**
[54] **BANC DE FILTRES AUDIO A COMPOSANTS DE DECORRELATION**
[72] MCGRATH, DAVID S., AU
[71] DOLBY LABORATORIES LICENSING CORPORATION, US
[85] 2022-02-08
[86] 2020-09-02 (PCT/US2020/049077)
[87] (WO2021/046136)
[30] US (62/895,096) 2019-09-03

[21] **3,150,452**
[13] A1
[51] **Int.Cl. A61K 9/51 (2006.01)**
[25] EN
[54] **LIPID NANOPARTICLE COMPOSITIONS COMPRISING CLOSED-ENDED DNA AND CLEAVABLE LIPIDS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS DE NANOPARTICULES LIPIDIQUES COMPRENANT DE L'ADN A EXTREMITES FERMEES ET DES LIPIDES CLIVABLES ET LEURS PROCEDES D'UTILISATION**
[72] SU, JIE, US
[72] LI, PRUDENCE YUI TUNG, US
[72] KLATTE, DEBRA, US
[72] LIU, LEAH YU, US
[72] CHIOCCO, MATTHEW JAMES, US
[72] STANTON, MATTHEW G., US
[72] MOFFIT, JEFF, US
[72] CHATTERTON, JON EDWARD, US
[71] GENERATION BIO CO., US
[85] 2022-02-08
[86] 2020-09-03 (PCT/US2020/049266)
[87] (WO2021/046265)
[30] US (62/896,980) 2019-09-06
[30] US (62/910,720) 2019-10-04
[30] US (62/940,104) 2019-11-25

[21] **3,150,454**
[13] A1
[51] **Int.Cl. A61K 38/46 (2006.01) C12N 15/113 (2010.01) C12N 5/10 (2006.01) C12N 9/22 (2006.01) C12N 15/09 (2006.01) C12N 15/29 (2006.01)**
[25] EN
[54] **NOVEL CRISPR DNA TARGETING ENZYMES AND SYSTEMS**
[54] **NOUVEAUX ENZYMES ET SYSTEMES CIBLANT L'ADN CRISPR**
[72] SCOTT, DAVID A., US
[72] CHENG, DAVID R., US
[72] YAN, WINSTON X., US
[72] DITOMMASO, TIA M., US
[71] ARBOR BIOTECHNOLOGIES, INC., US
[85] 2022-02-08
[86] 2020-09-09 (PCT/US2020/049923)
[87] (WO2021/050534)
[30] US (62/897,859) 2019-09-09

[21] **3,150,456**
[13] A1
[51] **Int.Cl. H04W 12/00 (2021.01) H04M 1/64 (2006.01) H04M 3/22 (2006.01) H04M 3/42 (2006.01) H04M 3/436 (2006.01) H04M 3/493 (2006.01)**
[25] EN
[54] **CALL AUTHENTICATION AT THE CALL CENTER USING A MOBILE DEVICE**
[54] **AUTHENTIFICATION D'APPEL AU NIVEAU DU CENTRE D'APPEL A L'AIDE D'UN DISPOSITIF MOBILE**
[72] GUPTA, PAYAS, US
[72] NELMS II, TERRY, US
[71] PINDROP SECURITY, INC., US
[85] 2022-02-08
[86] 2020-08-27 (PCT/US2020/048175)
[87] (WO2021/041657)
[30] US (62/893,033) 2019-08-28

[21] **3,150,458**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/127 (2006.01)**
[25] EN
[54] **IMPROVED LIPID NANOPARTICLES FOR DELIVERY OF NUCLEIC ACIDS**
[54] **NANOPARTICULES LIPIDIQUES AMELIOREES POUR L'ADMINISTRATION D'ACIDES NUCLEIQUES**
[72] TAM, YING K., CA
[72] LIN, PAULO JIA CHING, CA
[72] SEMPLE, SEAN, CA
[72] BARBOSA, CHRISTOPHER J., CA
[71] ACUITAS THERAPEUTICS, INC., CA
[85] 2022-02-08
[86] 2020-08-14 (PCT/US2020/046407)
[87] (WO2021/030701)
[30] US (62/886,894) 2019-08-14

[21] **3,150,459**
[13] A1
[51] **Int.Cl. E04B 1/70 (2006.01) E04B 1/64 (2006.01)**
[25] EN
[54] **VENTILATION MEMBER AND WALL MATERIAL CONSTRUCTION STRUCTURE**
[54] **ELEMENT DE VENTILATION ET STRUCTURE DE CONSTRUCTION DE MATERIAU DE PAROI**
[72] KATO, TERUYUKI, JP
[71] NICHIHA CORPORATION, JP
[85] 2022-02-08
[86] 2020-09-30 (PCT/JP2020/037049)
[87] (WO2021/065966)
[30] JP (2019-182295) 2019-10-02

[21] **3,150,462**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-CD19 ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-CD19 ET LEURS UTILISATIONS**
[72] CHEN, YAN, US
[72] NGUYEN, JENNA, US
[72] ZHAO, KEHAO, US
[71] ELPIS BIOPHARMACEUTICALS, US
[85] 2022-02-08
[86] 2020-08-19 (PCT/US2020/047035)
[87] (WO2021/034952)
[30] US (62/888,724) 2019-08-19

[21] **3,150,463**
[13] A1
[51] **Int.Cl. A41D 1/08 (2018.01) A41B 9/02 (2006.01) A41B 9/04 (2006.01) A41B 11/14 (2006.01) A41C 1/00 (2006.01) A41D 1/06 (2006.01) A41D 13/00 (2006.01)**
[25] EN
[54] **BOTTOM GARMENT**
[54] **VETEMENT INFERIEUR**
[72] YADA, KAZUYA, JP
[72] OTOMO, HARUKA, JP
[72] SATAKE, HISAYO, JP
[71] ASAHI KASEI KABUSHIKI KAISHA, JP
[85] 2022-02-08
[86] 2021-01-28 (PCT/JP2021/003082)
[87] (WO2021/153686)
[30] JP (2020-011748) 2020-01-28
[30] JP (2020-011687) 2020-01-28

[21] **3,150,465**
[13] A1
[51] **Int.Cl. A61K 31/55 (2006.01) A61K 31/553 (2006.01) A61P 11/06 (2006.01) A61P 25/28 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) C07D 403/12 (2006.01) C07D 413/12 (2006.01) C07D 487/04 (2006.01) C07D 498/04 (2006.01)**
[25] EN
[54] **FUSED RING HETEROARYL COMPOUNDS AS RIPK1 INHIBITORS**
[54] **COMPOSES HETEROARYLE A CYCLES CONDENSES UTILISES EN TANT QU'INHIBITEURS DE RIPK1**
[72] YOON, CHEOLHWAN, KR
[72] BAE, JONGHWAN, KR
[72] KIM, NAMHEE, KR
[72] HAN, CHEOLKYU, KR
[72] KIM, MOONHWAN, KR
[72] SEO, JEONGBEOB, KR
[71] BISICHEM CO., LTD., KR
[85] 2022-02-08
[86] 2020-08-09 (PCT/KR2020/010513)
[87] (WO2021/029632)
[30] US (62/884,797) 2019-08-09

[21] **3,150,466**
[13] A1
[51] **Int.Cl. A23L 33/185 (2016.01) A23L 33/105 (2016.01) A23L 33/115 (2016.01) A23L 33/125 (2016.01) A23L 33/175 (2016.01) A23L 33/21 (2016.01) A23J 1/14 (2006.01) A23L 2/66 (2006.01)**
[25] EN
[54] **PLANT-BASED NUTRITIONAL COMPOSITIONS**
[54] **COMPOSITIONS NUTRITIONNELLES A BASE DE PLANTES**
[72] PATEL, GAURAV, US
[72] DEWILLE, NORMANELLA, US
[72] BURG, ALLISON, US
[72] GROVES, JOSHUA, US
[72] PATEL, NALINI, US
[72] PATEL, THAKORBHAI, US
[71] ABBOTT LABORATORIES, US
[85] 2022-02-08
[86] 2020-08-10 (PCT/US2020/045652)
[87] (WO2021/030286)
[30] US (62/886,760) 2019-08-14

[21] **3,150,468**
[13] A1
[51] **Int.Cl. B63B 27/25 (2006.01) B01D 53/00 (2006.01) B63B 27/30 (2006.01) B65D 90/30 (2006.01)**
[25] EN
[54] **SUPPORT VESSEL FOR ASSISTING IN LOADING FLUID HYDROCARBON CARGO ONTO A CARRIER VESSEL, AND RELATED SYSTEM AND METHOD**
[54] **NAVIRE DE SUPPORT D'AIDE AU CHARGEMENT DE CARGAISON D'HYDROCARBURE FLUIDE SUR UN NAVIRE DE TRANSPORT, ET SYSTEME ET PROCEDE ASSOCIES**
[72] LUND, ALEXANDER, NO
[71] VAHOLMEN VOC RECOVERY AS, NO
[85] 2022-02-08
[86] 2021-01-19 (PCT/NO2021/050012)
[87] (WO2021/150119)
[30] NO (20200076) 2020-01-21

[21] **3,150,473**
[13] A1
[51] **Int.Cl. F24F 6/00 (2006.01) F24F 6/16 (2006.01)**
[25] EN
[54] **DUCTED EVAPORATIVE AIR HUMIDIFIER**
[54] **HUMIDIFICATEUR D'AIR A CANAUX DE TYPE EVAPORATEUR**
[72] KASATOCHKIN, VASILII ANATOLIEVICH, RU
[72] SINIAGOVSKII KONSTANTIN BORISOVICH, RU
[72] NAZAROV, SERGEI VIKTOROVICH, RU
[72] CHEKRYSHOV, NIKOLAI VASILIEVICH, RU
[71] KASATOCHKIN, VASILII ANATOLIEVICH, RU
[71] SINIAGOVSKII KONSTANTIN BORISOVICH, RU
[85] 2022-02-08
[86] 2020-10-08 (PCT/RU2020/000531)
[87] (WO2021/029785)
[30] RU (2019125242) 2019-08-08
[30] CN (201922449839.4) 2019-12-30

[21] **3,150,475**
[13] A1
[51] **Int.Cl. A47B 3/02 (2006.01) A47B 9/16 (2006.01) D06F 81/00 (2006.01) F16B 12/00 (2006.01)**
[25] EN
[54] **COLLAPSIBLE ADJUSTABLE HEIGHT TABLE**
[54] **TABLE PLIANTE A HAUTEUR REGLABLE**
[72] LUNDIN, CHRISTOPHER, US
[72] AAMODT, EVAN EINBENDER, US
[72] DOTSEY, MICHAEL A., US
[72] DINGLER, NOAH E., US
[72] MORRISSEY, ERIN H., US
[72] TACKIE, JONATHAN N., US
[71] EVO INVENTIONS LLC, US
[85] 2022-02-08
[86] 2020-08-12 (PCT/US2020/045916)
[87] (WO2021/034566)
[30] US (62/888,725) 2019-08-19
[30] US (62/979,586) 2020-02-21

[21] **3,150,479**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) G01N 33/50 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHODS FOR DIAGNOSING, PROGNOSING AND MONITORING TREATMENT FOR THROMBOSIS IN SUBJECTS WITH SYSTEMIC LUPUS ERYTHEMATOSUS**
[54] **PROCEDES DE DIAGNOSTIC, DE PRONOSTIC ET DE SURVEILLANCE DU TRAITEMENT D'UNE THROMBOSE CHEZ DES SUJETS ATTEINTS DE LUPUS ERYTHEMATEUX DISSEMINE**
[72] DERVIEUX, THIERRY, US
[71] EXAGEN INC., US
[85] 2022-02-08
[86] 2020-08-12 (PCT/US2020/045982)
[87] (WO2021/030471)
[30] US (62/885,612) 2019-08-12
[30] US (63/002,055) 2020-03-30

[21] **3,150,480**
[13] A1
[51] **Int.Cl. A61M 5/315 (2006.01) A61M 5/20 (2006.01) A61M 5/32 (2006.01)**
[25] EN
[54] **ACTIVATABLE INJECTION DEVICE FOR DRUG DELIVERY**
[54] **DISPOSITIF D'INJECTION ACTIVABLE POUR L'ADMINISTRATION DE MEDICAMENTS**
[72] PLAMBECH, CHRISTIAN, US
[72] SVENDSEN, BJARKE LYKKE LUDVIG, US
[71] AMGEN INC., US
[85] 2022-02-08
[86] 2020-08-25 (PCT/US2020/047815)
[87] (WO2021/045932)
[30] US (62/895,041) 2019-09-03

[21] **3,150,481**
[13] A1
[51] **Int.Cl. A61M 5/31 (2006.01) A61M 5/00 (2006.01)**
[25] EN
[54] **INJECTION DEVICE FOR DRUG DELIVERY AND PACKAGING FOR THE INJECTION DEVICE**
[54] **DISPOSITIF D'INJECTION DESTINE A L'ADMINISTRATION DE MEDICAMENT ET EMBALLAGE DESTINE AU DISPOSITIF D'INJECTION**
[72] MISMAR, WAEL, US
[72] LIU, JESSICA, HAI, US
[72] BOURELLE, DYLAN, US
[72] WU, CHIA-JUNG, US
[72] DEVITT, SHAUN, US
[72] SCHALHOUB, KENNETH G., US
[72] DESAI, TEJ, US
[72] DUE, MADS, SCHJOTH, US
[72] BITONG, ANTHONY, US
[72] KESHISHIAN, ARIN, US
[72] BALLI-CRUZ, CHELSEA, US
[72] BURQUEL, PIERRE, US
[72] OBA, RYAN, US
[72] GUIRGUIS, MALAK, US
[71] AMGEN INC., US
[85] 2022-02-08
[86] 2020-09-02 (PCT/US2020/048975)
[87] (WO2021/046070)
[30] US (62/895,456) 2019-09-03
[30] US (63/018,141) 2020-04-30

[21] **3,150,482**
[13] A1
[51] **Int.Cl. A61L 2/20 (2006.01) A61M 5/00 (2006.01) A61M 5/31 (2006.01)**
[25] EN
[54] **METHOD FOR EXTERNAL STERILIZATION OF DRUG DELIVERY DEVICE**
[54] **METHODE DE STERILISATION EXTERNE D'UN DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**
[72] MISMAR, WAEL, US
[72] LIU, JESSICA HAI, US
[72] WU, CHIA-JUNG, US
[72] ABBAS, SHERMEEN A., US
[72] DEVITT, SHAUN, US
[72] SCHALHOUB, KENNETH G., US
[72] BITONG, ANTHONY, US
[72] DUE, MADS SCHJOTH, US
[72] GUIRGUIS, MALAK, US
[72] SAIFAN, RAMI, US
[71] AMGEN INC., US
[85] 2022-02-08
[86] 2020-09-16 (PCT/US2020/070545)
[87] (WO2021/056020)
[30] US (62/901,179) 2019-09-16
[30] US (62/905,341) 2019-09-24
[30] US (62/942,382) 2019-12-02

[21] **3,150,513**
[13] A1
[51] **Int.Cl. E02F 9/26 (2006.01) E02F 9/28 (2006.01)**
[25] EN
[54] **APPARATUS, METHODS, AND SYSTEMS OF MONITORING THE CONDITION OF A WEAR COMPONENT**
[54] **APPAREIL, PROCEDES ET SYSTEMES DE SURVEILLANCE DE L'ETAT D'UN COMPOSANT D'USURE**
[72] HAMILTON, IAN HUGH, AU
[71] ACTIVE CORE TECHNOLOGY PTY LTD, AU
[85] 2022-02-09
[86] 2020-08-09 (PCT/AU2020/050825)
[87] (WO2021/026597)
[30] AU (2019902878) 2019-08-10
[30] AU (2019902879) 2019-08-10
[30] AU (2019903345) 2019-09-10

[21] **3,150,517**
[13] A1
[51] **Int.Cl. E21B 17/04 (2006.01) E21B 23/00 (2006.01)**
[25] EN
[54] **A DRIVE SUB FOR A DRILLING ASSEMBLY**
[54] **REDUCTION D'ENTRAINEMENT POUR ENSEMBLE DE FORAGE**
[72] BEACH, ANDREW PHILLIP, AU
[72] MOKARAMIAN, AMIR, AU
[71] REFLEX INSTRUMENTS ASIA PACIFIC PTY LTD, AU
[85] 2022-02-09
[86] 2020-08-27 (PCT/AU2020/050894)
[87] (WO2021/035299)
[30] AU (2019903131) 2019-08-27

[21] **3,150,518**
[13] A1
[51] **Int.Cl. G06Q 40/02 (2012.01)**
[25] EN
[54] **PREDICTIVE ONLINE BANKING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE SERVICES BANCAIRES EN LIGNE PREDICTIFS**
[72] LALLEMENT, YANNICK, CA
[72] ORLOWSKI, RAFAL, CA
[72] VIDALES, PABLO, CA
[72] WONG, KOK-LUNG, CA
[71] THE BANK OF NOVA SCOTIA, CA
[85] 2022-02-09
[86] 2020-08-12 (PCT/CA2020/051101)
[87] (WO2021/026650)
[30] US (62/886,190) 2019-08-13

[21] **3,150,520**
[13] A1
[51] **Int.Cl. H03B 5/04 (2006.01) G01S 7/282 (2006.01)**
[25] EN
[54] **TRANSPOSED DELAY LINE OSCILLATOR AND METHOD**
[54] **OSCILLATEUR A LIGNE A RETARD TRANSPOSEE ET PROCEDE**
[72] NICHOLLS, CHARLES WILLIAM TREMLETT, CA
[71] NANOWAVE TECHNOLOGIES INC., CA
[85] 2022-02-09
[86] 2020-08-13 (PCT/CA2020/051107)
[87] (WO2021/026655)
[30] US (62/886,010) 2019-08-13

[21] **3,150,521**
[13] A1
[51] **Int.Cl. H03L 7/099 (2006.01) G01S 7/292 (2006.01) G01S 7/40 (2006.01)**
[25] EN
[54] **DELAY DEVICE AND METHOD OF EMULATING RADAR SIGNAL PROPAGATION DELAYS**
[54] **DISPOSITIF DE RETARD ET PROCEDE D'EMULATION DE RETARDS DE PROPAGATION DE SIGNAL RADAR**
[72] GALE, DANIEL PETER, CA
[72] NICHOLLS, CHARLES WILLIAM TREMLETT, CA
[71] NANOWAVE TECHNOLOGIES INC., CA
[85] 2022-02-09
[86] 2020-08-13 (PCT/CA2020/051109)
[87] (WO2021/026657)
[30] US (62/885,897) 2019-08-13

[21] **3,150,525**
[13] A1
[51] **Int.Cl. H03B 17/00 (2006.01) G01S 7/03 (2006.01) H03B 1/04 (2006.01) H03L 7/085 (2006.01)**
[25] EN
[54] **HIGH STABILITY OPTOELECTRONIC OSCILLATOR AND METHOD**
[54] **OSCILLATEUR OPTOELECTRONIQUE A STABILITE ELEVEE ET PROCEDE**
[72] HALL, TREVOR JAMES, CA
[72] HASAN, MEHEDI, CA
[72] NICHOLLS, CHARLES WILLIAM TREMLETT, CA
[72] SPOKOINYI, BORIS, CA
[71] NANOWAVE TECHNOLOGIES INC., CA
[85] 2022-02-09
[86] 2020-08-13 (PCT/CA2020/051110)
[87] (WO2021/026658)
[30] US (62/886,039) 2019-08-13

[21] **3,150,537**
[13] A1
[51] **Int.Cl. H01M 10/44 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **DISCHARGING CONTROL METHOD AND CHARGING CONTROL METHOD FOR RECHARGEABLE BATTERY, AND RECHARGEABLE BATTERY**
[54] **PROCEDE DE COMMANDE DE DECHARGE ET PROCEDE DE COMMANDE DE CHARGE POUR BATTERIE RECHARGEABLE, ET BATTERIE RECHARGEABLE**
[72] LI, SONG, CN
[72] DENG, AIWEN, CN
[72] JIN, TIHANG, CN
[71] SHENZHEN MAIGESONG ELECTRICAL TECHNOLOGY CO., LTD., CN
[85] 2022-02-09
[86] 2020-08-12 (PCT/CN2020/108651)
[87] (WO2021/027838)
[30] CN (201910741671.6) 2019-08-12

[21] **3,150,539**
[13] A1
[51] **Int.Cl. B60L 13/06 (2006.01) B61H 7/08 (2006.01)**
[25] EN
[54] **INTEGRATED ELECTROMAGNET AND MAGLEV TRAIN**
[54] **ELECTROAIMANT INTEGRE ET TRAIN A SUSTENTATION MAGNETIQUE**
[72] JIANG, FUJIE, CN
[72] HAN, WEITAO, CN
[72] DENG, GUIMEI, CN
[72] WU, DONGHUA, CN
[72] YANG, CHANGFENG, CN
[71] CRRC QINGDAO SIFANG CO., LTD., CN
[85] 2022-02-09
[86] 2021-01-26 (PCT/CN2021/073747)
[87] (WO2021/190118)
[30] CN (202010211874.7) 2020-03-23

[21] **3,150,540**
[13] A1
[51] **Int.Cl. C08L 23/12 (2006.01) C08J 3/20 (2006.01) C08J 11/04 (2006.01) C08K 5/01 (2006.01) C08L 23/06 (2006.01) C08L 23/08 (2006.01) C08L 25/06 (2006.01) C08L 51/06 (2006.01)**
[25] EN
[54] **UPGRADED RECYCLED POLYOLEFIN**
[54] **POLYOLEFINE RECYCLEE AMELIOREE**
[72] KAHLEN, SUSANNE MARGARETE, AT
[72] BRAUN, HERMANN, AT
[72] LIU, YI, AT
[72] ALBRECHT, ANDREAS, AT
[72] HUBNER, GERHARD, AT
[71] BOREALIS AG, AT
[85] 2022-02-09
[86] 2020-06-17 (PCT/EP2020/066818)
[87] (WO2021/028100)
[30] EP (19191459.7) 2019-08-13

[21] **3,150,541**
[13] A1
[51] **Int.Cl. B60P 7/08 (2006.01) B66F 9/065 (2006.01) B66F 9/12 (2006.01) G05B 19/416 (2006.01) G05B 19/418 (2006.01) G05D 1/02 (2020.01)**
[25] EN
[54] **VEHICLE FOR TRANSPORTING CARGO**
[54] **VEHICULE DE TRANSPORT DE CARGAISON**
[72] BEHLING, JAN, DE
[72] ROTGERI, MATHIAS, DE
[72] EMMERICH, JAN, SOREN, DE
[72] HONING, DIRK, DE
[72] KLOKOWSKI, PATRICK, DE
[72] HAMMERMEISTER, CHRISTIAN, DE
[72] TEN HOMPEL, MICHAEL, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2022-02-09
[86] 2020-07-20 (PCT/EP2020/070407)
[87] (WO2021/032383)
[30] DE (10 2019 122 052.1) 2019-08-16

[21] **3,150,542**
[13] A1
[51] **Int.Cl. G01F 23/22 (2006.01) B01J 3/00 (2006.01)**
[25] EN
[54] **A METHOD FOR MEASURING A LIQUID LEVEL IN A PRESSURE VESSEL**
[54] **PROCEDE DE MESURE D'UN NIVEAU DE LIQUIDE DANS UN RECIPIENT SOUS PRESSION**
[72] BERTINI, PAOLO, CH
[72] SCOTTO, ANDREA, CH
[72] DI CARLO, GABRIELE, CH
[71] CASALE SA, CH
[85] 2022-02-09
[86] 2020-07-20 (PCT/EP2020/070435)
[87] (WO2021/037438)
[30] EP (19194629.2) 2019-08-30

[21] **3,150,543**
[13] A1
[51] **Int.Cl. B64F 5/40 (2017.01) B64C 1/00 (2006.01)**
[25] EN
[54] **AIRCRAFT INTERIOR CLADDING, SURFACE CHANGE ELEMENT FOR AIRCRAFT INTERIOR CLADDING, USE, METHOD OF PRODUCTION AND METHOD OF REVISION**
[54] **PANNEAU INTERIEUR D'AERONEF, ELEMENT DE SURFACE REMPLACABLE DU PANNEAU INTERIEUR D'AERONEF, UTILISATION, PROCEDE DE PRODUCTION ET PROCEDE DE MISE A JOUR**
[72] RAUCH, SIEGBERT, DE
[71] RAUCH, SIEGBERT, DE
[85] 2022-02-09
[86] 2020-08-06 (PCT/EP2020/072112)
[87] (WO2021/028306)
[30] EP (19190939.9) 2019-08-09

[21] **3,150,544**
[13] A1
[51] **Int.Cl. A61P 35/00 (2006.01) C07D 487/04 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **[1,2,4]TRIAZOLO[1,5-C]QUINAZOLIN-5-AMINES**
[54] **[1,2,4]TRIAZOLO[1,5-C]QUINAZOLIN-5-AMINES**
[72] LEFRANC, JULIEN, DE
[72] SCHMEES, NORBERT, DE
[72] ZORN, LUDWIG, DE
[72] MEIER, ROBIN MICHAEL, DE
[72] HERBERT, SIMON ANTHONY, DE
[72] GUNTHER, JUDITH, DE
[72] GUTCHER, ILONA, DE
[72] ROSE, LARS, DE
[72] BADER, BENJAMIN, DE
[72] STOCKIGT, DETLEF, DE
[72] GORJANACZ, MATYAS, DE
[72] KOBER, CHRISTINA, DE
[72] BUCHMANN, BERND, DE
[72] BOHME, STEPHAN, DE
[72] BOTHE, ULRICH, DE
[72] PLATTEN, MICHAEL, DE
[72] BAUMANN, DANIEL, DE
[71] BAYER AKTIENGESELLSCHAFT, DE
[71] BAYER PHARMA AKTIENGESELLSCHAFT, DE
[71] DEUTSCHES KREBSFORSCHUNGSZENTRUM, DE
[85] 2022-02-09
[86] 2020-08-10 (PCT/EP2020/072377)
[87] (WO2021/028382)
[30] EP (19191299.7) 2019-08-12
[30] EP (20167707.7) 2020-04-02

[21] **3,150,545**
[13] A1
[51] **Int.Cl. A61K 39/085 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **IMMUNOGENIC COMPOSITION**
[54] **COMPOSITION IMMUNOGENE**
[72] BUFALI, SIMONE, IT
[72] STRANGES, DANIELA, IT
[72] CAMPANELLA, GIOVANNA, IT
[71] GLAXOSMITHKLINE BIOLOGICALS SA, BE
[85] 2022-02-09
[86] 2020-08-10 (PCT/EP2020/072428)
[87] (WO2021/028402)
[30] EP (19191991.9) 2019-08-15

[21] **3,150,546**
[13] A1
[51] **Int.Cl. G01N 33/569 (2006.01)**
[25] EN
[54] **METHOD FOR THE CHARACTERIZATION OF PEPTIDE:MHC BINDING POLYPEPTIDES**
[54] **PROCEDE DE CARACTERISATION DE PEPTIDE : POLYPEPTIDES DE LIAISON AU CMH**
[72] SCHUSTER, HEIKO, DE
[72] HUTT, MEIKE, DE
[72] WEINSCHENK, TONI, DE
[72] BUNK, SEBASTIAN, DE
[72] SCHOOR, OLIVER, DE
[72] BACKERT, LINUS, DE
[72] HOFMANN, MARTIN, DE
[72] FRITSCHE, JENS, DE
[72] UNVERDORBEN, FELIX, DE
[72] SCHIMMACK, GISELA, DE
[72] SCHWORER, FLORIAN, DE
[71] IMMATICS BIOTECHNOLOGIES GMBH, DE
[85] 2022-02-09
[86] 2020-08-12 (PCT/EP2020/072674)
[87] (WO2021/028503)
[30] DE (10 2019 121 834.9) 2019-08-13
[30] US (62/886,225) 2019-08-13

[21] **3,150,551**
[13] A1
[51] **Int.Cl. A61K 9/50 (2006.01) A61K 31/167 (2006.01) A61K 31/58 (2006.01) A61K 47/40 (2006.01) A61P 11/00 (2006.01)**
[25] EN
[54] **GOLF BALL-LIKE MICROPARTICLES FOR USE IN THE TREATMENT AND PREVENTION OF PULMONARY DISEASES**
[54] **MICROPARTICULES DE TYPE BALLE DE GOLF DESTINEES A ETRE UTILISEES DANS LE TRAITEMENT ET LA PREVENTION DE MALADIES PULMONAIRES**
[72] MAES, PAUL, BE
[72] CATALDO, DIDIER, BE
[72] BIGAZZI, WILLIAM, BE
[72] EVRARD, BRIGITTE, BE
[71] AQUILON PHARMACEUTICALS, BE
[85] 2022-02-08
[86] 2020-09-10 (PCT/EP2020/075416)
[87] (WO2021/048322)
[30] BE (BE2019/5603) 2019-09-10

[21] **3,150,552**
[13] A1
[51] **Int.Cl. B01J 20/28 (2006.01) B01J 20/32 (2006.01) G01N 1/40 (2006.01)**
[25] FR
[54] **DEVICE CONTAINING GLASS BEADS FUNCTIONALIZED WITH POLYETHYLENEIMINE, AND USE THEREOF FOR CAPTURING MICROORGANISMS**
[54] **DISPOSITIF CONTENANT DES BILLES DE VERRE FONCTIONNALISEES AVEC DU POLYETHYLENEIMINE, ET LEUR UTILISATION POUR CAPTER LES MICRO-ORGANISMES**
[72] ABLAIN, WILFRIED, FR
[71] MICROBS SAS, FR
[85] 2022-02-08
[86] 2020-10-27 (PCT/EP2020/080199)
[87] (WO2021/083907)
[30] FR (FR1912288) 2019-10-31

[21] **3,150,553**
[13] A1
[51] **Int.Cl. C08L 33/06 (2006.01) C08L 23/08 (2006.01) C10L 1/14 (2006.01)**
[25] EN
[54] **POLYMER COMPOSITIONS AND USE THEREOF AS POUR POINT DEPRESSANTS IN PARAFFIN-CONTAINING HYDROCARBON OILS**
[54] **COMPOSITIONS POLYMERES ET LEUR UTILISATION EN TANT QU'AMELIORANTS DE POINT D'ECOULEMENT DANS DES HUILES D'HYDROCARBURES CONTENANT DE LA PARAFFINE**
[72] FEUSTEL, MICHAEL, DE
[72] SAHL, MIKE, DE
[72] KRULL, MATTHIAS, DE
[71] CLARIANT INTERNATIONAL LTD, CH
[85] 2022-02-09
[86] 2020-08-31 (PCT/EP2020/074179)
[87] (WO2021/058228)
[30] EP (19199724.6) 2019-09-26

[21] **3,150,554**
[13] A1
[51] **Int.Cl. H04N 19/59 (2014.01) H04N 19/593 (2014.01) H04N 19/70 (2014.01)**
[25] EN
[54] **MATRIX COMBINATION FOR MATRIX-WEIGHTED INTRA PREDICTION IN VIDEO CODING**
[54] **COMBINAISON DE MATRICES POUR UNE PREDICTION INTRA PONDEREE PAR LA MATRICE DANS UN SYSTEME DE CODAGE VIDEO**
[72] BIATEK, THIBAUD LAURENT, US
[72] RAMASUBRAMONIAN, ADARSH KRISHNAN, US
[72] VAN DER AUWERA, GEERT, US
[72] KARCZEWICZ, MARTA, US
[71] QUALCOMM INCORPORATED, US
[85] 2022-02-08
[86] 2020-09-18 (PCT/US2020/051601)
[87] (WO2021/055828)
[30] US (62/902,868) 2019-09-19
[30] US (62/905,115) 2019-09-24
[30] US (62/905,865) 2019-09-25
[30] US (17/024,522) 2020-09-17

[21] **3,150,555**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **ANTI-FUCOSYL-GM1 ANTIBODIES**
[54] **ANTICORPS ANTI-FUCOSYL-GM1**
[72] DURRANT, LINDA GILLIAN, GB
[71] SCANCELL LIMITED, GB
[85] 2022-02-09
[86] 2020-09-02 (PCT/EP2020/074441)
[87] (WO2021/043810)
[30] GB (1912657.2) 2019-09-03

[21] **3,150,556**
[13] A1
[51] **Int.Cl. A23L 33/20 (2016.01) A23L 33/00 (2016.01) A23L 33/175 (2016.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE IMPROVEMENT AND MAINTENANCE OF WEIGHT LOSS**
[54] **COMPOSITIONS ET PROCEDES POUR L'AMELIORATION ET LE MAINTIEN D'UNE PERTE DE POIDS**
[72] MARTIN, FRANCOIS-PIERRE, CH
[72] HAGER, JORG, FR
[72] CARAYOL, JEROME, CH
[72] VALSESIA, ARMAND, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-02-09
[86] 2020-09-17 (PCT/EP2020/075930)
[87] (WO2021/058358)
[30] EP (19198863.3) 2019-09-23

[21] **3,150,557**
[13] A1
[51] **Int.Cl. A61B 5/08 (2006.01) A61M 16/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETERMINING ONSET AND DISEASE PROGRESSION**
[54] **SYSTEME ET PROCEDE POUR DETERMINER LE DEBUT ET LA PROGRESSION D'UNE MALADIE**
[72] LAPIDOT, YARON, IL
[72] BAR ILAN, IGAL MOSHE, IL
[71] RESPIRATION SCAN LTD, IL
[85] 2022-02-09
[86] 2020-08-13 (PCT/IL2020/050896)
[87] (WO2021/028928)
[30] US (62/885,847) 2019-08-13
[30] US (62/955,790) 2019-12-31

[21] **3,150,558**
[13] A1
[51] **Int.Cl. A01K 1/01 (2006.01)**
[25] EN
[54] **A METHOD AND ARRANGEMENT FOR BARN CLEANING**
[54] **PROCEDE ET ARRANGEMENT DE NETTOYAGE D'ETABLE**
[72] BRINK, MAREK, SE
[72] FURDAK, JOZEF, SE
[72] JAKLIK, BARTLOMIEJ, SE
[72] SLUSARCZYK, BARTLOMIEJ, SE
[71] DELAVAL HOLDING AB, SE
[85] 2022-02-09
[86] 2020-07-24 (PCT/SE2020/050751)
[87] (WO2021/029807)
[30] SE (1950927-2) 2019-08-13

[21] **3,150,559**
[13] A1
[51] **Int.Cl. A24D 3/04 (2006.01) A24D 3/06 (2006.01)**
[25] EN
[54] **A MOUTHPIECE FOR AN ARTICLE FOR USE IN AN AEROSOL PROVISION SYSTEM AND AN ARTICLE FOR USE IN AN AEROSOL PROVISION SYSTEM**
[54] **EMBOUT POUR ARTICLE DESTINE A ETRE UTILISE DANS UN SYSTEME DE FOURNITURE D'AEROSOL ET ARTICLE DESTINE A ETRE UTILISE DANS UN SYSTEME DE FOURNITURE D'AEROSOL**
[72] DUBEY, UMESH, GB
[72] DAVIES, IANTO, GB
[72] GRISHCHENKO, ANDREI, GB
[71] BRITISH AMERICAN TABACCO (INVESTMENTS) LIMITED, GB
[85] 2022-02-09
[86] 2020-08-19 (PCT/GB2020/051976)
[87] (WO2021/032972)
[30] GB (1911872.8) 2019-08-19

[21] **3,150,560**
[13] A1
[51] **Int.Cl. A01G 7/04 (2006.01)**
[25] EN
[54] **ELECTROMAGNETIC TREATMENT OF CROPS**
[54] **TRAITEMENT ELECTROMAGNETIQUE DE CULTURES**
[72] CORDOVA, JACOB, US
[72] KERR, JAKE, US
[71] BRIGHT YETI, INC., US
[85] 2022-02-09
[86] 2020-08-07 (PCT/US2020/045310)
[87] (WO2021/030161)
[30] US (62/884,778) 2019-08-09

[21] **3,150,562**
[13] A1
[51] **Int.Cl. A41D 31/06 (2019.01) A41D 31/04 (2019.01) A41D 13/002 (2006.01) A41D 13/005 (2006.01) A41D 31/02 (2019.01)**
[25] EN
[54] **EXTREMITY HEATER**
[54] **APPAREIL DE CHAUFFAGE D'EXTREMITE**
[72] MAPEN, BARRY E., US
[72] WHITNEY, CHRISTIAN A., US
[72] RICHARDS, KEVIN P., US
[71] CARDINAL ENGINEERING LLC, US
[85] 2022-02-09
[86] 2020-08-10 (PCT/US2020/045616)
[87] (WO2021/034529)
[30] US (62/890,014) 2019-08-21

[21] **3,150,564**
[13] A1
[51] **Int.Cl. B62M 6/55 (2010.01) B62M 11/02 (2006.01) B62M 11/14 (2006.01)**
[25] EN
[54] **APPARATUS FOR THE ELECTRIC PROPULSION OF A VEHICLE, IN PARTICULAR OF A HUMAN-POWERED VEHICLE**
[54] **APPAREIL POUR LA PROPULSION ELECTRIQUE D'UN VEHICULE, EN PARTICULIER D'UN VEHICULE A PROPULSION HUMAINE**
[72] SPAGGIARI, MATTEO, IT
[71] BIKEE BIKE S.R.L., IT
[85] 2022-02-09
[86] 2020-08-05 (PCT/IB2020/057403)
[87] (WO2021/028784)
[30] IT (102019000014526) 2019-08-09

[21] **3,150,567**
[13] A1
[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/04 (2006.01) A61M 25/02 (2006.01) A61M 25/06 (2006.01) A61M 29/00 (2006.01)**
[25] EN
[54] **TRANSSEPTAL SHEATH WITH ANCHORING COIL FOR CONTROLLED LEFT ATRIAL ACCESS**
[54] **GAINE TRANSSEPTALE AVEC BOBINE D'ANCRAGE POUR ACCES AURICULAIRE GAUCHE COMMANDE**
[72] KUHN, MATTHEW, US
[72] SALAZAR, JORGE, US
[72] BALLEW, CHRISTINE, US
[72] MARQUEZ, ROLANDO, US
[72] MCMULLEN, ELLEN MARIE, US
[72] PORTER, WILLIAM PATRICK, US
[71] ETHICON, INC., US
[85] 2022-02-09
[86] 2020-08-10 (PCT/IB2020/057520)
[87] (WO2021/028822)
[30] US (62/886,411) 2019-08-14
[30] US (16/937,693) 2020-07-24

[21] **3,150,570**
[13] A1
[51] **Int.Cl. A23P 10/40 (2016.01) A23L 33/00 (2016.01) A23L 33/115 (2016.01) A23L 33/125 (2016.01) A23L 33/17 (2016.01) A23P 10/22 (2016.01) A23L 2/395 (2006.01)**
[25] EN
[54] **NUTRITIONAL POWDER MANUFACTURING PROCESS USING MICRONIZATION, AND POWDER COMPOSITION**
[54] **PROCEDE DE FABRICATION DE POUDRE NUTRITIONNELLE UTILISANT LA MICRONISATION, ET COMPOSITION DE POUDRE**
[72] GUPTA, ROCKENDRA, US
[72] BOFF, JEFFREY, US
[71] ABBOTT LABORATORIES, US
[85] 2022-02-09
[86] 2020-08-11 (PCT/US2020/045695)
[87] (WO2021/030307)
[30] US (62/887,016) 2019-08-15

[21] **3,150,571**
[13] A1
[51] **Int.Cl. B65G 1/04 (2006.01)**
[25] EN
[54] **A TRACK ARRANGEMENT, AN AUTOMATED STORAGE AND RETRIEVAL SYSTEM AND AN AUTOMATED STORAGE AND RETRIEVAL METHOD**
[54] **ARRANGEMENT DE VOIES, SYSTEME DE STOCKAGE ET DE RECUPERATION AUTOMATISE ET PROCEDE DE STOCKAGE ET DE RECUPERATION AUTOMATISE**
[72] RAZUMOV, SERGEY, CY
[71] STOW ROBOTICS GMBH, DE
[85] 2022-02-09
[86] 2019-09-27 (PCT/IB2019/058231)
[87] (WO2021/059007)

[21] **3,150,573**
[13] A1
[51] **Int.Cl. A23J 3/26 (2006.01) A23P 30/20 (2016.01) A23P 30/40 (2016.01) A23J 3/14 (2006.01) A23J 3/22 (2006.01)**
[25] EN
[54] **METHOD FOR THE PRODUCTION OF PROTEIN-CONTAINING FOODS**
[54] **PROCEDE DE PRODUCTION D'ALIMENTS CONTENANT DES PROTEINES**
[72] WEINBERGER, MICHAEL, CH
[72] STIRNEMANN, ERICH, CH
[72] WINDHAB, ERICH, CH
[72] MITRA, BHASKAR, CH
[71] BUHLER AG, CH
[85] 2022-02-10
[86] 2020-08-20 (PCT/EP2020/073444)
[87] (WO2021/032866)
[30] EP (19192660.9) 2019-08-20
[30] EP (19202278.8) 2019-10-09
[30] EP (20184014.7) 2020-07-03

[21] **3,150,577**
[13] A1
[51] **Int.Cl. A23L 2/39 (2006.01) A23C 9/16 (2006.01) A23C 9/18 (2006.01) A23G 1/56 (2006.01) B65D 85/804 (2006.01)**
[25] EN
[54] **BEVERAGE INGREDIENT CONTAINERS, METHODS OF MAKING AND METHODS OF USING THE SAME**
[54] **CONTENANTS D'INGREDIENTS DE BOISSON, LEURS PROCEDES DE FABRICATION ET LEURS PROCEDES D'UTILISATION**
[72] CLOSE, JAMES, GB
[72] HENSON, SIAN, GB
[72] MASSEY, AYSE TULAY, GB
[72] NCHARI, LUANGA, GB
[71] KONINKLIJKE DOUWE EGBERTS B.V., NL
[85] 2022-02-10
[86] 2020-08-07 (PCT/EP2020/072289)
[87] (WO2021/028351)
[30] GB (1911711.8) 2019-08-15

[21] **3,150,582**
[13] A1
[51] **Int.Cl. A01N 37/40 (2006.01) C07D 277/68 (2006.01)**
[25] EN
[54] **BENAZOLIN-CHOLINE AND ITS USE IN THE AGROCHEMICAL FIELD**
[54] **BENAZOLINE-CHOLINE ET SON UTILISATION DANS LE DOMAINE AGROCHIMIQUE**
[72] MARTELLETTI, ARIANNA, DE
[72] LORENTZ, LOTHAR, DE
[72] BICKERS, UDO, DE
[72] DOLLER, UWE, DE
[72] WILLMS, LOTHAR, DE
[71] BAYER AKTIENGESELLSCHAFT, DE
[85] 2022-02-10
[86] 2020-08-10 (PCT/EP2020/072354)
[87] (WO2021/028375)
[30] EP (19191403.5) 2019-08-13

[21] **3,150,584**
[13] A1
[51] **Int.Cl. B29C 43/02 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR PRODUCING MICROSTRUCTURES**
[54] **DISPOSITIF ET PROCEDE DE FABRICATION DE MICROSTRUCTURES**
[72] KULIK, MICHAEL, DE
[72] TISSIN, NIKOLAJ, DE
[71] LTS LOHMANN THERAPIE-SYSTEME AG, DE
[85] 2022-02-10
[86] 2020-08-18 (PCT/EP2020/073039)
[87] (WO2021/032701)
[30] DE (10 2019 122 648.1) 2019-08-22

[21] **3,150,585**
[13] A1
[51] **Int.Cl. B01D 53/02 (2006.01) B01D 53/26 (2006.01) B01D 53/28 (2006.01) F25B 43/00 (2006.01)**
[25] EN
[54] **METAL-ORGANIC FRAMEWORK (MOF) MATERIALS FOR SUPERIOR REFRIGERANT DRYING PERFORMANCE**
[54] **MATERIAUX A STRUCTURE ORGANOMETALLIQUE (MOF) POUR UNE PERFORMANCE SUPERIEURE DE SECHAGE DE FLUIDE FRIGORIGENE**
[72] KUNAPULI, RAHUJIT PRASAD, US
[72] BANERJEE, DEBASIS, US
[72] THALLAPALLY, PRAVEEN K., US
[72] SINWELL, MICHAEL A., US
[72] MCGRAIL, BERNARD P., US
[71] PARKER-HANNIFIN CORPORATION, US
[85] 2022-02-09
[86] 2020-08-27 (PCT/US2020/048082)
[87] (WO2021/041594)
[30] US (62/893,421) 2019-08-29

[21] **3,150,586**
[13] A1
[51] **Int.Cl. H04W 4/02 (2018.01) G16H 40/60 (2018.01) A61M 5/172 (2006.01) G06N 5/04 (2006.01) A61B 5/00 (2006.01) A61M 5/142 (2006.01)**
[25] EN
[54] **PREDICTION BASED DELIVERING OR GUIDING OF THERAPY FOR DIABETES**
[54] **ADMINISTRATION OU GUIDAGE D'UNE THERAPIE POUR LE DIABETE BASES SUR LA PREDICTION**
[72] WEYDT, PATRICK E., US
[72] AGRAWAL, PRATIK J., US
[72] LINTEREUR, LOUIS J., US
[72] GOLENBERG, LAVIE, US
[72] DUNLEAVY, DAVID, US
[71] MEDTRONIC MINIMED, INC., US
[85] 2022-02-09
[86] 2020-08-28 (PCT/US2020/048446)
[87] (WO2021/041838)
[30] US (62/893,717) 2019-08-29
[30] US (62/893,722) 2019-08-29
[30] US (17/004,951) 2020-08-27

[21] **3,150,587**
[13] A1
[51] **Int.Cl. A61K 31/714 (2006.01) A61P 3/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS USING ADENOSYLCOBALAMIN**
[54] **COMPOSITIONS ET METHODES UTILISANT DE L'ADENOSYLCOBALAMINE**
[72] DE MARCHI, UMBERTO, CH
[72] FEIGE, JEROME, CH
[72] HERMANT, AURELIE, CH
[72] KARAZ, SONIA, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-02-10
[86] 2020-09-23 (PCT/EP2020/076486)
[87] (WO2021/058514)
[30] US (62/905,508) 2019-09-25

[21] **3,150,589**
[13] A1
[51] **Int.Cl. H04W 4/02 (2018.01) A61B 5/00 (2006.01) A61B 5/11 (2006.01) A61M 5/172 (2006.01) G06N 5/04 (2006.01) A61M 5/142 (2006.01)**
[25] EN
[54] **GESTURE-BASED CONTROL OF DIABETES THERAPY**
[54] **GESTION, BASEE SUR DES GESTES, DU TRAITEMENT DU DIABETE**
[72] WEYDT, PATRICK E., US
[72] AGRAWAL, PRATIK J., US
[72] LINTEREUR, LOUIS J., US
[72] GOLENBERG, LAVIE, US
[72] DUNLEAVY, DAVID, US
[71] MEDTRONIC MINIMED, INC., US
[85] 2022-02-09
[86] 2020-08-28 (PCT/US2020/048461)
[87] (WO2021/041850)
[30] US (62/893,717) 2019-08-29
[30] US (62/893,722) 2019-08-29
[30] US (17/004,969) 2020-08-27

[21] **3,150,590**
[13] A1
[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/29 (2006.01)**
[25] EN
[54] **QUICKDRAW KNOT PUSHER: SIDE LOADING KNOT PUSHER**
[54] **POUSSE-N□UD A TRACTION RAPIDE : POUSSE- N□UD A CHARGEMENT LATERAL**
[72] VU, THIEN, US
[72] ISSHIKI, RYO, US
[71] CONMED CORPORATION, US
[85] 2022-02-09
[86] 2020-09-03 (PCT/US2020/049124)
[87] (WO2021/046170)
[30] US (62/895,160) 2019-09-03

[21] **3,150,591**
[13] A1
[51] **Int.Cl. B65B 35/16 (2006.01) B65B 5/10 (2006.01) B65B 43/46 (2006.01) B65B 43/52 (2006.01) B65B 43/60 (2006.01) B65G 47/82 (2006.01)**
[25] EN
[54] **A METHOD AND AN APPARATUS FOR FILLING CONTAINERS WITH FOOD ITEMS**
[54] **PROCEDE ET APPAREIL DE REMPLISSAGE DE RECIPIENTS AVEC DES ARTICLES ALIMENTAIRES**
[72] FINNSSON, THORIR, IS
[72] GARDARSSON, HORDUR, IS
[71] MAREL ICELAND EHF., IS
[85] 2022-02-10
[86] 2020-09-07 (PCT/EP2020/074933)
[87] (WO2021/044053)
[30] EP (19196001.2) 2019-09-06
[30] DK (PA 2019 70674) 2019-10-30

[21] **3,150,594**
[13] A1
[51] **Int.Cl. A61K 38/12 (2006.01) A61P 21/00 (2006.01) A61P 21/04 (2006.01)**
[25] EN
[54] **NEUROLOGICAL DISEASE TREATMENT WITH COMPLEMENT INHIBITORS**
[54] **TRAITEMENT DE MALADIES NEUROLOGIQUES AVEC DES INHIBITEURS DE COMPLEMENT**
[72] READ, SIMON J., US
[72] RICARDO, ALONSO, US
[72] SAYEGH, CAMIL, US
[72] XU, XIANGYANG, US
[72] TANG, YALAN, US
[72] TANG, GUO-QING, US
[71] RA PHARMACEUTICALS, INC., US
[85] 2022-02-09
[86] 2020-09-11 (PCT/US2020/050422)
[87] (WO2021/050885)
[30] US (62/899,488) 2019-09-12
[30] US (62/969,742) 2020-02-04
[30] US (62/988,587) 2020-03-12
[30] US (63/021,742) 2020-05-08

[21] **3,150,595**
[13] A1
[51] **Int.Cl. A61M 37/00 (2006.01)**
[25] EN
[54] **MICROARRAY APPLICATOR AND METHOD FOR DISPLACING A PLUNGER ACTING UPON THE MICROARRAY**
[54] **APPLICATEUR DE MICRO-RESEAU ET PROCEDE DE DEPLACEMENT D'UN PISTON QUI AGIT SUR LE MICRO-RESEAU**
[72] SCHERR, SEBASTIAN, DE
[72] BRITTEN, MIRIAM, DE
[72] TAK, MAURICE, DE
[72] MEIJERINK, MARIANNE, NL
[71] LTS LOHMANN THERAPIE-SYSTEME AG, DE
[85] 2022-02-10
[86] 2020-08-25 (PCT/EP2020/073670)
[87] (WO2021/037816)
[30] DE (10 2019 122 948.0) 2019-08-27
[30] DE (10 2020 109 563.5) 2020-04-06

[21] **3,150,596**
[13] A1
[51] **Int.Cl. H01F 38/14 (2006.01)**
[25] EN
[54] **DATA LINK FOR RESONANT INDUCTION WIRELESS CHARGING**
[54] **LIAISON DE DONNEES POUR CHARGE SANS FIL A INDUCTION RESONANTE**
[72] DAGA, ANDREW W., US
[72] MCMAHON, FRANCIS J., US
[72] GANDER, EDWARD J., US
[72] WARD, MATTHEW L., US
[71] MOMENTUM DYNAMICS CORPORATION, US
[85] 2022-02-09
[86] 2020-09-11 (PCT/US2020/050492)
[87] (WO2021/050941)
[30] US (16/570,801) 2019-09-13
[30] US (16/675,618) 2019-11-06

[21] **3,150,599**
[13] A1
[51] **Int.Cl. F04B 53/06 (2006.01) B67D 1/10 (2006.01) F04B 17/03 (2006.01) F04B 53/10 (2006.01) F04B 23/06 (2006.01)**
[25] EN
[54] **MICRO-NUTATING PUMP ASSEMBLY**
[54] **ENSEMBLE POMPE A MICRO-NUTATION**
[72] ROBERTS, JEVAWN SEBASTIAN, US
[72] FLINT, ERIC THOMAS, US
[72] SMITH, LUKE ANTHONY, US
[71] THE COCA-COLA COMPANY, US
[85] 2022-02-09
[86] 2021-01-06 (PCT/US2021/012322)
[87] (WO2021/141997)
[30] US (62/958,007) 2020-01-07

[21] **3,150,600**
[13] A1
[51] **Int.Cl. B33Y 50/00 (2015.01) G06F 30/20 (2020.01) G06F 30/27 (2020.01)**
[25] EN
[54] **METHOD OF DETERMINING THE ORIENTATION OF A THREE-DIMENSIONAL MODEL FOR ADDITIVE MANUFACTURING**
[54] **PROCEDE DE DETERMINATION DE L'ORIENTATION D'UN MODELE TRIDIMENSIONNEL POUR LA FABRICATION ADDITIVE**
[72] STAHL, CHRISTIAN, DE
[72] WEISS, DANIEL, DE
[71] DENTSPLY SIRONA INC., US
[71] SIRONA DENTAL SYSTEMS GMBH, DE
[85] 2022-02-10
[86] 2020-08-21 (PCT/EP2020/073452)
[87] (WO2021/032867)
[30] EP (19192934.8) 2019-08-21

[21] **3,150,601**
[13] A1
[51] **Int.Cl. G01R 21/133 (2006.01) H02J 1/08 (2006.01) G06F 1/26 (2006.01) H02J 1/14 (2006.01) H02J 7/34 (2006.01) H02J 9/00 (2006.01)**
[25] EN
[54] **ELECTRICITY METER WITH FAULT TOLERANT POWER SUPPLY**
[54] **COMPTEUR D'ELECTRICITE A ALIMENTATION ELECTRIQUE INSENSIBLE AUX DEFAILLANCES**
[72] RAMIREZ, ANIBAL DIEGO, US
[71] LANDIS+GYR INNOVATIONS, INC., US
[85] 2022-02-09
[86] 2020-08-03 (PCT/US2020/044722)
[87] (WO2021/030087)
[30] US (16/541,762) 2019-08-15

[21] **3,150,602**
[13] A1
[51] **Int.Cl. A63B 71/12 (2006.01) A41D 13/05 (2006.01)**
[25] EN
[54] **HOCKEY GOALKEEPER LEG PAD**
[54] **JAMBIERE DE GARDIEN DE BUT DE HOCKEY**
[72] OUELLET, FRANCIS, CA
[71] SPORT MASKA INC., CA
[85] 2022-02-10
[86] 2020-08-14 (PCT/CA2020/051121)
[87] (WO2021/026667)
[30] US (62/886,568) 2019-08-14

[21] **3,150,603**
[13] A1
[51] **Int.Cl. F02B 43/02 (2006.01) F02B 63/04 (2006.01) F02G 5/02 (2006.01)**
[25] EN
[54] **COMBINED HEAT AND POWER SYSTEM AND METHOD OF OPERATION**
[54] **SYSTEME DE PRODUCTION COMBINEE DE CHALEUR ET DE PUISSANCE ET PROCEDE DE FONCTIONNEMENT**
[72] CONDE, RICARDO, US
[71] ENEXOR ENERGY, LLC, US
[85] 2022-02-09
[86] 2020-08-03 (PCT/US2020/044727)
[87] (WO2021/030088)
[30] US (16/538,144) 2019-08-12

[21] **3,150,605**
[13] A1
[51] **Int.Cl. B65G 23/04 (2006.01) B65G 13/00 (2006.01) B65G 23/44 (2006.01) B65G 39/02 (2006.01)**
[25] EN
[54] **CONVEYOR PULLEY APPARATUS, SYSTEMS, AND METHODS**
[54] **PROCEDES, SYSTEMES ET APPAREIL DE POULIE DE TRANSPORTEUR**
[72] SCHMIDGALL, PAUL, US
[72] OLSON, KENT, US
[71] SUPERIOR INDUSTRIES, INC., US
[85] 2022-02-09
[86] 2020-08-07 (PCT/US2020/045529)
[87] (WO2021/030227)
[30] US (62/885,185) 2019-08-09

[21] **3,150,606**
[13] A1
[51] **Int.Cl. F16J 15/3252 (2016.01) F16J 15/3276 (2016.01) F16B 21/00 (2006.01) F16J 15/34 (2006.01)**
[25] EN
[54] **SLIDE RING SEAL ASSEMBLY WHICH CAN BE AXIALLY MOUNTED**
[54] **ENSEMBLE GARNITURE D'ETANCHEITE MECANIQUE POUVANT ETRE MONTEE AXIALEMENT**
[72] MORGENSTERN, FLORIAN, DE
[72] RAPP, CHRISTOPH, DE
[72] FAHNING, CHRISTIAN, DE
[71] EAGLEBURGMANN GERMANY GMBH & CO. KG, DE
[85] 2022-02-10
[86] 2020-07-09 (PCT/EP2020/069332)
[87] (WO2021/052649)
[30] DE (10 2019 214 252.4) 2019-09-19

[21] **3,150,608**
[13] A1
[51] **Int.Cl. C04B 28/14 (2006.01) C04B 38/10 (2006.01)**
[25] EN
[54] **FOAMED LIQUEFIERS IN GYPSUM BOARDS**
[54] **LIQUEFACTEURS EN MOUSSE DANS DES PLAQUES DE PLATRE**
[72] KARAKOUSSIS, STERGIOS, DE
[72] PARASKOV, GEORGI, DE
[72] HARTMANN, ALEXANDER, DE
[72] PETER, ANTON, DE
[71] KNAUF GIPS KG, DE
[85] 2022-02-10
[86] 2019-11-27 (PCT/EP2019/000321)
[87] (WO2021/104602)

[21] **3,150,610**
[13] A1
[51] **Int.Cl. G06F 3/0481 (2022.01) G06F 3/0488 (2022.01) G06F 3/038 (2013.01) G06F 9/455 (2018.01)**
[25] EN
[54] **DYNAMICALLY SWITCHING BETWEEN POINTER MODES**
[54] **COMMUTATION DYNAMIQUE ENTRE MODES DE POINTEUR**
[72] PAVLOU, CHRIS, US
[71] CITRIX SYSTEMS, INC., US
[85] 2022-02-10
[86] 2020-06-26 (PCT/US2020/039787)
[87] (WO2021/071563)
[30] US (62/911,520) 2019-10-07
[30] US (16/825,037) 2020-03-20

[21] **3,150,611**
[13] A1
[51] **Int.Cl. A61B 1/267 (2006.01) A61B 1/005 (2006.01) A61B 1/015 (2006.01) A61M 16/04 (2006.01)**
[25] EN
[54] **A LARYNGOSCOPE FOR OROTRACHEAL INTUBATION**
[54] **LARYNGOSCOPE POUR INTUBATION ORO-TRACHEALE**
[72] MAZZA, ANDREA, IT
[71] MEDSNIPER S.R.L., IT
[85] 2022-02-10
[86] 2020-10-16 (PCT/IB2020/059757)
[87] (WO2021/079243)
[30] IT (102019000019562) 2019-10-22

[21] **3,150,612**
[13] A1
[51] **Int.Cl. A63F 9/24 (2006.01)**
[25] EN
[54] **SKILLFULL REGULATED MULTI-LEVEL CASINO GAMES CONFIGURED TO ENCOURAGE EXPLORATION OF GAME STAGES, SCENARIOS, AND AREAS**
[54] **JEUX D'ADRESSE DE CASINO MULTI-NIVEAUX REGLEMENTES CONCUS POUR ENCOURAGER L'EXPLORATION DE NIVEAUX, DE SCENARIOS ET DE ZONES DE JEUX**
[72] OBERBERGER, MICHAEL M., US
[72] LOW, MICHAEL M., US
[71] AKKADIAN ENTERPRISES, US
[85] 2022-02-09
[86] 2020-08-11 (PCT/US2020/045783)
[87] (WO2021/030357)
[30] US (16/541,697) 2019-08-15

[21] **3,150,614**
[13] A1
[51] **Int.Cl. C09K 8/035 (2006.01) C09K 8/516 (2006.01)**
[25] EN
[54] **HYDROCARBON WELLS INCLUDING CROSSLINKED POLYMER GRANULES AS LOST CIRCULATION MATERIAL AND METHODS OF DRILLING THE HYDROCARBON WELLS**
[54] **PUITS D'HYDROCARBURES COMPRENANT DES GRANULES POLYMERES RETICULES EN TANT QUE MATERIAU COLMATANT, ET PROCEDES DE FORAGE DE PUITS D'HYDROCARBURES**
[72] SHIRLEY, ROBERT M., US
[72] ENTCHEV, PAVLIN B., US
[72] GALUSKA, ALAN A., US
[72] HANDY, WILLIAM, US
[71] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US
[85] 2022-02-10
[86] 2020-07-24 (PCT/US2020/043513)
[87] (WO2021/034451)
[30] US (62/888,214) 2019-08-16
[30] US (62/890,186) 2019-08-22
[30] US (62/944,106) 2019-12-05
[30] US (62/951,746) 2019-12-20

[21] **3,150,615**
[13] A1
[51] **Int.Cl. G05D 1/02 (2020.01) G01S 17/86 (2020.01) G01S 17/931 (2020.01) G01S 17/89 (2020.01) G01S 17/93 (2020.01)**
[25] EN
[54] **SYSTEM AND METHOD OF CONTROL FOR AUTONOMOUS OR REMOTE-CONTROLLED VEHICLE PLATFORM**
[54] **SYSTEME ET PROCEDE DE COMMANDE POUR PLATEFORME DE VEHICULE A COMMANDE AUTONOME OU A DISTANCE**
[72] CONNELL, RICHARD, US
[72] MILLER, MICHAEL, US
[72] LAWSON, JOSHUA, US
[72] SAXENA, SURYANSH, US
[72] LEVINE, MATTHEW, US
[72] KINI, PRATHAMESH, US
[72] BOUTERIGE, RAPHAEL, US
[72] GLISSON, MATTHEW, US
[72] RUSSELL, RAYMOND, US
[72] KETTERER, JAMES, US
[72] HERMAN, HERMAN, US
[71] DEERE & COMPANY, US
[71] CARNEGIE MELLON UNIVERSITY, US
[85] 2022-02-10
[86] 2020-06-30 (PCT/US2020/040381)
[87] (WO2021/040884)
[30] US (62/894,685) 2019-08-30

[21] **3,150,620**
[13] A1
[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/0205 (2006.01) A61B 5/0215 (2006.01) A61B 5/024 (2006.01) A61B 5/0245 (2006.01) A61M 5/142 (2006.01)**
[25] EN
[54] **WEARABLE DEVICES FOR MONITORING PHYSIOLOGICAL CHANGES AND METHODS OF USE**
[54] **DISPOSITIFS PORTABLES POUR SURVEILLER DES CHANGEMENTS PHYSIOLOGIQUES ET PROCEDES D'UTILISATION**
[72] RADER, WILLIAM K., US
[72] ROSERO, SPENCER Z., US
[71] EFFERENT LABS, INC., US
[85] 2022-02-09
[86] 2020-08-12 (PCT/US2020/045892)
[87] (WO2021/030416)
[30] US (62/885,599) 2019-08-12

[21] **3,150,621**
[13] A1
[51] **Int.Cl. F01B 3/00 (2006.01) F01B 3/04 (2006.01) F01B 9/06 (2006.01) F02B 75/28 (2006.01)**
[25] EN
[54] **CAM MACHINE WITH ADJUSTMENT MECHANISM**
[54] **MACHINE A CAMES A MECANISME DE REGLAGE**
[72] BAHNEV, BOYAN KIRILOV, BG
[71] BAHNEV, BOYAN KIRILOV, BG
[85] 2022-02-16
[86] 2020-07-23 (PCT/BG2020/000030)
[87] (WO2021/016677)
[30] BG (112972) 2019-07-26

[21] **3,150,623**
[13] A1
[51] **Int.Cl. H04W 8/30 (2009.01) G01D 4/00 (2006.01)**
[25] EN
[54] **SEQUENTIAL STORAGE OF COLLECTED DATA FROM HETEROGENEOUS INTERVALS**
[54] **STOCKAGE SEQUENTIEL DE DONNEES COLLECTEES A PARTIR D'INTERVALLES HETEROGENES**
[72] MARSH, IVAN, US
[72] BELLVILLE, MICHAEL, US
[71] LANDIS+GYR INNOVATIONS, INC., US
[85] 2022-02-09
[86] 2020-08-12 (PCT/US2020/045933)
[87] (WO2021/034568)
[30] US (16/543,950) 2019-08-19

[21] **3,150,626**
[13] A1
[51] **Int.Cl. G06Q 40/00 (2012.01)**
[25] EN
[54] **METHOD AND DEVICE FOR GENERATING ACCOUNTING VOUCHER BASED ON SAP SYSTEM**
[54] **PROCEDE ET DISPOSITIF PERMETTANT DE GENERER UN DOCUMENT DE COMPTABILITE BASE SUR UN SYSTEME SAP**
[72] JIANG, ZHENGJUN, CN
[72] LIU, PANPAN, CN
[72] QI, CHANGLIN, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-01-31
[86] 2020-06-24 (PCT/CN2020/097851)
[87] (WO2021/017694)
[30] CN (201910702304.5) 2019-07-31

[21] **3,150,627**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01) A61K 38/00 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATMENT**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT**
[72] ITTNER, LARS, AU
[72] KE, YAZI DIANA, AU
[71] MACQUARIE UNIVERSITY, AU
[85] 2022-02-10
[86] 2020-08-12 (PCT/AU2020/050833)
[87] (WO2021/026601)
[30] AU (2019902892) 2019-08-12
[30] AU (2020901796) 2020-06-01

[21] **3,150,629**
[13] A1
[51] **Int.Cl. H01J 49/00 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR IMPROVED PUMPING OF ION DETECTOR**
[54] **PROCEDES ET APPAREIL DE POMPAGE AMELIORE DE DETECTEUR D'IONS**
[72] HUNTER, KEVIN, AU
[72] JUREK, RUSSELL, AU
[71] ADAPTAS SOLUTIONS PTY LTD, AU
[85] 2022-02-10
[86] 2020-08-24 (PCT/AU2020/050886)
[87] (WO2021/035293)
[30] AU (2019903116) 2019-08-26

[21] **3,150,632**
[13] A1
[51] **Int.Cl. E04B 2/74 (2006.01) E04H 17/14 (2006.01)**
[25] EN
[54] **PRIVACY PANEL AND SYSTEM**
[54] **PANNEAU ET SYSTEME DE CONFIDENTIALITE**
[72] ERDMAN, DEREK, CA
[72] TOM, STEVENSON, CA
[72] DIXON, STEPHEN, CA
[71] MULTY HOME LP, CA
[85] 2022-02-10
[86] 2020-08-10 (PCT/CA2020/051097)
[87] (WO2021/026646)
[30] US (62/885,245) 2019-08-10

[21] **3,150,638**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01) C07H 21/04 (2006.01)**
[25] EN
[54] **METHOD, COMPOSITION AND KIT FOR SIZE SELECTIVE ENRICHMENT OF NUCLEIC ACIDS**
[54] **PROCEDE, COMPOSITION ET KIT D'ENRICHISSEMENT A SELECTION DE TAILLE D'ACIDES NUCLEIQUES**
[72] CHIU, YIN TO, CN
[72] MARSHAK, DANIEL ROBERT, US
[72] KITTUR, HARSHA MADAN, US
[72] KOBAYASHI, MASAE, US
[71] PHASE SCIENTIFIC INTERNATIONAL, LTD., CN
[85] 2022-02-10
[86] 2020-08-26 (PCT/CN2020/111449)
[87] (WO2021/037075)
[30] US (62/892,041) 2019-08-27

[21] **3,150,645**
[13] A1
[51] **Int.Cl. B32B 33/00 (2006.01) B32B 7/12 (2006.01) B32B 27/08 (2006.01) B32B 27/32 (2006.01) B32B 37/12 (2006.01)**
[25] EN
[54] **PREPARATION METHOD OF PTFE-BASED NANO FUNCTIONAL COMPOSITE MEMBRANE AND USE**
[54] **PROCEDE DE PREPARATION ET UTILISATION D'UNE MEMBRANE COMPOSITE NANO FONCTIONNELLE A BASE DE PTFE**
[72] XIANG, XIN, CN
[72] LIU, JIANPING, CN
[72] WU, JIANHUA, CN
[72] SUN, ZHIYU, CN
[72] ZHU, YAWEI, CN
[72] LI, WENWEI, CN
[72] SHUAI, ZHENGFENG, CN
[72] WU, HONG, CN
[72] ZHAO, JINGXIN, CN
[72] ZHAO, JINQUAN, CN
[72] WU, JIANPING, CN
[71] CHINA THREE GORGES CORPORATION, CN
[71] CHINA THREE GORGES RENEWABLES(GROUP)CO., LTD., CN
[71] NANJING HAOHUI HI TECH CO., LTD., CN
[85] 2022-02-10
[86] 2020-12-15 (PCT/CN2020/136609)
[87] (WO2022/011963)
[30] CN (202011220491.2) 2020-11-05

[21] **3,150,652**
[13] A1
[51] **Int.Cl. E06B 9/42 (2006.01) E06B 9/322 (2006.01)**
[25] EN
[54] **SAFETY RECIPROCATING WAND**
[54] **BAGUETTE DE SECURITE A MOUVEMENT DE VA-ET-VIENT**
[72] MAROCCO, NORBERT, CA
[71] MAXXMAR INC., CA
[85] 2022-02-10
[86] 2019-07-11 (PCT/CA2019/000105)
[87] (WO2021/003548)

[21] **3,150,659**
[13] A1
[51] **Int.Cl. G02B 6/02 (2006.01) G02B 1/04 (2006.01)**
[25] EN
[54] **POLYMER OPTICAL FIBRE FOR ACTIVE IMPLANTABLE MEDICAL DEVICES (AIMD) AND AIMD USING SAME**
[54] **FIBRE OPTIQUE POLYMERE POUR DISPOSITIFS MEDICAUX IMPLANTABLES ACTIFS (AIMD) ET AIMD L'UTILISANT**
[72] DE COCK DE RAMEYEN, AURELIE, BE
[72] DOGUET, PASCAL, BE
[72] CALLEGARI, VINCENT, BE
[72] NIEUWENHUYS, AURORE, BE
[71] SYNERGIA MEDICAL, BE
[85] 2022-02-10
[86] 2019-08-14 (PCT/EP2019/071803)
[87] (WO2021/028034)

[21] **3,150,661**
[13] A1
[51] **Int.Cl. C12N 5/02 (2006.01) C12N 5/071 (2010.01)**
[25] EN
[54] **CELL CULTURE METHODS**
[54] **PROCEDES DE CULTURE CELLULAIRE**
[72] YOON, SEONGKYU, US
[72] KUANG, BINGYU, US
[72] GALBRAITH, SHAUN, US
[71] THE UNIVERSITY OF MASSACHUSETTS, US
[85] 2022-02-09
[86] 2020-08-14 (PCT/US2020/046330)
[87] (WO2021/030672)
[30] US (62/886,683) 2019-08-14

[21] **3,150,664**
[13] A1
[51] **Int.Cl. E02D 5/80 (2006.01) B63B 21/26 (2006.01) E02D 27/52 (2006.01) F16B 13/10 (2006.01)**
[25] EN
[54] **FIXATION DEVICE AND INSTALLATION METHOD**
[54] **DISPOSITIF DE FIXATION ET PROCEDE D'INSTALLATION**
[72] HUNT, ANDREW, GB
[72] CRESSWELL, NICHOLAS, GB
[71] SUSTAINABLE MARINE ENERGY LIMITED, GB
[85] 2022-02-10
[86] 2020-08-11 (PCT/GB2020/051911)
[87] (WO2021/028676)
[30] GB (1911535.1) 2019-08-12
[30] GB (1911538.5) 2019-08-12

[21] **3,150,665**
[13] A1
[51] **Int.Cl. H04H 60/05 (2009.01)**
[25] EN
[54] **MEDIA SYSTEM AND METHOD OF GENERATING MEDIA CONTENT**
[54] **SYSTEME MULTIMEDIA ET PROCEDE DE GENERATION D'UN CONTENU MULTIMEDIA**
[72] NICHOLSON, PAUL ARTHUR, GB
[71] SOUNDERX LIMITED, GB
[85] 2022-02-10
[86] 2020-08-12 (PCT/GB2020/051919)
[87] (WO2021/028683)
[30] GB (1911585.6) 2019-08-13

[21] **3,150,668**
[13] A1
[51] **Int.Cl. E04C 5/07 (2006.01) B29C 70/02 (2006.01) E04C 5/20 (2006.01)**
[25] EN
[54] **APPARATUS AND PROCESS FOR PRODUCING PULTRUDED FRP REBAR**
[54] **APPAREIL ET PROCEDE DE PRODUCTION D'UNE BARRE D'ARMATURE FRP PULTRUDEE**
[72] HOLDSWORTH, PETER GRANVILLE, NZ
[72] PICKEN, DAVID GORDON, AE
[71] PULTRON COMPOSITES LIMITED, NZ
[85] 2022-02-10
[86] 2020-08-13 (PCT/IB2020/057612)
[87] (WO2021/033086)
[30] NZ (756344) 2019-08-16

[21] **3,150,681**
[13] A1
[51] **Int.Cl. A61K 31/506 (2006.01) A61P 35/00 (2006.01) C07D 401/14 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01) C07D 471/10 (2006.01) C07D 491/08 (2006.01)**
[25] EN
[54] **IMIDAZOLYL PYRIMIDINYLAMINE COMPOUNDS AS CDK2 INHIBITORS**
[54] **COMPOSES IMIDAZOLYL-PYRIMIDINYLAMINES UTILISES COMME INHIBITEURS DE LA CDK2**
[72] YE, MIN, US
[72] CHEN, YINGNAN, US
[72] FAVATA, MARGARET, US
[72] LO, YVONNE, US
[72] YE, QINDA, US
[72] LI, JINGWEI, US
[72] MUKAI, KEN, US
[72] SMITH, BRANDON, US
[72] WU, LIANGXING, US
[72] YAO, WENQING, US
[71] INCYTE CORPORATION, US
[85] 2022-02-10
[86] 2020-08-13 (PCT/US2020/046078)
[87] (WO2021/030537)
[30] US (62/886,735) 2019-08-14

[21] **3,150,685**
[13] A1
[51] **Int.Cl. A61L 27/54 (2006.01) A61L 27/14 (2006.01) A61L 27/30 (2006.01)**
[25] EN
[54] **IODINE-INFUSED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE**
[54] **POLYETHYLENE A POIDS MOLECULAIRE ULTRA ELEVE INFUSE AVEC DE L'IODE**
[72] AIED, AHMED, GB
[72] KHAN, MOHAMMED IMRAN, GB
[72] MACHADO, GIL, GB
[71] BIOMET MANUFACTURING, LLC, US
[85] 2022-02-10
[86] 2020-08-11 (PCT/US2020/045770)
[87] (WO2021/030350)
[30] US (62/885,530) 2019-08-12

[21] **3,150,689**
[13] A1
[51] **Int.Cl. C07D 239/47 (2006.01) C07D 239/48 (2006.01) C07D 239/49 (2006.01)**
[25] EN
[54] **HETEROCYCLIC COMPOUNDS AS KINASE INHIBITORS**
[54] **COMPOSES HETEROCYCLIQUES EN TANT QU'INHIBITEURS DE KINASE**
[72] CHAKRAVARTY, SARVAJIT, US
[72] PHAM, SON MINH, US
[72] KANKANALA, JAYAKANTH, US
[72] CHEN, JIYUN, US
[72] PUJALA, BRAHMAM, IN
[72] BHATT, BHAWANA, IN
[72] GANGAR, MUKESH, IN
[72] SHETE, AMIT S., IN
[71] NUVATION BIO INC., US
[85] 2022-02-10
[86] 2020-08-13 (PCT/US2020/046233)
[87] (WO2021/030623)
[30] US (62/886,792) 2019-08-14

[21] **3,150,692**
[13] A1
[51] **Int.Cl. A23G 1/00 (2006.01) A23G 3/00 (2006.01) A23G 3/54 (2006.01) A63H 3/00 (2006.01) A63H 3/20 (2006.01) A63H 33/00 (2006.01) A63H 33/08 (2006.01)**
[25] EN
[54] **CANDY FIGURE WITH INTERCHANGEABLE ELEMENTS**
[54] **FIGURINE EN BONBON AVEC ELEMENTS INTERCHANGEABLES**
[72] LEE, JUDY JONHEE, US
[71] FERRARA CANDY COMPANY, US
[85] 2022-02-10
[86] 2020-08-13 (PCT/US2020/046196)
[87] (WO2021/030597)
[30] US (62/886,107) 2019-08-13

[21] **3,150,695**
[13] A1
[51] **Int.Cl. B02C 18/22 (2006.01) A47J 42/24 (2006.01) A47J 42/34 (2006.01) A47J 42/40 (2006.01) B02C 18/08 (2006.01) A24B 7/00 (2006.01)**
[25] EN
[54] **HERB GRINDER**
[54] **BROYEUR D'HERBES**
[72] HUANG, RICHARD YAO TIEN, US
[71] CLOUDIOUS9 INC., US
[85] 2022-02-10
[86] 2020-07-21 (PCT/US2020/042930)
[87] (WO2021/030011)
[30] US (16/538,615) 2019-08-12

[21] **3,150,701**
[13] A1
[51] **Int.Cl. A61K 31/517 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) C07D 401/06 (2006.01) C07D 401/14 (2006.01) C07D 403/06 (2006.01) C07D 405/06 (2006.01) C07D 405/14 (2006.01) C07D 413/06 (2006.01) C07D 413/14 (2006.01) C07D 471/04 (2006.01) C07D 471/08 (2006.01) C07D 487/08 (2006.01) C07D 491/10 (2006.01) C07D 498/08 (2006.01)**
[25] EN
[54] **ALKYNYL QUINAZOLINE COMPOUNDS**
[54] **COMPOSES D'ALCYNYLE QUINAZOLINE**
[72] LUCAS, MATTHEW C., US
[72] PADILLA, FERNANDO, US
[72] FLOHR, ALEXANDER, CH
[72] ARISTA, LUCA, CH
[72] BUCK, ELIZABETH, US
[71] BLACK DIAMOND THERAPEUTICS, INC., US
[85] 2022-02-10
[86] 2020-08-14 (PCT/US2020/046425)
[87] (WO2021/030711)
[30] US (62/887,392) 2019-08-15
[30] US (63/065,028) 2020-08-13

[21] **3,150,732**
[13] A1
[51] **Int.Cl. C12N 5/078 (2010.01) A61K 35/26 (2015.01) C12Q 1/00 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **METHODS OF DETERMINING THE SUITABILITY OF CULTURED THYMUS TISSUE FOR IMPLANTATION INTO HUMANS AND ASSOCIATED METHODS OF USE**
[54] **PROCEDES POUR DETERMINER LA CONVENANCE D'UN TISSU DE THYMUS CULTIVE POUR L'IMPLANTATION CHEZ L'HOMME ET PROCEDES D'UTILISATION ASSOCIES**
[72] MARKERT, MARY LOUISE, US
[72] HALE, LAURA P., US
[72] TRACY, ALEX, US
[72] MARKS, KRISTIN, US
[72] PIHEL, KARIN, US
[72] KURTZBERG, JOANNE, US
[72] SEMPOWSKI, GREGORY D., US
[72] MACINTYRE, ANDREW N., US
[72] CHEATHAM, LYNN, US
[71] DUKE UNIVERSITY, US
[71] ENZYVANT THERAPEUTICS, INC., US
[85] 2022-02-10
[86] 2020-08-14 (PCT/US2020/046341)
[87] (WO2021/034650)
[30] US (62/888,799) 2019-08-19
[30] US (63/039,153) 2020-06-15

[21] **3,150,733**
[13] A1
[51] **Int.Cl. A61K 47/52 (2017.01) A61K 47/54 (2017.01) A61P 19/00 (2006.01)**
[25] EN
[54] **HYDROPHOBIC PEPTIDE SALTS FOR EXTENDED RELEASE COMPOSITIONS**
[54] **SELS PEPTIDIQUES HYDROPHOBES POUR COMPOSITIONS A LIBERATION PROLONGEE**
[72] ANG, JAKE, US
[72] BATTU, SUNIL KUMAR, US
[72] LABER, JOSHUA, US
[72] ESTRADA, KAROL, US
[72] LEBOWITZ, JONATHAN, US
[72] CHOU, JOYCE, US
[71] BIOMARIN PHARMACEUTICAL INC., US
[85] 2022-02-10
[86] 2020-08-12 (PCT/US2020/045885)
[87] (WO2021/030411)
[30] US (62/885,705) 2019-08-12
[30] US (62/935,052) 2019-11-13
[30] US (62/963,354) 2020-01-20
[30] US (62/964,848) 2020-01-23
[30] US (63/038,652) 2020-06-12

[21] **3,150,734**
[13] A1
[51] **Int.Cl. A61K 9/127 (2006.01) A61K 47/69 (2017.01) A61K 9/50 (2006.01) A61K 31/713 (2006.01) A61K 35/12 (2015.01) A61K 48/00 (2006.01)**
[25] EN
[54] **LARGE SCALE PRODUCTION OF EXOSOME MIMETICS AND USES THEREOF**
[54] **PRODUCTION A GRANDE ECHELLE DE MIMETIQUES D'EXOSOMES ET LEURS UTILISATIONS**
[72] MOSES, MARSHA A., US
[72] GUO, PENG, US
[72] MORAD, GOLNAZ, US
[72] HUANG, JING, US
[71] CHILDREN'S MEDICAL CENTER CORPORATION, US
[85] 2022-02-10
[86] 2020-08-13 (PCT/US2020/046050)
[87] (WO2021/034582)
[30] US (62/887,876) 2019-08-16

[21] **3,150,735**
[13] A1
[51] **Int.Cl. H04L 9/32 (2006.01) H04W 12/06 (2021.01) G06N 3/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PRIVACY-ENABLED BIOMETRIC PROCESSING**
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT BIOMETRIQUE RESPECTANT LA CONFIDENTIALITE**
[72] STREIT, SCOTT EDWARD, US
[71] PRIVATE IDENTITY LLC, US
[85] 2022-02-10
[86] 2020-08-13 (PCT/US2020/046061)
[87] (WO2021/030527)
[30] US (16/539,824) 2019-08-13

[21] **3,150,736**
[13] A1
[51] **Int.Cl. C07D 207/08 (2006.01) C07D 207/09 (2006.01) C07D 213/61 (2006.01) C07D 213/62 (2006.01) C07D 213/70 (2006.01) C07D 213/74 (2006.01) C07D 231/20 (2006.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01) C07D 513/22 (2006.01)**
[25] EN
[54] **PROCESS OF MAKING CFTR MODULATORS**
[54] **PROCEDE DE PRODUCTION DE MODULATEURS DE CFTR**
[72] ANGELL, PAUL, US
[72] COCHRAN, JOHN E., US
[72] LITTLER, BENJAMIN J., US
[72] SIESEL, DAVID ANDREW, US
[72] URBINA, ARMANDO, US
[72] ANDERSON, COREY DON, US
[72] CLEMENS, JEREMY J., US
[72] CLEVELAND, THOMAS, US
[72] COON, TIMOTHY RICHARD, US
[72] FRIEMAN, BRYAN, US
[72] MCCARTNEY, JASON, US
[72] MILLER, MARK THOMAS, US
[72] PARASELLI, PRASUNA, US
[72] PIERRE, FABRICE, US
[72] SWIFT, SARA E., US
[72] ZHOU, JINGLAN, US
[71] VERTEX PHARMACEUTICALS INCORPORATED, US
[85] 2022-02-10
[86] 2020-08-13 (PCT/US2020/046116)
[87] (WO2021/030554)
[30] US (62/886,660) 2019-08-14

[21] **3,150,737**
[13] A1
[51] **Int.Cl. C10G 45/58 (2006.01) C10G 47/00 (2006.01) C10G 65/12 (2006.01) C10M 101/02 (2006.01)**
[25] EN
[54] **PROCESS FOR IMPROVING BASE OIL YIELDS**
[54] **PROCESSUS POUR AMELIORER LES RENDEMENTS EN HUILE DE BASE**
[72] FARRELL, THOMAS RALPH, US
[72] ZHANG, MINGHUI, US
[72] SAMPATH, VIJAY, US
[72] LEI, GUAN-DAO, US
[72] TREVINO, HORACIO, US
[71] CHEVRON U.S.A. INC., US
[85] 2022-02-09
[86] 2020-08-12 (PCT/IB2020/057559)
[87] (WO2021/028839)
[30] US (62/885,359) 2019-08-12

[21] **3,150,738**
[13] A1
[51] **Int.Cl. A61K 31/435 (2006.01) A61P 11/00 (2006.01) C07D 513/22 (2006.01)**
[25] EN
[54] **MODULATORS OF CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR**
[54] **MODULATEURS DU REGULATEUR DE LA CONDUCTANCE TRANSMEMBRANAIRE DE LA FIBROSE KYSTIQUE**
[72] ABELA, ALEXANDER RUSSELL, US
[72] ANDERSON, COREY DON, US
[72] BOOKSER, BRETT C., US
[72] BUSCH, BRETT B., US
[72] CLEMENS, JEREMY J., US
[72] CLEVELAND, THOMAS, US
[72] COON, TIMOTHY RICHARD, US
[72] FRIEMAN, BRYAN, US
[72] GHIRMAI, SENAIT G., US
[72] HADIDA RUAH, SARA SABINA, US
[72] ISHIHARA, YOSHIHIRO, US
[72] KHATUYA, HARIPADA, US
[72] MCCARTNEY, JASON, US
[72] MILLER, MARK THOMAS, US
[72] PARASELLI, PRASUNA, US
[72] PIERRE, FABRICE, US
[72] TERMIN, ANDREAS, US
[72] SWIFT, SARA E., US
[72] UY, JOHNNY, US
[72] VOGEL, CARL V., US
[72] ZHOU, JINGLAN, US
[71] VERTEX PHARMACEUTICALS INCORPORATED, US
[85] 2022-02-10
[86] 2020-08-13 (PCT/US2020/046122)
[87] (WO2021/030556)
[30] US (62/886,611) 2019-08-14
[30] US (62/886,739) 2019-08-14

[21] **3,150,739**
[13] A1
[51] **Int.Cl. A61M 5/28 (2006.01) A61M 5/315 (2006.01) A61M 5/20 (2006.01) A61M 5/32 (2006.01)**
[25] EN
[54] **DRUG DELIVERY DEVICE**
[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**
[72] FINKELSTEIN, EMIL, US
[72] EILERTSEN, LARS, US
[72] SORENSEN, MICHAEL, US
[72] MADURO NORBO, TOBIAS, US
[71] AMGEN INC., US
[85] 2022-02-10
[86] 2020-09-29 (PCT/US2020/053176)
[87] (WO2021/067206)
[30] US (62/908,504) 2019-09-30
[30] US (62/961,048) 2020-01-14

[21] **3,150,740**
[13] A1
[51] **Int.Cl. A61M 5/315 (2006.01)**
[25] EN
[54] **PLUNGER GASKET WITH REDUCED SURFACE CONTACT**
[54] **JOINT DE PISTON A CONTACT DE SURFACE REDUIT**
[72] DAVIS, BENJAMIN M., US
[72] DOORNBOS, DAVID A., US
[71] NEOMED, INC., US
[85] 2022-02-09
[86] 2020-08-26 (PCT/US2020/047949)
[87] (WO2021/055145)
[30] US (16/575,469) 2019-09-19

[21] **3,150,741**
[13] A1
[51] **Int.Cl. C10M 109/02 (2006.01) C10M 171/00 (2006.01)**
[25] EN
[54] **METHOD FOR IMPROVING ENGINE PERFORMANCE WITH RENEWABLE LUBRICANT COMPOSITIONS**
[54] **PROCEDE POUR AMELIORER LES PERFORMANCES D'UN MOTEUR AVEC DES COMPOSITIONS LUBRIFIANTES RENOUVELABLES**
[72] VAN DAM, WILLEM, US
[72] PATEL, MIHIR K., US
[72] LEE, DAVID S., US
[71] CHEVRON U.S.A. INC., US
[85] 2022-02-10
[86] 2020-08-14 (PCT/IB2020/057665)
[87] (WO2021/028877)
[30] US (62/886,407) 2019-08-14

[21] **3,150,742**
[13] A1
[51] **Int.Cl. A63G 7/00 (2006.01) A63G 31/00 (2006.01)**
[25] EN
[54] **GATE SYSTEMS AND METHODS FOR ROTATING LOADING PLATFORM**
[54] **SYSTEMES DE PORTE ET PROCEDES DE ROTATION DE PLATEFORME DE CHARGEMENT**
[72] MAJDALI, DAVID GERARD, US
[72] HABIAK, GREGORY PAUL, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2022-02-09
[86] 2020-08-25 (PCT/US2020/047795)
[87] (WO2021/041409)
[30] US (16/552,892) 2019-08-27

[21] **3,150,743**
[13] A1
[51] **Int.Cl. C07G 1/00 (2011.01) C08G 8/00 (2006.01) C08G 64/30 (2006.01)**
[25] EN
[54] **MULTIFUNCTIONAL CYCLIC ORGANIC CARBONATES AS CURING AGENTS FOR ORGANIC COMPOUNDS HAVING PHENOLIC HYDROXYL GROUPS**
[54] **CARBONATES ORGANIQUES CYCLIQUES MULTIFONCTIONNELS UTILISES EN TANT QU'AGENTS DE DURCISSEMENT POUR DES COMPOSES ORGANIQUES AYANT DES GROUPES HYDROXYLES PHENOLIQUES**
[72] BORNHOLDT, NICK, DE
[72] LEHNEN, RALPH, DE
[72] DUCK, KLAUS, DE
[72] FLIEDNER, ELKE, DE
[71] PREFERE RESINS HOLDING GMBH, DE
[85] 2022-02-10
[86] 2020-08-17 (PCT/IB2020/057735)
[87] (WO2021/033129)
[30] EP (19192190.7) 2019-08-17
[30] EP (19195005.4) 2019-09-02

[21] **3,150,744**
[13] A1
[51] **Int.Cl. A01G 31/00 (2018.01) A01G 31/04 (2006.01) A01G 31/06 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR REMOVING ODOR FROM A FLUID STREAM**
[54] **SYSTEMES ET PROCEDES D'ELIMINATION D'ODEUR D'UN COURANT DE FLUIDE**
[72] ENGLAND, WILLIAM G., US
[72] XIN, MEI, US
[71] PURAFIL, INC., US
[85] 2022-02-10
[86] 2020-08-12 (PCT/US2020/070399)
[87] (WO2021/035237)
[30] US (62/890,259) 2019-08-22

[21] **3,150,745**
[13] A1
[51] **Int.Cl. A01H 1/00 (2006.01) C12N 15/113 (2010.01) C12N 9/00 (2006.01) C12N 9/22 (2006.01) C12N 15/10 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **ALTERATION OF FLAVOR TRAITS IN CONSUMER CROPS VIA DISABLEMENT OF THE MYROSINASE/GLUCOSINOLATE SYSTEM**
[54] **MODIFICATION DE CARACTERISTIQUES DE SAVEUR DANS DES CULTURES POUR LA CONSOMMATION PAR DESACTIVATION DU SYSTEME MYROSINASE/GLUCOSINOLATE**
[72] KARLSON, DALE, US
[72] KIM, HAE JIN, US
[72] POORTEN, THOMAS J., US
[72] MOJICA, JULIUS, US
[71] PAIRWISE PLANTS SERVICES, INC., US
[85] 2022-02-10
[86] 2020-08-14 (PCT/US2020/046483)
[87] (WO2021/030738)
[30] US (62/886,458) 2019-08-14

[21] **3,150,746**
[13] A1
[51] **Int.Cl. H01R 12/55 (2011.01) H05K 1/11 (2006.01) H05K 1/14 (2006.01)**
[25] EN
[54] **PIN SIDE EDGE MOUNT CONNECTOR AND SYSTEMS AND METHODS THEREOF**
[54] **CONNECTEUR DE MONTAGE DE BORD LATERAL DE BROCHE ET SYSTEMES ET PROCEDES ASSOCIES**
[72] SHYU, SAMUEL MUEN, US
[72] YU, RAYMOND, US
[72] HILL, ROBERT JAMES, US
[71] LOCKHEED MARTIN CORPORATION, US
[85] 2022-02-09
[86] 2020-08-25 (PCT/US2020/047727)
[87] (WO2021/041368)
[30] US (16/550,956) 2019-08-26

[21] **3,150,747**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 48/00 (2006.01)**
[25] EN
[54] **TARGETED TRANS-SPLICING USING CRISPR/CAS13**
[54] **TRANS-EPISSAGE CIBLE UTILISANT CRISPR/CAS13**
[72] BORRAJO, JACOB, US
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[85] 2022-02-10
[86] 2020-08-14 (PCT/US2020/046523)
[87] (WO2021/034717)
[30] US (62/888,210) 2019-08-16
[30] US (62/985,633) 2020-03-05

[21] **3,150,748**
[13] A1
[51] **Int.Cl. C07B 53/00 (2006.01) C07C 29/143 (2006.01) C07C 35/52 (2006.01) C07C 209/10 (2006.01) C07C 215/70 (2006.01) C07D 311/58 (2006.01) C12P 7/02 (2006.01) C07B 61/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING HETEROCYCLIDENE ACETAMIDE DERIVATIVE**
[54] **PROCEDE DE PRODUCTION DE DERIVES D'HETEROCYCLIDENE ACETAMIDE**
[72] UCHIDA, HIDEHARU, JP
[72] SATOH, TSUTOMU, JP
[72] SUN, BAOQUAN, CN
[72] SHA, CHUNBO, CN
[72] LIN, JINGUANG, CN
[72] GE, YONGHUI, CN
[72] CHEN, YANLIANG, CN
[72] ZHAO, BIN, CN
[72] GU, XIAOMIN, CN
[72] LUO, JIAN, CN
[72] CHEN, CHUAN, CN
[72] CAI, XIAOFEI, CN
[72] YE, JIAJIE, CN
[72] LI, JIE, CN
[72] SUN, FENGLAI, CN
[71] MOCHIDA PHARMACEUTICAL CO., LTD., JP
[85] 2022-02-10
[86] 2020-06-10 (PCT/JP2020/022827)
[87] (WO2021/039023)
[30] CN (201910783254.8) 2019-08-23
[30] JP (PCT/JP2019/036451) 2019-09-18
[30] CN (202010355546.4) 2020-04-29

[21] **3,150,749**
[13] A1
[51] **Int.Cl. G01N 29/02 (2006.01)**
[25] EN
[54] **SURFACE ACOUSTIC WAVE SENSOR FOR REFRIGERANT LEAKAGE DETECTION**
[54] **CAPTEUR D'ONDE ACOUSTIQUE DE SURFACE DE DETECTION DE FUITE DE REFRIGERANT**
[72] KUNAPULI, RAGHUJIT PRASAD, US
[72] THALLAPALLY, PRAVEEN, US
[72] MCGRAIL, PETER B., US
[72] ZHIQUN, DENG, US
[72] LIU, JIAN, US
[72] LI, HUIDONG, US
[72] LU, JUN, US
[72] BANERJEE, DEBASIS, US
[71] PARKER-HANNIFIN CORPORATION, US
[85] 2022-02-09
[86] 2020-08-25 (PCT/US2020/047712)
[87] (WO2021/041359)
[30] US (62/894,348) 2019-08-30

[21] **3,150,750**
[13] A1
[51] **Int.Cl. A63G 31/00 (2006.01) B25J 11/00 (2006.01)**
[25] EN
[54] **EDIBLE SOFT ROBOTIC SYSTEMS AND METHODS**
[54] **SYSTEMES ROBOTIQUES MOUS COMESTIBLES ET PROCEDES**
[72] KRAUTHAMER, AKIVA MEIR, US
[72] HUMPHREYS, KIMBERLY ANNE, US
[72] JEROMIN, AARON CHANDLER, US
[72] HERTZLER, ELAM KEVIN, US
[72] GARNIER, TIMOTHY FITZGERALD, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2022-02-09
[86] 2020-08-24 (PCT/US2020/047599)
[87] (WO2021/041297)
[30] US (62/894,405) 2019-08-30
[30] US (62/910,868) 2019-10-04
[30] US (16/994,896) 2020-08-17

[21] **3,150,751**
[13] A1
[51] **Int.Cl. A61K 31/4709 (2006.01) A61K 9/00 (2006.01) A61K 47/38 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **ORAL PHARMACEUTICAL COMPOSITION CONTAINING HETEROCYCLIC COMPOUND**
[54] **COMPOSITION PHARMACEUTIQUE ORALE CONTENANT UN COMPOSE HETEROCYCLIQUE**
[72] YOSHIMURA, MOTOYASU, JP
[72] FUJII, TAKUYA, JP
[72] KAMADA, NAOKI, JP
[72] TOGASHI, RYOHEI, JP
[72] AONO, RYUTA, JP
[72] WANG, XINYU, JP
[71] OTSUKA PHARMACEUTICAL CO., LTD., JP
[85] 2022-02-10
[86] 2020-08-13 (PCT/JP2020/030777)
[87] (WO2021/029430)
[30] JP (PCT/JP2019/031895) 2019-08-13

[21] **3,150,752**
[13] A1
[51] **Int.Cl. A61K 38/18 (2006.01) A01N 43/02 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **CROTON LECHLERI COMPOSITIONS FOR USE IN TREATING BLEEDING, WOUNDS AND INFECTIONS**
[54] **COMPOSITIONS DE CROTON LECHLERI DESTINEES A ETRE UTILISEES DANS LE TRAITEMENT DE SAIGNEMENTS, DE PLAIES ET D'INFECTIONS**
[72] PEKOE, GARY MICHAEL, US
[72] MINK, JAZMYNE KRISTYNE, US
[72] PENTELNIK, STEVEN AARON, US
[72] KOLLER, NEAL G., US
[71] ALPHYN BIOLOGICS, LLC, US
[85] 2022-02-09
[86] 2020-08-19 (PCT/US2020/047082)
[87] (WO2021/034986)
[30] US (62/888,829) 2019-08-19

[21] **3,150,753**
[13] A1
[51] **Int.Cl. A01N 43/54 (2006.01) A01N 25/32 (2006.01) A01N 61/00 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **HERBICIDAL AGENT COMPOSITION AND WEED CONTROL METHOD**
[54] **COMPOSITION D'AGENT HERBICIDE ET PROCEDE DE LUTTE CONTRE LES MAUVAISES HERBES**
[72] JIN, YOSHINOBU, JP
[72] TOMITA, AKIHIRO, JP
[71] SUMITOMO CHEMICAL COMPANY, LIMITED, JP
[85] 2022-02-10
[86] 2020-08-27 (PCT/JP2020/032324)
[87] (WO2021/039893)
[30] JP (2019-156454) 2019-08-29

[21] **3,150,754**
[13] A1
[51] **Int.Cl. C12N 15/63 (2006.01) C12N 15/113 (2010.01) C12N 15/11 (2006.01) C12N 15/62 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **TRANSLATION ENHANCER, TEMPLATE NUCLEIC ACID, PRODUCTION METHOD OF TRANSLATION, AND PRODUCTION METHOD OF PROTEIN**
[54] **PROMOTEUR DE TRADUCTION, ACIDE NUCLEIQUE MODELE, PROCEDE DE PRODUCTION D'UN MODELE DE TRADUCTION ET PROCEDE DE PRODUCTION DE PROTEINE**
[72] TADA, HIROAKI, JP
[72] MINAMI, MASATAKA, JP
[71] NUPROTEIN CO., LTD., JP
[85] 2022-02-10
[86] 2020-09-24 (PCT/JP2020/035949)
[87] (WO2021/070616)
[30] JP (2019-187039) 2019-10-10

[21] **3,150,755**
[13] A1
[51] **Int.Cl. A61K 31/7068 (2006.01) A61P 43/00 (2006.01) C07H 1/00 (2006.01) C07H 19/073 (2006.01)**
[25] EN
[54] **POLYMORPHIC FORMS OF DEOXYCYTIDINE, COMPOSITIONS COMPRISING THE SAME AND USES**
[54] **FORMES POLYMORPHES DE DESOXYCYTIDINE, COMPOSITIONS LES COMPRENANT ET UTILISATIONS**
[72] GLIDDEN, PAUL, US
[71] MODIS THERAPEUTICS, INC., US
[85] 2022-02-10
[86] 2020-08-19 (PCT/US2020/047047)
[87] (WO2021/034962)
[30] US (62/888,893) 2019-08-19

[21] **3,150,756**
[13] A1
[51] **Int.Cl. A61C 8/00 (2006.01) A61C 1/00 (2006.01) A61C 1/08 (2006.01) A61C 1/18 (2006.01)**
[25] EN
[54] **DENTAL DEVICE FOR REMOVING A PARTIALLY OR FULLY OSSEOINTEGRATED DENTAL IMPLANT**
[54] **DISPOSITIF DENTAIRE POUR L'ENLEVEMENT D'UN IMPLANT DENTAIRE PARTIELLEMENT OU TOTALEMENT OSTEO-INTEGRE**
[72] ELGH, BJORN, SE
[72] MAGNUSSON, DANIEL, SE
[72] JO, JEREMY, US
[71] DENTSPLY SIRONA INC., US
[85] 2022-02-09
[86] 2020-08-14 (PCT/US2020/046291)
[87] (WO2021/034633)
[30] US (16/543,767) 2019-08-19

[21] **3,150,757**
[13] A1
[51] **Int.Cl. C11B 9/02 (2006.01) B01D 11/02 (2006.01) C11B 1/10 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR EXTRACTING ESSENTIAL OILS**
[54] **APPAREIL ET PROCEDE D'EXTRACTION D'HUILES ESSENTIELLES**
[72] CRAIG, SCOTT E., US
[71] CRAIG, SCOTT E., US
[85] 2022-02-10
[86] 2020-08-19 (PCT/US2020/047052)
[87] (WO2021/034965)
[30] US (62/889,157) 2019-08-20

[21] **3,150,758**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/63 (2006.01)**
[25] EN
[54] **RNAI CONSTRUCTS FOR INHIBITING SLC30A8 EXPRESSION AND METHODS OF USE THEREOF**
[54] **CONSTRUCTIONS D'ARNI POUR INHIBER L'EXPRESSION DE SLC30A8 ET LEURS PROCEDES D'UTILISATION**
[72] GU, WEI, US
[72] HARRINGTON, ESSA HU, US
[72] HOMANN, OLIVER, US
[71] AMGEN INC., US
[85] 2022-02-09
[86] 2020-08-13 (PCT/US2020/046222)
[87] (WO2021/030613)
[30] US (62/886,269) 2019-08-13

[21] **3,150,759**
[13] A1
[51] **Int.Cl. A61K 31/4164 (2006.01) A61P 35/00 (2006.01) C07D 235/00 (2006.01)**
[25] EN
[54] **METHOD OF TREATING KRAS-ASSOCIATED CANCERS**
[54] **METHODE DE TRAITEMENT DE CANCERS ASSOCIES A KRAS**
[72] NYATI, MUKESH, K., US
[71] THE REGENTS OF THE UNIVERSTIY OF MICHIGAN, US
[85] 2022-02-10
[86] 2020-08-20 (PCT/US2020/047090)
[87] (WO2021/034992)
[30] US (62/890,119) 2019-08-22

[21] **3,150,761**
[13] A1
[51] **Int.Cl. A61K 8/49 (2006.01) A61K 8/19 (2006.01) A61K 8/21 (2006.01) A61K 8/27 (2006.01) A61K 8/34 (2006.01) A61K 8/365 (2006.01) A61Q 11/00 (2006.01) A61Q 11/02 (2006.01)**
[25] EN
[54] **ORAL CARE COMPOSITIONS AND METHODS OF USE**
[54] **COMPOSITIONS DE SOINS BUCCO-DENTAIRES ET PROCEDES D'UTILISATION**
[72] ARORA, PAYAL, US
[72] POTNIS, SHASHANK, IN
[72] MARTINETTI, MELISSA, US
[72] HASKEL, ARIEL, US
[72] XU, YUN, US
[72] SURIANO, DAVID, US
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2022-02-10
[86] 2020-10-06 (PCT/US2020/070618)
[87] (WO2021/072422)
[30] US (62/911,643) 2019-10-07

[21] **3,150,762**
[13] A1
[51] **Int.Cl. A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **4-1 BB AND OX40 BINDING PROTEINS AND RELATED COMPOSITIONS AND METHODS, ANTIBODIES AGAINST 4-1 BB, ANTIBODIES AGAINST OX40**
[54] **PROTEINES DE LIAISON A 4-1BB ET OX40 ET COMPOSITIONS ET METHODES ASSOCIEES, ANTICORPS DIRIGES CONTRE 4-1BB, ANTICORPS DIRIGES CONTRE OX40**
[72] BIENVENUE, DAVID LEONARD, US
[72] HERNANDEZ-HOYOS, GABRIELA, US
[72] MISHER, LYNDA, US
[72] VAN CITTERS, DANIELLE, US
[72] NELSON, MICHELLE HASE, US
[72] PAVLIK, PETER, US
[71] APTEVO RESEARCH AND DEVELOPMENT LLC, US
[85] 2022-02-09
[86] 2020-08-12 (PCT/US2020/046005)
[87] (WO2021/030488)
[30] US (62/885,751) 2019-08-12
[30] US (62/902,318) 2019-09-18
[30] US (62/911,010) 2019-10-04
[30] US (63/056,115) 2020-07-24

[21] **3,150,763**
[13] A1
[51] **Int.Cl. B01J 19/08 (2006.01) B01D 53/32 (2006.01) C02F 1/46 (2006.01) H05H 1/24 (2006.01)**
[25] EN
[54] **COMPOUND ANNULAR NON-THERMAL PLASMA REACTOR CORE**
[54] **C□UR DE REACTEUR A PLASMA NON THERMIQUE ANNULAIRE COMPOSITE**
[72] CLACK, HEREK L., US
[72] MELOTTI, KEVIN D., US
[71] THE REGENTS OF THE UNIVERSTIY OF MICHIGAN, US
[85] 2022-02-10
[86] 2020-08-21 (PCT/US2020/047295)
[87] (WO2021/071594)
[30] US (62/889,732) 2019-08-21

[21] **3,150,764**
[13] A1
[51] **Int.Cl. E21B 21/06 (2006.01) E21B 21/00 (2006.01) E21B 21/01 (2006.01) E21B 21/07 (2006.01) E21B 27/00 (2006.01)**
[25] EN
[54] **IMPROVED PISTON-STYLE DRILLING MUD SCREEN SYSTEM AND METHODS THEREOF**
[54] **SYSTEME DE TAMISAGE DE BOUE DE FORAGE DE TYPE A PISTON AMELIORE ET PROCEDES ASSOCIES**
[72] BIGGERSTAFF, CHRISTOPHER M., US
[72] COMEAUX, DON A., US
[72] KIBBE, CHARLES G., US
[72] HEBERT, JEREMY P., US
[71] BLACK DIAMOND OILFIELD RENTALS LLC, US
[85] 2022-02-10
[86] 2020-11-05 (PCT/US2020/059134)
[87] (WO2021/092192)
[30] US (16/677,084) 2019-11-07

[21] **3,150,765**
[13] A1
[51] **Int.Cl. A01K 1/01 (2006.01)**
[25] EN
[54] **A METHOD AND AN ARRANGEMENT FOR BARN CLEANING**
[54] **PROCEDE ET AGENCEMENT DE NETTOYAGE D'ETABLE**
[72] BRINK, MAREK, SE
[72] FURDAK, JOZEF, SE
[72] SLUSARCZYK, BARTLOMIEJ, SE
[71] DELAVAL HOLDING AB, SE
[85] 2022-02-09
[86] 2020-07-24 (PCT/SE2020/050752)
[87] (WO2021/029808)
[30] SE (1950928-0) 2019-08-13

[21] **3,150,766**
[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) A61P 9/00 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **TRIAZOLOPYRIMIDINES AS A2A / A2B INHIBITORS**
[54] **TRIAZOLOPYRIMIDINES SERVANT D'INHIBITEURS A2A/A2B**
[72] HAN, HEEOON, US
[72] ZHAO, LE, US
[72] YAO, WENQING, US
[72] WANG, XIAOZHAO, US
[71] INCYTE CORPORATION, US
[85] 2022-02-10
[86] 2020-08-25 (PCT/US2020/047714)
[87] (WO2021/041360)
[30] US (62/891,685) 2019-08-26

[21] **3,150,767**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/06 (2006.01) A61K 9/127 (2006.01) A61K 31/485 (2006.01) A61K 31/5377 (2006.01) A61K 47/34 (2017.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITIONS COMPRISING A COMBINATION OF OPIOID ANTAGONISTS**
[54] **COMPOSITIONS PHARMACEUTIQUES COMPRENANT UNE COMBINAISON D'ANTAGONISTES OPIOIDES**
[72] BARENHOLZ, YECHEZKEL, IL
[72] CERN, AHUVA, IL
[71] YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD., IL
[85] 2022-02-09
[86] 2020-08-12 (PCT/IL2020/050884)
[87] (WO2021/028916)
[30] US (62/885,569) 2019-08-12

[21] **3,150,768**
[13] A1
[51] **Int.Cl. B65D 1/22 (2006.01) B65D 1/24 (2006.01) B65D 19/06 (2006.01) B65D 19/08 (2006.01) B65D 19/18 (2006.01) B65D 25/00 (2006.01)**
[25] EN
[54] **RAIL SUPPORT ASSEMBLY FOR A TRANSPORTATION OR STORAGE CONTAINER**
[54] **ENSEMBLE RAIL-SUPPORT POUR CONTENANT DE TRANSPORT OU DE STOCKAGE**
[72] VROON, WILLIAM J., US
[71] BRADFORD COMPANY, US
[85] 2022-02-10
[86] 2020-11-05 (PCT/US2020/059063)
[87] (WO2021/092142)
[30] US (62/931,899) 2019-11-07

[21] **3,150,769**
[13] A1
[51] **Int.Cl. C12N 5/0775 (2010.01) A61K 35/545 (2015.01) A61K 35/28 (2015.01) A61P 25/28 (2006.01)**
[25] EN
[54] **AGENT FOR TREATING OR PREVENTING CEREBROVASCULAR DEMENTIA**
[54] **AGENT POUR LE TRAITEMENT OU LA PREVENTION DE LA DEMENCE CEREBROVASCULAIRE**
[72] NIIZUMA, KUNIYASU, JP
[72] TOMINAGA, TEIJI, JP
[71] TOHOKU UNIVERSITY, JP
[71] LIFE SCIENCE INSTITUTE, INC, JP
[85] 2022-02-09
[86] 2020-08-07 (PCT/JP2020/030330)
[87] (WO2021/029346)
[30] JP (2019-147577) 2019-08-09
[30] JP (2019-176464) 2019-09-27

[21] **3,150,770**
[13] A1
[51] **Int.Cl. G09F 13/22 (2006.01) G02F 1/1333 (2006.01) G09F 13/04 (2006.01) G09F 21/04 (2006.01) G09F 27/00 (2006.01) H04N 5/645 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **SOLAR POWERED DISPLAY ASSEMBLIES**
[54] **ENSEMBLES D'AFFICHAGE A ENERGIE SOLAIRE**
[72] DUNN, WILLIAM, US
[72] FRASCHILLA, GERALD, US
[72] BARTHOLMAE, JACK, US
[72] BENNETT, DOUGLAS, US
[71] MANUFACTURING RESOURCES INTERNATIONAL, INC., US
[85] 2022-02-10
[86] 2020-08-25 (PCT/US2020/047747)
[87] (WO2021/041381)
[30] US (62/892,104) 2019-08-27
[30] US (62/911,806) 2019-10-07
[30] US (16/915,774) 2020-06-29

[21] **3,150,772**
[13] A1
[51] **Int.Cl. H04N 19/513 (2014.01) H04N 19/537 (2014.01) H04N 19/557 (2014.01) H04N 19/56 (2014.01) H04N 19/577 (2014.01)**
[25] EN
[54] **HARMONIZED EARLY TERMINATION IN BDOF AND DMVR IN VIDEO CODING**
[54] **TERMINAISON PRECOCE HARMONISEE DE BDOF ET DE DMVR DANS UN CODAGE VIDEO**
[72] CHEN, CHUN-CHI, US
[72] HUANG, HAN, US
[72] CHIEN, WEI-JUNG, US
[72] KARCZEWICZ, MARTA, US
[71] QUALCOMM INCORPORATED, US
[85] 2022-02-10
[86] 2020-09-23 (PCT/US2020/052238)
[87] (WO2021/061787)
[30] US (62/904,528) 2019-09-23
[30] US (17/028,599) 2020-09-22

[21] **3,150,774**
[13] A1
[51] **Int.Cl. C22C 38/06 (2006.01) C21D 9/46 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01)**
[25] EN
[54] **LOW-STRENGTH STEEL SHEET FOR HOT STAMPING, HOT-STAMPED COMPONENT, AND METHOD FOR MANUFACTURING HOT-STAMPED COMPONENT**
[54] **TOLE D'ACIER A FAIBLE RESISTANCE POUR ESTAMPAGE A CHAUD, COMPOSANT ESTAMPE A CHAUD, ET PROCEDE DE FABRICATION D'UN COMPOSANT ESTAMPE A CHAUD**
[72] HAMAMOTO, SAE, JP
[72] ASAI, TATSUYA, JP
[71] KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.), JP
[85] 2022-02-09
[86] 2020-08-18 (PCT/JP2020/031118)
[87] (WO2021/039499)
[30] JP (2019-154727) 2019-08-27

[21] **3,150,775**
[13] A1
[51] **Int.Cl. G02B 6/32 (2006.01) G02B 6/26 (2006.01) G02B 6/36 (2006.01) G02B 6/38 (2006.01) G02B 6/42 (2006.01) G02B 6/43 (2006.01)**
[25] EN
[54] **APPARATUS AND SYSTEM FOR OPTICAL CONNECTOR**
[54] **APPAREIL ET SYSTEME POUR CONNECTEUR OPTIQUE**
[72] BLANC, SCOTT G., US
[71] NORTECH SYSTEMS, INC., US
[85] 2022-02-10
[86] 2020-09-04 (PCT/US2020/049471)
[87] (WO2021/046397)
[30] US (62/896,315) 2019-09-05

[21] **3,150,778**
[13] A1
[51] **Int.Cl. C12N 9/12 (2006.01)**
[25] EN
[54] **IMPROVED THERMOSTABLE VIRAL REVERSE TRANSCRIPTASE**
[54] **TRANSCRIPTASE INVERSE VIRALE THERMOSTABLE AMELIOREE**
[72] CHUNG, SUHMAN, US
[72] SCHUSTER, DAVID MARK, US
[72] SCHOENFELD, THOMAS WILLIAM, US
[71] QIAGEN BEVERLY, LLC, US
[85] 2022-02-10
[86] 2020-09-18 (PCT/US2020/051465)
[87] (WO2021/055729)
[30] US (62/902,183) 2019-09-18
[30] EP (19201780.4) 2019-10-07

[21] **3,150,779**
[13] A1
[51] **Int.Cl. C07C 219/06 (2006.01) C12N 15/113 (2010.01) A61K 9/14 (2006.01) A61K 47/18 (2017.01) A61K 47/22 (2006.01) C07C 217/40 (2006.01) C07C 219/08 (2006.01) C07C 219/12 (2006.01) C07C 229/12 (2006.01) C07C 237/08 (2006.01) C07D 317/28 (2006.01) C07D 493/08 (2006.01) C12N 15/87 (2006.01)**
[25] EN
[54] **LIPIDS FOR DELIVERY OF CHARGED MATERIAL, FORMULATIONS THEREOF AND METHOD FOR MAKING SAME**
[54] **LIPIDES POUR L'ADMINISTRATION D'UN MATERIAU CHARGE, LEURS FORMULATIONS ET LEUR PROCEDE DE FABRICATION**
[72] ZAIFMAN, JOSHUA, CA
[72] CHEN, SAM, CA
[72] TAM, YUEN YI, CA
[72] CIUFOLINI, MARCO A., CA
[71] INTEGRATED NANOTHERAPEUTICS INC., CA
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA
[85] 2022-02-11
[86] 2020-08-11 (PCT/CA2020/051098)
[87] (WO2021/026647)
[30] US (62/885,677) 2019-08-12

[21] **3,150,782**
[13] A1
[51] **Int.Cl. B01D 15/08 (2006.01) G01N 1/00 (2006.01) G01N 1/40 (2006.01)**
[25] EN
[54] **FILTER INSTRUMENT, KIT AND METHOD FOR PRETREATING A SAMPLE**
[54] **INSTRUMENT DE FILTRATION, KIT ET PROCEDE DESTINES AU PRETRAITEMENT D'UN ECHANTILLON**
[72] BENTER, ALISSA, DE
[72] EICKE, DOROTHEE, DE
[72] HORN, KAROLIN URSULA LUISE, DE
[72] SCHMOLKE, HANNAH, DE
[72] WENDT, NORBERT, DE
[72] TUCHOLSKI, JOHANNES, DE
[71] BOEHRINGER INGELHEIM VETMEDICA GMBH, DE
[85] 2022-02-11
[86] 2020-08-27 (PCT/EP2020/073909)
[87] (WO2021/037945)
[30] EP (19194623.5) 2019-08-30
[30] EP (20169046.8) 2020-04-09

[21] **3,150,783**
[13] A1
[51] **Int.Cl. E21B 10/04 (2006.01) E21B 10/02 (2006.01) E21B 10/08 (2006.01) E21B 10/48 (2006.01) E21B 10/62 (2006.01) E21B 49/02 (2006.01)**
[25] EN
[54] **CONTINUOUS SAMPLING DRILL BIT**
[54] **TREPAN DE CAROTTAGE CONTINU**
[72] DRENTH, CHRISTOPHER L., CA
[72] CORONA, ROBERT ANDREW, US
[71] BLY IP INC., US
[85] 2022-02-10
[86] 2020-08-19 (PCT/US2020/046983)
[87] (WO2021/034923)
[30] US (16/544,333) 2019-08-19
[30] US (16/813,135) 2020-03-09

[21] **3,150,784**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 20/20 (2012.01) A47F 9/04 (2006.01) G06F 7/08 (2006.01)**
[25] EN
[54] **HANDLES AND DISPLAYS FOR PRODUCT VENDING SYSTEM**
[54] **POIGNEES ET ECRANS POUR SYSTEME DE VENTE DE PRODUITS**
[72] ROSBURG, KLAUS, US
[72] LIM, STEPHEN, US
[71] PEPSICO, INC., US
[85] 2022-02-10
[86] 2020-08-19 (PCT/US2020/046995)
[87] (WO2021/045906)
[30] US (16/559,300) 2019-09-03

[21] **3,150,785**
[13] A1
[25] FR
[54] **METHOD FOR CREATING AN ELECTRONIC MESSAGE THE INTEGRITY OF WHICH IS GUARANTEED AND VERIFIABLE ACCORDING TO THE MIME STANDARD**
[54] **PROCEDE DE CREATION D'UN MESSAGE ELECTRONIQUE A INTEGRITE GARANTIE ET VERIFIABLE SELON LE STANDARD MIME**
[72] DAMMANN, FRANCK, FR
[71] MAILSTONE, FR
[85] 2022-02-11
[86] 2020-07-31 (PCT/EP2020/071670)
[87] (WO2021/028241)
[30] FR (1909145) 2019-08-12

[21] **3,150,786**
[13] A1
[51] **Int.Cl. D01F 2/28 (2006.01) G01N 21/25 (2006.01) G01N 31/12 (2006.01) G01N 31/16 (2006.01)**
[25] EN
[54] **CELLULOSE ACETATE TOW WITH LOW DPF AND LOW TITANIUM DIOXIDE CONTENT**
[54] **CABLE D'ACETATE DE CELLULOSE A FAIBLE DPF ET A FAIBLE TENEUR EN DIOXYDE DE TITANE**
[72] BLANKENSHIP, SUSAN, US
[72] AMTOWER, DIRK, US
[72] COMBS, MICHAEL, US
[72] BUNDREN, CHRISTOPHER, US
[72] ZAZZARA, KAREN, US
[71] ACETATE INTERNATIONAL LLC, US
[85] 2022-02-11
[86] 2020-04-17 (PCT/US2020/028786)
[87] (WO2021/040815)
[30] US (62/892,297) 2019-08-27

[21] **3,150,788**
[13] A1
[51] **Int.Cl. A61B 34/20 (2016.01) A61B 34/10 (2016.01) A61B 90/00 (2016.01) A61B 5/06 (2006.01) G01B 11/24 (2006.01) G01L 1/24 (2006.01)**
[25] EN
[54] **SHAPE-SENSING SYSTEMS AND METHODS FOR MEDICAL DEVICES**
[54] **SYSTEMES ET PROCEDES DE DETECTION DE FORME POUR DISPOSITIFS MEDICAUX**
[72] THOMPSON, CHASE, US
[72] MESSERLY, SHAYNE, US
[72] MISENER, ANTHONY KENT, US
[71] BARD ACCESS SYSTEMS, INC., US
[85] 2022-02-11
[86] 2020-08-03 (PCT/US2020/044801)
[87] (WO2021/030092)
[30] US (62/885,702) 2019-08-12

[21] **3,150,791**
[13] A1
[51] **Int.Cl. E01H 10/00 (2006.01) E01H 5/06 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR ADAPTIVE CONTROL OF AN INDUSTRIAL VEHICLE DURING A ROAD SURFACE TREATMENT OPERATION**
[54] **PROCEDE ET SYSTEME DE COMMANDE ADAPTATIVE D'UN VEHICULE INDUSTRIEL PENDANT UNE OPERATION DE TRAITEMENT DE COUCHE D'USURE**
[72] GILETTA, ENZO, IT
[71] GILETTA S.P.A., IT
[85] 2022-02-11
[86] 2020-08-20 (PCT/IB2020/057827)
[87] (WO2021/033158)
[30] IT (102019000014874) 2019-08-20

[21] **3,150,797**
[13] A1
[51] **Int.Cl. B25B 27/14 (2006.01)**
[25] EN
[54] **BOTTOM BRACKET TOOL**
[54] **OUTIL DE BRAQUET INFERIEUR**
[72] UBHI, JASWANT, CA
[71] UBHI, JASWANT, CA
[85] 2022-02-11
[86] 2020-08-14 (PCT/CA2020/051118)
[87] (WO2021/026664)
[30] US (62/886,566) 2019-08-14

[21] **3,150,799**
[13] A1
[51] **Int.Cl. A24F 47/00 (2020.01)**
[25] EN
[54] **A NOVEL ATOMIZATION CORE**
[54] **NOUVEAU TYPE DE NOYAU DE VAPORISATION**
[72] PENG, XIAOFENG, CN
[72] PENG, QIWEN, CN
[71] SHANGHAI QV TECHNOLOGIES CO., LTD., CN
[85] 2022-02-11
[86] 2020-04-30 (PCT/CN2020/088397)
[87] (WO2021/027338)
[30] CN (201910742101.9) 2019-08-13

[21] **3,150,800**
[13] A1
[51] **Int.Cl. G01N 17/00 (2006.01)**
[25] EN
[54] **A COATED STRUCTURE WITH A MONITORING SYSTEM, A MONITORING SYSTEM, AND A METHOD FOR MONITORING A CONDITION OF A COATED STRUCTURE**
[54] **STRUCTURE REVETUE DOTEE D'UN SYSTEME DE SURVEILLANCE, SYSTEME DE SURVEILLANCE ET PROCEDE DE SURVEILLANCE D'UN ETAT D'UNE STRUCTURE REVETUE**
[72] BARGALLO, JOSEP PALASI, DK
[72] DAVIDSDOTTIR, SVAVA, DK
[72] VERDINGOVAS, VADIMAS, DK
[72] DIN, RAMEEZ UD, DK
[72] SUTTON, MARK TERRELL, DK
[72] SPANGSDORF, STEEVEN HEGELUND, DK
[72] HERNANDEZ-FERNANDEZ, PATRICIA, DK
[72] HINDSGAUL HANSEN, JON, DK
[72] FRIBO GOTTSCHE, ANNEMETTE, DK
[71] HEMPEL A/S, DK
[85] 2022-02-11
[86] 2020-08-12 (PCT/EP2020/072642)
[87] (WO2021/028480)
[30] EP (19191240.1) 2019-08-12

[21] **3,150,802**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/145 (2006.01) A61B 5/1455 (2006.01)**
[25] EN
[54] **ACTIVE MINIATURIZED SENSING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DETECTION ACTIF MINIATURISE**
[72] REICHL, MATHIAS, DE
[71] GLUCOMAT GMBH, DE
[85] 2022-02-11
[86] 2020-08-14 (PCT/EP2020/072885)
[87] (WO2021/032629)
[30] US (62/887,767) 2019-08-16
[30] EP (19192138.6) 2019-08-16
[30] EP (19195939.4) 2019-09-06
[30] EP (19218195.6) 2019-12-19
[30] EP (20158808.4) 2020-02-21

[21] **3,150,804**
[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/44 (2020.01) A24F 40/46 (2020.01)**
[25] EN
[54] **A NOVEL ATOMIZATION CORE**
[54] **NOUVEAU NOYAU D'ATOMISATION**
[72] PENG, XIAOFENG, CN
[72] PENG, QIWEN, CN
[71] SHANGHAI QV TECHNOLOGIES CO., LTD., CN
[85] 2022-02-11
[86] 2020-08-13 (PCT/CN2020/108894)
[87] (WO2021/027871)
[30] CN (201921301938.1) 2019-08-13

[21] **3,150,805**
[13] A1
[51] **Int.Cl. B02C 23/08 (2006.01) B02C 17/18 (2006.01) B07B 4/00 (2006.01) B07B 7/01 (2006.01) B07B 11/02 (2006.01) C04B 7/24 (2006.01) C04B 18/16 (2006.01)**
[25] FR
[54] **METHOD OF SEPARATING DIFFERENT CONSTITUENTS OF A CONCRETE FOR DECONSTRUCTION**
[54] **PROCEDE POUR DISSOCIER DIFFERENTS CONSTITUANTS D'UN BETON DE DECONSTRUCTION**
[72] CORDONNIER, ALAIN, FR
[72] BOUDOT, FRANCOIS, FR
[72] FRUCHART, ALAIN, FR
[72] GUIMARD, YANNICK, FR
[72] PORTAL, JEROME, FR
[71] FIVES FCB, FR
[85] 2022-02-11
[86] 2020-09-01 (PCT/EP2020/074369)
[87] (WO2021/043775)
[30] FR (FR1909630) 2019-09-02

[21] **3,150,806**
[13] A1
[51] **Int.Cl. G16H 15/00 (2018.01) G16H 30/20 (2018.01) G16H 30/40 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR REPORTING ON MEDICAL IMAGES**
[54] **SYSTEME ET PROCEDE DE RAPPORT CONCERNANT DES IMAGES MEDICALES**
[72] LAUGERETTE, ALEXIS, DE
[72] SOMMER, WIELAND, DE
[71] SMART REPORTING GMBH, DE
[85] 2022-02-11
[86] 2019-08-12 (PCT/EP2019/071606)
[87] (WO2021/028018)

[21] **3,150,807**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/18 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **ANTI-VSIG4 ANTIBODY OR ANTIGEN BINDING FRAGMENT AND USES THEREOF**
[54] **ANTICORPS ANTI-VSIG4 OU FRAGMENT DE LIAISON A L'ANTIGENE ET SES UTILISATIONS**
[72] LOUKILI, NOUREDDINE, FR
[72] BAYCHELIER-TINE, FLORENCE, FR
[72] FERRE, PIERRE, FR
[72] PARK, YOUNG WOO, KR
[72] PARK, BUM-CHAN, KR
[72] PARK, JAE EUN, KR
[72] LEE, HYUN MI, KR
[72] KIM, SOO YOUNG, KR
[71] Y-BIOLOGICS INC., KR
[71] PIERRE FABRE MEDICAMENT, FR
[85] 2022-02-11
[86] 2020-09-04 (PCT/EP2020/074825)
[87] (WO2021/044014)
[30] KR (10-2019-0109365) 2019-09-04

[21] **3,150,808**
[13] A1
[51] **Int.Cl. G06K 9/00 (2022.01) G06K 9/62 (2022.01)**
[25] EN
[54] **QUANTIFYING OBJECTS ON PLANTS BY ESTIMATING THE NUMBER OF OBJECTS ON PLANT PARTS SUCH AS LEAVES, BY CONVOLUTIONAL NEURAL NETWORKS THAT PROVIDE DENSITY MAPS**
[54] **QUANTIFICATION D'OBJETS SUR DES PLANTES PAR ESTIMATION DU NOMBRE D'OBJETS SUR DES PARTIES DE PLANTE, TELLES QUE DES FEUILLES, PAR DES RESEAUX NEURONAUX A CONVOLUTION QUI FOURNISSENT DES CARTES DE DENSITE**
[72] ALVAREZ GILA, AITOR, ES
[72] ORTIZ BARREDO, AMAIA MARIA, ES
[72] ROLDAN LOPEZ, DAVID, ES
[72] ROMERO RODRIGUEZ, JAVIER, ES
[72] SPANGLER, CORINNA MARIA, DE
[72] KLUKAS, CHRISTIAN, DE
[72] EGGERS, TILL, DE
[72] ECHAZARRA HUGUET, JONE, ES
[72] NAVARRA MESTRE, RAMON, DE
[72] PICON RUIZ, ARTZAI, ES
[72] BERECIARTUA PEREZ, ARANZAZU, ES
[71] BASF SE, DE
[85] 2022-02-11
[86] 2020-09-29 (PCT/EP2020/077197)
[87] (WO2021/063929)
[30] EP (19200657.5) 2019-09-30

[21] **3,150,809**
[13] A1
[51] **Int.Cl. B29C 64/153 (2017.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B33Y 80/00 (2015.01) B29C 64/268 (2017.01) B22F 3/105 (2006.01)**
[25] EN
[54] **METHOD FOR ADDITIVE MANUFACTURE OF A PRODUCT, MANUFACTURING DEVICE AND SOLID PHARMACEUTICAL DOSAGE FORM**
[54] **PROCEDE DE FABRICATION ADDITIVE D'UN PRODUIT, DISPOSITIF DE FABRICATION ET FORME POSOLOGIQUE PHARMACEUTIQUE SOLIDE**
[72] BOGDAHN, MALTE, DE
[71] MERCK PATENT GMBH, DE
[85] 2022-02-11
[86] 2020-08-07 (PCT/EP2020/072297)
[87] (WO2021/028355)
[30] EP (19191661.8) 2019-08-14

[21] **3,150,814**
[13] A1
[51] **Int.Cl. H01M 4/04 (2006.01) H01G 11/42 (2013.01) C25D 17/10 (2006.01) H01M 4/62 (2006.01)**
[25] EN
[54] **AN ELECTRODE MATERIAL AND COMPONENTS THEREFROM FOR USE IN AN ELECTROCHEMICAL DEVICE AND PROCESSES FOR THE MANUFACTURE THEREOF**
[54] **MATERIAU D'ELECTRODE ET SES COMPOSANTS A UTILISER DANS UN DISPOSITIF ELECTROCHIMIQUE ET LEURS PROCEDES DE FABRICATION**
[72] BROWN, DAVID, FI
[71] BROADBIT BATTERIES OY, FI
[85] 2022-02-11
[86] 2020-08-12 (PCT/FI2020/050525)
[87] (WO2021/028619)
[30] FI (20195677) 2019-08-13

[21] **3,150,815**
[13] A1
[51] **Int.Cl. E21B 10/32 (2006.01) E21B 7/20 (2006.01) E21B 10/62 (2006.01) E21B 10/64 (2006.01)**
[25] EN
[54] **DRILLING UNIT**
[54] **UNITE DE FORAGE**
[72] PURCELL, JOSEPH, FI
[71] MINCON NORDIC OY, FI
[85] 2022-02-11
[86] 2020-08-25 (PCT/FI2020/050550)
[87] (WO2021/038131)
[30] FI (20195702) 2019-08-26

[21] **3,150,818**
[13] A1
[51] **Int.Cl. C12N 15/24 (2006.01) C12N 5/078 (2010.01) C12N 5/0783 (2010.01) C07K 14/54 (2006.01) C07K 14/545 (2006.01) C07K 14/705 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/25 (2006.01) C12N 15/62 (2006.01) C12N 9/64 (2006.01)**
[25] EN
[54] **IMMUNORESPONSIVE CELLS ARMOURED WITH SPATIOTEMPORALLY RESTRICTED ACTIVITY OF CYTOKINES OF THE IL-1 SUPERFAMILY**
[54] **CELLULES IMMUNOREACTIVES DOTEES D'UNE ACTIVITE A LIMITATION SPATIOTEMPORELLE DE CYTOKINES DE LA SUPERFAMILLE DE L'IL-1**
[72] MAHER, JOHN, GB
[72] HULL, CAROLINE MALAI, GB
[71] KING'S COLLEGE LONDON, GB
[85] 2022-02-11
[86] 2020-08-13 (PCT/GB2020/051934)
[87] (WO2021/028690)
[30] US (62/886,065) 2019-08-13

[21] **3,150,821**
[13] A1
[51] **Int.Cl. B64C 19/00 (2006.01) B64C 9/38 (2006.01)**
[25] EN
[54] **FLUIDIC CONTROL**
[54] **COMMANDE FLUIDIQUE**
[72] WARSOP, CLYDE, GB
[72] CROWTHER, WILLIAM JAMES, GB
[72] LUNNON, IAN, GB
[71] BAE SYSTEMS PLC, GB
[85] 2022-02-11
[86] 2020-09-03 (PCT/GB2020/052102)
[87] (WO2021/044141)
[30] GB (1912636.6) 2019-09-03
[30] EP (19275104.8) 2019-10-22

[21] **3,150,822**
[13] A1
[51] **Int.Cl. B02C 17/22 (2006.01) B02C 17/00 (2006.01) B02C 17/18 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN OR RELATING TO GRINDING MILLS**
[54] **PERFECTIONNEMENTS APPORTES OU SE RAPPORTANT A DES BROYEURS**
[72] CORAY, DALE, CA
[71] CORAY, DALE, CA
[85] 2022-02-11
[86] 2020-06-23 (PCT/IB2020/055889)
[87] (WO2021/028736)
[30] AU (2019902888) 2019-08-12

[21] **3,150,823**
[13] A1
[51] **Int.Cl. D21F 3/00 (2006.01) D21F 11/00 (2006.01)**
[25] EN
[54] **PRESS FABRIC FOR A TEXTURED PRODUCT**
[54] **TOILE DE PRESSE POUR PRODUIT TEXTURE**
[72] BELL, JAMES R., US
[72] LAMERS, TIMOTHY R., US
[72] NIETO, PAUL A., US
[71] ALBANY INTERNATIONAL CORP., US
[85] 2022-02-10
[86] 2020-09-09 (PCT/US2020/049795)
[87] (WO2021/050447)
[30] US (62/898,120) 2019-09-10

[21] **3,150,827**
[13] A1
[51] **Int.Cl. A61K 31/496 (2006.01) A61K 47/12 (2006.01) A61K 47/38 (2006.01)**
[25] EN
[54] **ORAL PHARMACEUTICAL COMPOSITION**
[54] **COMPOSITION PHARMACEUTIQUE ORALE**
[72] YOSHIMURA, MOTOYASU, JP
[72] FUJII, TAKUYA, JP
[72] KAMADA, NAOKI, JP
[72] TOGASHI, RYOHEI, JP
[72] AONO, RYUTA, JP
[72] WANG, XINYU, JP
[71] OTSUKA PHARMACEUTICAL CO., LTD., JP
[85] 2022-02-11
[86] 2020-08-13 (PCT/JP2020/030776)
[87] (WO2021/029429)
[30] JP (PCT/JP2019/031895) 2019-08-13

[21] **3,150,829**
[13] A1
[51] **Int.Cl. A61K 35/768 (2015.01) A61K 31/155 (2006.01) A61K 38/00 (2006.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION COMPRISING VACCINIA VIRUS AND HYDROXYUREA AS ACTIVE INGREDIENT FOR TREATMENT OF CANCER**
[54] **COMPOSITION PHARMACEUTIQUE POUR LE TRAITEMENT D'UN CANCER, CONTENANT UN COMPOSE POLYPHENOL UTILISE COMME PRINCIPE ACTIF**
[72] HWANG, TAE-HO, KR
[72] CHO, MONG, KR
[71] BIONOXX INC., KR
[85] 2022-02-11
[86] 2019-08-26 (PCT/KR2019/010849)
[87] (WO2021/040064)

[21] **3,150,831**
[13] A1
[51] **Int.Cl. H04M 3/51 (2006.01)**
[25] EN
[54] **DEVICE, SYSTEM AND METHOD FOR SELECTING CALLS FOR FORWARDING TO A COMMUNICATION DEVICE**
[54] **DISPOSITIF, SYSTEME ET PROCEDE DE SELECTION D'APPELS A RETRANSMETTRE A UN DISPOSITIF DE COMMUNICATION**
[72] SMETEK, MATEUSZ, PL
[72] NOWISZEWSKA, ELWIRA, PL
[72] HALUN, JAKUB, PL
[72] KAPLITA, GRZEGORZ, PL
[72] JURZAK, PAWEL, PL
[72] JANDA, MICHAL, PL
[72] KUCHARSKI, WOJCIECH, PL
[72] CZYRNEK, WOJCIECH, PL
[71] MOTOROLA SOLUTIONS, INC, US
[85] 2022-02-11
[86] 2019-08-16 (PCT/PL2019/050046)
[87] (WO2021/034206)

[21] **3,150,833**
[13] A1
[51] **Int.Cl. H04W 36/00 (2009.01) H04W 88/16 (2009.01)**
[25] EN
[54] **ENABLING SINGLE RADIO VOICE CALL CONTINUITY (SRVCC) IN A SECOND ACCESS WHEN A USER EQUIPMENT (UE) IS USING A FIRST ACCESS**
[54] **PERMETTRE UNE CONTINUITE D'APPEL VOCAL RADIO UNIQUE (SRVCC) DANS UN SECOND ACCES LORSQU'UN EQUIPEMENT UTILISATEUR (UE) UTILISE UN PREMIER ACCES**
[72] BAKKER, JAN HENDRIK LUCAS, CA
[72] RUSSELL, NICHOLAS JAMES, CA
[71] BLACKBERRY LIMITED, CA
[85] 2022-02-11
[86] 2020-10-14 (PCT/EP2020/078876)
[87] (WO2021/083665)
[30] US (62/928,663) 2019-10-31
[30] US (16/900,403) 2020-06-12

[21] **3,150,836**
[13] A1
[51] **Int.Cl. G06F 16/34 (2019.01) G06F 16/35 (2019.01)**
[25] EN
[54] **TRANSFORMING A DATA STREAM INTO STRUCTURED DATA**
[54] **TRANSFORMATION D'UN FLUX DE DONNEES EN DONNEES STRUCTUREES**
[72] MASSON, CHARLES-PHILIPPE, US
[72] KAPPEL, STEPHEN PAUL, US
[71] DATADOG, INC., US
[85] 2022-02-11
[86] 2020-05-14 (PCT/US2020/032890)
[87] (WO2021/029928)
[30] US (16/539,861) 2019-08-13

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[21] **3,150,838**
[13] A1
[51] **Int.Cl. F01K 9/00 (2006.01) F01K 25/10 (2006.01)**
[25] EN
[54] **SYSTEM FOR CONVERTING THERMAL ENERGY INTO MECHANICAL WORK**
[54] **SYSTEME DE CONVERSION D'ENERGIE THERMIQUE EN ENERGIE MECANIQUE**
[72] GLOS, STEFAN, DE
[72] GROTKAMP, STEFANIE, DE
[72] SUDHOFF, ROBIN, DE
[72] WECHSUNG, MICHAEL, DE
[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2022-01-17
[86] 2020-06-25 (PCT/EP2020/067830)
[87] (WO2021/013465)
[30] DE (10 2019 210 680.3) 2019-07-19

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] **3,126,017**
[13] A1
[51] **Int.Cl. A63B 53/02 (2015.01)**
[25] EN
[54] **GOLF CLUB HEAD AND SHAFT CONNECTOR**
[54] **TETE DE BATON DE GOLF ET RACCORD DE BATON**
[72] PALLOTTA, ROBERT DAVID, CA
[72] LIMOGES, DAVID LIONEL, CA
[72] PLAGGENBORG, DANIEL, CA
[71] INTEGRAN TECHNOLOGIES INC., CA
[22] 2021-07-22
[41] 2022-02-20
[30] US (16/998,700) 2020-08-20

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[21] **3,148,064**
[13] A1
[51] **Int.Cl. B26D 1/06 (2006.01) B26D 7/26 (2006.01)**
[25] EN
[54] **CUTTING MACHINE WITH TWO GUIDE PLATES FOR THE GUIDANCE OF BLADE AND CLAMPING BARS**
[54]
[72] JENTER, HOLGER, DE
[71] KRUG & PRIESTER GMBH & CO. KG, DE
[22] 2022-02-04
[41] 2023-08-04
[30] EP (21 163 044.7) 2021-03-17

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[21] **3,149,184**
[13] A1
[51] **Int.Cl. B60N 2/14 (2006.01)**
[25] EN
[54] **VEHICLE ACCESS SEATING**
[54]
[72] SLUNGARE, HANS BERTIL, SE
[71] AUTOADAPT AB, SE
[22] 2015-05-29
[41] 2015-12-03
[62] 2,957,892
[30] US (62/005,566) 2014-05-30

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[21] **3,149,239**
[13] A1
[51] **Int.Cl. B62D 25/02 (2006.01) B62D 25/00 (2006.01) F16S 1/12 (2006.01)**
[25] EN
[54] **COMPOSITE PANEL EDGE TREATMENTS AND JOINTS AND CARGO BODY HAVING SAME**
[54] **TRAITEMENT DE BORD DE PANNEAU COMPOSITE, ET JOINTS ET CORPS DE CARGO EN COMPORTANT**
[72] FENTON, GARRY L., US
[71] STI HOLDINGS, INC., US
[22] 2015-06-04
[41] 2015-12-04
[62] 2,894,059
[30] US (62/007,807) 2014-06-04

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[21] **3,149,244**
[13] A1
[51] **Int.Cl. B62D 25/02 (2006.01) B62D 25/00 (2006.01) F16S 1/12 (2006.01)**
[25] EN
[54] **COMPOSITE PANEL EDGE TREATMENTS AND JOINTS AND CARGO BODY HAVING SAME**
[54] **TRAITEMENT DE BORD DE PANNEAU COMPOSITE, ET JOINTS ET CORPS DE CARGO EN COMPORTANT**
[72] FENTON, GARY L., US
[71] STI HOLDINGS, INC., US
[22] 2015-06-04
[41] 2015-12-04
[62] 2,894,059
[30] US (62/007,807) 2014-06-04

---

[21] **3,149,282**
[13] A1
[25] EN
[54] **COMPOSITIONS FOR MODULATING TAU EXPRESSION**
[54] **COMPOSITIONS PERMETTANT DE MODULER L'EXPRESSION DE TAU**
[72] BUI, HUYNH-HOA, US
[72] FREIER, SUSAN M., US
[72] KORDASIEWICZ, HOLLY, US
[72] SWAYZE, ERIC E., US
[71] BIOGEN MA INC., US
[22] 2014-07-21
[41] 2015-01-22
[62] 2,918,600
[30] US (61/856,551) 2013-07-19
[30] US (61/879,621) 2013-09-18
[30] US (61/885,371) 2013-10-01
[30] US (62/014,486) 2014-06-19

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[21] **3,149,284**
[13] A1
[25] EN
[54] **IMPLANTS AND BIODEGRADABLE FIDUCIAL MARKERS**
[54] **IMPLANTS ET MARQUEURS DE REFERENCE BIODEGRADABLES**
[72] CAMPBELL, PATRICK, US
[72] SAWHNEY, AMARPREET S., US
[71] INCEPT, LLC, US
[22] 2010-12-15
[41] 2011-07-14
[62] 3,042,067
[30] US (61/286450) 2009-12-15

[21] **3,149,286**
[13] A1
[25] EN
[54] **PORTABLE TERMINAL DEVICE, INCOMING CALL SCREEN DISPLAY METHOD, INCOMING CALL HISTORY DISPLAY METHOD, AND PROGRAM**
[54]
[72] AWATANI, TOMOKI, JP
[72] OGAWA, HIKARU, JP
[71] NEC PLATFORMS, LTD., JP
[22] 2020-02-19
[41] 2020-09-26
[62] 3,092,705
[30] JP (JP 2019-058981) 2019-03-26
[30] JP (JP 2020-004124) 2020-01-15

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[21] **3,149,287**
[13] A1
[25] EN
[54] **IDENTIFYING PATIENT RESPONSE TO S1P RECEPTOR MODULATOR ADMINISTRATION**
[54] **IDENTIFICATION DE LA REPONSE D'UN PATIENT A UNE ADMINISTRATION D'UN MODULATEUR DE RECEPTEUR DE S1P**
[72] BORELL, HUBERT, CH
[72] GARDIN, ANNE, CH
[72] JIN, YI, CH
[72] LEGANGNEUX, ERIC, CH
[72] UFER, MIKE, CH
[71] NOVARTIS AG, CH
[22] 2013-04-19
[41] 2014-10-09
[62] 2,900,844
[30] US (61/808,406) 2013-04-04
[30] US (61/811,321) 2013-04-12
[30] US (61/813,380) 2013-04-18

---

[21] **3,149,290**
[13] A1
[25] EN
[54] **OPTIMIZING WASTE SLURRY DISPOSAL IN FRACTURED INJECTION OPERATIONS**
[54] **OPTIMISATION DE L'EVACUATION DE BOUE DE DECHETS DANS DES OPERATIONS D'INJECTION FRACTUREES**
[72] EL KHOLY, SHERIF, US
[72] ABOU-SAYED, OMAR, US
[72] MOHAMED, IBRAHIM M., US
[72] ABOU-SAYED, AHMED, US
[71] ADVANTEK WASTE MANAGEMENT SERVICES, LLC, US
[22] 2018-06-18
[41] 2018-12-20
[62] 3,067,569
[30] US (62/521,226) 2017-06-16
[30] US (62/558,806) 2017-09-14
[30] US (62/626,129) 2018-02-04

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[21] **3,149,293**
[13] A1
[25] EN
[54] **DROPLET-BASED ASSAY SYSTEM**
[54] **SYSTEME DE DOSAGE BASE SUR DES GOUTTELETTES**
[72] COLSTON, BILLY WAYNE, JR, US
[72] HINDSON, BENJAMIN JOSEPH, US
[72] NESS, KEVIN DEAN, US
[72] MASQUELIER, DONALD ARTHUR, US
[72] MILANOVICH, FRED PAUL, US
[72] MODLIN, DOUGLAS N., US
[72] RIOT, VINCENT, US
[72] BURD, SAMUEL, US
[72] MAKAREWICZ, ANTHONY JOSEPH, JR, US
[72] BELGRADER, PHILLIP, US
[71] BIO-RAD LABORATORIES, INC., US
[22] 2009-09-23
[41] 2010-04-01
[62] 3,075,139
[30] US (61/194,043) 2008-09-23
[30] US (61/206,975) 2009-02-05
[30] US (61/271,538) 2009-07-21
[30] US (61/275,731) 2009-09-01
[30] US (61/277,200) 2009-09-21
[30] US (61/277,203) 2009-09-21
[30] US (61/277,216) 2009-09-21
[30] US (61/277,204) 2009-09-21
[30] US (61/277,249) 2009-09-21
[30] US (61/277,270) 2009-09-22

---

[21] **3,149,348**
[13] A1
[25] EN
[54] **GLYCOSYLATED PEPTIDE LINKERS**
[54]
[72] KANNAN, GUNASEKARAN, US
[71] AMGEN INC., US
[22] 2014-03-14
[41] 2014-09-25
[62] 2,906,708
[30] US (61/784,669) 2013-03-14

---

[21] **3,149,384**
[13] A1
[51] **Int.Cl. E21D 9/00 (2006.01) E21D 9/08 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM OF CONSTRUCTING AN UNDERGROUND TUNNEL**
[54]
[72] JORDAN, STEPHEN, GB
[71] HYPERTUNNEL LIMITED, GB
[22] 2020-03-20
[41] 2020-10-01
[62] 3,133,618
[30] GB (1903979.1) 2019-03-22

---

[21] **3,149,389**
[13] A1
[25] EN
[54] **TRANSMITTING DEVICE, TRANSMITTING METHOD, RECEIVING DEVICE, AND RECEIVING METHOD**
[54] **DISPOSITIF DE TRANSMISSION, PROCEDE DE TRANSMISSION, DISPOSITIF DE RECEPTION ET PROCEDE DE RECEPTION**
[72] TSUKAGOSHI, IKUO, JP
[72] CHINEN, TORU, JP
[71] SONY CORPORATION, JP
[22] 2016-06-13
[41] 2016-12-22
[62] 2,956,136
[30] JP (2015-122292) 2015-06-17

[21] **3,149,402**
[13] A1
[25] EN
[54] **EXPRESSION VECTOR ELEMENT COMBINATIONS, NOVEL PRODUCTION CELL GENERATION METHODS AND THEIR USE FOR THE RECOMBINANT PRODUCTION OF POLYPEPTIDES**
[54] **COMBINAISONS D'ELEMENTS VECTEURS D'EXPRESSION, NOUVEAUX PROCEDES DE GENERATION DE CELLULES PRODUCTRICES ET LEUR UTILISATION POUR LA PRODUCTION RECOMBINANTE DE POLYPEPTIDES**
[72] HUELSMANN, PETER MICHAEL, DE
[72] KNOETGEN, HENDRICK, DE
[71] F. HOFFMAN-LA ROCHE AG, CH
[22] 2012-12-19
[41] 2013-06-27
[62] 2,854,249
[30] EP (11195361.8) 2011-12-22

---

[21] **3,149,410**
[13] A1
[51] **Int.Cl. G16H 40/67 (2018.01) G16H 20/17 (2018.01) A61B 5/145 (2006.01) A61M 5/142 (2006.01) A61M 5/168 (2006.01) A61M 5/172 (2006.01)**
[25] EN
[54] **DEVICES, METHODS AND SYSTEMS FOR WIRELESS CONTROL OF MEDICAL DEVICES**
[54] **DISPOSITIFS, PROCEDES ET SYSTEMES DE COMMANDE SANS FIL DE DISPOSITIFS MEDICAUX**
[72] KAMEN, DEAN, US
[72] KERWIN, JOHN M., US
[72] DURAND, KEVIN A., US
[72] LANIER, GREGORY R., JR., US
[72] GRAY, LARRY B., US
[72] RIVINIUS, GREGG W., US
[72] GUAY, GERALD M., US
[72] PERET, BOB D., US
[72] MURPHY, COLIN H., US
[72] BLUMBERG, DAVID, JR., US
[71] DEKA PRODUCTS LIMITED PARTNERSHIP, US
[22] 2012-12-21
[41] 2013-06-27
[62] 2,859,561
[30] US (13/332,896) 2011-12-21

---

[21] **3,149,413**
[13] A1
[25] EN
[54] **POLYPEPTIDE-BASED SHUTTLE AGENTS FOR IMPROVING THE TRANSDUCTION EFFICIENCY OF POLYPEPTIDE CARGOS TO THE CYTOSOL OF TARGET EUKARYOTIC CELLS, USES THEREOF, METHODS AND KITS RELATING TO SAME**
[54] **AGENTS NAVETTES A BASE DE POLYPEPTIDES POUR L'AMELIORATION DE L'EFFICACITE DE LA TRANSDUCTION DE CARGOS POLYPEPTIDIQUES DANS LE CYTOSOL DE CELLULES EUCARYOTES CIBLES, LEURS UTILIS ATIONS, PROCEDES ET TROUSSES LES CONCERNANT**
[72] GUAY, DAVID, CA
[72] DEL'GUIDICE, THOMAS, CA
[72] LEPETIT-STOAFFAES, JEAN-PASCAL, CA
[71] FELDAN BIO INC., CA
[22] 2016-04-08
[41] 2016-10-13
[62] 2,981,716
[30] US (62/145,760) 2015-04-10
[30] US (62/246,892) 2015-10-27

---

[21] **3,149,459**
[13] A1
[25] EN
[54] **GASTRO-RETENTIVE DRUG DELIVERY SYSTEM**
[54]
[72] MEIJERINK, HENDRIK JAN CORNELIS, NL
[72] CHANGOER, LEKHRAM, NL
[72] BLOM, WILLEM, NL
[72] VISSER, MARINELLA REGINA, NL
[72] FRIJLINK, HENDERIK WILLEM, NL
[72] EISSENS, ANKO CORNELUS, NL
[71] APET HOLDING B.V., NL
[22] 2013-07-15
[41] 2014-01-23
[62] 2,879,282
[30] NL (PCT/NL2012/050511) 2012-07-16

---

[21] **3,149,500**
[13] A1
[51] **Int.Cl. A61M 16/00 (2006.01) A61M 15/00 (2006.01) A61M 16/08 (2006.01) A61M 16/20 (2006.01) A63B 23/18 (2006.01)**
[25] EN
[54] **OSCILLATING POSITIVE EXPIRATORY PRESSURE DEVICE**
[54]
[72] MEYER, ADAM, CA
[72] ENGELBRETH, DAN, CA
[71] TRUDELL MEDICAL INTERNATIONAL, CA
[22] 2012-06-06
[41] 2012-12-13
[62] 3,096,365
[30] US (61/493816) 2011-06-06
[30] US (61/532951) 2011-09-09

---

[21] **3,149,508**
[13] A1
[51] **Int.Cl. A01D 57/00 (2006.01) A01D 41/06 (2006.01) A01D 41/12 (2006.01) A01D 43/06 (2006.01)**
[25] EN
[54] **FEEDER DEVICE**
[54] **DISPOSITIF D'ALIMENTATION**
[72] FELS, MICHAEL, AU
[71] IP MACHINERY PTY LTD, AU
[22] 2017-10-21
[41] 2018-03-08
[62] 3,054,577
[30] AU (2017900619) 2017-02-24

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[21] **3,149,540**
[13] A1
[51] **Int.Cl. E21B 7/02 (2006.01) E21B 15/00 (2006.01)**
[25] EN
[54] **ADJUSTMENT APPARATUS FOR CONTAINER INSTALLATION**
[54] **APPAREIL DE REGLAGE POUR INSTALLATION D'UN RECIPIENT**
[72] PHAM, HAU NGUYEN-PHUC, US
[71] LIBERTY OILFIELD SERVICES LLC, US
[22] 2014-12-12
[41] 2015-06-12
[62] 2,874,599
[30] US (61/915,291) 2013-12-12
[30] US (14/567,831) 2014-12-11

[21] **3,149,553**
[13] A1
[25] EN
[54] **SINGLE-CHAIN MULTIVALENT BINDING PROTEINS WITH EFFECTOR FUNCTION**
[54] **PROTEINES DE LIAISON MONOCATENAIRES POLYVALENTES DOTEES D'UNE FONCTION D'EFFECTEUR**
[72] THOMPSON, PETER ARMSTRONG, US
[72] LEDBETTER, JEFFREY A., US
[72] HAYDEN-LEDBETTER, MARTHA SUSAN, US
[72] GROSMAIRE, LAURA SUE, US
[72] BADER, ROBERT, US
[72] BRADY, WILLIAM, US
[72] TCHISTIAKOVA, LIOUDMILA, US
[72] FOLLETTIE, MAXIMILLIAN T., US
[72] CALABRO, VALERIE, US
[72] SCHULER, ALWIN, US
[71] APTEVO RESEARCH AND DEVELOPMENT LLC, US
[22] 2007-06-12
[41] 2007-12-21
[62] 2,654,317
[30] US (60/813,261) 2006-06-12
[30] US (60/853,287) 2006-10-20

[21] **3,149,713**
[13] A1
[51] **Int.Cl. A63B 59/70 (2015.01)**
[25] EN
[54] **HOCKEY-STICK BLADE WITH TAILORED PERFORMANCE REGIONS**
[54] **LAME DE BATON DE HOCKEY AYANT DES REGIONS DE PERFORMANCE ADAPTEES**
[72] VILLAR, EDSEL PADILLA, US
[72] SNOW, MICHAEL LLOYD, US
[72] MOUNTAIN, MICHAEL, US
[71] BAUER HOCKEY LTD., CA
[22] 2013-11-22
[41] 2014-06-05
[62] 3,077,451
[30] US (13/688,061) 2012-11-28

[21] **3,149,758**
[13] A1
[51] **Int.Cl. A61M 5/142 (2006.01) A61M 25/00 (2006.01) A61M 25/14 (2006.01) A61M 25/18 (2006.01) A61M 25/02 (2006.01)**
[25] EN
[54] **INFUSION SET AND/OR PATCH PUMP HAVING AT LEAST ONE OF AN IN-DWELLING RIGID CATHETER WITH FLEXIBLE FEATURES AND/OR A FLEXIBLE CATHETER ATTACHMENT**
[54]
[72] SKUTNIK, PETER, US
[72] HORVATH, JOSHUA, US
[72] BANIK, ROBERT, US
[72] SEARLE, GARY, US
[72] BENE, ERIC, US
[71] BECTON, DICKINSON AND COMPANY, US
[22] 2010-01-11
[41] 2010-07-15
[62] 2,993,719
[30] US (61/144,072) 2009-01-12
[30] US (12/585,061) 2009-09-02

[21] **3,149,767**
[13] A1
[25] EN
[54] **ESTIMATING AND DISPLAYING SOCIAL INTEREST IN TIME-BASED MEDIA**
[54]
[72] FLEISCHMAN, MICHAEL BEN, US
[72] ROY, DEB KUMAR, US
[71] BLUEFIN LABS, INC., US
[22] 2010-07-16
[41] 2011-01-20
[62] 3,041,557
[30] US (61/226002) 2009-07-16

[21] **3,149,800**
[13] A1
[51] **Int.Cl. B26D 1/01 (2006.01) B26D 5/00 (2006.01) B26D 7/26 (2006.01)**
[25] EN
[54] **CRAFTING APPARATUS ASSEMBLIES, SYSTEMS, DEVICES, KITS, MECHANISMS AND METHODOLOGIES FOR USING THE SAME**
[54] **ENSEMBLES APPAREIL DE CREATION, SYSTEMES, DISPOSITIFS, KITS, MECANISMES ET METHODOLOGIES D'UTILISATION DE CEUX-CI**
[72] CRYSTAL, JEREMY BURTON, US
[72] SUTTON, DONALD, US
[72] WAIBEL, MATTHEW, US
[72] CURTIS, KOREY, US
[72] CAMPBELL, VANCE, US
[72] ELZEY, JAMES A., US
[72] BANDIS, STEVEN, US
[72] BEALL, MATTHEW, US
[72] GUBLER, JEFFERY V., US
[71] CRICUT, INC,, US
[22] 2018-07-30
[41] 2019-01-31
[62] 3,071,021
[30] US (62/538,614) 2017-07-28

[21] **3,149,871**
[13] A1
[25] EN
[54] **METHODS FOR SUPPRESSING CANCER-RELATED CACHEXIA**
[54] **INHIBITEURS DE HDAC POUR SUPPRIMER LA CACHEXIE LIEE AU CANCER**
[72] CHEN, CHING-SHIH, US
[72] BEKAII-SAAB, TANIOS, US
[72] GUTTRIDGE, DENIS, US
[72] MARCUCCI, GUIDO, US
[72] KULP, SAMUEL, US
[72] TSENG, YU-CHOU, US
[71] OHIO STATE INNOVATION FOUNDATION, US
[22] 2014-11-19
[41] 2015-05-28
[62] 2,930,606
[30] US (61/906,738) 2013-11-20
[30] US (14/547,771) 2014-11-19

[21] **3,149,875**
[13] A1
[25] EN
[54] **DOORBELL COMMUNICATION SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE COMMUNICATION PAR L'INTERMEDIAIRE D'UNE SONNETTE DE PORTE**
[72] SCALISI, JOSEPH FRANK, US
[72] MEJIA, DESIREE, US
[72] HARRISON, GREGORY, US
[72] THOMAS, ANDREW PAUL, US
[72] KASMIR, SETON PAUL, US
[71] SKYBELL TECHNOLOGIES, INC., US
[22] 2014-08-29
[41] 2015-03-05
[62] 2,917,926
[30] US (61/872,439) 2013-08-30
[30] US (14/099,888) 2013-12-06
[30] US (14/098,772) 2013-12-06
[30] US (14/142,839) 2013-12-28
[30] US (14/275,811) 2014-05-12
[30] US (62/035,646) 2014-08-11
[30] US (14/463,548) 2014-08-19

[21] **3,149,881**
[13] A1
[25] EN
[54] **SUBSTITUTED TRICYCLIC COMPOUNDS AS FGFR INHIBITORS**
[54] **COMPOSES TRICYCLIQUES SUBSTITUES UTILISES COMME INHIBITEURS DE FGFR**
[72] LU, LIANG, US
[72] QIAN, DING-QUAN, US
[72] SUN, YAPING, US
[72] WU, LIANGXING, US
[72] XU, MEIZHONG, US
[72] YAO, WENQING, US
[72] ZHANG, COLIN, US
[72] ZHUO, JINCONG, US
[72] HE, CHUNHONG, US
[71] INCYTE HOLDINGS CORPORATION, US
[22] 2013-06-12
[41] 2014-01-09
[62] 2,876,689
[30] US (61/659,245) 2012-06-13
[30] US (61/691,463) 2012-08-21
[30] US (61/740,012) 2012-12-20
[30] US (61/774,841) 2013-03-08

[21] **3,149,909**
[13] A1
[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/122 (2006.01) A61B 17/128 (2006.01)**
[25] EN
[54] **SURGICAL DEVICE**
[54] **DISPOSITIF CHIRURGICAL**
[72] HUGHETT, JAMES DAVID, US
[72] MARTIN, KEITH EDWARD, US
[72] PRIVITERA, SALVATORE, US
[71] ATRICURE INC., US
[22] 2012-08-15
[41] 2013-02-21
[62] 3,099,578
[30] US (61/523,805) 2011-08-15

[21] **3,149,993**
[13] A1
[25] EN
[54] **AORTIC INSUFFICIENCY REPAIR DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE DE REPARATION D'INSUFFISANCE AORTIQUE**
[72] KARAPETIAN, EMIL, US
[72] STANISLAUS, MARIA CHARLES, VIJA, US
[72] BAK-BOYCHUK, GREGORY, US
[72] OLSON, CHRISTOPHER, J., US
[72] HERNANDEZ, CRISTOBAL, R., US
[72] BRUNNETT, WILLIAM, C., US
[72] BENICHOU, NETANEL, US
[72] FRESCHAUF, LAUREN, R., US
[72] SIEGEL, ALEXANDER, J., US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[22] 2014-11-21
[41] 2015-05-28
[62] 2,928,203
[30] US (61/907,650) 2013-11-22
[30] US (14/549,431) 2014-11-20

[21] **3,150,024**
[13] A1
[51] **Int.Cl. F01D 5/30 (2006.01) F01D 5/14 (2006.01) F01D 5/32 (2006.01) F01D 5/34 (2006.01) F04D 29/32 (2006.01)**
[25] FR
[54] **FAN FOR A TURBOMACHINE**
[54] **SOUFFLANTE POUR UNE TURBOMACHINE**
[72] JABLONSKI, LAURENT, FR
[72] JOLY, PHILIPPE GERARD EDMOND, FR
[72] PERDRIGEON, CHRISTOPHE, FR
[72] MERLOT, DAMIEN, FR
[72] POHIER, HERVE, FR
[71] SNECMA, FR
[22] 2014-11-26
[41] 2015-06-04
[62] 2,931,769
[30] FR (1361905) 2013-11-29

[21] **3,150,067**
[13] A1
[25] EN
[54] **ACCURATELY CALCULATING ACOUSTIC TIME-OF-FLIGHT**
[54]
[72] OTTER, MICHAEL, US
[72] STEVENS, BENJAMIN, US
[72] BAUER, DANIEL, US
[71] VENTANA MEDICAL SYSTEMS, INC., US
[22] 2015-12-17
[41] 2016-06-23
[62] 2,965,435
[30] US (62/093,173) 2014-12-17

[21] **3,150,092**
[13] A1
[51] **Int.Cl. G06Q 50/06 (2012.01) G06Q 10/04 (2012.01) G16Y 10/35 (2020.01) G16Y 40/10 (2020.01)**
[25] EN
[54] **OPTIMIZING DISTRIBUTED ENERGY RESOURCE VALUE**
[54] **OPTIMISATION DE LA VALEUR D`UNE RESSOURCE D`ENERGIE DISTRIBUEE**
[72] KRISHNAMURTHY, RAJAGOPALAN, US
[72] SANTANA, LETICIA, CA
[71] HYGGE ENERGY INC., US
[22] 2021-03-31
[41] 2021-06-19
[62] 3,113,822

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[21] **3,150,098**
[13] A1
[25] EN
[54] **PAYMENT SYSTEM FOR PRE-AUTHORIZED SERVICES**
[54]
[72] BULLEY, CHRISTOPHER, CA
[71] CRB CONSULTING INC., CA
[22] 2008-06-23
[41] 2008-12-22
[62] 2,636,116
[30] US (60/945,718) 2007-06-22

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[21] **3,150,133**
[13] A1
[51] **Int.Cl. H01P 1/207 (2006.01)**
[25] EN
[54] **SINGLE MODE CAVITY FILTER**
[54]
[72] ACCATINO, LUCIANO, IT
[71] AC CONSULTING DI LUCIANO ACCATINO, IT
[22] 2021-07-20
[41] 2022-02-07
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