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THE CANADIAN PATENT OFFICE RECORD

LA GAZETTE DU BUREAU DES BREVETS

Johanne Bélisle
Commissioner of Patents

Johanne Bélisle
Commissaire aux 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.

The Canadian Intellectual Property Office does not guarantee the accuracy of this publication, nor undertake any responsibility for errors or omissions or their consequences.

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

Avis

1. Dates and Code Numerals Appearing in Patent Headings

Dates

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

Code Numerals

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

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

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

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

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'identification 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).

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

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.

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. 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. 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.

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.

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.

8. List of Patents Available for Licence or Sale

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

None

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

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

Aucun

9. Applications Open to Public Inspection

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

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).

11. Patent Cooperation Treaty (PCT) Schedule of Fees Applicable for Applications Filed on or After February 19, 2019

1. Transmittal Fee (Rule 14)	\$300
2. International Filing Fee	\$1730*
For each additional sheet over 30	\$20
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

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. 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. Traité de coopération en matière de brevets (PCT) barème de taxes à partir du 19 février 2019

1. Taxe de transmission (Règle 14)	300 \$
2. Taxe de dépôt internationale	1730 \$*
Pour chaque feuille au delà de 30	20 \$
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

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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)) \$260

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

* International fees will be reduced by:

- \$260 for all applications filed electronically using PCT-SAFE or ePCT (The request in character coded format).
- \$390 for all applications filed electronically using PCT-SAFE or ePCT (The request, description, claims and abstract in character coded format).

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).

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 57.2a) 260 \$

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

* Les frais seront réduits de:

- 260 \$ pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête étant en format à codage de caractères).
- 390 \$ 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. 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

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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).

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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(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. 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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3. Précisions concernant les formats électroniques acceptés
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6. Procédures en cas de fermeture imprévue des bureaux de l'OPIC

Avis

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

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

Download the [Fee Payment Form](#).

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,

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

Téléchargez le [formulaire de paiement des frais](#).

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

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except statutory holiday

l'exception des jours fériés

- 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

- 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

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

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

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

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

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

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

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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.

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

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. 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,

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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).

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.

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 où l'OPIC l'a reçue (Heure de l'Est).

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'acquiescement 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.

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Patents

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

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.

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](#).

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](#).

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

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 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.

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](#).

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](#).

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

Avis

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.

Copyright

:

- [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.

Droits d'auteur

Notices

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](#).

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](#).

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](#).

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.

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](#).

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](#).

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 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.

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 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.

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.

Notices

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.

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.

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

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.

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. 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.

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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 1/2" 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.

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.

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.

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)

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

Notices

4. General Information

General information may be obtained by communicating with CIPO's [Client Service Centre](#).

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](#)

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;

4. Renseignements généraux

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

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](#)

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 réglementaire** 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 réglementaires** 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 (1^{er} 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 (1^{er} juillet)*;
- Le premier lundi du mois d'août***;
- Fête du travail : Premier lundi du mois de septembre;

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- 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.

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,

- 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 réglementaires 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 réglementaires pour lesquels un délai peut être prorogé. Il est recommandé que les clients soient attentifs et s'assurent que tout délai soit respecté.

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

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

Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

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

- i. on which such Office or organization is not open to the public for the purposes of the transaction of official business;
- ii. on which ordinary mail is not delivered in the locality in which such Office or organization is situated;
- iii. which, where such Office or organization is situated in more than one locality, is an official holiday in at least one of the localities in which such Office or organization is situated, and in circumstances where the national law applicable by that Office or organization provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day; or
- iv. which, where such Office is the government authority of a Contracting State entrusted with the granting of patents, is an official holiday in part of that Contracting State, and in circumstances where the national law applicable by that Office provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day;

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

Time period extensions under the Madrid Protocol and the Hague Agreement

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

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

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

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

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

- i. où cet office ou cette organisation n'est pas ouvert au public pour traiter d'affaires officielles;
- ii. où le courrier ordinaire n'est pas délivré dans la localité où cet office ou cette organisation est situé;
- iii. qui, lorsque cet office ou cette organisation est situé dans plus d'une localité, est un jour férié dans au moins une des localités dans lesquelles cet office ou cette organisation est situé, et dans le cas où la législation nationale applicable par cet office ou cette organisation prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant; ou
- iv. qui, lorsque cet office est l'administration gouvernementale d'un État contractant chargée de délivrer des brevets, est un jour férié dans une partie de cet État contractant, et dans le cas où la législation nationale applicable par cet office prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant;

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

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

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

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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](#).

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

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. 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

Notices

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.

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.

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](#)

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](#).

Veillez 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. 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. 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](#)

Avis

- [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 May 19, 2020 contains applications open to public inspection from May 3, 2020 to May 9, 2020.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 19 mai 2020 contient les demandes disponibles au public pour consultation pour la période du 3 mai 2020 au 9 mai 2020.

Canadian Patents Issued

May 19, 2020

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[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING AND PREVENTING NECROSIS**
[54] **COMPOSITIONS ET PROCEDES PERMETTANT DE TRAITER ET DE PREVENIR LA NECROSE**
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[72] LICHTENSTEIN, ALEXANDRA, IL
[73] ELA PHARMA LTD.,
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[54] **BIBLIOTHEQUE MULTIMEDIA DANS UNE APPLICATION DE GUIDAGE MULTIMEDIA INTERACTIVE**
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[72] WALKER, TODD A., US
[73] ROVI GUIDES, INC.,
[85] 2008-06-03
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[11] **2,682,037**
[13] A1
[51] **Int.Cl. H04L 12/16 (2006.01) G06Q 30/02 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR FACILITATING ACCESS TO A PROMOTIONAL OFFER**
[54] **PROCEDE ET SYSTEME DESTINES A FACILITER L'ACCES A UNE OFFRE PROMOTIONNELLE**
[72] KING, GUY PHILIP WILLIAM, AU
[73] RETAILMENOT, INC.,
[86] (2682037)
[87] (2682037)
[22] 2009-10-09
[30] US (61/232241) 2009-08-07

[11] **2,728,076**
[13] A1
[51] **Int.Cl. C07K 16/00 (2006.01) C07K 16/24 (2006.01)**
[25] EN
[54] **ANTIGEN BINDING POLYPEPTIDES**
[54] **POLYPEPTIDES DE LIAISON AUX ANTIGENES**
[72] DREIER, TORSTEN, BE
[72] BLANCHETOT, CHRISTOPHE FREDERIC JEROME, NL
[72] DE HAARD, JOHANNES JOESPH WILHELMUS, NL
[73] DREIER, TORSTEN,
[73] BLANCHETOT, CHRISTOPHE FREDERIC JEROME,
[73] DE HAARD, JOHANNES JOESPH WILHELMUS,
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[11] **2,756,001**
[13] A1
[51] **Int.Cl. H04B 1/707 (2011.01)**
[25] EN
[54] **DOWNLINK COMMUNICATION**
[54] **COMMUNICATION SUR LA LIAISON DESCENDANTE**
[72] SINSUAN, KENNETH C., US
[72] MYERS, THEODORE J., US
[72] COHEN, LEWIS N., US
[72] HUGHES, MATTHEW, US
[72] WERNER, DANIEL THOMAS, US
[72] BOESEL, ROBERT W., US
[72] SINGLER, PATRICK M., US
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[73] MYERS, THEODORE J.,
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[73] SINGLER, PATRICK M.,
[73] INGENU INC.,
[85] 2011-09-19
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[30] US (12/408,538) 2009-03-20
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[51] **Int.Cl. C12N 5/00 (2006.01) A01K 67/027 (2006.01) C12N 9/78 (2006.01) C12N 15/00 (2006.01)**

[25] EN

[54] **MUTANTS OF ACTIVATION-INDUCED CYTIDINE DEAMINASE (AID) AND METHODS OF USE**

[54] **MUTANTS DE CYTIDINE DESAMINASE INDUITE PAR ACTIVATION (AID) ET PROCEDES D'UTILISATION**

[72] WANG, MENG, GB

[72] YANG, ZIZHEN, GB

[72] RADA, CRISTINA, GB

[72] NEUBERGER, MICHAEL, GB

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[54] **PASSIVE CAPILLARY AND GRAVITY DRAINAGE SYSTEM AND METHOD**

[54] **SYSTEME ET METHODE DE DRAINAGE CAPILLAIRE PASSIF ET PAR GRAVITE**

[72] DES GARENNES, CHRIS, US

[72] VAN DRUMPT, PETER, US

[73] SUBAIR SYSTEMS, L.L.C.,

[73] DES GARENNES, CHRIS,

[73] VAN DRUMPT, PETER,

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[11] **2,782,878**
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[51] **Int.Cl. F03B 13/18 (2006.01) F03D 9/30 (2016.01) E02B 9/08 (2006.01) F03B 13/26 (2006.01)**

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[54] **OCEAN DRIVEN ENERGY PLANT**

[54] **INSTALLATION D'ENERGIE ENTRAINEE PAR LES VAGUES DE L'OCEAN**

[72] HENRY, TERRY, US

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[54] **AEROSOL-GENERATING SUBSTRATE FOR SMOKING ARTICLES**

[54] **SUBSTRAT DE PRODUCTION D'AEROSOL POUR ARTICLES A FUMER**

[72] RENAUD, JEAN-MARC, CH

[72] PIADE, JEAN-JACQUES, CH

[72] ZUBER, JACQUES, CH

[72] ZUCHUAT, FABIEN, CH

[72] AJITHKUMAR, ANU, CH

[72] BONNELY, SAMUEL, CH

[72] PIJNENBURG, JOHANNES PETRUS MARIA, CH

[73] PHILIP MORRIS PRODUCTS S.A.,

[73] RENAUD, JEAN-MARC,

[73] PIADE, JEAN-JACQUES,

[73] ZUBER, JACQUES,

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[54] **WELL PAD PLACEMENT**

[54] **PLACEMENT D'UNE PLATEFORME D'EXPLOITATION**

[72] LU, ZHENGANG, US

[72] VALOVA, ELENA, US

[72] CRICK, MARTIN, FR

[73] SCHLUMBERGER CANADA LIMITED,

[73] LU, ZHENGANG,

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[54] **DEGRADABLE PHOTO-CROSSLINKER**

[54] **AGENT DE RETICULATION PHOTOCHIMIQUE DEGRADABLE**

[72] KURDYUMOV, ALEKSEY V., US

[72] SWAN, DALE G., US

[73] SURMODICS, INC.,

[73] KURDYUMOV, ALEKSEY V.,

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[51] **Int.Cl. A61K 47/34 (2017.01) A61K 38/00 (2006.01)**

[25] EN

[54] **BIODEGRADABLE PHASE SEPARATED SEGMENTED MULTI BLOCK CO-POLYMERS AND RELEASE OF BIOLOGICALLY ACTIVE POLYPEPTIDES**

[54] **COPOLYMERES BIODEGRADABLES MULTISEQUENCES, A PHASES SEPREES ET LIBERATION DE POLYPEPTIDES BIOLOGIQUEMENT ACTIFS**

[72] STEENDAM, ROB, NL

[72] FLIPSEN, THEODORUS ADRIANUS CORNELIUS, NL

[72] HIEMSTRA, CHRISTINE, NL

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[54] **ROTARY ACTUATED HIGH LIFT GAPPED AILERON**

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[72] SAKURAI, SEIYA, US

[73] THE BOEING COMPANY,

[73] KORDAL, JAN A.,

[73] SAKURAI, SEIYA,

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[72] IVAKITCH, RICHARD, CA

[72] ELEFThERIOU, ANDREAS, CA

[73] PRATT & WHITNEY CANADA CORP.,

[73] IVAKITCH, RICHARD,

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[25] EN

[54] **METHOD AND SYSTEM FOR LIGHTNING PROTECTION WITH DISTRIBUTED TRANSIENT VOLTAGE SUPPRESSION**

[54] **PROCEDE ET SYSTEME DE PROTECTION DE L'ECLAIRAGE AVEC SUPPRESSEUR DE TENSION TRANSITOIRE DISTRIBUE**

[72] KNOBLOCH, AARON JAY, US

[72] ANDARAWIS, EMAD ANDARAWIS, US

[72] MATHEWS, HARRY KIRK, JR., US

[72] KASHYAP, AVINASH SRIKRISHNAN, US

[73] GENERAL ELECTRIC COMPANY,

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[25] EN

[54] **ECHOGENIC NERVE BLOCK APPARATUS AND SYSTEM**

[54] **APPAREIL ET SYSTEME ECHOGENES D'ANESTHESIE TRONCULAIRE**

[72] MASSENGALE, ROGER DILLARD, US

[72] KHALAJ, STEVE S., US

[72] DESAI, SIDDHARTH, US

[72] COOKE, DOMINIC J., US

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[73] AVENT, INC.,

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- [25] EN
- [54] **RESONANT MODE DAMPING SYSTEM AND METHOD**
- [54] **SYSTEME ET PROCEDE D'AMORTISSEMENT DE MODE RESONANT**
- [72] FICKLSCHERER, PETER, DE
- [72] PEDRAMI, REZA, CA
- [73] PRATT & WHITNEY CANADA CORP.,
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[11] **2,812,677**

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- [25] EN
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- [72] TWOMEY, JOHN R., US
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- [72] BRANDT, KIM V., US
- [72] HART, KEIR, US
- [72] JOSEPH, DANIEL A., US
- [72] UNGER, JEFFREY R., US
- [73] COVIDIEN LP,
- [73] TWOMEY, JOHN R.,
- [73] ALLEN, JAMES D., IV,
- [73] BRANDT, KIM V.,
- [73] HART, KEIR,
- [73] JOSEPH, DANIEL A.,
- [73] UNGER, JEFFREY R.,
- [86] (2812677)
- [87] (2812677)
- [22] 2013-04-16
- [30] US (13/461,410) 2012-05-01

[11] **2,816,347**

[13] A1

- [51] **Int.Cl. C21B 13/00 (2006.01) C21B 5/00 (2006.01) C22B 5/12 (2006.01)**
- [25] EN
- [54] **PRODUCTION OF IRON**
- [54] **PRODUCTION DE FER**
- [72] EVANS, TIMOTHY JAMES, AU
- [73] TECHNOLOGICAL RESOURCES PTY. LIMITED,
- [73] EVANS, TIMOTHY JAMES,
- [85] 2013-04-29
- [86] 2011-11-03 (PCT/AU2011/001404)
- [87] (WO2012/058717)
- [30] AU (2010904887) 2010-11-03

[11] **2,820,551**

[13] A1

- [51] **Int.Cl. F24F 13/24 (2006.01) F24F 13/30 (2006.01) F24H 3/06 (2006.01)**
- [25] EN
- [54] **COMBUSTION ACOUSTIC NOISE PREVENTION IN A HEATING FURNACE**
- [54] **DISPOSITIF D'ELIMINATION DU BRUIT ACOUSTIQUE DE COMBUSTION DANS UN FOUR DE CHAUFFAGE**
- [72] NOMAN, SHIBLEE S. M., US
- [73] LENNOX INDUSTRIES, INC.,
- [73] NOMAN, SHIBLEE S. M.,
- [86] (2820551)
- [87] (2820551)
- [22] 2013-07-10
- [30] US (13/556,353) 2012-07-24

[11] **2,829,052**

[13] A1

- [51] **Int.Cl. A61M 25/10 (2013.01) A61B 17/22 (2006.01) A61B 17/3207 (2006.01)**
- [25] EN
- [54] **AN ANCHORING SYSTEM FOR ANCHORING A BORING TOOL IN A LUMEN OR VESSEL**
- [54] **UN SYSTEME D'ANCRAGE SERVANT A ANCRER UN OUTIL DE PERCAGE DANS UNE LUMIERE OU UN VAISSEAU**
- [72] LUPTON, HENRY WILLIAM, IE
- [73] CAPSOS MEDICAL LIMITED,
- [85] 2013-09-04
- [86] 2012-03-15 (PCT/IE2012/000012)
- [87] (WO2012/123930)
- [30] IE (S2011/0123) 2011-03-15

[11] **2,831,579**

[13] A1

- [51] **Int.Cl. B01D 71/06 (2006.01) B01D 67/00 (2006.01) B01D 69/12 (2006.01)**
- [25] EN
- [54] **ASYMMETRIC NANOTUBE CONTAINING MEMBRANES**
- [54] **MEMBRANES CONTENANT DES NANOTUBES ASYMETRIQUES**
- [72] RATTO, TIMOTHY V., US
- [72] HOLT, JASON K., US
- [72] SZMODIS, ALAN W., US
- [73] NANOASIS TECHNOLOGIES, INC.,
- [73] RATTO, TIMOTHY V.,
- [73] HOLT, JASON K.,
- [73] SZMODIS, ALAN W.,
- [85] 2013-09-26
- [86] 2011-04-01 (PCT/US2011/030944)
- [87] (WO2011/123780)
- [30] US (12/753,353) 2010-04-02

[11] **2,832,083**

[13] A1

- [51] **Int.Cl. F28F 13/06 (2006.01) F28F 1/40 (2006.01)**
- [25] EN
- [54] **HEAT TRANSFER TUBE AND CRACKING FURNACE USING THE SAME**
- [54] **TUBE CALOPORTEUR ET FOUR DE CRAQUAGE UTILISANT CELUI-CI**
- [72] WANG, GUOQING, CN
- [72] ZHANG, LIJUN, CN
- [72] ZHOU, XIANFENG, CN
- [72] LIU, JUNJIE, CN
- [72] DU, ZHIGUO, CN
- [72] ZHANG, YONGGANG, CN
- [72] ZHANG, ZHAOBIN, CN
- [72] ZHOU, CONG, CN
- [73] CHINA PETROLEUM & CHEMICAL CORPORATION,
- [73] BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CHEMICAL CORPORATION,
- [73] WANG, GUOQING,
- [73] ZHANG, LIJUN,
- [73] ZHOU, XIANFENG,
- [73] LIU, JUNJIE,
- [73] DU, ZHIGUO,
- [73] ZHANG, YONGGANG,
- [73] ZHANG, ZHAOBIN,
- [73] ZHOU, CONG,
- [86] (2832083)
- [87] (2832083)
- [22] 2013-10-29
- [30] CN (CN 201310512687.2) 2013-10-25

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[11] **2,833,897**
[13] A1

[51] **Int.Cl. B01J 19/00 (2006.01) G01N 1/10 (2006.01) G01N 27/02 (2006.01) G01N 33/483 (2006.01)**

[25] EN

[54] **MICROFLUIDIC FEEDBACK USING IMPEDANCE DETECTION**

[54] **RETROACTION MICROFLUIDIQUE UTILISANT UNE DETECTION D'IMPEDANCE**

[72] STURMER, RYAN, US
[72] SRINIVASAN, VIJAY, US
[72] SUDARSAN, ARJUN, US
[73] ADVANCED LIQUID LOGIC, INC.,
[73] STURMER, RYAN,
[73] SRINIVASAN, VIJAY,
[73] SUDARSAN, ARJUN,
[85] 2013-10-18
[86] 2012-05-08 (PCT/US2012/036949)
[87] (WO2012/154745)
[30] US (61/483,827) 2011-05-09

[11] **2,836,660**
[13] A1

[51] **Int.Cl. A61M 1/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DELIVERING FLUID TO A WOUND THERAPY DRESSING**

[54] **SYSTEMES ET PROCEDES POUR DISTRIBUER UN FLUIDE A UN PANSEMENT DE THERAPIE DE PLAIE**

[72] LOCKE, CHRISTOPHER B., US
[72] BENDELE, KEVIN, US
[72] LUCKEMEYER, JAMES, US
[73] KCI LICENSING, INC.,
[73] LOCKE, CHRISTOPHER B.,
[73] BENDELE, KEVIN,
[73] LUCKEMEYER, JAMES,
[85] 2013-11-18
[86] 2012-05-22 (PCT/US2012/038945)
[87] (WO2012/166428)
[30] US (61/490,880) 2011-05-27

[11] **2,847,569**
[13] A1

[51] **Int.Cl. A01N 43/16 (2006.01)**

[25] EN

[54] **SEED TREATMENT METHODS AND COMPOSITIONS COMPRISING LIPO-CHITOLIGOSACCHARIDES**

[54] **METHODES ET COMPOSITIONS DE TRAITEMENT DE SEMENCESS**

[72] SMITH, R. STEWART, US
[72] HABIB, AHSAN, US
[72] KOSANKE, JOHN, US
[73] NOVOZYMES BIOAG A/S,
[73] SMITH, R. STEWART,
[73] HABIB, AHSAN,
[73] KOSANKE, JOHN,
[85] 2014-03-03
[86] 2012-09-10 (PCT/US2012/054443)
[87] (WO2013/036922)
[30] US (61/532,234) 2011-09-08
[30] US (61/568,435) 2011-12-08

[11] **2,835,622**
[13] A1

[51] **Int.Cl. B24C 1/08 (2006.01) B01J 23/00 (2006.01) B01J 23/90 (2006.01) B01J 35/00 (2006.01) C07D 301/00 (2006.01)**

[25] EN

[54] **METHOD OF QUALIFYING MATERIAL FOR USE IN CLEANING OF ALKYLENE OXIDE EQUIPMENT**

[54] **PROCEDE DE QUALIFICATION D'UNE SUBSTANCE DESTINEE A ETRE UTILISEE DANS LE NETTOYAGE D'UN MATERIEL METTANT EN JEU DE L'OXYDE D'ALKYLENE**

[72] HINMAN, PAUL VICTOR, US
[73] DOW TECHNOLOGY INVESTMENTS LLC,
[73] HINMAN, PAUL VICTOR,
[85] 2013-11-08
[86] 2012-05-10 (PCT/US2012/037296)
[87] (WO2012/166312)
[30] US (61/490,722) 2011-05-27

[11] **2,836,794**
[13] A1

[51] **Int.Cl. A61F 5/56 (2006.01) A61C 7/08 (2006.01)**

[25] EN

[54] **DENTAL APPLIANCE**

[54] **APPAREIL DENTAIRE**

[72] GORMAN, MARTIN N., US
[73] GORMAN, MARTIN N.,
[85] 2013-11-19
[86] 2012-05-31 (PCT/US2012/040176)
[87] (WO2012/166896)
[30] US (61/492,117) 2011-06-01

[11] **2,848,680**
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01) C12N 15/113 (2010.01) A01N 25/30 (2006.01) A01N 61/00 (2006.01) A01P 13/02 (2006.01) A01P 21/00 (2006.01) C12N 15/54 (2006.01) C12N 15/87 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR WEED CONTROL**

[54] **PROCEDES ET COMPOSITIONS DE LUTTE CONTRE LES MAUVAISES HERBES**

[72] ADER, DANIEL, US
[72] DIMMIC, MATT W., US
[72] LI, ZHAOLONG, US
[72] SAMMONS, ROBERT DOUGLAS, US
[72] SHAH, RONAK HASMUKH, US
[72] TAO, NENGBING, US
[72] WANG, DAFU, US
[73] MONSANTO TECHNOLOGY LLC,
[73] ADER, DANIEL,
[73] DIMMIC, MATT W.,
[73] LI, ZHAOLONG,
[73] SAMMONS, ROBERT DOUGLAS,
[73] SHAH, RONAK HASMUKH,
[73] TAO, NENGBING,
[73] WANG, DAFU,
[85] 2014-03-13
[86] 2012-09-12 (PCT/US2012/054862)
[87] (WO2013/040033)
[30] US (61/534,073) 2011-09-13

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[11] **2,853,482**
[13] A1

[51] **Int.Cl. C12N 5/073 (2010.01) C12N 7/00 (2006.01)**

[25] EN

[54] **CELL LINE FOR PRODUCTION OF ADENO-ASSOCIATED VIRUS**

[54] **LIGNEE CELLULAIRE POUR LA PRODUCTION D'UN VIRUS ADENO-ASSOCIE**

[72] GRIEGER, JOSHUA, US

[72] SAMULSKI, RICHARD JUDE, US

[73] GRIEGER, JOSHUA,

[73] SAMULSKI, RICHARD JUDE,

[73] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL,

[85] 2014-04-24

[86] 2012-10-26 (PCT/US2012/062101)

[87] (WO2013/063379)

[30] US (61/552,492) 2011-10-28

[11] **2,870,905**
[13] A1

[51] **Int.Cl. G06N 5/04 (2006.01) G06F 16/23 (2019.01) G06F 16/24 (2019.01) A63F 9/24 (2006.01) G07C 13/00 (2006.01)**

[25] EN

[54] **ASSOCIATION MAPPING GAME**

[54] **JEU DE MAPPAGE D'ASSOCIATIONS**

[72] MOORTHY, JAISREE, US

[72] NATARAJAN, SHREEDHAR, US

[73] GANALILA, LLC,

[73] MOORTHY, JAISREE,

[73] NATARAJAN, SHREEDHAR,

[85] 2014-10-17

[86] 2013-04-18 (PCT/US2013/037171)

[87] (WO2013/158880)

[30] US (61/635,067) 2012-04-18

[11] **2,873,426**
[13] A1

[51] **Int.Cl. A61C 1/00 (2006.01) A61C 19/06 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR CONTROLLED FLUID COOLING DURING LASER BASED DENTAL TREATMENTS**

[54] **APPAREIL ET PROCEDE POUR LE REFROIDISSEMENT D'UN FLUIDE REGULE AU COURS DE TRAITEMENTS DENTAIRE A BASE DE LASER**

[72] MONTY, NATHAN P., US

[72] DRESSER, CHARLES H., US

[73] CONVERGENT DENTAL, INC.,

[73] MONTY, NATHAN P.,

[73] DRESSER, CHARLES H.,

[85] 2014-11-12

[86] 2013-05-14 (PCT/US2013/040945)

[87] (WO2013/173334)

[30] US (61/646,579) 2012-05-14

[11] **2,875,505**
[13] A1

[51] **Int.Cl. A47K 10/36 (2006.01)**

[25] EN

[54] **ELECTRONIC TOWEL DISPENSER WITH ADDITIONAL POWER SAVING MODE**

[54] **DISTRIBUTEUR ELECTRONIQUE DE SERVIETTES PRESENTANT UN MODE ECONOMIE D'ENERGIE ADDITIONNEL**

[72] TRAMONTINA, PAUL F., US

[72] ENGELSTEIN, GEOFFREY, US

[72] O'CONNOR, JOHN, US

[73] KIMBERLY-CLARK WORLDWIDE, INC.,

[73] TRAMONTINA, PAUL F.,

[73] ENGELSTEIN, GEOFFREY,

[73] O'CONNOR, JOHN,

[85] 2014-12-02

[86] 2013-06-14 (PCT/IB2013/054896)

[87] (WO2014/001944)

[30] US (13/537,344) 2012-06-29

[11] **2,879,007**
[13] A1

[51] **Int.Cl. F25B 49/02 (2006.01) F25D 29/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR REFRIGERANT CHARGE DETECTION**

[54] **SYSTEMES ET METHODES DE DETECTION DE CHARGE DE FRIGORIGENE**

[72] DOUGLAS, JONATHAN, US

[72] USELTON, ROBERT B., US

[73] LENNOX INDUSTRIES INC.,

[73] DOUGLAS, JONATHAN,

[73] USELTON, ROBERT B.,

[86] (2879007)

[87] (2879007)

[22] 2015-01-19

[30] US (14/173,579) 2014-02-05

[11] **2,887,065**
[13] A1

[51] **Int.Cl. G01N 27/62 (2006.01) G01N 33/24 (2006.01) H01J 49/04 (2006.01)**

[25] EN

[54] **ANALYSIS OF HYDROCARBON LIQUID AND SOLID SAMPLES**

[54] **ANALYSE D'ECHANTILLONS D'HYDROCARBURES LIQUIDES ET SOLIDES**

[72] WU, CHUNPING, US

[72] WALTERS, CLIFFORD C., US

[72] QIAN, KUANGNAN, US

[73] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY,

[73] WU, CHUNPING,

[73] WALTERS, CLIFFORD C.,

[73] QIAN, KUANGNAN,

[85] 2015-04-02

[86] 2013-11-27 (PCT/US2013/072155)

[87] (WO2014/099313)

[30] US (61/738,738) 2012-12-18

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[11] **2,889,199**
[13] A1

[51] **Int.Cl. A61K 9/10 (2006.01) A61K 9/50 (2006.01) A61K 31/327 (2006.01) A61K 45/06 (2006.01) A61P 17/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS FOR THE TREATMENT OF ROSACEA**

[54] **COMPOSITIONS POUR LE TRAITEMENT DE L'ACNE ROSACEE**

[72] SERTCHOOK, HANAN, IL
[72] TOLEDANO, OFER, IL
[72] BAR-SIMANTOV, HAIM, IL
[73] SOL-GEL TECHNOLOGIES LTD.,
[73] SERTCHOOK, HANAN,
[73] TOLEDANO, OFER,
[73] BAR-SIMANTOV, HAIM,
[85] 2015-04-22
[86] 2012-11-27 (PCT/IL2012/050479)
[87] (WO2014/083557)

[11] **2,907,425**
[13] A1

[51] **Int.Cl. E21B 47/12 (2012.01) E21B 7/06 (2006.01) E21B 47/16 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONTROLLING A DOWNHOLE TOOL**

[54] **SYSTEME ET PROCEDE POUR LA COMMANDE D'UN OUTIL DE FOND DE TROU**

[72] PRILL, JONATHAN RYAN, CA
[72] ZEWEIL, RAMI, CA
[72] CLAUSEN, JEFFERY, US
[73] NATIONAL OILWELL VARCO, L.P.,
[73] PRILL, JONATHAN RYAN,
[73] ZEWEIL, RAMI,
[73] CLAUSEN, JEFFERY,
[85] 2015-09-16
[86] 2014-03-20 (PCT/US2014/031334)
[87] (WO2014/153460)
[30] US (61/803,696) 2013-03-20

[11] **2,915,265**
[13] A1

[51] **Int.Cl. A61B 5/117 (2016.01) A61B 5/02 (2006.01)**

[25] EN

[54] **BIOMETRIC IDENTIFICATION SYSTEM USING PULSE WAVEFORM**

[54] **SYSTEME D'IDENTIFICATION BIOMETRIQUE UTILISANT UNE FORME D'ONDE D'IMPULSION**

[72] PHILLIPS, BRIAN KIRBY, US
[72] WILSON, GEOFFREY A., US
[73] PHILLIPS, BRIAN KIRBY,
[73] WILSON, GEOFFREY A.,
[73] LIFELOC TECHNOLOGIES, INC.,
[85] 2015-12-11
[86] 2014-06-05 (PCT/US2014/041004)
[87] (WO2014/200788)
[30] US (13/916,818) 2013-06-13

[11] **2,915,416**
[13] A1

[51] **Int.Cl. H02M 1/32 (2007.01) F03D 9/25 (2016.01) H01C 1/08 (2006.01) H01C 7/12 (2006.01) H02M 5/00 (2006.01)**

[25] EN

[54] **WIND TURBINE**

[54] **EOLIENNE**

[72] BERENTS, GERD, DE
[72] SCHROBSDORFF, SIMON, DE
[73] WOBLEN PROPERTIES GMBH,
[73] BERENTS, GERD,
[73] SCHROBSDORFF, SIMON,
[85] 2015-12-14
[86] 2014-06-16 (PCT/EP2014/062531)
[87] (WO2014/206783)
[30] DE (10 2013 211 898.8) 2013-06-24

[11] **2,925,783**
[13] A1

[51] **Int.Cl. G07F 17/24 (2006.01) G06Q 20/32 (2012.01) G06Q 20/40 (2012.01)**

[25] EN

[54] **PARKING METER WITH CONTACTLESS PAYMENT**

[54] **PARCOMETRE AVEC METHODE DE PAIEMENT SANS CONTACT**

[72] MACKAY, GEORGE ALLAN, CA
[72] CHAUVIN, GREGORY EMILE, CA
[72] O'NEIL, ADRIAN IGNATIUS, CA
[73] J.J. MACKAY CANADA LIMITED,
[73] MACKAY, GEORGE ALLAN,
[73] CHAUVIN, GREGORY EMILE,
[73] O'NEIL, ADRIAN IGNATIUS,
[86] (2925783)
[87] (2925783)
[22] 2012-03-02
[62] 2,773,250
[30] CA (2,733,110) 2011-03-03
[30] CA (2,756,489) 2011-10-28

[11] **2,944,507**
[13] A1

[51] **Int.Cl. B32B 5/10 (2006.01) B32B 27/04 (2006.01) B32B 27/08 (2006.01) B32B 33/00 (2006.01) B65G 15/34 (2006.01) F16G 1/10 (2006.01) F16G 1/28 (2006.01) F16G 5/08 (2006.01) F16G 5/20 (2006.01) H05F 3/00 (2006.01)**

[25] EN

[54] **ELECTRICALLY CONDUCTIVE POWER TRANSMISSION BELT**

[54] **COURROIE DE TRANSMISSION DE PUISSANCE ELECTRIQUEMENT CONDUCTRICE**

[72] THOMAS, CHRISTOPHER M., US
[72] DUKE, JOSEPH R., JR., US
[72] BIER, KARLA J., US
[72] WILSON, CATHY PEAKE, US
[73] GATES CORPORATION,
[73] THOMAS, CHRISTOPHER M.,
[73] DUKE, JOSEPH R., JR.,
[73] BIER, KARLA J.,
[73] WILSON, CATHY PEAKE,
[85] 2016-09-29
[86] 2015-03-25 (PCT/US2015/022389)
[87] (WO2015/157001)
[30] US (14/247,025) 2014-04-07

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[11] **2,955,883**
[13] A1

[51] **Int.Cl. G02B 26/10 (2006.01) G01S 7/481 (2006.01)**
[25] EN
[54] **ROTARY SCANNER, OPTO-MECHANICAL ASSEMBLY THEREFOR, AND METHOD OF MODIFYING AN ELEVATION ANGLE OF AN OPTICAL BEAM**
[54] **SCANNER ROTATIF, DISPOSITIF OPTO-MECANIQUE ASSOCIE ET METHODE DE MODIFICATION D'UN ANGLE D'ELEVATION D'UN FAISCEAU OPTIQUE**
[72] LEDUC, BRUNO, CA
[72] DESNOYERS, NICHOLA, CA
[73] INSTITUT NATIONAL D'OPTIQUE,
[73] LEDUC, BRUNO,
[73] DESNOYERS, NICHOLA,
[86] (2955883)
[87] (2955883)
[22] 2017-01-20
[30] US (62/281,645) 2016-01-21
[30] US (62/341,425) 2016-05-25

[11] **2,962,351**
[13] A1

[51] **Int.Cl. B60T 3/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR IMPROVING PERFORMANCE OF WHEEL CHOCK SAFETY PROCEDURES**
[54] **SYSTEME D'AMELIORATION DU RENDEMENT DES PROCEDURES DE SECURITE DE CALE DE ROUE**
[72] METZ, DONALD L., US
[72] EPPLEY, JOSHUA L., US
[73] DL MANUFACTURING,
[73] METZ, DONALD L.,
[73] EPPLEY, JOSHUA L.,
[86] (2962351)
[87] (2962351)
[22] 2017-03-28

[11] **2,962,804**
[13] A1

[51] **Int.Cl. F24F 11/30 (2018.01) F24F 11/88 (2018.01) H02H 3/093 (2006.01)**
[25] EN
[54] **THERMOSTAT HAVING OVER CURRENT MANAGEMENT**
[54] **THERMOSTAT PERMETTANT UNE GESTION DE LA SURINTENSITE**
[72] LI, PEI JIN, CN
[72] DING, ZHAN JUN, CN
[72] FENSKE, WILLIAM J., US
[72] SCHULER, MICHAEL S., US
[73] SIEMENS SCHWEIZ AG,
[73] LI, PEI JIN,
[73] DING, ZHAN JUN,
[73] FENSKE, WILLIAM J.,
[73] SCHULER, MICHAEL S.,
[85] 2017-03-28
[86] 2014-09-30 (PCT/CN2014/087892)
[87] (WO2016/049841)

[11] **2,980,983**
[13] A1

[51] **Int.Cl. C22C 38/12 (2006.01) C21D 8/02 (2006.01) C21D 8/10 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01)**
[25] EN
[54] **HIGH-STRENGTH STEEL, METHOD FOR MANUFACTURING HIGH-STRENGTH STEEL, STEEL PIPE, AND METHOD FOR MANUFACTURING STEEL PIPE**
[54] **ACIER A HAUTE RESISTANCE, METHODE DE FABRICATION D'ACIER A HAUTE RESISTANCE, TUYAU EN ACIER ET METHODE DE FABRICATION DE TUYAU EN ACIER**
[72] OTA, SHUSAKU, JP
[72] SHIMAMURA, JUNJI, JP
[72] ISHIKAWA, NOBUYUKI, JP
[72] ENDO, SHIGERU, JP
[73] JFE STEEL CORPORATION,
[73] OTA, SHUSAKU,
[73] SHIMAMURA, JUNJI,
[73] ISHIKAWA, NOBUYUKI,
[73] ENDO, SHIGERU,
[85] 2017-09-26
[86] 2015-03-27 (PCT/JP2015/001768)
[87] (WO2016/157235)

[11] **2,985,183**
[13] A1

[51] **Int.Cl. A61B 10/00 (2006.01)**
[25] EN
[54] **BIOMATERIAL COLLECTION SYSTEM**
[54] **SYSTEME DE COLLECTE DE BIOMATERIAUX**
[72] KRAMER, HEIDI, US
[72] WAGSCHAL, HERMAN, US
[72] WAGSCHAL, JOSEPH, US
[73] WK HOLDINGS, INC.,
[73] KRAMER, HEIDI,
[73] WAGSCHAL, HERMAN,
[73] WAGSCHAL, JOSEPH,
[85] 2017-11-06
[86] 2015-11-11 (PCT/US2015/060181)
[87] (WO2016/178711)
[30] US (14/704,034) 2015-05-05

[11] **2,987,402**
[13] A1

[51] **Int.Cl. H05B 47/11 (2020.01) H05B 45/10 (2020.01) H01H 13/83 (2006.01)**
[25] EN
[54] **CONTROL DEVICE HAVING BUTTONS WITH AUTOMATICALLY ADJUSTABLE BACKLIGHTING**
[54] **DISPOSITIF DE COMMANDE COMPRENANT DES BOUTONS A RETROECLAIRAGE AJUSTABLE AUTOMATIQUEMENT**
[72] TWADDELL, DANIEL L., US
[72] MCDONALD, MATTHEW PHILIP, US
[72] KILLO, JASON C., US
[72] QUAYLE, JONATHAN ROBERT, US
[73] TWADDELL, DANIEL L.,
[73] MCDONALD, MATTHEW PHILIP,
[73] KILLO, JASON C.,
[73] QUAYLE, JONATHAN ROBERT,
[73] LUTRON TECHNOLOGY COMPANY LLC,
[85] 2017-11-27
[86] 2016-05-26 (PCT/US2016/034447)
[87] (WO2016/191607)
[30] US (62/166,208) 2015-05-26

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[11] **2,993,207**
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[51] **Int.Cl. C10L 1/02 (2006.01) C10L 10/14 (2006.01)**
[25] EN
[54] **FUEL COMPOSITIONS WITH ENHANCED COLD PROPERTIES AND METHODS OF MAKING THE SAME**
[54] **COMPOSITIONS DE CARBURANT AYANT UNE APTITUDE AU FROID AMELIOREE ET METHODES DE FABRICATION ASSOCIEES**
[72] KURONEN, MARKKU, FI
[72] KIISKI, ULLA, FI
[73] NESTE OYJ,
[73] KURONEN, MARKKU,
[73] KIISKI, ULLA,
[86] (2993207)
[87] (2993207)
[22] 2018-01-26
[30] FI (20175074) 2017-01-27

[11] **2,993,649**
[13] A1

[51] **Int.Cl. F25J 3/04 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR ARGON REJECTION AND RECOVERY**
[54] **PROCEDE ET APPAREIL POUR LE REJET ET LA RECUPERATION D'ARGON**
[72] PROSSER, NEIL M., US
[72] LUO, YANG, US
[72] LARSON, KIRK F., US
[73] PRAXAIR TECHNOLOGY, INC.,
[73] PROSSER, NEIL M.,
[73] LUO, YANG,
[73] LARSON, KIRK F.,
[85] 2018-01-24
[86] 2016-07-26 (PCT/US2016/044004)
[87] (WO2017/023605)
[30] US (62/199,450) 2015-07-31
[30] US (15/057,150) 2016-03-01

[11] **2,995,171**
[13] A1

[51] **Int.Cl. B23D 45/12 (2006.01) B23C 3/12 (2006.01) B23D 21/04 (2006.01) B23Q 9/00 (2006.01) B24B 9/00 (2006.01) B24B 27/06 (2006.01)**
[25] EN
[54] **LARGE DIAMETER TRAVELLING PIPE CUTTER**
[54] **COUPE-TIGE MOBILE A GRAND DIAMETRE**
[72] PIERCE, KENNETH R., US
[72] GEARHART, MICHAEL W., US
[72] GIBERMAN, ALEXANDER S., US
[73] ILLINOIS TOOL WORKS INC.,
[73] PIERCE, KENNETH R.,
[73] GEARHART, MICHAEL W.,
[73] GIBERMAN, ALEXANDER S.,
[85] 2018-02-08
[86] 2016-08-09 (PCT/US2016/046175)
[87] (WO2017/027514)
[30] US (62/203,049) 2015-08-10

[11] **2,995,318**
[13] A1

[51] **Int.Cl. H01M 8/06 (2016.01) H01M 8/04 (2016.01) H01M 8/12 (2016.01)**
[25] EN
[54] **SOLID OXIDE FUEL CELL SYSTEM UTILIZING EXOTHERMIC METHANATION REACTION IN ADDITION TO ENDOTHERMIC REFORMING REACTION**
[54] **SYSTEME DE CELLULES A COMBUSTIBLE A OXYDE SOLIDE UTILISANT UNE REACTION DE METHANISATION EXOTHERMIQUE EN PLUS D'UNE REACTION DE REFORMAGE ENDOTHERMIQUE**
[72] HOSHINO, MAKI, JP
[72] YAGUCHI, TATSUYA, JP
[73] NISSAN MOTOR CO., LTD.,
[73] HOSHINO, MAKI,
[73] YAGUCHI, TATSUYA,
[85] 2018-02-09
[86] 2015-08-10 (PCT/JP2015/072660)
[87] (WO2017/026037)

[11] **3,004,407**
[13] A1

[51] **Int.Cl. B60G 13/00 (2006.01) B60G 13/14 (2006.01) B60K 25/10 (2006.01) F03B 13/00 (2006.01) F03G 7/00 (2006.01) F03G 7/08 (2006.01) F15B 1/027 (2006.01) F16F 15/023 (2006.01)**
[25] EN
[54] **VEHICLE COMPRISING ENERGY HARVESTING SUSPENSION SYSTEM, AND METHOD FOR CONVERTING MECHANICAL ENERGY INTO ELECTRICAL ENERGY**
[54] **VEHICULE COMPRENANT UN SYSTEME DE SUSPENSION A COLLECTE D'ENERGIE, ET PROCEDE DE CONVERSION D'ENERGIE MECANIQUE EN ENERGIE ELECTRIQUE**
[72] KASKOWICZ, MATTHEW ALAN, US
[73] KASKOWICZ, MATTHEW ALAN,
[85] 2018-05-04
[86] 2016-11-07 (PCT/US2016/000106)
[87] (WO2017/078760)
[30] US (62/252,046) 2015-11-06

[11] **3,009,453**
[13] A1

[51] **Int.Cl. B32B 17/10 (2006.01) C03C 27/12 (2006.01)**
[25] EN
[54] **COMPOSITE PANE HAVING ELECTRICALLY CONDUCTIVE COATING FOR A HEAD-UP DISPLAY**
[54] **VITRE COMPOSITE DOTE E D'UN REVETEMENT ELECTROCONDUCTEUR POUR UN DISPOSITIF D'AFFICHAGE TETE HAUTE**
[72] SCHULZ, VALENTIN, DE
[72] SCHALL, GUNTHER, DE
[73] SAINT-GOBAIN GLASS FRANCE,
[73] SCHULZ, VALENTIN,
[73] SCHALL, GUNTHER,
[85] 2018-06-21
[86] 2017-03-01 (PCT/EP2017/054735)
[87] (WO2017/157660)
[30] EP (16160839.3) 2016-03-17

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[11] **3,017,885**
[13] A1

[51] **Int.Cl. B29C 45/14 (2006.01)**
[25] EN
[54] **MANUFACTURING METHOD AND MANUFACTURING APPARATUS FOR PRESSURE TANK**
[54] **METHODE DE FABRICATION ET APPAREIL DE FABRICATION D'UN RESERVOIR A PRESSION**
[72] HATTA, KEN, JP
[73] TOYOTA JIDOSHA KABUSHIKI KAISHA,
[73] HATTA, KEN,
[86] (3017885)
[87] (3017885)
[22] 2018-09-19
[30] JP (2017-180768) 2017-09-21

[11] **3,018,676**
[13] A1

[51] **Int.Cl. G06F 9/46 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DEPENDENCY-BASED STREAMLINED PROCESSING**
[54] **SYSTEMES ET METHODE DE TRAITEMENT SIMPLIFIE FONDE SUR LA DEPENDANCE**
[72] XU, KEN, CA
[72] PETRICK, TAYLOR JAMES, CA
[73] SIDE EFFECTS SOFTWARE INC.,
[73] XU, KEN,
[73] PETRICK, TAYLOR JAMES,
[86] (3018676)
[87] (3018676)
[22] 2018-09-26

[11] **3,021,377**
[13] A1

[51] **Int.Cl. A42B 3/04 (2006.01)**
[25] EN
[54] **BUFFER STRUCTURE OF HELMET**
[54] **STRUCTURE D'AMORTISSEUR DE CASQUE**
[72] KU, CHENG-HUEI, CN
[73] KU, CHENG-HUEI,
[86] (3021377)
[87] (3021377)
[22] 2018-10-18

[11] **3,021,428**
[13] A1

[51] **Int.Cl. D21H 11/18 (2006.01) D21H 17/25 (2006.01) D21H 17/69 (2006.01) D21H 19/10 (2006.01) D21H 19/38 (2006.01)**
[25] EN
[54] **RE-DISPERSED MICROFIBRILLATED CELLULOSE**
[54] **CELLULOSE MICROFIBRILLEE REDISPERSEE**
[72] WINDEBANK, MARK, GB
[72] SKUSE, DAVID, GB
[72] ADAMS, MADELEINE, GB
[72] TELLIER, GUILLAUME, BE
[73] FIBERLEAN TECHNOLOGIES LIMITED,
[73] WINDEBANK, MARK,
[73] SKUSE, DAVID,
[73] ADAMS, MADELEINE,
[73] TELLIER, GUILLAUME,
[85] 2018-10-17
[86] 2017-04-21 (PCT/IB2017/000609)
[87] (WO2017/182883)
[30] GB (1607076.5) 2016-04-22

[11] **3,024,758**
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01)**
[25] EN
[54] **REAL-TIME, FULL WEB IMAGE PROCESSING METHOD AND SYSTEM FOR WEB MANUFACTURING SUPERVISION**
[54] **PROCEDE ET SYSTEME DE TRAITEMENT D'IMAGES EN TEMPS REEL DE BANDE ENTIERE POUR SUPERVISION DE LA FABRICATION DE BANDES**
[72] HOUTILAINEN, TOMMI, FI
[72] RIIKONEN, SEPPO, FI
[72] LASTER, MYRON, US
[73] ABB SCHWEIZ AG,
[73] HOUTILAINEN, TOMMI,
[73] RIIKONEN, SEPPO,
[73] LASTER, MYRON,
[85] 2018-11-19
[86] 2017-05-17 (PCT/EP2017/025138)
[87] (WO2017/198348)
[30] US (62/337,625) 2016-05-17
[30] EP (16180281.4) 2016-07-20

[11] **3,026,849**
[13] A1

[51] **Int.Cl. G01C 21/36 (2006.01) G01C 21/34 (2006.01)**
[25] EN
[54] **USER-SPECIFIC LANDMARKS FOR NAVIGATION SYSTEMS**
[54] **POINTS DE REPERE SPECIFIQUES A L'UTILISATEUR POUR SYSTEMES DE NAVIGATION**
[72] MOORE, CHRISTOPHER, US
[72] DUMONT, VINCENT, US
[72] COURTEMANCHE, MATHIEU, US
[72] WACHSMAN, CADY, US
[72] O'HARE, JOHN CHRISTOPHER, US
[73] UBER TECHNOLOGIES, INC.,
[73] MOORE, CHRISTOPHER,
[73] DUMONT, VINCENT,
[73] COURTEMANCHE, MATHIEU,
[73] WACHSMAN, CADY,
[73] O'HARE, JOHN CHRISTOPHER,
[85] 2018-12-06
[86] 2017-05-10 (PCT/IB2017/052740)
[87] (WO2017/212355)
[30] US (15/174,630) 2016-06-06

[11] **3,042,009**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61K 9/19 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITIONS AND USES THEREOF**
[54] **COMPOSITIONS PHARMACEUTIQUES ET UTILISATIONS CORRESPONDANTES**
[72] MISSLING, JEFFREY, US
[72] ROLFES MEYERING, EMILY R., US
[72] MEYER, HENRY, US
[72] ONDICH, CELESTE, US
[73] SPINETHERA,
[73] MISSLING, JEFFREY,
[73] ROLFES MEYERING, EMILY R.,
[73] MEYER, HENRY,
[73] ONDICH, CELESTE,
[85] 2019-04-26
[86] 2016-10-28 (PCT/US2016/059544)
[87] (WO2018/080521)

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[13] A1

[51] **Int.Cl. F16M 11/10 (2006.01) G06Q
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(2006.01) F16M 13/00 (2006.01) G07G
1/00 (2006.01)**

[25] EN

[54] **MOUNTING LINK FOR
SUPPORTING A PIECE OF
HARDWARE**

[54] **LIAISON DE MONTAGE
DESTINEE A SOUTENIR UNE
PIECE DE MATERIEL**

[72] BURMESTER, BENNY, DK

[73] ERGONOMIC SOLUTIONS
INTERNATIONAL LIMITED,

[73] BURMESTER, BENNY,

[85] 2019-06-14

[86] 2017-12-20 (PCT/EP2017/083859)

[87] (WO2018/115144)

[30] DK (PA 2016 00781) 2016-12-21

[11] **3,051,619**

[13] A1

[51] **Int.Cl. B30B 15/04 (2006.01)**

[25] EN

[54] **MODULAR PRESS**

[54] **PRESSE MODULAIRE**

[72] POPE, SAMUEL TAYLOR, US

[72] MEEKER, LAURA HART, US

[72] BULLION, CONRAD, US

[72] O'CONNELL, KEVIN K., US

[73] USNR/KOCKUMS CANCAR
COMPANY,

[73] POPE, SAMUEL TAYLOR,

[73] MEEKER, LAURA HART,

[73] BULLION, CONRAD,

[73] O'CONNELL, KEVIN K.,

[86] (3051619)

[87] (3051619)

[22] 2016-05-13

[62] 2,930,102

[30] US (62/162,642) 2015-05-15

[30] US (62/204,664) 2015-08-13

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[21] **3,021,563**
[13] A1
[51] **Int.Cl. C02F 1/00 (2006.01)**
[25] FR
[54] **PROCESS FOR PRODUCING FLUIDS AND FRACTAL-STRUCTURED WATER, USING AN APPARATUS**
[54] **PROCEDE DE PRODUCTION DE FLUIDES ET D'UNE EAU FRACTALE-STRUCTUREE, PAR UN APPAREIL**
[72] GUAY, YVAN-RENE, CA
[71] GUAY, YVAN-RENE, CA
[22] 2018-11-08
[41] 2020-05-08

[21] **3,023,060**
[13] A1
[51] **Int.Cl. E04H 15/00 (2006.01) E04H 6/02 (2006.01) E04H 15/34 (2006.01)**
[25] EN
[54] **REMOVABLE SHELTER APPARATUS**
[54] **ABRI DEMONTABLE**
[72] BUCKNOR, BARRINGTON, CA
[71] BUCKNOR, BARRINGTON, CA
[22] 2018-11-05
[41] 2020-05-05
[30] US (16179988) 2018-11-05

[21] **3,023,067**
[13] A1
[51] **Int.Cl. G06Q 20/14 (2012.01)**
[25] EN
[54] **SYSTEM FOR ELECTRONIC BILLS INQUIRIES AND PAYMENTS PROCESSING**
[54] **SYSTEME POUR DEMANDES DE RENSEIGNEMENTS LIES AUX FACTURES ELECTRONIQUES ET TRAITEMENT DE PAIEMENTS**
[72] ALOSTAZ, MOHD, CA
[71] ALOSTAZ, MOHD, CA
[22] 2018-11-05
[41] 2020-05-05

[21] **3,023,108**
[13] A1
[51] **Int.Cl. B23K 9/32 (2006.01) B23K 9/28 (2006.01)**
[25] EN
[54] **WELDING TORCH ASSEMBLY DEVICE**
[54] **DISPOSITIF DESTINE A L'ASSEMBLAGE DE CHALUMEAU SOUDEUR**
[72] BASIT, NAUMAN, CA
[71] NASARC TECHNOLOGIES INC., CA
[22] 2018-11-05
[41] 2020-05-05

[21] **3,023,115**
[13] A1
[51] **Int.Cl. G21B 3/00 (2006.01)**
[25] EN
[54] **NUCLEAR FUSION**
[54] **FUSION NUCLEAIRE**
[72] MOHAMMADIAN ABKENAR, SEYED MOJTABA, CA
[71] MOHAMMADIAN ABKENAR, SEYED MOJTABA, CA
[22] 2018-11-05
[41] 2020-05-05

[21] **3,023,116**
[13] A1
[51] **Int.Cl. B23K 9/12 (2006.01) B23K 9/133 (2006.01) B23K 9/28 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SERVICING WELDING TORCHES**
[54] **SYSTEME ET METHODE D'ENTRETIEN COURANT DE CHALUMEAUX SOUDEURS**
[72] KTEILY, NASEEM, CA
[72] TREMBLAY, MICHEL, CA
[72] SPRINGETT, DAVE, CA
[71] NASARC TECHNOLOGIES INC., CA
[22] 2018-11-05
[41] 2020-05-05

[21] **3,023,125**
[13] A1
[51] **Int.Cl. B32B 27/04 (2006.01) B29C 65/40 (2006.01) B32B 1/02 (2006.01) B32B 3/06 (2006.01)**
[25] EN
[54] **MOLDED COMPOSITE**
[54] **COMPOSITE MOULE**
[72] MACKELVIE, WINSTON, CA
[71] MACKELVIE, WINSTON, CA
[22] 2018-11-05
[41] 2020-05-05

[21] **3,023,160**
[13] A1
[51] **Int.Cl. A61K 31/465 (2006.01) A23L 33/105 (2016.01) A61K 9/00 (2006.01) A61P 25/34 (2006.01)**
[25] EN
[54] **COMPOSITION FOR A TOBACCO-FREE CHEW AND METHOD OF MANUFACTURING SAME**
[54] **COMPOSITION POUR ARTICLES A MACHER SANS TABAC ET LEUR PROCEDE DE FABRICATION**
[72] DUIGNAN, ALAN J., US
[72] DAWSON, KENNETH A., JR., US
[72] CRAWFORD, MICHAEL R., US
[72] LINTON, SEAN P., US
[71] BLESST BOYZ LLC, US
[22] 2018-11-06
[41] 2020-05-05
[30] US (16/180,417) 2018-11-05

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[21] **3,023,299**
[13] A1

[51] **Int.Cl. E04B 2/88 (2006.01) E04C 2/30 (2006.01) E04F 13/075 (2006.01) E04F 13/14 (2006.01) B32B 17/02 (2006.01) B32B 17/10 (2006.01)**

[25] EN

[54] **EPS EXTERIOR CLADDING PANELS AND METHOD**

[54] **PANNEAUX DE REVETEMENT EXTERIEUR DE POLYSTYRENE EXPANSE ET METHODE**

[72] MIHART, NICOLAE, CA
[71] MIHART, NICOLAE, CA
[22] 2018-11-06
[41] 2020-05-06

[21] **3,023,307**
[13] A1

[51] **Int.Cl. G06Q 50/12 (2012.01) G06Q 10/08 (2012.01)**

[25] EN

[54] **UNIVERSAL METHOD FOR SECURE FOOD DELIVERY**

[54] **METHODE UNIVERSELLE DE DISTRIBUTION SECURISEE D'ALIMENTS**

[72] KUETTNER, MARCUS, CA
[71] KUETTNER, MARCUS, CA
[22] 2018-11-06
[41] 2020-05-06

[21] **3,023,327**
[13] A1

[51] **Int.Cl. B65F 1/14 (2006.01) B65D 43/26 (2006.01) B65F 1/16 (2006.01) E05B 15/00 (2006.01)**

[25] EN

[54] **AUTOMATIC LOCKING TRASHCAN SYSTEM AND METHOD**

[54] **SYSTEME DE POUHELLE A VERROUILLAGE AUTOMATIQUE ET METHODE**

[72] MOFFATT, MATTHEW, CA
[71] MOFFATT, MATTHEW, CA
[22] 2018-11-07
[41] 2020-05-07

[21] **3,023,341**
[13] A1

[51] **Int.Cl. C05F 3/00 (2006.01) C05C 3/00 (2006.01) C05F 3/06 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR COMPOUNDING FERTILIZER FROM MANURE WITHOUT NUTRIENT EMISSION**

[54] **METHODE ET SYSTEME POUR MELANGER UN ENGRAIS A PARTIR DE FUMIER SANS EMISSION DE NUTRIMENTS**

[72] DEWAARD, DAVID, US
[72] MCCORT, JOSH, US
[72] KLAPPER, MICHAEL, US
[71] DARITECH, INC., US
[22] 2018-11-07
[41] 2020-05-07

[21] **3,023,342**
[13] A1

[51] **Int.Cl. A24F 1/30 (2006.01)**

[25] EN

[54] **TRANSFORMATIONAL MULTI-PURPOSE SMOKING APPARATUS**

[54] **ACCESSOIRE POLYVALENT TRANSFORMATIONNEL SERVANT A FUMER**

[72] BROMBERG-BARWIN, AARON, CA
[72] STEINBERG, DYLAN, CA
[72] GOJKOVIC, DRAGAN, CA
[71] BROMBERG-BARWIN, AARON, CA
[71] STEINBERG, DYLAN, CA
[71] GOJKOVIC, DRAGAN, CA
[22] 2018-11-07
[41] 2020-05-05
[30] US (16181044) 2018-11-05

[21] **3,023,350**
[13] A1

[51] **Int.Cl. A01G 31/00 (2018.01)**

[25] EN

[54] **HYDROPONIC PLANTER AND SYSTEM OF USE**

[54] **JARDINIERE HYDROPONIQUE ET SYSTEME D'UTILISATION**

[72] BRITAIN, JAMIE, CA
[71] BRITAIN, JAMIE, CA
[22] 2018-11-07
[41] 2020-05-07

[21] **3,023,370**
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 30/00 (2012.01)**

[25] EN

[54] **WHOLESALE SUPPLIER MARKETPLACE WITH THE ABILITIES TO HOST AUTONOMOUS SUPPLIER ONLINE ORDERING CENTERS**

[54] **MARCHE FOURNISSEUR DE GROS AVEC LES CAPACITES D'ACCUEILLIR DES CENTRES DE COMMANDE EN LIGNE AUTONOMES**

[72] UNKNOWN, XX
[71] 2370642 ONTARIO INC., CA
[22] 2018-11-07
[41] 2020-05-07

[21] **3,023,375**
[13] A1

[51] **Int.Cl. B65D 71/54 (2006.01) B65D 71/64 (2006.01)**

[25] EN

[54] **IMPROVED CARRIER FOR SECURE CUP DELIVERY**

[54] **SUPPORT AMELIORE POUR LIVRAISON DE GOBELETS SECURISES**

[72] KUETTNER, MARCUS, CA
[71] KUETTNER, MARCUS, CA
[22] 2018-11-07
[41] 2020-05-07

[21] **3,023,377**
[13] A1

[51] **Int.Cl. G06N 5/04 (2006.01)**

[25] EN

[54] **INFERRED CONTEXT STREAMLINED AND HARMONIZED ARRANGED INFORMATION AND INTERACTIONS**

[54] **RENSEIGNEMENTS ET INTERACTIONS ORGANISES EN CONTEXTE INFERES SIMPLIFIES ET HARMONISES**

[72] AHMAD, BILAL, CA
[71] AHMAD, BILAL, CA
[22] 2018-11-07
[41] 2020-05-07

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[21] **3,023,447**
[13] A1

[51] **Int.Cl. A41C 3/00 (2006.01)**
[25] EN
[54] **GARMENTS**
[54] **VETEMENTS**
[72] UNKNOWN, XX
[71] MEER GROUP, LLC, US
[22] 2018-11-08
[41] 2020-05-08

[21] **3,023,545**
[13] A1

[51] **Int.Cl. G09F 17/00 (2006.01) H01H 1/36 (2006.01) H02J 4/00 (2006.01) H05K 1/11 (2006.01)**
[25] EN
[54] **METHOD OF PROVIDING POWER INPUT TO A ROLL-UP DISPLAY BANNER AND A ROLL-UP DISPLAY BANNER WITH POWER INPUT IN ACCORDANCE WITH THE METHOD**
[54] **PROCEDE POUR FOURNIR UNE PUISSANCE D'ENTREE A UNE AFFICHE PUBLICITAIRE ENROULABLE ET UNE AFFICHE PUBLICITAIRE ENROULABLE AVEC PUISSANCE D'ENTREE CONFORMEMENT AU PROCEDE**
[72] CAREL, ALAIN, CA
[72] ANDERSON, KIMBALL, CA
[71] CAREL, ALAIN, CA
[22] 2018-11-08
[41] 2020-05-08

[21] **3,023,564**
[13] A1

[51] **Int.Cl. G06T 15/04 (2011.01) G06T 17/05 (2011.01) G06T 17/20 (2006.01)**
[25] EN
[54] **COMPUTER GRAPHICS METHOD FOR TERRAIN RENDERING**
[54] **PROCEDE INFOGRAPHIQUE POUR RENDU DE TERRAIN**
[72] SIKACHEV, PETER, CA
[71] EIDOS INTERACTIVE CORP., CA
[22] 2018-11-07
[41] 2020-05-07

[21] **3,023,573**
[13] A1

[51] **Int.Cl. A61J 17/02 (2006.01) A41D 11/00 (2006.01) A41D 19/01 (2006.01) A61H 13/00 (2006.01)**
[25] EN
[54] **TEETHING MITT**
[54] **GANT DE DENTITION**
[72] HYSLOP, MELISSA, CA
[71] HYSLOP, MELISSA, CA
[22] 2018-11-08
[41] 2020-05-08

[21] **3,023,574**
[13] A1

[51] **Int.Cl. A63B 71/08 (2006.01) A41D 13/015 (2006.01) A41D 13/05 (2006.01) F41H 1/02 (2006.01)**
[25] EN
[54] **PROTECTIVE SUIT**
[54] **ENSEMBLE DE PROTECTION**
[72] BEAUDRY, HUGO, CA
[72] BEAUDRY, ALAIN, CA
[72] LEMIEUX, ERIC, CA
[71] PRODUCTION PASSAU INC., CA
[22] 2018-11-07
[41] 2020-05-07

[21] **3,023,575**
[13] A1

[51] **Int.Cl. G06Q 30/06 (2012.01) H04W 4/80 (2018.01) G08G 1/017 (2006.01)**
[25] EN
[54] **MEDIATED DRIVE-THRU TRANSACTING**
[54] **TRANSACION ASSISTEE POUR SERVICE AU VOLANT**
[72] AHMAD, BILAL, CA
[72] UNKNOWN, XX
[71] AHMAD, BILAL, CA
[22] 2018-11-08
[41] 2020-05-08

[21] **3,023,584**
[13] A1

[51] **Int.Cl. H04S 3/00 (2006.01) H04S 7/00 (2006.01)**
[25] FR
[54] **APPARATUS, SYSTEM AND METHOD FOR MULTIPLE MONOPHONY**
[54] **APPAREIL, SYSTEME ET METHODE DE MONOPHONIE MULTIPLE**
[72] DE TILLIEUX, CHRISTIAN, CA
[71] DE TILLIEUX, CHRISTIAN, CA
[22] 2018-11-08
[41] 2020-05-08

[21] **3,023,650**
[13] A1

[51] **Int.Cl. E05F 3/18 (2006.01)**
[25] EN
[54] **SHAFT CLAMP**
[54] **BAGUE DE SERRAGE**
[72] ARSENAULT, EMILIE, CA
[72] BARRIAULT, PATRICK, CA
[72] BOISVERT, DANIEL, CA
[72] QUINTERO ESCORCIA, DANIEL, CA
[71] CANIMEX INC., CA
[22] 2018-11-09
[41] 2020-05-09

[21] **3,023,705**
[13] A1

[51] **Int.Cl. C09K 3/00 (2006.01) C02F 1/66 (2006.01) C09K 8/03 (2006.01) C09K 8/68 (2006.01) C09K 8/80 (2006.01) C10G 19/02 (2006.01)**
[25] EN
[54] **NOVEL SYNTHETIC CAUSTIC COMPOSITION**
[54] **NOUVELLE COMPOSITION CAUSTIQUE SYNTHETIQUE**
[72] PURDY, CLAY, CA
[72] WEISSENBERGER, MARKUS, CA
[71] FLUID ENERGY GROUP LTD., CA
[22] 2018-11-09
[41] 2020-05-09

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[21] **3,023,723**
[13] A1

[51] **Int.Cl. B65D 25/48 (2006.01) B65D 25/40 (2006.01)**
[25] EN
[54] **REVERSIBLE CONNECTOR FOR A LIQUID CONTAINER AND SPOUT**
[54] **RACCORD REVERSIBLE POUR CONTENANT A LIQUIDE ET BEC**
[72] WHITLOCK, DARREN R., CA
[71] 2103115 ALBERTA LTD., CA
[22] 2018-11-09
[41] 2020-05-09

[21] **3,023,736**
[13] A1

[51] **Int.Cl. B65D 43/24 (2006.01) B25H 3/02 (2006.01) B65D 43/16 (2006.01) B65D 85/24 (2006.01)**
[25] EN
[54] **FASTENER CONTAINER**
[54] **CONTENEUR POUR ATTACHES**
[72] CHEN, YI-HSIN, TW
[71] CHEN, YI-HSIN, TW
[22] 2018-11-08
[41] 2020-05-08

[21] **3,023,742**
[13] A1

[51] **Int.Cl. G08G 1/14 (2006.01)**
[25] EN
[54] **PARKING LOT MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE POUR PARC DE STATIONNEMENT**
[72] UNKNOWN, XX
[71] SEBASTIAN, MANOJ, CA
[22] 2018-11-09
[41] 2020-05-09

[21] **3,023,754**
[13] A1

[51] **Int.Cl. F22B 1/28 (2006.01)**
[25] EN
[54] **THERMODX STEAMERX**
[54] **THERMODX STEAMERX**
[72] UNKNOWN, XX
[71] THERMODX INC., CA
[22] 2018-11-09
[41] 2020-05-09

[21] **3,026,922**
[13] A1

[51] **Int.Cl. B23B 31/107 (2006.01) B23B 31/00 (2006.01) B23B 31/06 (2006.01)**
[25] EN
[54] **IMPROVED CUTTING TOOL ASSEMBLY**
[54] **OUTIL DE COUPE AMELIORE**
[72] STOJANOVSKI, STOJAN, US
[71] STOJANOVSKI, STOJAN, US
[22] 2018-12-10
[41] 2020-05-05
[30] US (16/180,269) 2018-11-05

[21] **3,027,671**
[13] A1

[51] **Int.Cl. A46B 5/00 (2006.01) A46B 5/02 (2006.01) A46D 3/00 (2006.01) B25H 1/00 (2006.01) B25H 1/10 (2006.01)**
[25] EN
[54] **BRUSH HANDLE ASSEMBLY AND METHOD FOR MAKING**
[54] **GROUPE MONTURE DE BROSSES ET PROCEDE DE FABRICATION**
[72] LAMBERTSON, MICHAEL C., JR., US
[71] THE SHERWIN-WILLIAMS COMPANY, US
[22] 2018-12-14
[41] 2020-05-05
[30] US (16/180,627) 2018-11-05

[21] **3,027,897**
[13] A1

[51] **Int.Cl. B65D 85/36 (2006.01) B65D 5/20 (2006.01)**
[25] EN
[54] **PRESENTATION CONTAINER APPARATUS**
[54] **CONTENANT DE PRESENTATION**
[72] FILLION, JULIE MARIE FRANCE, CA
[72] SMITH, SHELDON DAVID, CA
[71] FILLION, JULIE MARIE FRANCE, CA
[71] SMITH, SHELDON DAVID, CA
[22] 2018-12-18
[41] 2020-05-09
[30] US (62/758,357) 2018-11-09

[21] **3,028,404**
[13] A1

[51] **Int.Cl. B24C 9/00 (2006.01) B08B 5/04 (2006.01) B24C 1/04 (2006.01) B24C 3/02 (2006.01)**
[25] EN
[54] **SURFACE CLEANING AND ENGRAVING MACHINE USING VACUUM JET METHOD**
[54] **MACHINE A NETTOYER LES SURFACES ET A ENGRAVER UTILISANT UN PROCEDE D'EJECTEUR PAR LE VIDE**
[72] DYBALLA, UWE, DE
[71] SYSTECO GMBH, DE
[22] 2018-12-21
[41] 2020-05-04
[30] DE (10 2018 127 450.5) 2018-11-04

[21] **3,030,000**
[13] A1

[51] **Int.Cl. G16H 20/70 (2018.01) G16Z 99/00 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DIGITAL HIPPOCAMPAL SIMULATION**
[54] **SYSTEME ET METHODE DE SIMULATION NUMERIQUE DE L'HIPPOCAMPE**
[72] HONEY, CHRISTOPHER JOHN, CA
[72] BARENSE, MORGAN DOROUGH, CA
[72] XIA, ANDREW, CA
[72] MARTIN, CHRISTOPHER BASIL, CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[22] 2019-01-14
[41] 2020-05-09
[30] GB (1818322.8) 2018-11-09

[21] **3,036,785**
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01) H01M 10/44 (2006.01) H01M 10/48 (2006.01)**
[25] EN
[54] **DUAL CONTROL LOOP FOR CHARGING OF BATTERIES**
[54] **BOUCLE DE REGULATION DOUBLE POUR LA CHARGE DE BATTERIES**
[72] DELEVSKI, DIMITAR, US
[71] C.E. NIEHOFF & CO., US
[22] 2019-03-14
[41] 2020-05-05
[30] US (16/180,694) 2018-11-05

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[21] **3,040,763**
[13] A1

[51] **Int.Cl. A44C 17/02 (2006.01) A44C 17/04 (2006.01)**
[25] EN
[54] **PRECIOUS STONE SETTING**
[54] **POSE DE PIERRES PRECIEUSES**
[72] DHOLAKIYA, HASMUKH H., US
[71] H.K. DESIGNS INC., US
[22] 2019-04-18
[41] 2020-05-05
[30] US (16/180,157) 2018-11-05

[21] **3,041,373**
[13] A1

[51] **Int.Cl. E21C 35/19 (2006.01) B28D 1/18 (2006.01) E02F 3/24 (2006.01) E02F 9/00 (2006.01) E21C 27/24 (2006.01)**
[25] EN
[54] **BIT HOLDER WITH SHORTENED NOSE PORTION**
[54] **PORTE-MECHE AVEC BEC RACCOURCI**
[72] SOLLAMI, PHILLIP, US
[71] THE SOLLAMI COMPANY, US
[22] 2019-04-26
[41] 2020-05-06
[30] US (16/181,591) 2018-11-06

[21] **3,041,711**
[13] A1

[51] **Int.Cl. H04L 12/16 (2006.01) G06Q 40/02 (2012.01)**
[25] EN
[54] **CONFIGURATION OF DATA TRANSFER RECIPIENT**
[54] **CONFIGURATION DU DESTINATAIRE DU TRANSFERT DE DONNEES**
[72] SARIR, NASIM, CA
[72] JONES, CHRISTOPHER MARK, CA
[72] GERVAIS, STEVEN, CA
[72] PRENDERGAST, JONATHAN JOSEPH, CA
[72] THOMAS, JOHN WILLIAM, CA
[72] DELAVEAGA, MICHAEL THOMAS, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2019-04-30
[41] 2020-05-05
[30] US (16/368,944) 2019-03-29
[30] US (62/755,792) 2018-11-05

[21] **3,049,969**
[13] A1

[51] **Int.Cl. H04Q 3/52 (2006.01) B64C 13/04 (2006.01) G05G 9/047 (2006.01) H01H 47/00 (2006.01)**
[25] EN
[54] **MULTIPLEXING OF SWITCH DATA MIXING NC (NORMALLY CLOSED) AND NO (NORMALLY OPEN) CONTACTS**
[54] **MULTIPLEXAGE DE DONNEES DE COMMUTATION MELANGEANT DES CONTACTS NORMALEMENT FERMES ET NORMALEMENT OUVERTS**
[72] BERNOT, SYLVAIN, FR
[72] SERIEYS, JULIEN, FR
[71] RATIER-FIGEAC SAS, FR
[22] 2019-07-16
[41] 2020-05-09
[30] EP (18306476.5) 2018-11-09

[21] **3,051,332**
[13] A1

[51] **Int.Cl. B64D 15/20 (2006.01) B64D 15/14 (2006.01) G01N 25/00 (2006.01) E01H 5/10 (2006.01) F01D 5/08 (2006.01)**
[25] EN
[54] **DE-ICING SYSTEM AND METHOD**
[54] **DISPOSITIF DE DEGIVRAGE ET METHODE**
[72] CHAUVET, LOUIS, FR
[72] PICARD, PIERRE ALEX, FR
[72] BOULOC, ROMAIN, FR
[72] MARGER, THIBAUT, FR
[71] RATIER-FIGEAC SAS, FR
[22] 2019-08-06
[41] 2020-05-07
[30] EP (18306459.1) 2018-11-07

[21] **3,051,438**
[13] A1

[51] **Int.Cl. H02J 3/18 (2006.01) H02K 47/00 (2006.01)**
[25] EN
[54] **REACTIVE POWER CONTROL EQUIPMENT AND REACTIVE POWER CONTROL METHOD**
[54] **DISPOSITIF DE COMMANDE DE PUISSANCE REACTIVE ET METHODE DE COMMANDE DE PUISSANCE REACTIVE**
[72] AIDA, YUUKI, JP
[72] TAHARA, YASUTO, JP
[72] SUDO, KENICHI, JP
[71] MITSUBISHI HITACHI POWER SYSTEMS, LTD., JP
[22] 2019-08-08
[41] 2020-05-07
[30] JP (2018-209646) 2018-11-07

[21] **3,053,553**
[13] A1

[51] **Int.Cl. F16C 11/06 (2006.01) B64C 25/10 (2006.01) F16C 7/00 (2006.01)**
[25] EN
[54] **MONOLITHIC OUTBOARD GEAR BEAM SUPPORT FITTING**
[54] **FERRURE SUPPORT DE POUTRE DE QUEUE EXTERIEURE MONOLITHIQUE**
[72] KAMILA, ERIC SEAN, US
[72] PALMER, BENJAMIN JOSEPH, US
[72] HEER, STEVEN SCOTT, US
[71] THE BOEING COMPANY, US
[22] 2019-08-29
[41] 2020-05-07
[30] US (16/183489) 2018-11-07

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[21] **3,053,716**
[13] A1

[51] **Int.Cl. G06Q 10/10 (2012.01) G06F 3/0481 (2013.01) G06Q 40/02 (2012.01)**
[25] EN
[54] **USER INTERFACES FOR SCHEDULING TRANSFERS**
[54] **INTERFACES UTILISATEUR POUR LA PROGRAMMATION DE TRANSFERTS**
[72] SARIR, NASIM, CA
[72] HORVATH, PETER, CA
[72] ALVES, ALINE DA ROSA, CA
[72] LE, THANH CHAU, CA
[72] JONES, CHRISTOPHER MARK, CA
[72] KHAN, MOHAMMAD FAHAD, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2019-08-30
[41] 2020-05-05
[30] US (16/543,774) 2019-08-19
[30] US (62/755,792) 2018-11-05

[21] **3,054,006**
[13] A1

[51] **Int.Cl. F23R 3/02 (2006.01) F02C 3/14 (2006.01)**
[25] EN
[54] **COWL INTEGRATION TO COMBUSTOR WALL**
[54] **INTEGRATION DU CAPOT A UNE PAROI DE CHAMBRE DE COMBUSTION**
[72] SAUER, KEVIN, US
[72] DAILEY, LEWIS, US
[72] MCCORMICK, KEITH, US
[71] ROLLS-ROYCE CORPORATION, US
[22] 2019-09-04
[41] 2020-05-05
[30] US (16/180388) 2018-11-05

[21] **3,054,189**
[13] A1

[51] **Int.Cl. G01N 3/02 (2006.01)**
[25] EN
[54] **TWIN-DISC TRIBOMETER**
[54] **TRIBOMETRE BIDISQUE**
[72] POTIER, M. KARL, FR
[72] DE LA CHEVASNERIE, M. ARNAUD, FR
[71] GOODRICH ACTUATION SYSTEMS SAS, FR
[22] 2019-09-03
[41] 2020-05-08
[30] EP (18306464.1) 2018-11-08

[21] **3,054,694**
[13] A1

[51] **Int.Cl. G11B 3/70 (2006.01)**
[25] EN
[54] **IMPROVED RECORD MAKING SYSTEM**
[54] **SYSTEME AMELIORE DE FABRICATION DE DISQUES**
[72] BROWN, CHAD W. T., CA
[72] MULKERN, GREG, CA
[72] GHENT, JOSHUA, CA
[72] WYBENGA, MICHAEL, CA
[72] BROWN, ROBERT H., CA
[72] HASHMI, JAMES, CA
[71] VIRYL TECHNOLOGIES CORP., CA
[22] 2019-09-09
[41] 2020-05-09
[30] US (62/757,536) 2018-11-09

[21] **3,054,884**
[13] A1

[51] **Int.Cl. B64D 41/00 (2006.01) B64D 27/00 (2006.01) B64D 27/24 (2006.01)**
[25] EN
[54] **ENERGY STORAGE SYSTEM FOR A HYBRID POWER SYSTEM**
[54] **SYSTEME DE STOCKAGE D'ENERGIE POUR SYSTEME D'ENERGIE HYBRIDE**
[72] LONG, STEPHEN ANDREW, US
[72] BOLLMAN, ANDREW, US
[72] ZAGRODNIK, MICHAEL ADAM, SG
[72] GAJANAYAKE, CHANDANA JAYAMPATHI, SG
[71] ROLLS-ROYCE NORTH AMERICAN TECHNOLOGIES INC., US
[71] ROLLS-ROYCE SINGAPORE PTE. LTD., SG
[22] 2019-09-10
[41] 2020-05-05
[30] US (16/180570) 2018-11-05

[21] **3,054,889**
[13] A1

[51] **Int.Cl. F23R 3/04 (2006.01)**
[25] EN
[54] **COMBUSTOR DOME BIA ADDITIVE LAYER MANUFACTURING**
[54] **DOME DE CHAMBRE DE COMBUSTION PAR FABRICATION ADDITIVE**
[72] SAUER, KEVIN, US
[72] DAILEY, LEWIS, US
[72] MCCORMICK, KEITH, US
[72] SMITH, DUANE, US
[72] DEBRUHL, CHRISTOPHER D., US
[71] ROLLS-ROYCE CORPORATION, US
[71] ROLLS-ROYCE NORTH AMERICAN TECHNOLOGIES INC., US
[22] 2019-09-10
[41] 2020-05-05
[30] US (16/180529) 2018-11-05

[21] **3,055,073**
[13] A1

[51] **Int.Cl. B65B 1/10 (2006.01) A61J 7/00 (2006.01) B65B 1/14 (2006.01) B65B 5/00 (2006.01)**
[25] EN
[54] **HIGH-SPEED CONTAINER FILLING WITH REDUCED CROSS-CONTAMINATION**
[54] **REMPLISSAGE DE CONTENEURS A GRANDE VITESSE POUR DIMINUER LA CONTAMINATION CROISEE**
[72] HANSEN, NIELS ERIK, CA
[72] DOHERTY, THOMAS, CA
[71] ARXIUM, INC., US
[22] 2019-09-11
[41] 2020-05-06
[30] US (16/181,859) 2018-11-06

[21] **3,055,331**
[13] A1

[51] **Int.Cl. F02C 7/36 (2006.01) F16D 1/02 (2006.01) F16D 1/06 (2006.01)**
[25] EN
[54] **POSITIONING DEVICE AND METHOD FOR SHAFTS**
[54] **DISPOSITIF ET PROCEDE DE POSITIONNEMENT POUR ARBRES**
[72] REJMAN, MARCIN, US
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2019-09-11
[41] 2020-05-08
[30] US (16/184,255) 2018-11-08

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[13] A1

[51] **Int.Cl. B23C 3/34 (2006.01)**
[25] EN
[54] **END GROOVING SYSTEM AND PROCESS FOR TUBING**
[54] **SYSTEME ET PROCEDE DE RAINURAGE POUR TUBES**
[72] MIHAILESCU, GHEORGHE, US
[71] ZEKELMAN INDUSTRIES, INC., US
[22] 2019-09-17
[41] 2020-05-08
[30] US (16/184592) 2018-11-08

[21] **3,055,835**
[13] A1

[51] **Int.Cl. B23P 15/28 (2006.01) E21B 10/567 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING A POLYCRYSTALLINE SUPERHARD CUTTER UTILIZING LEACHING PASSAGES**
[54] **PROCEDE DE FABRICATION D'UN ELEMENT DE COUPE EXTRA DUR POLYCRISTALLIN UTILISANT DES PASSAGES DE LIXIVIATION**
[72] BELLIN, FEDERICO, US
[71] VAREL INTERNATIONAL IND., L.L.C., US
[22] 2019-09-18
[41] 2020-05-08
[30] US (62/757,547) 2018-11-08

[21] **3,055,923**
[13] A1

[51] **Int.Cl. G16H 50/20 (2018.01) A61B 5/04 (2006.01) A61B 5/0452 (2006.01)**
[25] EN
[54] **ITERATIVE COHERENT MAPPING OF CARDIAC ELECTROPHYSIOLOGICAL (EP) ACTIVATION INCLUDING SCAR EFFECTS**
[54] **CARTOGRAPHIE COHERENTE ITERATIVE D'ACTIVATION ELECTROPHYSIOLOGIQUE CARDIAQUE (EP), Y COMPRIS DES EFFETS SUR LE TISSU CICATRICIEL**
[72] BAR-TAL, MEIR, IL
[72] BARAM, ALON, IL
[72] MONTAG, AVRAM DAN, IL
[71] BIOSENSE WEBSTER (ISRAEL) LTD., IL
[22] 2019-09-19
[41] 2020-05-08
[30] US (16/184,609) 2018-11-08

[21] **3,055,937**
[13] A1

[51] **Int.Cl. A61B 18/16 (2006.01)**
[25] EN
[54] **INDIFFERENT ELECTRODE WITH SELECTABLE AREA**
[54] **ELECTRODE INDIFFERENTE AVEC ZONE SELECTIONNABLE**
[72] BEECKLER, CHRISTOPHER THOMAS, US
[71] BIOSENSE WEBSTER (ISRAEL) LTD., IL
[22] 2019-09-19
[41] 2020-05-05
[30] US (16/180,357) 2018-11-05

[21] **3,056,214**
[13] A1

[51] **Int.Cl. F21V 21/04 (2006.01) F21K 9/232 (2016.01) F21S 8/02 (2006.01) F21V 29/77 (2015.01)**
[25] EN
[54] **LIGHT FIXTURE INSTALLATION APPARATUS AND METHODS**
[54] **D'INSTALLATION DE LUMINAIRES**
[72] WARNER, BENJAMIN J., US
[72] MUNDELL, BRANDON S., US
[71] ABL IP HOLDING LLC, US
[22] 2019-09-20
[41] 2020-05-08
[30] US (16/184,225) 2018-11-08
[30] US (16/184,324) 2018-11-08

[21] **3,056,353**
[13] A1

[51] **Int.Cl. H01B 7/285 (2006.01) H01B 3/30 (2006.01) H01B 9/02 (2006.01)**
[25] EN
[54] **WATER TREE RESISTANT CABLES**
[54] **CABLES RESISTANT AUX ARBORESCENCES AQUEUSES**
[72] LIU, JIANMIN, US
[72] CULLIGAN, SEAN WILLIAM, US
[71] GENERAL CABLE TECHNOLOGIES CORPORATION, US
[22] 2019-09-23
[41] 2020-05-05
[30] US (16/181,059) 2018-11-05

[21] **3,056,995**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/06 (2006.01) A61M 29/02 (2006.01) A61M 39/06 (2006.01)**
[25] EN
[54] **EXPANDABLE INTRODUCER ASSEMBLY AND METHOD OF USING SAME**
[54] **ENSEMBLE INTRODUCTEUR EXTENSIBLE ET SON PROCEDE D'UTILISATION**
[72] APPLING, ANTHONY, US
[72] FURNISH, SIMON, US
[72] MORRIS, BEN, US
[72] WETZEL, CODY, US
[72] ZEIS, TIMOTHY S., US
[71] FREUDENBERG MEDICAL, LLC, US
[22] 2019-09-27
[41] 2020-05-07
[30] US (16/183,123) 2018-11-07

[21] **3,057,547**
[13] A1

[51] **Int.Cl. A61B 5/042 (2006.01) G16H 50/20 (2018.01)**
[25] EN
[54] **ITERATIVE COHERENT MAPPING OF CARDIAC ELECTROPHYSIOLOGICAL (EP) ACTIVATION INCLUDING REENTRY EFFECTS**
[54] **CARTOGRAPHIE COHERENTE ITERATIVE D'ACTIVATION ELECTROPHYSIOLOGIQUE CARDIAQUE (EP) COMPREND DES EFFETS DE REENTREE**
[72] BAR-TAL, MEIR, IL
[72] BARAM, ALON, IL
[72] MONTAG, AVRAM DAN, IL
[71] BIOSENSE WEBSTER (ISRAEL) LTD., IL
[22] 2019-10-03
[41] 2020-05-08
[30] US (16/184,653) 2018-11-08

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[21] **3,058,138**
[13] A1

[25] EN
[54] **METHOD AND SYSTEM FOR STARTING A TURBOCOMPOUNDED ENGINE**
[54] **METHODE ET SYSTEME POUR LE DEMARRAGE D'UN MOTEUR A TURBORECUPERATION**
[72] SCHULZ, EDWIN, CA
[72] BELLEVILLE, FRANCOIS, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2019-10-08
[41] 2020-05-08
[30] US (16/184,299) 2018-11-08

[21] **3,058,152**
[13] A1

[51] **Int.Cl. G06Q 20/20 (2012.01) G06Q 20/06 (2012.01) G06Q 20/40 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TRANSACTION-SPECIFIC REWARDS NEGOTIATION**
[54] **METHODES ET SYSTEMES POUR LA NEGOCIATION DE RECOMPENSES PROPRES A UNE TRANSACTION**
[72] REPHLO, JEREMY, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2019-10-08
[41] 2020-05-07
[30] US (16/182,657) 2018-11-07

[21] **3,058,170**
[13] A1

[51] **Int.Cl. F02C 9/28 (2006.01) F02C 7/22 (2006.01)**
[25] EN
[54] **FUEL FLOW CONTROL SYSTEM AND METHOD FOR ENGINE START**
[54] **METHODE ET SYSTEME DE REGULATION DU DEBIT CARBURANT POUR LE DEMARRAGE D'UN MOTEUR**
[72] DES ROCHES-DIONNE, NICOLAS, CA
[72] LAMARRE, SYLVAIN, CA
[72] LOPEZ, SIMON, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2019-10-08
[41] 2020-05-08
[30] US (16/184,297) 2018-11-08

[21] **3,058,230**
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01) G06Q 40/02 (2012.01) G06F 21/60 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING NOTIFICATIONS REGARDING DATA BREACHES**
[54] **METHODES ET SYSTEMES POUR FOURNIR DES NOTIFICATIONS CONCERNANT DES ATTEINTES A LA PROTECTION DES DONNEES**
[72] DEBEAUNE, DAINA, US
[72] EVANS, CHRISTIANE, US
[72] KROLL, BRYAN, US
[72] MCNULTY, JILL BAGALSO, US
[72] SCHILLING, GARY, US
[72] VITTIMBERGA, PAUL, US
[71] THE TORONTO-DOMINION BANK, CA
[22] 2019-10-10
[41] 2020-05-05
[30] US (16/181,068) 2018-11-05

[21] **3,058,316**
[13] A1

[51] **Int.Cl. F24F 11/50 (2018.01) F24F 11/62 (2018.01) G05D 23/19 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS OF PREDICTING ENERGY USAGE**
[54] **METHODES ET SYSTEMES POUR PREDIRE LA CONSOMMATION D'ENERGIE**
[72] BRAHME, ROHINI, US
[72] HREJSA, PETER, US
[71] LENNOX INDUSTRIES INC., US
[22] 2019-10-10
[41] 2020-05-06
[30] US (16/182,273) 2018-11-06

[21] **3,058,601**
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01) H04W 4/021 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TARGETED CONTENT DELIVERY BASED ON DEVICE SENSOR DATA**
[54] **METHODES ET SYSTEMES POUR LA DIFFUSION DE CONTENU CIBLE REPOSANT SUR LES DONNEES D'UN CAPTEUR**
[72] WIEKER, JEFFREY, US
[72] LIU, YA, US
[72] DOUGLAS, LAWRENCE HUTCHISON, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2019-10-10
[41] 2020-05-08
[30] US (16/184,216) 2018-11-08

[21] **3,058,625**
[13] A1

[51] **Int.Cl. G01N 21/88 (2006.01) B64F 5/60 (2017.01)**
[25] EN
[54] **DISCHARGE DETECTION SYSTEM AND DISCHARGE DETECTION METHOD**
[54] **SYSTEME DE DETECTION DES DECHARGES ET PROCEDE DE DETECTION DES DECHARGES**
[72] NISHI, TAKAYUKI, JP
[72] OHTSUKA, SHINYA, JP
[71] SUBARU CORPORATION, JP
[71] KYUSHU INSTITUTE OF TECHNOLOGY, JP
[22] 2019-10-11
[41] 2020-05-07
[30] JP (2018-210111) 2018-11-07

[21] **3,058,835**
[13] A1

[51] **Int.Cl. F24F 1/0073 (2019.01) F24F 1/035 (2019.01)**
[25] EN
[54] **AUXILIARY FILTER FOR THE INDOOR UNIT OF A MINI-SPLIT HEAT PUMP**
[54] **FILTRE AUXILIAIRE POUR L'UNITE INTERIEURE D'UNE MINI-THERMOPOMPE BIBLOC**
[72] LEBLANC, EDWARD BRIAN, CA
[71] LEBLANC, EDWARD BRIAN, CA
[22] 2019-10-17
[41] 2020-05-05
[30] US (62/766,782) 2018-11-05

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[21] **3,058,843**
[13] A1

[51] **Int.Cl. E21B 43/16 (2006.01) E21B 49/00 (2006.01)**
[25] FR
[54] **PROCESS FOR RECOVERING OIL IN A GEOLOGICAL RESERVOIR BY INJECTION OF SLIGHTLY SALINE WATER**
[54] **PROCEDE DE RECUPERATION D'HYDROCARBURES DANS UN RESERVOIR GEOLOGIQUE PAR INJECTION D'EAU FAIBLEMENT SALINE**
[72] BOURBIAUX, BERNARD, FR
[72] NGUYEN, QUANG LONG, FR
[71] IFP ENERGIES NOUVELLES, FR
[22] 2019-10-15
[41] 2020-05-06
[30] FR (18 60 212) 2018-11-06

[21] **3,058,991**
[13] A1

[51] **Int.Cl. B42D 15/04 (2006.01) B31D 5/04 (2017.01)**
[25] EN
[54] **GREETING CARD WITH 90-DEGREE POP-UP STRUCTURE**
[54] **CARTE DE SOUHAITS AVEC STRUCTURE A DEPLOIEMENT RAPIDE A 90 DEGRES**
[72] KELLY, CHARLES ROBERT, US
[71] AMERICAN GREETINGS CORPORATION, US
[22] 2019-10-17
[41] 2020-05-05
[30] US (16/180,155) 2018-11-05

[21] **3,059,452**
[13] A1

[51] **Int.Cl. F16B 37/14 (2006.01)**
[25] EN
[54] **EME CAP FOR PREVENTING UNCURED SEALANT SQUEEZE OUT**
[54] **CAPUCHON POUR EMPECHER UN SCELLANT NON DURCI DE COULER**
[72] HANSEN, DARRIN M., US
[72] HARGRAVE, BENJAMIN P., US
[72] PAJEL, CARISSA, US
[71] THE BOEING COMPANY, US
[22] 2019-10-18
[41] 2020-05-09
[30] US (16/185,500) 2018-11-09

[21] **3,059,456**
[13] A1

[51] **Int.Cl. H04W 4/90 (2018.01) H04W 12/02 (2009.01) H04W 4/029 (2018.01) H04W 4/44 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR FACILITATING DYNAMIC REMOTE ASSISTANCE NETWORKS**
[54] **METHODES ET SYSTEMES POUR FACILITER LA CREATION DE RESEAUX DYNAMIQUES DE TELEASSISTANCE**
[72] LIU, YA, US
[72] DOUGLAS, LAWRENCE HUTCHISON, JR., US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2019-10-18
[41] 2020-05-08
[30] US (16/184,483) 2018-11-08

[21] **3,059,751**
[13] A1

[51] **Int.Cl. E06B 1/32 (2006.01) E06B 1/26 (2006.01)**
[25] EN
[54] **WINDOW AND CURTAIN WALL MULLIONS, TRANSOMS AND SYSTEMS**
[54] **MENEaux, IMPOSTES ET SYSTEMES POUR FENETRES ET MUR-RIDEAUX**
[72] FREDERICK, TODD, US
[71] FREMARQ INNOVATIONS, INC., US
[22] 2019-10-23
[41] 2020-05-07
[30] US (16/182,871) 2018-11-07

[21] **3,059,833**
[13] A1

[51] **Int.Cl. B64D 27/24 (2006.01) B60K 6/20 (2007.10) B64D 35/00 (2006.01) B64D 41/00 (2006.01)**
[25] EN
[54] **HYBRID PROPULSION SYSTEMS**
[54] **SYSTEMES DE PROPULSION HYBRIDE**
[72] LONG, STEPHEN ANDREW, US
[71] ROLLS-ROYCE NORTH AMERICAN TECHNOLOGIES, INC., US
[22] 2019-10-24
[41] 2020-05-08
[30] US (16/184,725) 2018-11-08

[21] **3,059,837**
[13] A1

[51] **Int.Cl. B64D 27/24 (2006.01) B60K 6/20 (2007.10) B64D 35/00 (2006.01) B64D 41/00 (2006.01)**
[25] EN
[54] **ELECTRICAL ARCHITECTURE FOR HYBRID PROPULSION**
[54] **ARCHITECTURE ELECTRIQUE DE PROPULSION HYBRIDE**
[72] LONG, STEPHEN ANDREW, US
[71] ROLLS-ROYCE NORTH AMERICAN TECHNOLOGIES, INC., US
[22] 2019-10-24
[41] 2020-05-08
[30] US (16/184,648) 2018-11-08

[21] **3,059,838**
[13] A1

[51] **Int.Cl. B64D 27/24 (2006.01) B60K 6/20 (2007.10) B64D 35/00 (2006.01) B64D 41/00 (2006.01)**
[25] EN
[54] **HYBRID PROPULSION SYSTEMS**
[54] **SYSTEMES DE PROPULSION HYBRIDE**
[72] LONG, STEPHEN ANDREW, US
[71] ROLLS-ROYCE NORTH AMERICAN TECHNOLOGIES, INC., US
[22] 2019-10-24
[41] 2020-05-08
[30] US (16/184,536) 2018-11-08

[21] **3,059,843**
[13] A1

[51] **Int.Cl. B64D 27/24 (2006.01) B60K 6/20 (2007.10) B64D 35/00 (2006.01) B64D 41/00 (2006.01)**
[25] EN
[54] **HYBRID PROPULSION SYSTEMS**
[54] **SYSTEMES DE PROPULSION HYBRIDE**
[72] LONG, STEPHEN ANDREW, US
[71] ROLLS-ROYCE NORTH AMERICAN TECHNOLOGIES, INC., US
[22] 2019-10-24
[41] 2020-05-08
[30] US (16/184,487) 2018-11-08

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[21] **3,060,278**
[13] A1

[51] **Int.Cl. H04L 12/22 (2006.01) H04L 9/00 (2006.01) H04L 12/12 (2006.01)**
[25] EN
[54] **METHODS AND DEVICES FOR ESTABLISHING SECURE COMMUNICATION CHANNELS**
[54] **METHODES ET DISPOSITIFS D'ETABLISSEMENT DE VOIES DE COMMUNICATION SECURISEES**
[72] YANG, CHANG FUNG, CA
[72] XU, JASON SONGBO, CA
[71] BLACKBERRY LIMITED, CA
[22] 2019-10-28
[41] 2020-05-06
[30] US (16/181,755) 2018-11-06

[21] **3,060,289**
[13] A1

[51] **Int.Cl. B32B 1/08 (2006.01) A63B 59/50 (2015.01) B29C 70/30 (2006.01) B32B 5/12 (2006.01)**
[25] EN
[54] **STRENGTHENING BALL BATS AND OTHER COMPOSITE STRUCTURES WITH NANO-ADDITIVES**
[54] **RENFORCEMENT DE BATONS DE BASEBALL ET D'AUTRES STRUCTURES COMPOSITES AU MOYEN DE NANOADDITIFS**
[72] ST-LAURENT, FREDERIC, US
[71] EASTON DIAMOND SPORTS, LLC, US
[22] 2019-10-25
[41] 2020-05-08
[30] US (16/184885) 2018-11-08

[21] **3,060,445**
[13] A1

[51] **Int.Cl. G01S 13/87 (2006.01) G01S 7/40 (2006.01) G01S 13/66 (2006.01)**
[25] EN
[54] **DETERMINATION DE DEPHASAGES D'EMISSION POUR UN RADAR A PLUSIEURS VOIES D'EMISSION JUXTAPOSEES**
[54] **DETERMINATION DE DEPHASAGES D'EMISSION POUR UN RADAR A PLUSIEURS VOIES D'EMISSION JUXTAPOSEES**
[72] CATTENOZ, MATHIEU, FR
[72] BROUARD, PHILIPPE, FR
[71] OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES, FR
[22] 2019-10-28
[41] 2020-05-09
[30] FR (18/60352) 2018-11-09

[21] **3,060,454**
[13] A1

[51] **Int.Cl. E04F 19/04 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A FLASH COVING PROFILE AND METHOD FOR ARRANGING THE OBTAINED FLASH COVING PROFILE IN THE CORNER BETWEEN A FLOOR AND A WALL**
[54] **METHODE DE PRODUCTION D'UN PROFIL DE PLINTHE ET METHODE DE DISPOSITION DU PROFIL DE PLINTHE OBTENU DANS LE COIN ENTRE UN PLANCHER ET UN MUR**
[72] LAVALLIE, DANNY DENNIS, CA
[72] KONTOSIC, JOHNNY, CA
[71] FORBO FLOORING B.V., NL
[22] 2019-10-29
[41] 2020-05-07
[30] NL (NL-2021953) 2018-11-07

[21] **3,060,456**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **VARIETY CORN LINE KFX5365**
[54] **LIGNEE D'UNE VARIETE DE MAIS KFX5365**
[72] CROMLEY, JASON, US
[71] SYNGENTA CROP PROTECTION AG, CH
[22] 2019-10-29
[41] 2020-05-08
[30] US (16/184529) 2018-11-08

[21] **3,060,464**
[13] A1

[51] **Int.Cl. G06Q 30/00 (2012.01) G06N 20/00 (2019.01)**
[25] EN
[54] **UTILIZING MACHINE LEARNING WITH SELF-SUPPORT ACTIONS TO DETERMINE SUPPORT QUEUE POSITIONS FOR SUPPORT CALLS**
[54] **UTILISATION DE L'APPRENTISSAGE AUTOMATIQUE ET D' ACTIONS DE SOUTIEN PERSONNEL POUR DETERMINER LES POSITIONS DES APPELS DE SOUTIEN DANS LA FILE DE SOUTIEN**
[72] BENKREIRA, ABDELKADAR M'HAMED, US
[72] MOSSOBA, MICHAEL, US
[72] EDWARDS, JOSHUA, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2019-10-29
[41] 2020-05-05
[30] US (16/180859) 2018-11-05

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[21] **3,060,477**
[13] A1

[51] **Int.Cl. A01N 25/04 (2006.01) C05G 3/00 (2006.01) C05G 5/00 (2006.01) C08J 3/075 (2006.01)**

[25] EN

[54] **HYDROGELS AS RHEOLOGY MODIFIERS AND METHODS OF MAKING THE SAME**

[54] **HYDROGELS COMME MODIFICATEURS DE RHEOLOGIE ET METHODES DE FABRICATION**

[72] BROWN, DANNY, US

[72] COLBY, CHRISTINE, US

[72] MAGIDOW, LILLIAN, US

[72] BARTA, MEGAN, US

[71] WINDFIELD SOLUTIONS, LLC, US

[22] 2019-10-28

[41] 2020-05-09

[30] US (62/758,031) 2018-11-09

[21] **3,060,497**
[13] A1

[51] **Int.Cl. E21B 43/241 (2006.01) E21B 43/16 (2006.01)**

[25] EN

[54] **PRODUCING HYDROCARBONS FROM SUBTERRANEAN RESERVOIR WITH SOLVENT INJECTION AT CONTROLLED SOLVENT DENSITY**

[54] **PRODUCTION D'HYDROCARBURES DANS UN RESERVOIR SOUTERRAIN PAR INJECTION DE SOLVANT A DENSITE CONTROLEE**

[72] AZOM, PRINCE, CA

[72] BEN-ZVI, AMOS, CA

[71] CENOVUS ENERGY INC., CA

[22] 2019-10-29

[41] 2020-05-09

[30] US (62/758,191) 2018-11-09

[21] **3,060,550**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **VARIETY CORN LINE LJD6736**

[54] **LIGNEE D'UNE VARIETE DE MAIS LJD6736**

[72] FORD, BENJAMIN, US

[71] SYNGENTA CROP PROTECTION AG, CH

[22] 2019-10-29

[41] 2020-05-08

[30] US (16/184334) 2018-11-08

[21] **3,060,645**
[13] A1

[51] **Int.Cl. E01B 29/32 (2006.01) B65G 47/22 (2006.01) B65G 47/24 (2006.01)**

[25] EN

[54] **THE PLATE DISPENSER AND METHOD THEREFORE**

[54] **DISTRIBUTEUR DE SELLES DE RAIL ET METHODE CONNEXE**

[72] COOTS, COTY T., US

[71] B & B METALS, INC., US

[22] 2019-10-29

[41] 2020-05-06

[30] US (62/756,206) 2018-11-06

[21] **3,060,714**
[13] A1

[51] **Int.Cl. B64C 13/00 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM DEPLOYING A FLIGHT CONTROL SURFACE**

[54] **METHODE ET SYSTEME DE DEPLOIEMENT D'UNE GOUVERNE**

[72] LISCOUET, JONATHAN, CA

[72] MOLEDINA, ZISHAAN, CA

[71] BOMBARDIER INC., CA

[22] 2019-10-29

[41] 2020-05-07

[30] US (62/756,607) 2018-11-07

[21] **3,060,735**
[13] A1

[51] **Int.Cl. A47G 19/30 (2006.01) A45F 3/18 (2006.01) B65D 1/02 (2006.01) B65D 43/02 (2006.01)**

[25] EN

[54] **CONTAINER AND WITHDRAWAL SYSTEM**

[54] **RECIPIENT ET SYSTEME DE RETRAIT**

[72] NISHIJIMA, RICK T., US

[72] BELL, RUSSELL E., US

[71] BRITA LP, US

[22] 2019-10-29

[41] 2020-05-06

[30] US (62/756,422) 2018-11-06

[30] US (16/664,400) 2019-10-25

[21] **3,060,756**
[13] A1

[51] **Int.Cl. B64D 45/00 (2006.01) B64C 25/00 (2006.01)**

[25] EN

[54] **HARD LANDING INDICATOR FOR AN AIRCRAFT LANDING GEAR**

[54] **INDICATEUR D'ATTERISSAGE DUR POUR UN TRAIN D'ATTERISSAGE D'AERONEF**

[72] FERNELEY, JOHN J. C., CA

[71] BOMBARDIER INC., CA

[22] 2019-10-29

[41] 2020-05-07

[30] US (62/756,779) 2018-11-07

[21] **3,060,806**
[13] A1

[51] **Int.Cl. A01N 25/10 (2006.01) A01N 43/70 (2006.01) A01N 57/20 (2006.01)**

[25] EN

[54] **HYDROGELS AS CARRIERS OF ACTIVE INGREDIENTS AND METHODS OF PRODUCING THE SAME**

[54] **HYDROGELS COMME SUPPORTS D'INGREDIENTS ACTIFS ET METHODES DE PRODUCTION**

[72] BROWN, DANNY, US

[72] COLBY, CHRISTINE, US

[72] MAGIDOW, LILLIAN, US

[72] BARTA, MEGAN, US

[72] SAWALL, DUSTYN, US

[71] WINFIELD SOLUTIONS, LLC, US

[22] 2019-11-01

[41] 2020-05-09

[30] US (62/758,049) 2018-11-09

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[21] **3,060,818**
[13] A1

[51] **Int.Cl. B65F 1/14 (2006.01) B65F 1/00 (2006.01)**
[25] EN
[54] **CERO FOLDING BINS**
[54] **CONTENEURS PLIABLES CERO**
[72] MUNARO, RAFAEL, US
[72] DITTMANN, ANTHONY, US
[71] MUNARO, RAFAEL, US
[71] DITTMANN, ANTHONY, US
[22] 2019-11-01
[41] 2020-05-08
[30] US (62/757435) 2018-11-08
[30] US (16/433378) 2019-06-06

[21] **3,060,822**
[13] A1

[51] **Int.Cl. G06K 9/62 (2006.01) G06Q 40/02 (2012.01)**
[25] EN
[54] **LABEL INFORMATION ACQUISITION METHOD AND APPARATUS, ELECTRONIC DEVICE AND COMPUTER READABLE MEDIUM**
[54] **METHODE ET APPAREIL D'ACQUISITION DES RENSEIGNEMENTS D'UNE ETIQUETTE, DISPOSITIF ELECTRONIQUE ET SUPPORT LISIBLE PAR UN ORDINATEUR**
[72] NI, JIACHENG, CN
[71] 10353744 CANADA LTD., CA
[22] 2019-11-01
[41] 2020-05-09
[30] CN (201811333350.4) 2018-11-09

[21] **3,060,824**
[13] A1

[51] **Int.Cl. F15B 1/24 (2006.01) F16H 61/4096 (2010.01) F16J 1/00 (2006.01)**
[25] EN
[54] **EXTENDED HYDRAULIC ACCUMULATOR PISTON**
[54] **PISTON AGRANDI D'UN ACCUMULATEUR HYDRAULIQUE**
[72] BECHARD, GRANT, US
[72] STEINBISS, JONATHAN, US
[72] SMITH, BRANDON, US
[71] ANDRITZ INC., US
[22] 2019-11-01
[41] 2020-05-09
[30] US (62/758,056) 2018-11-09
[30] US (16/665,537) 2019-10-28

[21] **3,060,855**
[13] A1

[51] **Int.Cl. G06F 3/06 (2006.01) G06F 12/02 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR MANAGING HOT AND COLD DATA, ELECTRONIC DEVICE, AND COMPUTER READABLE MEDIUM**
[54] **METHODE ET DISPOSITIF DE GESTION DE DONNEES CHAUDES ET FROIDES, DISPOSITIF ELECTRONIQUE ET SUPPORT LISIBLE PAR UN ORDINATEUR**
[72] TAO, MIN, CN
[72] CUI, HONGZHEN, CN
[72] ZHAO, NAN, CN
[71] 10353744 CANADA LTD., CA
[22] 2019-11-01
[41] 2020-05-05
[30] CN (201811307696.7) 2018-11-05

[21] **3,060,875**
[13] A1

[51] **Int.Cl. G02C 7/00 (2006.01) A61F 9/02 (2006.01) A63B 33/00 (2006.01) G02C 5/00 (2006.01)**
[25] EN
[54] **GOGGLE LENS WITH COMPOUND CURVATURE FOR DOWNWARD FIELD OF VIEW ENHANCEMENT**
[54] **LENTILLE DE LUNETTES PROTECTRICES AYANT UNE COURBURE COMPLEXE POUR UNE AMELIORATION DE L'ANGLE DE CHAMP VERS LE BAS**
[72] MCNEAL, WILL, US
[72] LINDAUER, HANS, US
[72] AASKOV, MIKE, US
[72] OHRAN, JOHN, US
[72] THORSELL, ERIC, US
[72] CAPOZZI, MATT, US
[72] RAMIREZ, NICOLAS, US
[72] LAYTON, SCOTT, US
[71] SMITH SPORT OPTICS, INC., US
[22] 2019-11-04
[41] 2020-05-05
[30] US (62/756,034) 2018-11-05

[21] **3,060,876**
[13] A1

[51] **Int.Cl. E21B 43/22 (2006.01) C09K 8/58 (2006.01) E21B 43/241 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING FLUIDS FROM A HYDROCARBON-BEARING FORMATION**
[54] **PROCEDE DE PRODUCTION DE FLUIDES A PARTIR D'UNE FORMATION PETROLIFERE**
[72] HOGSTEAD, CLIFFORD VERNON, CA
[71] CENOVUS ENERGY INC., CA
[22] 2019-11-04
[41] 2020-05-05
[30] US (62/755,972) 2018-11-05

[21] **3,060,883**
[13] A1

[51] **Int.Cl. G01S 19/45 (2010.01) H04W 64/00 (2009.01) H04W 4/80 (2018.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CROWD-SOURCED TRUSTED-GPS REGION FOR MOBILE DEVICE LOCALIZATION**
[54] **METHODE ET SYSTEME DE DETERMINATION D'UNE REGION GPS FIABLE PAR EXTERNALISATION OUVERTE POUR LA LOCALISATION D'UN APPAREIL MOBILE**
[72] HUBERMAN, SEAN, CA
[72] GULO, EROS, CA
[71] MAPSTED CORP., CA
[22] 2019-11-04
[41] 2020-05-05
[30] US (16/180306) 2018-11-05

[21] **3,060,887**
[13] A1

[51] **Int.Cl. E01F 9/615 (2016.01) F21K 9/00 (2016.01) F21S 9/02 (2006.01) F21V 33/00 (2006.01) G09F 13/00 (2006.01)**
[25] EN
[54] **PORTABLE, SELF-ILLUMINATING TRAFFIC SIGN**
[54] **SIGNAL ROUTIER PORTATIF ET AUTO-ILLUMINANT**
[72] EVANS, MICHAEL J., US
[71] EVANS, MICHAEL J., US
[22] 2019-11-04
[41] 2020-05-05
[30] US (62/766829) 2018-11-05

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[21] **3,060,889**
[13] A1

[51] **Int.Cl. G06Q 20/40 (2012.01) G06Q 20/24 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MOBILE PRE-AUTHORIZATION OF A CREDIT TRANSACTION**
[54] **SYSTEMES ET METHODES D'AUTORISATION PREALABLE MOBILE D'UNE TRANSACTION DE CREDIT**
[72] SORBELLO, MARK, CA
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2019-11-04
[41] 2020-05-08
[30] US (16/184,542) 2018-11-08

[21] **3,060,890**
[13] A1

[51] **Int.Cl. A01D 90/10 (2006.01) B60P 1/42 (2006.01) B65G 67/24 (2006.01)**
[25] EN
[54] **PROGRAMMABLE GRAIN CART FUNCTION CONTROL SYSTEM**
[54] **SYSTEME DE COMMANDE DES FONCTIONS D'UN CHARIOT A CEREALES PROGRAMMABLE**
[72] FRIESEN, MICHAEL I. J, CA
[71] ELMER'S WELDING & MANUFACTURING LTD., CA
[22] 2019-11-05
[41] 2020-05-07
[30] US (62756646) 2018-11-07

[21] **3,060,895**
[13] A1

[51] **Int.Cl. E05B 47/00 (2006.01) E05B 15/10 (2006.01)**
[25] EN
[54] **FLEXIBLE COUPLING FOR ELECTRONIC DEADBOLT SYSTEMS**
[54] **ACCOUPLLEMENT ELASTIQUE POUR SYSTEMES ELECTRONIQUES DE PENE DORMANT**
[72] LAMMERS, TRACY, US
[72] CRIDDLE, DOUGLAS JOHN, US
[71] AMESBURY GROUP, INC., US
[22] 2019-11-04
[41] 2020-05-06
[30] US (62/756,356) 2018-11-06
[30] US (16/664,144) 2019-10-25

[21] **3,060,900**
[13] A1

[51] **Int.Cl. G06N 3/08 (2006.01) G06N 3/04 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DEEP REINFORCEMENT LEARNING**
[54] **SYSTEME ET METHODE D'APPRENTISSAGE PROFOND PAR RENFORCEMENT**
[72] KARTAL, BILAL, CA
[72] HERNANDEZ LEAL, PABLO FRANCISCO, CA
[72] TAYLOR, MATTHEW EDMUND, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2019-11-05
[41] 2020-05-05
[30] US (62/755,839) 2018-11-05

[21] **3,060,914**
[13] A1

[51] **Int.Cl. G06N 3/08 (2006.01) G06N 3/04 (2006.01)**
[25] EN
[54] **OPONENT MODELING WITH ASYNCHRONOUS METHODS IN DEEP RL**
[54] **MODELISATION DE L'ADVERSAIRE AU MOYEN DE METHODES ASYNCHRONES EN APPRENTISSAGE PROFOND PAR RENFORCEMENT**
[72] HERNANDEZ LEAL, PABLO FRANSISCO, CA
[72] KARTAL, BILAL, CA
[72] TAYLOR, MATTHEW EDMUND, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2019-11-05
[41] 2020-05-05
[30] US (62/755,820) 2018-11-05

[21] **3,060,915**
[13] A1

[51] **Int.Cl. E04F 13/076 (2006.01) E04B 2/90 (2006.01) E04F 13/07 (2006.01) E04F 13/21 (2006.01)**
[25] EN
[54] **COUPLING SYSTEM FOR MOUNTING TILES TO A BUILDING**
[54] **SYSTEME DE RACCORD POUR L'INSTALLATION DE CARREAUX SUR UN BATIMENT**
[72] LEHMANN, CHRISTIAN, US
[71] HUNTER DOUGLAS INC., US
[22] 2019-11-04
[41] 2020-05-05
[30] US (62/883,156) 2019-08-06
[30] US (62/755,909) 2018-11-05

[21] **3,060,917**
[13] A1

[51] **Int.Cl. H04W 88/04 (2009.01) H04W 84/22 (2009.01) H04W 88/16 (2009.01) H04W 92/16 (2009.01) H04B 7/155 (2006.01)**
[25] EN
[54] **REPEATER FOR MESH NETWORK**
[54] **REPETEUR POUR UN RESEAU MAILLE**
[72] LEE, CHIH-FANG, CN
[72] HSIEH, TSUNG-HSIEN, CN
[71] ARCADYAN TECHNOLOGY CORPORATION, CN
[22] 2019-11-04
[41] 2020-05-05
[30] TW (107139218) 2018-11-05

[21] **3,060,918**
[13] A1

[51] **Int.Cl. B09C 1/00 (2006.01) H02S 10/00 (2014.01) H02S 20/10 (2014.01)**
[25] EN
[54] **SYSTEM FOR USE WITH CONTAMINATED LAND AND AS PART OF A FACILITY**
[54] **SYSTEME A UTILISER SUR UN TERRAIN CONTAMINE ET COMME PARTIE D'UNE INSTALLATION**
[72] KEHOE, PATRICK, CA
[71] KEHOE, PATRICK, CA
[22] 2019-11-05
[41] 2020-05-06
[30] US (16/182,165) 2018-11-06
[30] CA (3023163) 2018-11-06
[30] US (16/593,254) 2019-10-04

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[21] **3,060,928**
[13] A1

[51] **Int.Cl. E04B 1/38 (2006.01) F16B 9/00 (2006.01)**
[25] EN
[54] **CONCRETE EMBEDDABLE CORBEL SYSTEM**
[54] **SYSTEME D'ENCORBELLEMENT ENCASTRABLE DANS LE BETON**
[72] JABLONSKY, DAVID S., US
[71] ALP SUPPLY, INC., US
[22] 2019-11-04
[41] 2020-05-06
[30] US (16/181,712) 2018-11-06

[21] **3,060,942**
[13] A1

[51] **Int.Cl. B62B 3/14 (2006.01) B62B 5/08 (2006.01) B60N 2/28 (2006.01)**
[25] EN
[54] **SHOPPING CART GATE WITH FIXED CHILD SEAT**
[54] **GRILLE DE PANIER AYANT UN SIEGE FIXE POUR ENFANT**
[72] HARRISON, WILLIAM T., US
[71] UNARCO INDUSTRIES LLC, US
[22] 2019-11-06
[41] 2020-05-07
[30] US (62/756,947) 2018-11-07

[21] **3,060,945**
[13] A1

[51] **Int.Cl. A01K 97/10 (2006.01) A01K 87/00 (2006.01) A01K 97/01 (2006.01) A01K 97/11 (2006.01)**
[25] EN
[54] **REACTIVE FISHING ROD HOLDER**
[54] **SUPPORT REACTIF POUR CANNE A PECHE**
[72] KURZ II, THOMAS D., US
[71] KURZ II, THOMAS D., US
[22] 2019-11-06
[41] 2020-05-06
[30] US (16/350,362) 2018-11-06

[21] **3,060,947**
[13] A1

[51] **Int.Cl. C04B 28/30 (2006.01) B28C 5/40 (2006.01) C04B 9/04 (2006.01)**
[25] EN
[54] **STRUCTURAL ASSEMBLY BOARD AND METHOD OF MANUFACTURING SAME**
[54] **PANNEAU D'ELEMENT FONCTIONNEL PORTEUR ET METHODE DE FABRICATION**
[72] BROWN, DOUG, CA
[71] MGO SYSTEMS LTD., CA
[22] 2019-11-06
[41] 2020-05-06
[30] US (62/756,324) 2018-11-06

[21] **3,060,948**
[13] A1

[51] **Int.Cl. B60W 30/18 (2012.01) B60W 40/02 (2006.01) B60W 40/10 (2012.01)**
[25] EN
[54] **SPEED PLANNING DEVICE FOR A VEHICLE**
[54] **DISPOSITIF DE PLANIFICATION DE VITESSE POUR UN VEHICULE**
[72] WALLSTEDT, PHILIP, US
[72] MORRIS, EMILY, US
[72] STRUBLE, JOSHUA, US
[72] JOHNSON, MATTHEW D., US
[71] CATERPILLAR INC., US
[22] 2019-11-05
[41] 2020-05-06
[30] US (16/182292) 2018-11-06

[21] **3,060,949**
[13] A1

[51] **Int.Cl. C04B 28/32 (2006.01) C04B 9/02 (2006.01)**
[25] EN
[54] **STRUCTURAL ASSEMBLY BOARD AND METHOD OF MANUFACTURING SAME**
[54] **PANNEAU D'ELEMENT FONCTIONNEL PORTEUR ET METHODE DE FABRICATION**
[72] BROWN, DOUG, CA
[71] MGO SYSTEMS INC., CA
[22] 2019-11-06
[41] 2020-05-06
[30] US (62/756,312) 2018-11-06

[21] **3,060,952**
[13] A1

[51] **Int.Cl. B65G 47/52 (2006.01) A01C 7/00 (2006.01) B65G 41/00 (2006.01)**
[25] EN
[54] **RETRACTING AND SWIVELLING TRANSFER APPARATUS FOR ATTACHMENT TO A MOBILE CONVEYOR**
[54] **APPAREIL DE TRANSFERT RETRACTABLE ET PIVOTANT A INSTALLER SUR UN CONVOYEUR MOBILE**
[72] GROSE, DARREN J., CA
[72] GROSE, CORY E., CA
[71] RODONO INDUSTRIES LTD., CA
[22] 2019-11-06
[41] 2020-05-06
[30] US (62756121) 2018-11-06

[21] **3,060,953**
[13] A1

[51] **Int.Cl. E21B 19/14 (2006.01) E21B 19/15 (2006.01)**
[25] EN
[54] **TUBULAR HANDLING APPARATUS AND METHODS**
[54] **APPAREIL DE MANUTENTION TUBULAIRE ET METHODES**
[72] MORELLI, NICHOLAS, CA
[72] KEEBLER, KURTIS, CA
[72] NICOLAY, ALVIN W., CA
[72] SVEINSON, JAMES (WES), CA
[72] THORKMAN, JACOB, CA
[71] SUPERIOR RIG INNOVATIONS LTD., CA
[22] 2019-11-05
[41] 2020-05-05
[30] US (16/180,108) 2018-11-05

[21] **3,060,954**
[13] A1

[51] **Int.Cl. F16L 1/028 (2006.01) F17D 1/00 (2006.01)**
[25] EN
[54] **REMEDICATION OF EXCAVATED PIPE SECTIONS**
[54] **RESTAURATION DE SECTIONS DE TUYAU DEGAGE**
[72] MEHLENBACHER, LAWRENCE D., US
[71] LMC INDUSTRIAL CONTRACTORS, INC., US
[22] 2019-11-06
[41] 2020-05-06
[30] US (62/756,343) 2018-11-06

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[21] **3,060,961**
[13] A1

[51] **Int.Cl. A61B 17/90 (2006.01) A61B 17/15 (2006.01) A61B 17/68 (2006.01) A61D 1/00 (2006.01) A61F 2/28 (2006.01) A61F 2/46 (2006.01)**

[25] EN

[54] **LIMB SPARING IN MAMMALS USING PATIENT-SPECIFIC ENDOPROSTHESES AND CUTTING GUIDES**

[54] **PROTECTION DES MEMBRES DU CORPS DE MAMMIFERES AU MOYEN D'ENDOPROTHESES ET DE GUIDES DE COUPE ADAPTES A UN PATIENT**

[72] UNKNOWN, XX

[71] SOCOVAR, L.P., CA

[71] COLORADO STATE UNIVERSITY RESEARCH FOUNDATION, US

[71] UNIVERSITE DE MONTREAL, CA

[22] 2019-11-06

[41] 2020-05-06

[30] US (16181954) 2018-11-06

[21] **3,060,963**
[13] A1

[51] **Int.Cl. A61B 17/90 (2006.01) A61B 17/15 (2006.01) A61B 17/68 (2006.01) A61D 1/00 (2006.01) A61F 2/28 (2006.01) A61F 2/46 (2006.01)**

[25] EN

[54] **LIMB SPARING IN MAMMALS USING PATIENT-SPECIFIC ENDOPROSTHESES AND CUTTING GUIDES**

[54] **PROTECTION DES MEMBRES DU CORPS DE MAMMIFERES AU MOYEN D'ENDOPROTHESES ET DE GUIDES DE COUPE ADAPTES A UN PATIENT**

[72] BRAILOVSKI, VLADIMIR, CA

[72] PETIT, YVAN, CA

[72] SEGUIN, BERNARD, US

[72] BRUMMUND, MARTIN, CA

[72] TIMERCAN, ANATOLIE, CA

[71] UNIVERSITE DE MONTREAL, CA

[71] SOCOVAR, L.P., CA

[71] COLORADO STATE UNIVERSITY RESEARCH FOUNDATION, US

[71] LUSSIER, BERTRAND, CA

[22] 2019-11-06

[41] 2020-05-06

[30] US (16181954) 2018-11-06

[21] **3,060,967**
[13] A1

[51] **Int.Cl. F21K 9/27 (2016.01) F21K 9/272 (2016.01) F21K 9/278 (2016.01) H05B 45/357 (2020.01)**

[25] EN

[54] **LED RETROFIT ASSEMBLY WITH ELECTRICALLY BIASED SUPPORT STRUCTURE**

[54] **ENSEMBLE DE RETROINSTALLATION A DEL COMPORTANT UNE STRUCTURE DE SUPPORT POLARISEE**

[72] VINCENT, JOHN B, US

[72] KADLACEK, NICHOLAS K., US

[71] VINCENT, JOHN B, US

[71] KADLACEK, NICHOLAS K., US

[22] 2019-11-06

[41] 2020-05-07

[30] US (16183555) 2018-11-07

[21] **3,060,973**
[13] A1

[51] **Int.Cl. H04R 1/44 (2006.01) H04R 1/42 (2006.01) G01L 27/00 (2006.01)**

[25] EN

[54] **A PRESSURE REGULATOR**

[54] **REGULATEUR DE PRESSION**

[72] LAMBERT, MICHAEL, GB

[72] MAYNE, KEITH, GB

[72] LATTER-STAPLEY, TOM, GB

[71] FISH GUIDANCE SYSTEMS LTD, GB

[22] 2019-11-06

[41] 2020-05-07

[30] GB (1818150.3) 2018-11-07

[21] **3,060,975**
[13] A1

[51] **Int.Cl. G07D 11/00 (2019.01) G07D 11/10 (2019.01) G07B 15/00 (2011.01)**

[25] EN

[54] **AUTONOMOUS CASH BOX AND PAYMENT TERMINAL RECEIVING THE AUTONOMOUS CASH BOX**

[54] **TIROIR-CAISSE AUTONOME ET TERMINAL DE PAIEMENT RECEVANT LE TIROIR-CAISSE AUTONOME**

[72] ROBITAILLE, CYRIL, CA

[71] ROBITAILLE, CYRIL, CA

[22] 2019-11-06

[41] 2020-05-07

[30] US (62/756,965) 2018-11-07

[21] **3,060,978**
[13] A1

[51] **Int.Cl. A61F 5/042 (2006.01) A61F 5/01 (2006.01)**

[25] EN

[54] **DEVICE FOR TREATING DYSARTHROSIS**

[54] **DISPOSITIF POUR TRAITER LA DYSARTHROSE**

[72] SHIH, WAN-HSI, CN

[71] SHIH, WAN-HSI, CN

[22] 2019-11-06

[41] 2020-05-08

[30] TW (107139716) 2018-11-08

[21] **3,060,983**
[13] A1

[51] **Int.Cl. E21B 19/00 (2006.01) E21B 19/14 (2006.01)**

[25] EN

[54] **TUBULAR STAND BUILDING CONTROL SYSTEMS AND METHODS**

[54] **SYSTEMES ET METHODES DE CONTROLE D'UN MONTAGE DE KIOSQUE COMPORTANT DES TUBULAIRES**

[72] NEUVILLE, DAX, US

[72] BEGNAUD, BRIAN, US

[72] COLE, CORY, US

[71] FRANK'S INTERNATIONAL, LLC, US

[22] 2019-11-06

[41] 2020-05-09

[30] US (62/758,130) 2018-11-09

[30] US (16/670,710) 2019-10-31

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[21] **3,060,987**
[13] A1

[51] **Int.Cl. G01S 15/89 (2006.01) A01K 85/00 (2006.01) A01K 93/02 (2006.01) A01K 97/12 (2006.01) G01S 7/521 (2006.01) G01S 15/42 (2006.01) G01S 15/96 (2006.01)**

[25] EN

[54] **CASTABLE SONAR DEVICES AND OPERATIONS IN A MARINE ENVIRONMENT**

[54] **SONARS JETABLES A LA MER ET OPERATIONS DANS UN ENVIRONNEMENT MARIN**

[72] CLARK, JEREMIAH, US

[72] CORBETT, ANDREW, US

[72] HARNETT, MARK N., US

[72] CITAL, ALAN ISLAS, US

[72] ISAACSON, THOMAS E. H., US

[72] LASTER, MATTHEW, US

[72] NEWBERRY, WILLIAM B., JR., US

[72] REED, SHAUNA, US

[72] SNYDER, KRISTOPHER C., US

[71] NAVICO HOLDING AS, NO

[22] 2019-11-06

[41] 2020-05-09

[30] US (16/185770) 2018-11-09

[21] **3,060,992**
[13] A1

[51] **Int.Cl. C04B 38/10 (2006.01) B28C 5/00 (2006.01) C04B 9/00 (2006.01) C04B 28/30 (2006.01) F16L 59/04 (2006.01)**

[25] EN

[54] **AN INSULATION MATERIAL AND METHOD OF MAKING SAME**

[54] **MATERIAU D'ISOLATION ET METHODE DE FABRICATION**

[72] BROWN, DOUG, CA

[71] MGO SYSTEMS LTD., CA

[22] 2019-11-06

[41] 2020-05-06

[30] US (62/756,337) 2018-11-06

[21] **3,061,037**
[13] A1

[51] **Int.Cl. G01N 21/93 (2006.01) B07C 5/10 (2006.01) B07C 5/342 (2006.01) G01N 21/89 (2006.01)**

[25] EN

[54] **METHOD FOR PARAMETERIZING A MACHINE-VISION LIGHTING DEVICE**

[54] **METHODE DE PARAMETRAGE D'UN DISPOSITIF DE VISIONIQUE AVEC CONFIGURATION D'ECLAIRAGE**

[72] MAZEAUD, GUILLAUME, GB

[72] MCKINLEY, JACK, GB

[72] GATEV, NEDKO, GB

[71] TPL VISION UK LTD, GB

[22] 2019-11-05

[41] 2020-05-05

[30] FR (18 60 162) 2018-11-05

[21] **3,061,039**
[13] A1

[51] **Int.Cl. G16H 40/67 (2018.01) G16H 10/00 (2018.01) H04L 12/16 (2006.01)**

[25] EN

[54] **METHOD, MEDIUM, AND SYSTEM FOR WEB-BASED DATA TRANSFER FOR A DENTAL OR DENTAL-SURGICAL TREATMENT OR DIAGNOSIS SYSTEM**

[54] **METHODE, SUPPORT ET SYSTEME DE TRANSFERT DE DONNEES SUR LE WEB POUR UN SYSTEME DE TRAITEMENT OU DE DIAGNOSTIC DENTAIRE OU CHIRURGICAL DENTAIRE**

[72] SCHOCHL, ANDREAS, AT

[72] REITER, MICHAEL, AT

[71] W & H DENTALWERK BURMOOS GMBH, AT

[22] 2019-11-06

[41] 2020-05-07

[30] EP (18204816.5) 2018-11-07

[21] **3,061,040**
[13] A1

[51] **Int.Cl. H01M 2/02 (2006.01) H01M 10/613 (2014.01) H01M 10/6557 (2014.01)**

[25] EN

[54] **MULTIFUNCTIONAL BATTERY PACKAGING AND INSULATION**

[54] **BLOC ET ISOLATION DE BATTERIE MULTIFONCTIONNELS**

[72] POLUS, JEFFREY E., US

[71] THE BOEING COMPANY, US

[22] 2019-11-06

[41] 2020-05-07

[30] US (16/183093) 2018-11-07

[21] **3,061,042**
[13] A1

[51] **Int.Cl. E03D 5/09 (2006.01) E03D 1/34 (2006.01)**

[25] EN

[54] **LEVER ASSEMBLY**

[54] **ENSEMBLE LEVIER**

[72] LE, TUAN, US

[72] BHATT, ADVAIT, US

[71] FLUIDMASTER, INC., US

[22] 2019-11-06

[41] 2020-05-06

[30] US (62/756505) 2018-11-06

[21] **3,061,057**
[13] A1

[51] **Int.Cl. A61F 5/05 (2006.01)**

[25] EN

[54] **ADJUSTABLE ORTHOPAEDIC ORTHOSIS**

[54] **ORTHESE ORTHOPEDIQUE AJUSTABLE**

[72] ENGELSHOVEN, WOUTER ROBIN, NL

[71] WE DESIGN BEHEER B.V., NL

[22] 2019-11-07

[41] 2020-05-08

[30] NL (2021955) 2018-11-08

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[21] **3,061,058**
[13] A1

[51] **Int.Cl. A47C 31/00 (2006.01) A47B 83/00 (2006.01) A47C 17/16 (2006.01) A47C 17/20 (2006.01) A47C 17/22 (2006.01)**

[25] EN

[54] **FURNITURE OBJECT INCLUDING SEALABLE ENCLOSURE FOR STORING PIECE OF SEPARATE FURNITURE OBJECT**

[54] **OBJET DE MOBILIER COMPRENANT UNE ENCEINTE SCELLABLE POUR L'ENTREPOSAGE D'UN OBJET DE MOBILIER DISTINCT**

[72] KANTHASAMY, ABEDAN, CA
[71] KANTHASAMY, ABEDAN, CA
[22] 2019-11-06
[41] 2020-05-08
[30] US (16/184,205) 2018-11-08

[21] **3,061,060**
[13] A1

[51] **Int.Cl. B60L 58/12 (2019.01) B60L 58/10 (2019.01)**

[25] EN

[54] **A BATTERY STATE MONITORING SYSTEM AND METHOD THEREFOR**

[54] **SYSTEME DE SURVEILLANCE DE L'ETAT D'UNE BATTERIE ET METHODE CONNEXE**

[72] HENRICHS, MARK ALAN, US
[72] REYNOLDS, NATHAN THOMAS, US
[71] TRAPEZE SOFTWARE GROUP INC., US
[22] 2019-11-07
[41] 2020-05-07
[30] US (62/756,665) 2018-11-07

[21] **3,061,063**
[13] A1

[51] **Int.Cl. A01F 25/00 (2006.01)**

[25] EN

[54] **METHOD FOR STORING HARVESTED PHOTOSYNTHETIC ACTIVE HORTICULTURAL PRODUCE**

[54] **METHODE DE STOCKAGE D'UN PRODUIT HORTICOLE PHOTOSYNTHETIQUE ACTIF RECOLTE**

[72] LEFSRUD, MARK, CA
[72] HAMMAD, KAMAL, CA
[72] RUFYIKIRI, SOPHIE ANNE, CA
[71] U TECHNOLOGY CORPORATION, CA
[22] 2019-11-07
[41] 2020-05-09
[30] US (62/757,792) 2018-11-09

[21] **3,061,064**
[13] A1

[51] **Int.Cl. G06F 8/60 (2018.01) G06F 17/00 (2019.01)**

[25] EN

[54] **EFFICIENT BUNDLING AND DELIVERY OF CLIENT-SIDE SCRIPTS**

[54] **REGROUPEMENT ET LIVRAISON EFFICACES DE SCRIPTS COTE CLIENT**

[72] STRIMPEL, JASON, US
[71] SERVICENOW, INC., US
[22] 2019-11-07
[41] 2020-05-08
[30] US (16/184,625) 2018-11-08

[21] **3,061,065**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06F 40/20 (2020.01) G06F 11/30 (2006.01) G06F 17/00 (2019.01) H04L 12/16 (2006.01)**

[25] EN

[54] **MACHINE LEARNING BASED DISCOVERY OF SOFTWARE AS A SERVICE**

[54] **APPRENTISSAGE AUTOMATIQUE FONDE SUR LA DECOUVERTE D'UN LOGICIEL COMME SERVICE**

[72] PETERKIN, GAVIN THOMAS, US
[71] SERVICENOW, INC., US
[22] 2019-11-07
[41] 2020-05-09
[30] US (16/185,328) 2018-11-09

[21] **3,061,084**
[13] A1

[51] **Int.Cl. H04N 21/80 (2011.01) H04N 21/84 (2011.01) G06T 7/20 (2017.01) G08B 13/196 (2006.01) H04N 5/335 (2011.01)**

[25] EN

[54] **ALIAS CAPTURE TO SUPPORT SEARCHING FOR AN OBJECT-OF-INTEREST**

[54] **ENREGISTREMENT D'ALIAS A L'APPUI D'UNE RECHERCHE D'OBJET D'INTERET**

[72] DOUMBOUYA, MOUSSA, CA
[72] HU, YANYAN, CA
[72] PIETTE, KEVIN, CA
[72] RUSSO, PIETRO, CA
[72] VENETIANER, PETER L., CA
[72] YU, BO YANG, CA
[71] AVIGILON CORPORATION, CA
[22] 2019-11-06
[41] 2020-05-09
[30] US (62/758,065) 2018-11-09
[30] US (16/593,789) 2019-10-04

[21] **3,061,086**
[13] A1

[51] **Int.Cl. A61K 9/70 (2006.01) A61K 47/30 (2006.01) A61K 47/44 (2017.01)**

[25] EN

[54] **LIPHILIC ACTIVE ORAL FILM FORMULATION AND METHOD OF MAKING THE SAME**

[54] **FORMULATION DE TIMBRE ORAL LIPOPHILE ACTIF ET METHODE DE FABRICATION**

[72] PAIEMENT, NADINE, CA
[72] CONWAY, JUSTIN W., CA
[72] MADWAR, CAROLIN, CA
[71] INTELGENX CORP., CA
[22] 2019-11-06
[41] 2020-05-06
[30] US (62/756,341) 2018-11-06

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[21] **3,061,087**
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01) A01K 13/00 (2006.01) A01K 29/00 (2006.01) G09F 3/02 (2006.01)**

[25] EN
[54] **AUTOMATIC PET MEDICINE SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE DE DETERMINATION AUTOMATIQUE D'UN MEDICAMENT POUR ANIMAUX**

[72] SHADDY, THOMAS AARON, US
[71] SHADDY, THOMAS AARON, US
[22] 2019-11-07
[41] 2020-05-07
[30] US (16/182,858) 2018-11-07

[21] **3,061,098**
[13] A1

[51] **Int.Cl. B60K 11/04 (2006.01) B60K 11/08 (2006.01)**

[25] EN
[54] **THREE-WHEELED VEHICLE**
[54] **VEHICULE A TROIS ROUES**

[72] BATTAGLINI, GIANCARLO, US
[72] REMPELEWERT, BRET H., US
[72] MAZOUR, SCOTT T., US
[72] BIEGLER, KRISTOPHER K., US
[72] EVENSON, RICKIE A., US
[71] POLARIS INDUSTRIES INC., US
[22] 2019-11-07
[41] 2020-05-08
[30] US (16/184301) 2018-11-08

[21] **3,061,107**
[13] A1

[51] **Int.Cl. B60R 22/34 (2006.01) B60R 22/48 (2006.01)**

[25] EN
[54] **SEAT BELT ENERGY MANAGEMENT LOOP**
[54] **BOUCLE DE GESTION ENERGETIQUE POUR CEINTURE DE SECURITE**

[72] HOLROYD, JAMES A. J., US
[72] MARKO, SHANE W., US
[72] VOGL, DANIEL W., US
[71] POLARIS INDUSTRIES INC., US
[22] 2019-11-07
[41] 2020-05-08
[30] US (16/184197) 2018-11-08

[21] **3,061,108**
[13] A1

[51] **Int.Cl. G06F 8/61 (2018.01) H04W 4/00 (2018.01) H04W 12/04 (2009.01) G06F 8/65 (2018.01) H04W 4/50 (2018.01) H04W 76/14 (2018.01)**

[25] EN
[54] **TOKENIZED MOBILE DEVICE UPDATE SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODES A JETONS DE MISE A JOUR D'APPAREILS MOBILES**

[72] KOEPEL, ADAM, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2019-11-07
[41] 2020-05-09
[30] US (16/186457) 2018-11-09

[21] **3,061,109**
[13] A1

[51] **Int.Cl. B64C 27/28 (2006.01) B64C 27/20 (2006.01) B64C 27/26 (2006.01) B64C 29/00 (2006.01)**

[25] EN
[54] **AUTONOMOUS THRUST VECTORING RING WING POD**
[54] **AILE-NACELLE ANNULAIRE A ORIENTATION DE LA POUSSEE AUTONOME**

[72] MORRIS, KEVIN, CA
[72] BRODEUR, NICHOLAS, CA
[72] FENNY, CARLOS, US
[71] TEXTRON INNOVATIONS INC., US
[22] 2019-11-07
[41] 2020-05-08
[30] US (16/183,899) 2018-11-08

[21] **3,061,111**
[13] A1

[51] **Int.Cl. G06Q 10/04 (2012.01) G08G 5/00 (2006.01) G06Q 40/02 (2012.01) G01G 19/08 (2006.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATIC ROUTE RE-DETERMINATION FOR AN UNMANNED AERIAL VEHICLE**
[54] **SYSTEMES ET METHODES POUR LE REACHEMINEMENT AUTOMATIQUE D'UN VEHICULE AERIEN SANS PILOTE**

[72] PARK, KEVIN, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2019-11-07
[41] 2020-05-09
[30] US (16/185642) 2018-11-09

[21] **3,061,118**
[13] A1

[51] **Int.Cl. G01N 21/84 (2006.01) H05B 47/00 (2020.01)**

[25] EN
[54] **ILLUMINATION DEVICE FOR ILLUMINATING A REGION MONITORED BY AT LEAST ONE IMAGE SENSOR**
[54] **DISPOSITIF D'ECLAIRAGE POUR ECLAIRER UNE REGION SURVEILLEE PAR AU MOINS UN CAPTEUR D'IMAGE**

[72] DEMMELHUBER, HERMANN, AT
[72] WALDL, ANDREAS, AT
[71] B&R INDUSTRIAL AUTOMATION GMBH, AT
[22] 2019-11-07
[41] 2020-05-09
[30] EP (18205427.0) 2018-11-09

[21] **3,061,119**
[13] A1

[51] **Int.Cl. G09B 23/32 (2006.01) A61B 5/08 (2006.01)**

[25] EN
[54] **BENCHTOP WITHIN-BREATH DYNAMIC LUNG SIMULATOR**
[54] **MODELE PROTOTYPE DE SIMULATEUR DYNAMIQUE DES POUMONS EN RESPIRATION**

[72] HANAFIALAMDARI, HAMED, CA
[72] HICKEY, MATTHEW DONALD, CA
[72] BABIN, LEE RYAN, CA
[71] NOVARESP TECHNOLOGIES INC., CA
[22] 2019-11-08
[41] 2020-05-09
[30] US (62/758394) 2018-11-09

[21] **3,061,142**
[13] A1

[51] **Int.Cl. H02G 3/02 (2006.01) H02G 3/08 (2006.01)**

[25] EN
[54] **CEILING BOX WITH MOUNTING BRACKET**
[54] **BOITE DE PLAFOND AVEC SUPPORT DE MONTAGE**

[72] ZHAO, MINGRONG, CA
[71] ZHAO, MINGRONG, CA
[22] 2019-11-07
[41] 2020-05-08
[30] US (62757165) 2018-11-08

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[21] **3,061,143**
[13] A1

[51] **Int.Cl. A61K 9/72 (2006.01) A24F 40/00 (2020.01) A24F 40/10 (2020.01) A24F 40/42 (2020.01) A61K 36/185 (2006.01) C09K 3/30 (2006.01)**

[25] EN

[54] **LIQUID COMPOSITION FOR AN ELECTRONIC VAPOR DEVICE**

[54] **COMPOSITION LIQUIDE POUR UN DISPOSITIF ELECTRONIQUE DE VAPEUR**

[72] HAGEN, GORDON, CA

[71] CRONOS GROUP INC., CA

[22] 2019-11-08

[41] 2020-05-09

[30] US (62/758,218) 2018-11-09

[21] **3,061,152**
[13] A1

[51] **Int.Cl. G06F 21/31 (2013.01) G06N 3/02 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR REVERSE-TURING BOT DETECTION**

[54] **SYSTEME ET PROCEDE DE DETECTION DE ROBOT INFORMATIQUE DE TURING A ACTION INVERSE**

[72] ZHENG, BINGZHOU, CA

[72] SHARIEH, SALAH, CA

[72] DJOSIC, NEBOJSA, CA

[71] ROYAL BANK OF CANADA, CA

[22] 2019-11-08

[41] 2020-05-08

[30] US (62/757,531) 2018-11-08

[21] **3,061,155**
[13] A1

[51] **Int.Cl. B01D 11/02 (2006.01)**

[25] EN

[54] **EXTRACTION SYSTEM**

[54] **SYSTEME D'EXTRACTION**

[72] HARSTEL, JOSHUA A., US

[72] HARSTEL, MICHAEL, US

[72] MCPHERSON, ROBERT F., JR., US

[71] DELTA TEAM HOLDINGS LLC, US

[22] 2019-11-08

[41] 2020-05-09

[30] US (62/758326) 2018-11-09

[21] **3,061,226**
[13] A1

[51] **Int.Cl. B81C 1/00 (2006.01) B81B 3/00 (2006.01)**

[25] EN

[54] **MANUFACTURING PROCESS FOR AT LEAST ONE DIAPHRAGM UNIT OF A MEMS TRANSDUCER**

[54] **PROCEDE DE FABRICATION D'AU MOINS UNE UNITE DE DIAPHRAGME D'UN TRANSDUCTEUR DE SYSTEME MICROELECTROMECHANIQUE**

[72] RUSCONI CLERICI BELTRAMI, ANDREA, AT

[72] BOTTONI, FERRUCCIO, AT

[72] RENAUD-BEZOT, NICK, AT

[71] USOUND GMBH, AT

[22] 2019-11-07

[41] 2020-05-08

[30] EP (18306463.3) 2018-11-08

[21] **3,061,366**
[13] A1

[51] **Int.Cl. A47L 9/00 (2006.01) A47L 5/22 (2006.01) B60S 3/00 (2006.01)**

[25] EN

[54] **MOUNTING PLATE FOR IN-VEHICLE VACUUM CLEANER ASSEMBLY**

[54] **PLAQUE DE MONTAGE POUR UN ASPIRATEUR DANS UN VEHICULE**

[72] GOTTSCHALL, JASON, US

[71] SHOP VAC CORPORATION, US

[22] 2019-11-08

[41] 2020-05-09

[30] US (62/758273) 2018-11-09

[21] **3,061,394**
[13] A1

[51] **Int.Cl. E04F 21/08 (2006.01)**

[25] EN

[54] **METHODS, DEVICES AND SYSTEMS FOR INSULATING CAVITIES OF BUILDINGS WITH FOAM INSULATION**

[54] **METHODES, DISPOSITIFS ET SYSTEMES POUR ISOLER DES CAVITES DE BATIMENTS AU MOYEN DE MOUSSE ISOLANTE**

[72] YOU, SIZHU, US

[72] MICHAUD, DENNIS, US

[72] ARUL, JEROME, US

[72] BRIGGS, TIMOTHY, US

[72] PINA, KYLE, US

[72] WILSON, JONATHAN, US

[72] LAMM, DOUGLAS, US

[72] POTTS, AMY, US

[72] RIEMER, DEREK, US

[72] CASCO, NICK, US

[72] BROSANAN, MITCH, US

[72] ANDREOZZI, DENISE, US

[71] CERTAINTTEED CORPORATION, US

[22] 2019-11-12

[41] 2020-05-09

[30] US (62/758,419) 2018-11-09

[21] **3,061,400**
[13] A1

[51] **Int.Cl. B29C 45/17 (2006.01) B29C 64/00 (2017.01)**

[25] EN

[54] **TOOL FOR PLASTIC INJECTION MOLDING AND METHOD FOR MANUFACTURING THE TOOL**

[54] **OUTIL DE MOULAGE PAR INJECTION ET METHODE DE FABRICATION**

[72] VOHLIDAL, ONDREJ, CZ

[72] ZDARSKY, RADIM, CZ

[72] KADLEC, VITEZSLAV, CZ

[72] BROZEK, VITEZSLAV, CZ

[71] MAGNA EXTERIORS (BOHEMIA) S.R.O., CZ

[22] 2019-11-12

[41] 2020-05-09

[30] DE (102018219192.1) 2018-11-09

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[21] **3,061,403**
[13] A1

[51] **Int.Cl. H04N 21/4363 (2011.01) H04N 21/2343 (2011.01) H04N 21/414 (2011.01) G09G 5/377 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR CREATING AND DELIVERING AUGMENTED REALITY CONTENT**

[54] **SYSTEMES ET METHODES DE CREATION ET DE PRESTATION DE CONTENU DE REALITE AUGMENTEE**

[72] GUZMAN, RODNEY, CA

[71] IMAGINATION PARK ENTERTAINMENT INC., CA

[22] 2019-11-08

[41] 2020-05-09

[30] US (62/757,880) 2018-11-09

[30] US (16/196,557) 2018-11-20

[21] **3,061,404**
[13] A1

[51] **Int.Cl. F16L 59/08 (2006.01) B32B 7/022 (2019.01) B32B 5/18 (2006.01) B32B 27/28 (2006.01) B64C 1/40 (2006.01) B64G 1/58 (2006.01) F16L 59/05 (2006.01)**

[25] EN

[54] **INSULATION MATERIAL FOR THERMAL AND/OR ACOUSTIC INSULATION**

[54] **MATERIAU D'ISOLATION POUR UNE ISOLATION THERMIQUE ET/OU ACOUSTIQUE**

[72] JASJUKEVICS, ARTURS, DE

[71] ARIANEGROUP GMBH, DE

[22] 2019-11-08

[41] 2020-05-08

[30] EP (18205261.3) 2018-11-08

[21] **3,061,510**
[13] A1

[51] **Int.Cl. C09D 7/80 (2018.01) E04D 1/12 (2006.01) E04D 7/00 (2006.01) E04F 13/02 (2006.01)**

[25] EN

[54] **METHOD FOR REJUVENATING A ROOF AND ROOF COATING COMPOSITION**

[54] **METHODE DE RAJEUNISSEMENT D'UNE TOITURE ET COMPOSITION D'ENDUIT DE TOITURE**

[72] ARABI, PEIMAN, CA

[72] MARSALA, CARMELO, CA

[71] SPRAY-NET CANADA INC., CA

[22] 2019-11-12

[41] 2020-05-09

[30] US (62/758,023) 2018-11-09

[21] **3,072,663**
[13] A1

[51] **Int.Cl. H02P 27/04 (2016.01) E21B 43/26 (2006.01)**

[25] EN

[54] **VARIABLE FREQUENCY DRIVE CONFIGURATION FOR ELECTRIC DRIVEN HYDRAULIC FRACKING SYSTEM**

[54] **COMMANDE D'ENTRAINEMENT A FREQUENCE VARIABLE D'UN SYSTEME DE FACTURATION HYDRAULIQUE A COMMANDE ELECTRIQUE**

[72] FISCHER, JOHN, US

[72] CROSETTO, JOHN J., US

[72] KUBRICHT, DAVID, US

[72] CHEATHAM, RICHARD, US

[72] POLLACK, JEFFREY, US

[72] LAWMAN, CHAD, US

[72] TODD, DAVID, US

[72] NOLEN, TYLER, US

[71] NATIONAL SERVICE ALLIANCE - HOUSTON LLC, US

[22] 2020-02-14

[41] 2020-05-06

[30] US (62/805,521) 2019-02-14

[30] US (16/790,581) 2020-02-13

[21] **3,074,312**
[13] A1

[51] **Int.Cl. E21B 44/00 (2006.01) E21B 4/02 (2006.01)**

[25] EN

[54] **DETECTING A MUD MOTOR STALL**

[54] **DETECTION D'UN BLOCAGE DE MOTEUR A BOUE**

[72] NG, CHOON-SUN JAMES, CA

[72] SCOTVOLD, SEAN WILLIAM, CA

[72] EDDY, JOHN AARON, CA

[71] PASON SYSTEMS CORP., CA

[22] 2020-03-02

[41] 2020-05-06

[21] **3,074,342**
[13] A1

[51] **Int.Cl. C09D 201/10 (2006.01) C04B 41/52 (2006.01) C08J 7/04 (2020.01) C23C 26/00 (2006.01)**

[25] EN

[54] **TWO-COMPONENT MOISTURE CURABLE COMPOSITION**

[54] **COMPOSITION A DEUX COMPOSANTS TRAITABLE PAR CONDENSATION**

[72] WANG, RUOLEI, US

[72] SUTHERLAND, KENNETH, US

[71] KANEKA AMERICAS HOLDING, INC., US

[22] 2020-03-02

[41] 2020-05-08

[30] US (62/812,646) 2019-03-01

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[21] **3,028,170**
[13] A1

[51] **Int.Cl. G08B 21/22 (2006.01) B60R 25/30 (2013.01) G06T 7/10 (2017.01) G06T 7/50 (2017.01) G06T 7/70 (2017.01) H04N 13/128 (2018.01) G06N 20/00 (2019.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DETECTING IN-VEHICLE CONFLICTS**

[54] **SYSTEME ET METHODE DE DETECTION DE CONFLITS A BORD DE VEHICULE**

[72] SHEN, HAIFENG, CN

[72] ZHAO, YUAN, CN

[71] BEIJING DIDI INFINITY TECHNOLOGY AND DEVELOPMENT CO., LTD, CN

[85] 2018-12-20

[86] 2018-11-09 (PCT/CN2018/114681)

[87] (3028170)

[21] **3,037,788**
[13] A1

[51] **Int.Cl. H05B 3/02 (2006.01) F24C 7/06 (2006.01) F24C 7/08 (2006.01) H05B 1/02 (2006.01)**

[25] EN

[54] **DUAL COIL ELECTRIC HEATING ELEMENT**

[54] **ELEMENT CHAUFFANT ELECTRIQUE A DOUBLE SERPENTIN**

[72] SPRINGER, STACY, US

[72] MAXWELL, DAN, US

[72] IKRAM, SHAHID, US

[72] TAYLOR, MITCH, US

[72] NEWCOMB, ZACHARY, US

[71] BACKER EHP INC., US

[71] WAKO (USA) INC. D/B/A WAKO ELECTRONICS (USA) INC., US

[85] 2019-03-25

[86] 2018-11-09 (PCT/US2018/060192)

[87] (3037788)

[21] **3,077,593**
[13] A1

[51] **Int.Cl. C04B 14/28 (2006.01) C04B 20/10 (2006.01) C04B 28/04 (2006.01) C07C 273/02 (2006.01) C12N 9/14 (2006.01) C12N 9/78 (2006.01) C12P 3/00 (2006.01) D06M 13/432 (2006.01)**

[25] EN

[54] **BIOCEMENTATION METHOD AND SYSTEM**

[54] **PROCEDE ET SYSTEME DE BIOCIMENTATION**

[72] DOSIER, GINGER K., US

[72] DOSIER, J. MICHAEL, US

[72] SMITH, KENT J., US

[71] BIOMASON, INC., US

[85] 2020-03-31

[86] 2018-10-05 (PCT/US2018/054683)

[87] (WO2019/071175)

[30] US (62/568,539) 2017-10-05

[30] US (62/577,911) 2017-10-27

[30] US (62/735,060) 2018-09-22

[21] **3,028,286**
[13] A1

[51] **Int.Cl. G01C 21/30 (2006.01) G01S 17/89 (2020.01)**

[25] EN

[54] **VEHICLE POSITIONING SYSTEM USING LIDAR**

[54] **SYSTEME DE POSITIONNEMENT DE VEHICULE PAR LIDAR**

[72] NIAN, XING, CN

[72] FENG, LU, CN

[72] MA, TENG, CN

[71] BEIJING DIDI INFINITY TECHNOLOGY AND DEVELOPMENT CO., LTD., CN

[85] 2018-12-21

[86] 2018-11-09 (PCT/CN2018/114854)

[87] (3028286)

[21] **3,057,657**
[13] A1

[51] **Int.Cl. A61B 34/10 (2016.01) A61B 5/026 (2006.01) A61F 2/24 (2006.01)**

[25] EN

[54] **EVALUATING BLOOD FLOW OBSTRUCTION THROUGH ANATOMICAL STRUCTURE**

[54] **EVALUATION DE L'OBSTRUCTION DU FLUX SANGUIN PAR UNE STRUCTURE ANATOMIQUE**

[72] WANG, DEE DEE, US

[72] MYERS, ERIC, US

[72] ROLLET, MARIANNE L., US

[72] O'NEILL, WILLIAM, US

[71] HENRY FORD HEALTH SYSTEM, US

[85] 2019-10-04

[86] 2018-11-09 (PCT/US2018/059983)

[87] (3057657)

[21] **3,077,594**
[13] A1

[51] **Int.Cl. C12N 7/00 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **MODIFIED EC7 CELLS HAVING LOW TOXICITY TO VIRAL PRODUCTION PAYLOADS**

[54] **CELLULES EC7 MODIFIEES AYANT UNE FAIBLE TOXICITE POUR DES CHARGES DE PRODUCTION VIRALES**

[72] NIAZI, KAYVAN, US

[72] TADROS, WAEL, US

[72] SHIN, ANNIE, US

[71] NANTBIO, INC., US

[85] 2020-03-31

[86] 2018-10-09 (PCT/US2018/054982)

[87] (WO2019/074907)

[30] US (62/570,508) 2017-10-10

[30] US (62/633,412) 2018-02-21

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[21] **3,077,596**
[13] A1

[51] **Int.Cl. A61N 1/39 (2006.01)**
[25] EN
[54] **MODULAR DEFIBRILLATOR ARCHITECTURE**
[54] **ARCHITECTURE DE DEFIBRILLATEUR MODULAIRE**
[72] ANDREWS, GORDON MOSELEY P., US
[72] BEYER, RORY M., US
[72] PICCO, DAVID, US
[71] AVIVE SOLUTIONS, INC., US
[85] 2020-03-31
[86] 2018-09-28 (PCT/US2018/053321)
[87] (WO2019/070516)
[30] US (62/566,896) 2017-10-02
[30] US (62/576,228) 2017-10-24
[30] US (62/615,533) 2018-01-10
[30] US (62/652,193) 2018-04-03
[30] US (62/674,711) 2018-05-22

[21] **3,077,597**
[13] A1

[51] **Int.Cl. E21B 10/46 (2006.01) E21B 7/06 (2006.01) E21B 10/26 (2006.01)**
[25] EN
[54] **BORING BIT OR OTHER BIT WITH HARD FACE WEAR RESISTANCE MATERIAL**
[54] **TREPAN DE FORAGE OU AUTRE TREPAN A MATERIAU DE RESISTANCE A L'USURE DE SURFACE DURE**
[72] JOHNSON, KEITH A., US
[72] THEISEN, ANDREW J., US
[72] MORE, MARK, US
[72] PLACEK, CASEY, US
[71] KONDEX CORPORATION, US
[85] 2020-03-31
[86] 2018-10-02 (PCT/US2018/053861)
[87] (WO2019/070639)
[30] US (62/566,796) 2017-10-02

[21] **3,077,598**
[13] A1

[51] **Int.Cl. B01J 19/18 (2006.01)**
[25] EN
[54] **REACTOR SYSTEMS**
[54] **SYSTEMES DE REACTEUR**
[72] RUDOLPH, ERIC, US
[72] SILVERBERG, PETE, US
[72] REISS, BARRY, US
[72] MURRAT, SARAH, US
[72] MITCHELL, COLTON, US
[71] ABEC, INC., US
[85] 2020-03-31
[86] 2018-10-02 (PCT/US2018/053880)
[87] (WO2019/070648)
[30] US (62/567,567) 2017-10-03
[30] US (62/633,844) 2018-02-22
[30] US (62,640,210) 2018-03-08
[30] US (62/675,935) 2018-05-24
[30] US (62/690,281) 2018-06-26

[21] **3,077,601**
[13] A1

[51] **Int.Cl. A61N 1/04 (2006.01)**
[25] EN
[54] **NEUROMODULATION ELECTRODE ASSEMBLY**
[54] **ENSEMBLE ELECTRODE DE NEUROMODULATION**
[72] DOSKOCIL, LUKAS, CZ
[71] TESLA MEDICAL, S.R.O., CZ
[85] 2020-03-31
[86] 2018-10-11 (PCT/EP2018/077798)
[87] (WO2019/073003)
[30] CZ (PV 2017-647) 2017-10-11

[21] **3,077,603**
[13] A1

[51] **Int.Cl. C12N 9/86 (2006.01) A61K 38/46 (2006.01) A61P 31/04 (2006.01) C12N 15/55 (2006.01)**
[25] EN
[54] **BETA-LACTAMASE VARIANTS**
[54] **VARIANTS DE LA BETA-LACTAMASE**
[72] DE GUNZBURG, JEAN, GB
[72] DOCQUIER, JEAN-DENIS, IT
[71] DA VOLTERRA, FR
[71] BIOASTER, FR
[85] 2020-03-31
[86] 2018-10-24 (PCT/EP2018/079223)
[87] (WO2019/081614)
[30] EP (17198414.9) 2017-10-25

[21] **3,077,604**
[13] A1

[51] **Int.Cl. C22B 23/00 (2006.01) C22B 3/08 (2006.01) C22B 3/44 (2006.01) C22B 7/00 (2006.01)**
[25] EN
[54] **METHOD FOR SEPARATING COPPER FROM NICKEL AND COBALT**
[54] **PROCEDE DE SEPARATION DE CUIVRE DE NICKEL ET DE COLBALT**
[72] HIGAKI, TATSUYA, JP
[72] TAKENOUCHI, HIROSHI, JP
[72] KOBAYASHI, HIROSHI, JP
[72] ASANO, SATOSHI, JP
[71] SUMITOMO METAL MINING CO., LTD., JP
[85] 2020-03-23
[86] 2018-09-11 (PCT/JP2018/033682)
[87] (WO2019/082532)
[30] JP (2017-204696) 2017-10-23

[21] **3,077,606**
[13] A1

[51] **Int.Cl. A61K 31/4418 (2006.01) A61K 31/675 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY FOR PREVENTING ADDICTION**
[54] **POLYTHERAPIE POUR LA PREVENTION D'UNE ADDICTION**
[72] BLACKBURN, BRENT, US
[72] DIAMOND, IVAN, US
[72] LANGE, LOUIS G., US
[72] STRUMPH, PETER M., US
[71] AMYGDALA NEUROSCIENCES, INC., US
[85] 2020-03-27
[86] 2018-10-15 (PCT/US2018/055937)
[87] (WO2019/079209)
[30] US (62/573,062) 2017-10-16
[30] US (62/643,612) 2018-03-15

[21] **3,077,609**
[13] A1

[51] **Int.Cl. E05D 15/24 (2006.01) E06B 3/44 (2006.01) E06B 3/48 (2006.01)**
[25] EN
[54] **HIGH SPEED OVERHEAD DOOR**
[54] **PORTE BASCULANTE A GRANDE VITESSE**
[72] FREDE, FRIEDHELM, DE
[71] ASSA ABLOY ENTRANCE SYSTEMS AB, SE
[85] 2020-03-31
[86] 2018-11-05 (PCT/EP2018/080115)
[87] (WO2019/091896)
[30] SE (1730307-4) 2017-11-08

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[21] **3,077,611**
[13] A1

[51] **Int.Cl. A61K 31/085 (2006.01) A61K 35/74 (2015.01) A61K 38/44 (2006.01) A61K 38/47 (2006.01) A61P 19/00 (2006.01) A61P 21/00 (2006.01)**

[25] EN

[54] **HOMOVANILLYL ALCOHOL (HVA), HVA ISOMER, METHODS OF MAKING COMPOSITIONS COMPRISING SUCH COMPOUNDS, AND METHODS USING SUCH COMPOUNDS**

[54] **ALCOOL HOMOVANILLYLIQUE (HVA), ISOMERE DE HVA, PROCEDES DE PREPARATION DE COMPOSITIONS COMPRENANT DE TELS COMPOSES, ET PROCEDES UTILISANT DE TELS COMPOSES**

[72] HORCAJADA, MARIE NOELLE, FR

[72] POQUET, LAURE, CH

[71] SOCIETE DES PRODUITS NESTLE S.A., CH

[85] 2020-03-31

[86] 2018-11-08 (PCT/EP2018/080550)

[87] (WO2019/092069)

[30] EP (17200589.4) 2017-11-08

[30] EP (17200578.7) 2017-11-08

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[30] US (62/724,249) 2018-08-29

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[13] A1

[25] EN

[54] **SOLVENT COMPOUNDS FOR USE AS COALESCENTS**

[54] **COMPOSES SOLVANTS DESTINES A ETRE UTILISES EN TANT QU'AGENTS DE COALESCENCE**

[72] PASIN, DAVID A., CA

[72] CLARKSON, JOSEPH MITCHELL, CA

[72] SCHAFFER, LAUREL L., CA

[71] TBF ENVIRONMENTAL TECHNOLOGY INC., CA

[85] 2020-03-31

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[87] (WO2019/069209)

[30] US (62/566,778) 2017-10-02

[21] **3,077,616**
[13] A1

[51] **Int.Cl. B65D 47/08 (2006.01) B65D 55/02 (2006.01)**

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[54] **A CLOSURE**

[54] **FERMETURE**

[72] ROGNARD, JEAN-YVES, FR

[72] HOLMES, DANIEL, GB

[71] OBRIST CLOSURES SWITZERLAND GMBH, CH

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[86] 2018-10-02 (PCT/EP2018/076860)

[87] (WO2019/068734)

[30] GB (1716075.5) 2017-10-02

[21] **3,077,619**
[13] A1

[51] **Int.Cl. A61B 17/10 (2006.01) A61B 17/064 (2006.01) A61B 17/068 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR LOADING AND IMPLANTING A SHAPE MEMORY IMPLANT**

[54] **PROCEDE ET APPAREIL DE CHARGEMENT ET D'IMPLANTATION D'IMPLANT A MEMOIRE DE FORME**

[72] RITZ, JOSEPH P., US

[72] CHENEY, DANIEL F., US

[72] KNIGHT, ADAM T., US

[71] BIOMEDICAL ENTERPRISES, INC., US

[85] 2020-03-31

[86] 2018-10-18 (PCT/IB2018/058111)

[87] (WO2019/077553)

[30] US (62/574,845) 2017-10-20

[30] US (15/844,133) 2017-12-15

[21] **3,077,622**
[13] A1

[51] **Int.Cl. F01D 21/00 (2006.01) G01N 21/954 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR BORESCOPE INSPECTION OF JET ENGINES**

[54] **DISPOSITIF ET PROCEDE POUR L'INSPECTION BOROSCOPIQUE DE REACTEURS**

[72] PETERS, JAN OKE, DE

[72] SASSMANNSHAUSEN, JAN, DE

[72] ZIPPEL, TIM FREDERIK, DE

[72] LIETZ, TRISTAN, DE

[72] ROPPELT, EUGEN, DE

[71] LUFTHANSA TECHNIK AG, DE

[85] 2020-03-31

[86] 2018-10-16 (PCT/EP2018/078205)

[87] (WO2019/076876)

[30] DE (10 2017 218 426.4) 2017-10-16

[21] **3,077,624**
[13] A1

[51] **Int.Cl. A61K 31/40 (2006.01) A61K 31/05 (2006.01) A61P 3/06 (2006.01) A61P 39/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS COMPRISING A STATIN AND A CANNABINOID AND USES THEREOF**

[54] **COMPOSITIONS PHARMACEUTIQUES COMPRENANT UNE STATINE ET UN CANNABINOIDE ET LEURS UTILISATIONS**

[72] SMEEDING, JAMES, US

[72] SHERWOOD, MATHEW, US

[71] SMEEDING, JAMES, US

[71] SHERWOOD, MATHEW, US

[85] 2020-03-31

[86] 2017-10-01 (PCT/US2017/054685)

[87] (WO2018/064654)

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[13] A1

[51] **Int.Cl. A23J 1/00 (2006.01) A23K 10/20 (2016.01) A01M 1/00 (2006.01)**

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[54] **TREATMENT OF INSECTS**
[54] **TRAITEMENT D'INSECTES**
[72] VERHOEVEN, MARTINUS
JOHANNES WILHELMUS, NL
[71] GEA FOOD SOLUTIONS BAKEL B.V., NL
[85] 2020-03-31
[86] 2018-10-17 (PCT/EP2018/078329)
[87] (WO2019/081287)
[30] EP (17198475.0) 2017-10-26

[21] **3,077,627**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 31/00 (2006.01) A61K 47/12 (2006.01) A61K 47/38 (2006.01)**

[25] EN
[54] **PHARMACEUTICAL FORMULATIONS COMPRISING OPIOID RECEPTOR AGONIST AS ACTIVE INGREDIENTS, METHODS OF MANUFACTURE AND THERAPEUTIC USES THEREOF**
[54] **FORMULATIONS PHARMACEUTIQUES COMPRENANT UN AGONISTE DE RECEPTEUR D'OPIOIDE EN TANT QUE SUBSTANCES ACTIVES, LEURS PROCEDES DE FABRICATION ET LEURS UTILISATIONS THERAPEUTIQUES**
[72] CAIVANO, GRAZIA, IT
[72] SILVA BORGES, ANA FILIPA, IT
[71] CHIESI FARMACEUTICI S.P.A., IT
[85] 2020-03-31
[86] 2018-10-17 (PCT/EP2018/078447)
[87] (WO2019/076997)
[30] EP (17197466.0) 2017-10-20

[21] **3,077,630**
[13] A1

[51] **Int.Cl. C12N 15/86 (2006.01) A61K 39/12 (2006.01) C07K 14/005 (2006.01)**

[25] EN
[54] **ADENOVIRUS VECTORS AND USES THEREOF**
[54] **VECTEURS D'ADENOVIRUS ET LEURS UTILISATIONS**
[72] UIL, TACO GILLES, NL
[72] ROY, SOUMITRA, NL
[72] VELLINGA, JORT, NL
[72] KHAN, SELINA, NL
[72] CUSTERS, JEROME H. H. V., NL
[71] JANSSEN VACCINES & PREVENTION B.V., NL
[85] 2020-03-31
[86] 2018-10-30 (PCT/EP2018/079719)
[87] (WO2019/086461)
[30] EP (17199350.4) 2017-10-31

[21] **3,077,632**
[13] A1

[51] **Int.Cl. G01F 23/284 (2006.01) G01S 13/88 (2006.01)**

[25] EN
[54] **A METHOD AND SYSTEM FOR MEASURING A LIQUID LEVEL IN A PRESSURE VESSEL OF A UREA SYNTHESIS PLANT**
[54] **PROCEDE ET SYSTEME DE MESURE D'UN NIVEAU DE LIQUIDE DANS UN RECIPIENT SOUS PRESSION D'UNE INSTALLATION DE SYNTHESE D'UREE**
[72] RUGNONE, LUCA, IT
[71] CASALE SA, CH
[85] 2020-03-31
[86] 2018-11-06 (PCT/EP2018/080264)
[87] (WO2019/096623)
[30] EP (17202123.0) 2017-11-16

[21] **3,077,635**
[13] A1

[51] **Int.Cl. C07K 14/725 (2006.01) A61K 38/17 (2006.01)**

[25] EN
[54] **NOVEL T-CELL RECEPTOR**
[54] **NOUVEAU RECEPTEUR DES LYMPHOCYTES T**
[72] SEWELL, ANDREW, GB
[72] DOLTON, GARRY, GB
[71] UNIVERSITY COLLEGE CARDIFF CONSULTANTS LTD, GB
[85] 2020-03-31
[86] 2018-10-22 (PCT/GB2018/053045)
[87] (WO2019/081902)
[30] GB (1717578.7) 2017-10-26
[30] GB (1806155.6) 2018-04-16

[21] **3,077,638**
[13] A1

[51] **Int.Cl. C09K 8/467 (2006.01) E21B 33/13 (2006.01)**

[25] EN
[54] **REDUCTION IN BENTONITE-BASED GROUT CONCENTRATION IN GROUT FLUIDS**
[54] **REDUCTION DE CONCENTRATION DE MORTIER A BASE DE BENTONITE DANS DES FLUIDES DE MORTIER**
[72] STONE, SHANTEL JEANETTE, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2020-03-31
[86] 2017-11-14 (PCT/US2017/061557)
[87] (WO2019/098994)

[21] **3,077,651**
[13] A1

[51] **Int.Cl. C12N 7/00 (2006.01) C12N 15/85 (2006.01) C12N 15/867 (2006.01)**

[25] EN
[54] **VECTORS AND METHODS OF USE**
[54] **VECTEURS ET LEURS PROCEDES D'UTILISATION**
[72] LILLEGARD, JOSEPH, US
[71] CHILDREN'S HOSPITAL AND CLINICS OF MINNESOTA, US
[85] 2020-03-31
[86] 2018-10-03 (PCT/US2018/054219)
[87] (WO2019/070888)
[30] US (62/567,631) 2017-10-03
[30] US (62/588,106) 2017-11-17
[30] US (62/640,787) 2018-03-09

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[21] **3,077,660**
[13] A1

[51] **Int.Cl. C07K 7/08 (2006.01) A61K 38/08 (2019.01) A61P 35/00 (2006.01) C07K 7/06 (2006.01)**

[25] EN

[54] **ANTICANCER PEPTIDES AND USES THEREOF**

[54] **PEPTIDES A ACTIVITE ANTICANCEREUSE ET LEURS UTILISATIONS**

[72] ROYO BARGUES, TERESA, ES

[71] SUIGENERIS FARMACOSMETICS, S.L., ES

[85] 2020-04-01

[86] 2018-10-04 (PCT/EP2018/077033)

[87] (WO2019/068822)

[30] EP (17382667.8) 2017-10-05

[21] **3,077,664**
[13] A1

[51] **Int.Cl. G01N 33/48 (2006.01) A61K 31/404 (2006.01) A61K 31/4418 (2006.01) A61K 31/4709 (2006.01) A61K 31/7088 (2006.01) A61K 38/18 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) G01N 33/483 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **DIAGNOSTIC AND THERAPEUTIC METHODS FOR CANCER**

[54] **PROCEDES DE DIAGNOSTIC ET PROCEDES THERAPEUTIQUES DU CANCER**

[72] GUAN, YINGHUI, US

[72] SENBABAAGLU, YASIN, US

[72] TURLEY, SHANNON, US

[72] WANG, YULEI, US

[71] GENENTECH, INC., US

[85] 2020-03-31

[86] 2018-11-05 (PCT/US2018/059271)

[87] (WO2019/090263)

[30] US (62/582,207) 2017-11-06

[30] US (62/595,957) 2017-12-07

[30] US (62/657,468) 2018-04-13

[21] **3,077,689**
[13] A1

[51] **Int.Cl. A61L 27/50 (2006.01)**

[25] EN

[54] **REINFORCED TISSUE MATRICES**

[54] **MATRICES TISSULAIRES RENFORCEES**

[72] JESSOP, ISRAEL JAMES, US

[72] XU, HUI, US

[72] LI, HUI, US

[72] BACHRACH, NATHANIEL, US

[71] LIFECCELL CORPORATION, US

[85] 2020-04-01

[86] 2018-10-03 (PCT/US2018/054066)

[87] (WO2019/070785)

[30] US (62/567,376) 2017-10-03

[21] **3,077,692**
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01)**

[25] EN

[54] **MANIPULATION OF TRYPTAMINE METABOLISM**

[54] **MANIPULATION DU METABOLISME DE LA TRYPTAMINE**

[72] O'BRIEN, EDWARD J., US

[72] MARTINEZ, ASUNCION, US

[71] SERES THERAPEUTICS, INC., US

[85] 2020-04-01

[86] 2018-10-03 (PCT/US2018/054252)

[87] (WO2019/070913)

[30] US (62/567,415) 2017-10-03

[21] **3,077,694**
[13] A1

[51] **Int.Cl. C12N 9/64 (2006.01) A61K 38/57 (2006.01) C07K 14/81 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR INHIBITING ADAM10 BIOLOGICAL ACTIVITIES**

[54] **METHODES ET COMPOSITIONS POUR L'INHIBITION DES ACTIVITES BIOLOGIQUES D'ADAM10**

[72] MOSS, MARCIA L., US

[72] RASMUSSEN, ROBERT, US

[72] PRINCE, CHRIS, US

[71] VERRA THERAPEUTICS, US

[85] 2020-03-31

[86] 2018-10-02 (PCT/US2018/053938)

[87] (WO2019/070685)

[30] US (62/566,580) 2017-10-02

[30] US (62/589,842) 2017-11-22

[21] **3,077,695**
[13] A1

[51] **Int.Cl. A61M 1/14 (2006.01) A61M 1/16 (2006.01) A61M 1/34 (2006.01) A61M 1/36 (2006.01) A61M 5/14 (2006.01) A61M 39/10 (2006.01) A61M 39/22 (2006.01) F04B 43/06 (2006.01)**

[25] EN

[54] **MODULAR MEDICAL FLUID MANAGEMENT ASSEMBLIES AND ASSOCIATED MACHINES AND METHODS**

[54] **ENSEMBLES MODULAIRES DE GESTION DE FLUIDE MEDICAL ET MACHINES ET PROCEDES ASSOCIES**

[72] LOS, OLEG, US

[71] BAXTER INTERNATIONAL INC., US

[71] BAXTER HEALTHCARE SA, CH

[85] 2020-03-31

[86] 2018-10-02 (PCT/US2018/053978)

[87] (WO2019/070716)

[30] US (15/723,921) 2017-10-03

[30] US (15/723,773) 2017-10-03

[21] **3,077,696**
[13] A1

[51] **Int.Cl. A23K 10/16 (2016.01) A23K 50/75 (2016.01) A23K 50/80 (2016.01) A01N 63/22 (2020.01) A01P 21/00 (2006.01) A61K 35/74 (2015.01) A61P 3/02 (2006.01) C12N 1/20 (2006.01) C05F 11/08 (2006.01)**

[25] EN

[54] **NUTRIENT-SPORE FORMULATIONS AND USES THEREOF**

[54] **FORMULATIONS NUTRIMENT-SPORES ET LEURS UTILISATIONS**

[72] CHURCH, JORDAN E., US

[72] EVERETT, GABRIEL F. K., US

[72] GREENWALD, CHARLES J., US

[72] PRUITT, JUDITH G., US

[72] WHITE, SKYLAR R., US

[71] NCH LIFE SCIENCES LLC, US

[85] 2020-04-01

[86] 2018-10-04 (PCT/US2018/054377)

[87] (WO2019/070983)

[30] US (62/567,974) 2017-10-04

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[21] **3,077,698**
[13] A1

[51] **Int.Cl. A61K 31/485 (2006.01) A61K 9/28 (2006.01)**

[25] EN

[54] **SUBCUTANEOUS BIODEGRADABLE NALTREXONE IMPLANT AND ACCOMPANYING BEHAVIORAL PROGRAM FOR WEIGHT LOSS IN A PATIENT**

[54] **IMPLANT DE NALTREXONE BIODEGRADABLE SOUS-CUTANE ET PROGRAMME COMPORTEMENTAL D'ACCOMPAGNEMENT POUR PERTE DE POIDS CHEZ UN PATIENT**

[72] FELIX, LOURDES, US

[72] GRANIER, BRADY JAMES, US

[71] BIOCORRX INC., US

[85] 2020-03-31

[86] 2018-10-02 (PCT/US2018/054021)

[87] (WO2019/070756)

[30] US (62/566,994) 2017-10-02

[21] **3,077,699**
[13] A1

[51] **Int.Cl. G01B 21/04 (2006.01) G01B 7/012 (2006.01) G01B 11/00 (2006.01)**

[25] EN

[54] **COORDINATE MEASURING MACHINE PROBE IDENTIFICATION APPARATUS AND METHOD**

[54] **APPAREIL ET PROCEDE D'IDENTIFICATION DE SONDE DE MACHINE DE MESURE DE COORDONNEES**

[72] SINGH, GURPREET, US

[72] KOCIC, MILAN, US

[72] MARIANI, MICHAEL, US

[71] HEXAGON METROLOGY, INC., US

[85] 2020-03-31

[86] 2018-10-02 (PCT/US2018/054023)

[87] (WO2019/070758)

[30] US (62/566,644) 2017-10-02

[21] **3,077,700**
[13] A1

[51] **Int.Cl. H01Q 3/36 (2006.01) H01Q 9/06 (2006.01) H03C 7/02 (2006.01)**

[25] EN

[54] **POLYMER DISPERSED/SHEAR ALIGNED PHASE MODULATOR DEVICE**

[54] **DISPOSITIF MODULATEUR DE PHASE A ALIGNEMENT SUR ETAT DISPERSE/CISAILLE DE POLYMERE**

[72] HAZIZA, DEDI DAVID, IL

[72] HARUSH, ELIYAHU, IL

[71] WAFER, LLC, US

[85] 2020-03-31

[86] 2018-10-19 (PCT/US2018/056793)

[87] (WO2019/079774)

[30] US (62/574,680) 2017-10-19

[21] **3,077,701**
[13] A1

[51] **Int.Cl. C25D 11/02 (2006.01) B82Y 30/00 (2011.01) C23C 28/04 (2006.01) C25D 11/00 (2006.01)**

[25] EN

[54] **HYDROPHOBIC COATINGS FOR METALS INCORPORATING ANODIC AND RARE-EARTH OXIDES AND METHODS OF APPLYING SAME**

[54] **REVETEMENTS HYDROPHOBES DESTINES A DES METAUX INCORPORANT DES OXYDES ANODIQUES ET DES OXYDES DE TERRES RARES ET LEURS PROCEDES D'APPLICATION**

[72] RANKIN, CHRISTOPHER, US

[72] MONCUR, MARLOWE, US

[71] GKN AEROSPACE TRANSPARENCY SYSTEMS, INC., US

[85] 2020-04-01

[86] 2017-10-09 (PCT/US2017/055801)

[87] (WO2019/074482)

[21] **3,077,702**
[13] A1

[51] **Int.Cl. G06F 16/27 (2019.01) G06F 21/62 (2013.01) H04L 1/00 (2006.01) H04L 9/30 (2006.01) H04L 12/16 (2006.01) G06Q 20/38 (2012.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR IDENTITY RESOLUTION ACROSS DISPARATE DISTRIBUTED IMMUTABLE LEDGER NETWORKS**

[54] **SYSTEME ET PROCEDE DE RESOLUTION D'IDENTITE SUR UN ENSEMBLE DE RESEAUX DISPARATES DE REGISTRES DISTRIBUES IMMUABLES**

[72] KHAN, SALEEM, US

[72] GOSTYLO, JACOB CALEB, US

[71] THE DUN & BRADSTREET CORPORATION, US

[85] 2020-03-31

[86] 2018-10-03 (PCT/US2018/054160)

[87] (WO2019/070853)

[30] US (62/568,128) 2017-10-04

[30] US (62/651,369) 2018-04-02

[21] **3,077,703**
[13] A1

[51] **Int.Cl. G16H 50/20 (2018.01) G16H 10/60 (2018.01) G16H 20/60 (2018.01) G16H 50/70 (2018.01)**

[25] EN

[54] **SYSTEMS, METHODS, AND DEVICES FOR AGGREGATED HEALTH DATA PROCESSING AND TREATMENT RECOMMENDATION GENERATION PLATFORMS**

[54] **SYSTEMES, PROCEDES ET DISPOSITIFS POUR TRAITEMENT DE DONNEES DE SANTE AGREGEES ET PLATEFORMES DE GENERATION DE RECOMMANDATION DE TRAITEMENT**

[72] WRIGHT, DAVID BRUCE, US

[72] PURSER, SHANNAN MICHELLE BOOTH, US

[72] WINTER, BRYAN ROSS, US

[71] ADVENTIA TECHNOLOGY, LLC, US

[85] 2020-03-31

[86] 2018-10-22 (PCT/US2018/056917)

[87] (WO2019/083897)

[30] US (62/576,230) 2017-10-24

[30] US (62/576,268) 2017-10-24

Demandes PCT entrant en phase nationale

[21] **3,077,705**
[13] A1
[51] **Int.Cl. A61B 5/04 (2006.01) A61B 5/05 (2006.01) G01R 33/035 (2006.01)**
[25] EN
[54] **METHODS AND MAGNETIC IMAGING DEVICES TO INVENTORY HUMAN BRAIN CORTICAL FUNCTION**
[54] **PROCEDES ET DISPOSITIFS D'IMAGERIE MAGNETIQUE POUR L'INVENTAIRE D'UNE FONCTION CORTICALE CEREBRALE HUMAINE**
[72] FORD, JOHN P., US
[72] SUDRE, GUSTAVO P., US
[71] BRAINT F.I.T. IMAGING, LLC, US
[85] 2020-03-31
[86] 2018-10-03 (PCT/US2018/054228)
[87] (WO2019/070895)
[30] US (62/567,708) 2017-10-03

[21] **3,077,707**
[13] A1
[51] **Int.Cl. G01N 1/31 (2006.01) G01N 1/36 (2006.01) G01N 35/00 (2006.01)**
[25] EN
[54] **TISSUE CASSETTE READER**
[54] **LECTEUR DE CASSETTE D'INCLUSION**
[72] VON BUEREN, ERICO, US
[72] GREENLEE, JOSHUA, US
[71] SAKURA FINETEK U.S.A., INC., US
[85] 2020-03-31
[86] 2018-10-09 (PCT/US2018/055037)
[87] (WO2019/074941)
[30] US (62/570,077) 2017-10-09
[30] US (16/154,634) 2018-10-08

[21] **3,077,713**
[13] A1
[51] **Int.Cl. A01H 1/04 (2006.01) G16B 20/00 (2019.01) G16Z 99/00 (2019.01) A01H 1/00 (2006.01) G06K 9/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PERFORMING DATA ANALYSIS FOR PLANT PHENOTYPING**
[54] **PROCEDE ET SYSTEME D'ANALYSE DE DONNEES POUR PHENOTYPAGE VEGETAL**
[72] BAUER, CHRISTOPH, DE
[72] JEBSEN, CHRISTIAN, DE
[72] GUBATZ, SABINE, DE
[72] DAHL, LUDMILLA, DE
[71] KWS SAAT SE & CO. KGAA, DE
[85] 2020-04-01
[86] 2018-10-04 (PCT/EP2018/077060)
[87] (WO2019/068835)
[30] EP (17194841.7) 2017-10-04

[21] **3,077,718**
[13] A1
[51] **Int.Cl. C22C 14/00 (2006.01) C22F 1/18 (2006.01)**
[25] EN
[54] **IMPROVED HEAT TREATABLE TITANIUM ALLOY**
[54] **ALLIAGE DE TITANE POUVANT ETRE TRAITÉ THERMIQUEMENT AMELIORE**
[72] WU, XINHUA, AU
[72] ZHOU, XIGEN, AU
[71] MONASH UNIVERSITY, AU
[85] 2020-04-01
[86] 2018-10-08 (PCT/AU2018/051082)
[87] (WO2019/068148)
[30] AU (2017904043) 2017-10-06

[21] **3,077,720**
[13] A1
[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/1468 (2006.01) A61B 5/1486 (2006.01) A61B 5/1495 (2006.01) C12Q 1/00 (2006.01)**
[25] EN
[54] **PRE-CONNECTED ANALYTE SENSORS**
[54] **CAPTEURS D'ANALYTE PRECONNECTES**
[72] HALAC, JASON, US
[72] BARRY, JOHN CHARLES, US
[72] CLARK, BECKY L., US
[72] DRING, CHRIS W., US
[72] GRAY, JOHN MICHAEL, US
[72] HIGLEY, KRIS ELLIOT, US
[72] JACKSON, JEFF, US
[72] KELLER, DAVID A., US
[72] LEE, TED TANG, US
[72] MITCHELL, JASON, US
[72] PIRONDINI, KENNETH, US
[72] REGO, DAVID, US
[72] SCHOONMAKER, RYAN EVERETT, US
[72] SIMPSON, PETER C., US
[72] GADD, CRAIG THOMAS, US
[72] STEWART, KYLE THOMAS, US
[72] HAYES, JOHN STANLEY, US
[71] DEXCOM, INC., US
[85] 2020-03-31
[86] 2018-10-23 (PCT/US2018/057011)
[87] (WO2019/083939)
[30] US (62/576,560) 2017-10-24

[21] **3,077,724**
[13] A1
[51] **Int.Cl. F21V 19/04 (2006.01) F21V 23/00 (2015.01)**
[25] EN
[54] **CONDUCTIVE DRIVER BOARD FOR LIGHT BULB**
[54] **CARTE DE CIRCUIT D'ATTAQUE CONDUCTRICE POUR AMPOULE D'ECLAIRAGE**
[72] UHLER, GEORGE J., US
[71] TECHNICAL CONSUMER PRODUCTS, INC., US
[85] 2020-03-26
[86] 2018-09-28 (PCT/US2018/053528)
[87] (WO2019/067968)
[30] US (62/565,316) 2017-09-29

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[21] **3,077,728**
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01)**
[25] EN
[54] **A METHOD OF VOLUMETRIC IMAGING OF A SAMPLE**
[54] **PROCEDE D'IMAGERIE VOLUMETRIQUE D'ECHANTILLON**

[72] KENNEDY, BRENDAN, AU
[72] KRAJANCICH, BROOKE, AU
[72] FANG, QI, AU
[72] CURATOLO, ANDREA, AU
[71] ONCORES MEDICAL PTY LTD, AU
[85] 2020-03-24
[86] 2018-09-18 (PCT/AU2018/051024)
[87] (WO2019/071295)
[30] AU (2017904109) 2017-10-11

[21] **3,077,729**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/39 (2006.01) A61K 45/06 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **MODULATING THE IMMUNE RESPONSE USING ANTIBODY-DRUG CONJUGATES**
[54] **MODULATION DE LA REPOSE IMMUNITAIRE A L'AIDE DE CONJUGUES ANTICORPS-MEDICAMENT**

[72] HEISER, RYAN, US
[72] GARDAI, SHYRA, US
[72] TAFT, DAVID, US
[72] OGDEN, CAROL ANNE, US
[71] SEATTLE GENETICS, INC., US
[85] 2020-03-31
[86] 2018-10-11 (PCT/US2018/055388)
[87] (WO2019/075188)
[30] US (62/572,345) 2017-10-13
[30] US (62/576,017) 2017-10-23
[30] US (62/657,511) 2018-04-13

[21] **3,077,730**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61K 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-CD71 ACTIVATABLE ANTIBODY DRUG CONJUGATES AND METHODS OF USE THEREOF**
[54] **CONJUGUES DE MEDICAMENT ANTICORPS ACTIVABLES ANTI-CD71 ET LEURS PROCEDES D'UTILISATION**

[72] SINGH, SHWETA, US
[72] RICHARDSON, JENNIFER HOPE, US
[72] SERWER, LAURA PATTERSON, US
[72] TERRETT, JONATHAN ALEXANDER, US
[72] MORGAN-LAPPE, SUSAN E., US
[72] HENRIQUES, TRACY, US
[72] RALSTON, SHERRY L., US
[72] LEANNA, MARVIN ROBERT, US
[72] BADAGNANI, ILARIA, US
[72] BOSE, SAHANA, US
[71] ABBVIE INC., US
[85] 2020-03-31
[86] 2018-10-12 (PCT/US2018/055733)
[87] (WO2019/075417)
[30] US (62/572,467) 2017-10-14

[21] **3,077,734**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) G01J 3/00 (2006.01) G01J 3/28 (2006.01) G01N 21/00 (2006.01) G01N 21/25 (2006.01)**
[25] EN
[54] **MOBILE BIOSENSING INSTRUMENT CAPABLE OF MULTIPLE DETECTION MODALITIES**
[54] **INSTRUMENT DE BIODETECTION MOBILE CAPABLE DE MULTIPLES MODALITES DE DETECTION**

[72] CUNNINGHAM, BRIAN T., US
[72] LONG, KENNETH D., US
[71] THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, US
[85] 2020-03-26
[86] 2018-09-28 (PCT/US2018/053277)
[87] (WO2019/067822)
[30] US (62/565,013) 2017-09-28

[21] **3,077,739**
[13] A1

[51] **Int.Cl. A61K 47/54 (2017.01)**
[25] EN
[54] **LYMPHATIC SYSTEM-DIRECTING LIPID PRODRUGS**
[54] **PROMEDICAMENTS LIPIDIQUES ORIENTANT VERS LE SYSTEME LYMPHATIQUE**

[72] BONNER, DANIEL KENNETH, US
[72] KARANAM, KETKI, US
[72] MUTAMBA, JAMES T., US
[72] SHYAM, RISHAB R., US
[72] SIMPSON, JAMIE, US
[72] HAN, SIFEI, AU
[72] HU, LUOJUAN, AU
[72] PORTER, CHRISTOPHER JOHN HAMILTON, AU
[72] QUACH, TIM, AU
[72] TREVASKIS, NATALIE, AU
[71] PURETECH LYT, INC., US
[71] MONASH UNIVERSITY, AU
[85] 2020-03-27
[86] 2018-08-29 (PCT/US2018/048642)
[87] (WO2019/046491)
[30] US (62/551,627) 2017-08-29
[30] US (62/607,700) 2017-12-19
[30] US (62/607,749) 2017-12-19
[30] US (62/714,029) 2018-08-02
[30] US (62/724,274) 2018-08-29
[30] US (62/724,440) 2018-08-29

[21] **3,077,740**
[13] A1

[51] **Int.Cl. E05C 17/56 (2006.01) H02K 11/215 (2016.01) B60J 5/04 (2006.01) E05D 11/00 (2006.01) H02K 7/06 (2006.01)**
[25] EN
[54] **HINGE-BASED DOOR CONTROL SYSTEM**
[54] **SYSTEME DE COMMANDE DE PORTIERE A CHARNIERE**

[72] SAUERWEIN, SVEN, CA
[72] BANJONGPANITH, PASIT, CA
[71] WARREN INDUSTRIES LTD., CA
[85] 2020-03-27
[86] 2018-09-21 (PCT/CA2018/051196)
[87] (WO2019/056125)
[30] US (62/561,209) 2017-09-21

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[21] **3,077,742**
[13] A1

[51] **Int.Cl. F03D 9/00 (2016.01) H02S 10/12 (2014.01) H02S 20/00 (2014.01) F03D 9/25 (2016.01) F03D 80/00 (2016.01)**

[25] EN

[54] **MULTI-POWER SOURCE WIND TURBINES**

[54] **EOLIENNES A SOURCE D'ENERGIE MULTIPLE**

[72] PETER, GEOFFREY, US
[71] PETER, GEOFFREY, US
[85] 2020-03-27
[86] 2018-08-17 (PCT/US2018/046987)
[87] (WO2019/067101)
[30] US (62/564,722) 2017-09-28

[21] **3,077,748**
[13] A1

[51] **Int.Cl. A61F 2/966 (2013.01)**

[25] EN

[54] **IMPLANTABLE MEDICAL DEVICE CONSTRAINT AND DEPLOYMENT APPARATUS**

[54] **APPAREIL DE DEPLOIEMENT ET DE CONTRAINTE DE DISPOSITIFS MEDICAUX IMPLANTABLES**

[72] HONEYFIELD, EVAN, US
[72] IRWIN, CRAIG W., US
[72] MUNGER, JACOB B., US
[72] SKELTON, TYSON J., US
[71] W. L. GORE & ASSOCIATES, INC, US
[85] 2020-03-27
[86] 2018-10-10 (PCT/US2018/055223)
[87] (WO2019/075069)
[30] US (62/570,732) 2017-10-11

[21] **3,077,749**
[13] A1

[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/4025 (2006.01) A61K 31/443 (2006.01) A61K 31/4433 (2006.01) C07D 401/12 (2006.01) C07D 413/14 (2006.01) C07D 471/10 (2006.01)**

[25] EN

[54] **SRPK1 INHIBITORS**

[54] **INHIBITEURS DE SRPK1**

[72] BAXTER, ANDREW DOUGLAS, GB
[72] MORRIS, JONATHAN, AU
[72] MORLEY, ANDREW DAVID, GB
[71] EXONATE LIMITED, GB
[85] 2020-03-25
[86] 2018-09-26 (PCT/GB2018/052735)
[87] (WO2019/063996)
[30] GB (1715637.3) 2017-09-27
[30] GB (1810765.6) 2018-06-29

[21] **3,077,752**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01)**

[25] EN

[54] **METHODS FOR PREVENTING DISULFIDE BOND REDUCTION IN CELL CULTURE HARVEST**

[54] **PROCEDES POUR EMPECHER UNE REDUCTION DES LIAISONS DISULFURE DANS UNE RECOLTE DE CULTURE CELLULAIRE**

[72] KWANT, KATHRYN, US
[71] BAYER HEALTHCARE LLC, US
[85] 2020-03-30
[86] 2018-09-26 (PCT/US2018/052800)
[87] (WO2019/070469)
[30] US (62/566,746) 2017-10-02

[21] **3,077,771**
[13] A1

[51] **Int.Cl. B32B 17/10 (2006.01) F41H 5/04 (2006.01) H05B 3/86 (2006.01)**

[25] FR

[54] **GLAZING WITH HEATING WIRES HAVING FEEDS ON THE EDGE FACE OR AN EXTERIOR FACE OF THE GLAZING**

[54] **VITRAGE A FILS CHAUFFANTS AYANT DES AMENEES SUR LE CHANT OU UNE FACE EXTERIEURE DU VITRAGE**

[72] TONDU, THOMAS, FR
[72] MAYEUX, JEAN-BENOIT, FR
[71] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2020-03-30
[86] 2018-10-17 (PCT/FR2018/052588)
[87] (WO2019/077274)
[30] FR (1759771) 2017-10-18

[21] **3,077,790**
[13] A1

[51] **Int.Cl. A61K 31/7048 (2006.01) A61K 35/741 (2015.01) A23L 33/135 (2016.01) C12Q 1/6809 (2018.01) C12Q 1/689 (2018.01) A61K 31/7042 (2006.01) A61K 36/63 (2006.01) A61P 19/00 (2006.01)**

[25] EN

[54] **BIOCONVERSION OF OLEUROPEIN**

[54] **BIOCONVERSION D'OLEUROPEINE**

[72] HORCAJADA, MARIE NOELLE, FR
[72] DUBOUX, STEPHANE, CH
[87] POQUET, LAURE, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2020-03-31
[86] 2018-11-08 (PCT/EP2018/080547)
[87] (WO2019/092068)
[30] EP (17200589.4) 2017-11-08

[21] **3,077,792**
[13] A1

[51] **Int.Cl. B32B 5/02 (2006.01) B32B 3/04 (2006.01) B32B 3/12 (2006.01) B32B 3/14 (2006.01) B32B 17/02 (2006.01)**

[25] EN

[54] **INSULATION-RETAINING SHEET HAVING INTEGRAL VAPOR-RETARDING MEMBRANE**

[54] **FEUILLE DE RETENUE D'ISOLATION POSSEDANT UNE MEMBRANE PARE-VAPEUR INTEGREE**

[72] HARTZELL, BRUCE A., US
[72] BOZEK, JOHN J., US
[72] LEMBO, MICHAEL J., US
[72] MASSARA, VALERIO, IT
[71] CERTAINTED CORPORATION, US
[85] 2020-03-26
[86] 2018-09-26 (PCT/US2018/052850)
[87] (WO2019/067535)
[30] US (62/563,340) 2017-09-26

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[21] **3,077,793**
[13] A1

[51] **Int.Cl. C22C 38/00 (2006.01) C21D 1/18 (2006.01) C21D 9/00 (2006.01) C21D 9/46 (2006.01) C22C 38/54 (2006.01)**

[25] EN

[54] **HOT STAMPED PRODUCT, STEEL SHEET FOR HOT STAMP, AND MANUFACTURING METHOD THEREOF**

[54] **ARTICLE MOULE PAR ESTAMPAGE A CHAUD, TOLE D'ACIER POUR ESTAMPAGE A CHAUD, ET PROCEDES DE PRODUCTION DE CEUX-CI**

[72] HAGA, JUN, JP
[72] HIKIDA, KAZUO, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2020-03-31
[86] 2018-10-02 (PCT/JP2018/036913)
[87] (WO2019/069938)
[30] JP (2017-193095) 2017-10-02

[21] **3,077,794**
[13] A1

[51] **Int.Cl. B41M 3/14 (2006.01) B42D 25/29 (2014.01) B42D 25/30 (2014.01) B42D 25/40 (2014.01) G03G 15/04 (2006.01)**

[25] EN

[54] **FULL COLOR, DIGITALLY PRINTED COPY EVIDENT DOCUMENTS**

[54] **DOCUMENTS INVIOLEBLES A IMPRESSION NUMERIQUE EN PLEINE COULEUR**

[72] WU, JUDY, CA
[72] WOLFE, GREGORY, US
[71] HAM LTD, CA
[85] 2020-03-31
[86] 2018-09-28 (PCT/US2018/053473)
[87] (WO2019/070532)
[30] US (62/568,545) 2017-10-05

[21] **3,077,795**
[13] A1

[51] **Int.Cl. A01B 79/00 (2006.01) A01C 23/00 (2006.01) G01N 21/25 (2006.01) G01N 33/24 (2006.01)**

[25] EN

[54] **FIELD MEASUREMENT OF SOIL ELEMENT CONCENTRATION**

[54] **MESURE SUR SITE DE LA CONCENTRATION EN CONSTITUANTS DE SOL**

[72] LIU, MIAO, US
[72] JURADO, LUIS, US
[71] THE CLIMATE CORPORATION, US
[85] 2020-03-31
[86] 2018-10-02 (PCT/US2018/054007)
[87] (WO2019/070743)
[30] US (15/723,177) 2017-10-03

[21] **3,078,095**
[13] A1

[51] **Int.Cl. G06K 9/00 (2006.01) G06K 9/32 (2006.01) G06K 9/34 (2006.01) G06K 9/42 (2006.01) G06K 9/46 (2006.01)**

[25] EN

[54] **AUTOMATED CLASSIFICATION AND TAXONOMY OF 3D TEETH DATA USING DEEP LEARNING METHODS**

[54] **CLASSIFICATION ET TAXONOMIE AUTOMATISEES DE DONNEES DE DENTS 3D A L'AIDE DE PROCEDES D'APPRENTISSAGE PROFOND**

[72] ANSSARI MOIN, DAVID, NL
[72] CLAESSEN, FRANK THEODORUS CATHARINA, NL
[72] VERHEIJ, BAS ALEXANDER, NL
[71] PROMATON HOLDING B.V., NL
[85] 2020-03-30
[86] 2018-10-02 (PCT/EP2018/076871)
[87] (WO2019/068741)
[30] EP (17194460.6) 2017-10-02

[21] **3,078,096**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 38/16 (2006.01) A61P 21/00 (2006.01) C12N 15/867 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **USE OF SYNCYTIN FOR TARGETING DRUG AND GENE DELIVERY TO REGENERATING MUSCLE TISSUE**

[54] **UTILISATION DE SYNCYTINE PERMETTANT LE CIBLAGE DE L'ADMINISTRATION DE MEDICAMENTS ET DE GENES EN VUE DE REGENERER UN TISSU MUSCULAIRE**

[72] GALY, ANNE, FR
[72] FERRAND, MAXIME, FR
[71] GENETHON, FR
[71] (INSERM) INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, FR
[71] UNIVERSITE D'EVRY VAL D'ESSONNE, FR
[85] 2020-03-30
[86] 2018-10-19 (PCT/EP2018/078804)
[87] (WO2019/077149)
[30] EP (17306448.6) 2017-10-20

[21] **3,078,100**
[13] A1

[51] **Int.Cl. C23C 14/06 (2006.01) C23C 14/24 (2006.01) C23C 14/32 (2006.01) C23C 14/54 (2006.01) H01J 37/32 (2006.01)**

[25] EN

[54] **ARC SOURCE**

[54] **SOURCE D'ARC**

[72] KRASSNITZER, SIEGFRIED, AT
[72] HAGMANN, JUERG, CH
[71] OERLIKON SURFACE SOLUTIONS AG, PFAFFIKON, CH
[85] 2020-03-31
[86] 2018-10-04 (PCT/EP2018/000460)
[87] (WO2019/081053)

Demandes PCT entrant en phase nationale

[21] **3,078,103**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 38/16 (2006.01) A61P 11/00 (2006.01) C12N 15/867 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **USE OF SYNCYTIN FOR TARGETING DRUG AND GENE DELIVERY TO LUNG TISSUE**

[54] **UTILISATION DE SYNCYTINE POUR CIBLER UN MEDICAMENT ET UNE ADMINISTRATION DE GENE A UN TISSU PULMONAIRE**

[72] GALY, ANNE, FR

[72] COQUIN, YOUNA, FR

[72] FERRAND, MAXIME, FR

[71] GENETHON, FR

[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR

[71] UNIVERSITE D'EVRY VAL D'ESSONNE, FR

[85] 2020-03-30

[86] 2018-10-19 (PCT/EP2018/078809)

[87] (WO2019/077150)

[30] EP (17306447.8) 2017-10-20

[21] **3,078,104**
[13] A1

[51] **Int.Cl. A61K 51/04 (2006.01)**

[25] EN

[54] **PSMA LIGANDS FOR IMAGING AND ENDORADIO THERAPY**

[54] **LIGANDS DE PSMA POUR L'IMAGERIE ET L'ENDORADIO THERAPIE**

[72] WESTER, HANS-JURGEN, DE

[72] SCHMIDT, ALEXANDER, DE

[72] PARZINGER, MARA, DE

[71] TECHNISCHE UNIVERSITAT MUNCHEN, DE

[85] 2020-03-30

[86] 2018-12-11 (PCT/EP2018/084399)

[87] (WO2019/115547)

[30] EP (17206510.4) 2017-12-11

[21] **3,078,105**
[13] A1

[51] **Int.Cl. H01R 13/52 (2006.01) H01R 24/20 (2011.01) H01R 24/28 (2011.01) H01R 24/62 (2011.01) H01R 13/627 (2006.01) H01R 13/66 (2006.01) H01R 31/06 (2006.01)**

[25] EN

[54] **CONNECTOR SYSTEM**

[54] **SYSTEME DE CONNECTEUR**

[72] MILLER, KEITH EDWIN, US

[72] THACKSTON, KEVIN MICHAEL, US

[72] MULFINGER, ROBERT NEIL, US

[71] TE CONNECTIVITY CORPORATION, US

[85] 2020-03-30

[86] 2018-09-28 (PCT/IB2018/057556)

[87] (WO2019/069200)

[30] US (62/568,992) 2017-10-06

[30] US (15/968,840) 2018-05-02

[21] **3,078,108**
[13] A1

[51] **Int.Cl. G01H 1/00 (2006.01) G01N 33/00 (2006.01)**

[25] EN

[54] **PHYTOSTATIC ANALYSIS DEVICE**

[54] **DISPOSITIF D'ANALYSE PHYTOSTATIQUE**

[72] MANCUSO, STEFANO, IT

[71] PNAT S.R.L., IT

[85] 2020-03-30

[86] 2018-10-02 (PCT/IB2018/057631)

[87] (WO2019/069219)

[30] IT (102017000110668) 2017-10-03

[21] **3,078,109**
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01)**

[25] EN

[54] **PROGNOSTIC AND TREATMENT RESPONSE PREDICTIVE METHOD**

[54] **PROCEDE DE PREDICTION DE PRONOSTIC ET DE REPOSE A UN TRAITEMENT**

[72] SMYTH, ELIZABETH, GB

[72] SADANANDAM, ANGURAJ, GB

[72] NYAMUNDANDA, GIFT, GB

[72] CUNNINGHAM, DAVID, GB

[72] TAN, BOON OOI PATRICK, SG

[71] THE INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL, GB

[71] THE ROYAL MARSDEN NHS FOUNDATION TRUST, GB

[71] NATIONAL UNIVERSITY OF SINGAPORE, SG

[85] 2020-03-30

[86] 2018-10-12 (PCT/SG2018/050514)

[87] (WO2019/074445)

[30] GB (1716712.3) 2017-10-12

[21] **3,078,111**
[13] A1

[51] **Int.Cl. E04C 2/04 (2006.01) B28B 1/29 (2006.01) B32B 3/02 (2006.01) B32B 13/08 (2006.01) B32B 37/15 (2006.01) B32B 38/10 (2006.01) E04B 1/86 (2006.01)**

[25] EN

[54] **TAPERED PLASTERBOARDS AND METHODS FOR MAKING THEM**

[54] **PLAQUES DE PLATRE EFFILEES ET LEURS PROCEDES DE FABRICATION**

[72] BRIDENSTINE, JOHN, US

[72] RILEY, CHRISTOPHER G., US

[72] DIMITRAKOPOULOS, JAMES, US

[71] CERTAINTED GYPSUM, INC., US

[85] 2020-03-30

[86] 2018-09-28 (PCT/US2018/053584)

[87] (WO2019/068008)

[30] US (62/566,381) 2017-09-30

PCT Applications Entering the National Phase

[21] **3,078,112**
[13] A1

[51] **Int.Cl. B65B 3/12 (2006.01) B29C 49/12 (2006.01) B29C 49/46 (2006.01)**

[25] EN

[54] **FILLING CYLINDER INSERT TO REDUCE VOLUME**

[54] **INSERT DE CYLINDRE DE REMPLISSAGE PERMETTANT DE REDUIRE UN VOLUME**

[72] LISCH, G. DAVID, US

[72] BEUERLE, FREDERICK C., US

[71] AMCOR RIGID PACKAGING USA, LLC, US

[85] 2020-03-30

[86] 2017-10-02 (PCT/US2017/054689)

[87] (WO2019/070225)

[21] **3,078,114**
[13] A1

[51] **Int.Cl. G01N 27/12 (2006.01) B82Y 15/00 (2011.01) B82Y 30/00 (2011.01)**

[25] EN

[54] **GIANT MAGNETORESISTANCE-BASED BIOSENSORS**

[54] **BIOCAPTEURS A BASE DE MAGNETORESISTANCE GEANTE**

[72] ZHANG, JIN, CA

[71] ZHANG, JIN, CA

[85] 2020-04-01

[86] 2018-10-09 (PCT/CA2018/051270)

[87] (WO2019/068204)

[30] US (62/568,952) 2017-10-06

[21] **3,078,116**
[13] A1

[51] **Int.Cl. A47G 9/02 (2006.01) A01K 13/00 (2006.01) A61M 21/02 (2006.01)**

[25] EN

[54] **THERAPEUTIC BLANKET WITH WEIGHT ELEMENTS**

[54] **COUVERTURE THERAPEUTIQUE COMPORTANT DES POIDS**

[72] NILSSON, RASMUS, SE

[72] BRAR, MAX, SE

[71] NILSSON, RASMUS, SE

[71] BRAR, MAX, SE

[85] 2020-04-01

[86] 2018-09-27 (PCT/EP2018/076238)

[87] (WO2019/068546)

[30] EP (17194394.7) 2017-10-02

[21] **3,078,119**
[13] A1

[51] **Int.Cl. G06K 9/78 (2006.01) G06K 9/46 (2006.01) G06N 3/02 (2006.01) G06Q 50/02 (2012.01)**

[25] EN

[54] **DISEASE RECOGNITION FROM IMAGES HAVING A LARGE FIELD OF VIEW**

[54] **RECONNAISSANCE DE MALADIE A PARTIR D'IMAGES AYANT UN GRAND CHAMP DE VISION**

[72] CHEN, YAQI, US

[72] GUAN, WEI, US

[71] THE CLIMATE CORPORATION, US

[85] 2020-03-31

[86] 2018-10-04 (PCT/US2018/054348)

[87] (WO2019/070963)

[30] US (15/725,284) 2017-10-05

[21] **3,078,123**
[13] A1

[51] **Int.Cl. A61B 3/14 (2006.01) A61F 9/008 (2006.01) G02B 17/04 (2006.01) G02B 27/10 (2006.01)**

[25] EN

[54] **MINIATURE IMAGING SYSTEM FOR OPHTHALMIC LASER BEAM DELIVERY SYSTEM**

[54] **SYSTEME D'IMAGERIE MINIATURE POUR SYSTEME D'APPLICATION DE FAISCEAU LASER OPHTALMIQUE**

[72] SUN, ZHENG, US

[71] AMO DEVELOPMENT, LLC, US

[85] 2020-03-31

[86] 2018-10-18 (PCT/US2018/056523)

[87] (WO2019/079601)

[30] US (15/788,530) 2017-10-19

[21] **3,078,125**
[13] A1

[51] **Int.Cl. F04D 29/30 (2006.01) F04D 17/16 (2006.01) F04D 29/66 (2006.01)**

[25] EN

[54] **A BLOWER IMPELLER FOR A HANDHELD BLOWER**

[54] **ROUE DE SOUFFLANTE POUR UNE SOUFFLANTE PORTATIVE**

[72] KEDELTY, DOMINIC, US

[72] KHORSHIDI, MARYAM, US

[71] MTD PRODUCTS INC, US

[85] 2020-03-31

[86] 2018-10-19 (PCT/US2018/056607)

[87] (WO2019/094168)

[30] US (15/805,465) 2017-11-07

[21] **3,078,126**
[13] A1

[51] **Int.Cl. A61H 23/02 (2006.01)**

[25] EN

[54] **METHOD FOR INDUCING A MEDITATIVE STATE**

[54] **PROCEDE D'INDUCTION D'UN ETAT MEDITATIF**

[72] DE MARCHENA, EDUARDO JOSE, US

[71] OMDYNE, LLC, US

[85] 2020-03-30

[86] 2018-10-03 (PCT/US2018/054262)

[87] (WO2019/070919)

[30] US (62/567,727) 2017-10-03

[21] **3,078,136**
[13] A1

[51] **Int.Cl. C02F 3/30 (2006.01)**

[25] FR

[54] **METHOD FOR BIOLOGICAL TREATMENT OF NITROGEN OF EFFLUENTS BY NITRITATION**

[54] **PROCEDE DE TRAITEMENT BIOLOGIQUE DE L'AZOTE DES EFFLUENTS PAR NITRITATION**

[72] CALIGARIS, MARC, FR

[72] SAUR, THIBAUT, FR

[72] MOZO, IRENE, FR

[71] SUEZ GROUPE, FR

[85] 2020-04-01

[86] 2018-10-04 (PCT/FR2018/052453)

[87] (WO2019/069031)

[30] FR (17 59306) 2017-10-04

[21] **3,078,137**
[13] A1

[51] **Int.Cl. A61K 31/5025 (2006.01) A61P 21/00 (2006.01)**

[25] EN

[54] **NEW TREATMENT OF SMA**

[54] **NOUVEAU TRAITEMENT DE LA SMA**

[72] PFEFEN, JEAN-PAUL, CH

[72] KLETZL, HEIDEMARIE, CH

[72] MUELLER, LUTZ, CH

[71] F. HOFFMANN-LA ROCHE AG, CH

[85] 2020-03-27

[86] 2018-10-01 (PCT/EP2018/076577)

[87] (WO2019/068604)

[30] EP (17194520.7) 2017-10-03

Demandes PCT entrant en phase nationale

[21] **3,078,138**
[13] A1

[51] **Int.Cl. C10B 1/04 (2006.01) C10B 49/02 (2006.01) C10B 53/02 (2006.01)**

[25] EN

[54] **PROCESS AND REACTOR FOR CONTINUOUS CHARCOAL PRODUCTION**

[54] **PROCEDE ET REACTEUR POUR LA PRODUCTION CONTINUE DE CHARBON DE BOIS**

[72] LATORRE, FERNANDO, BR

[71] VALLOUREC TUBOS DO BRASIL S.A., BR

[85] 2020-04-01

[86] 2018-10-02 (PCT/BR2018/050362)

[87] (WO2019/068159)

[30] BR (102017021185-1) 2017-10-02

[21] **3,078,140**
[13] A1

[51] **Int.Cl. G06K 9/78 (2006.01) G06K 9/36 (2006.01) G06T 17/00 (2006.01)**

[25] EN

[54] **METHOD FOR OBJECT RECOGNITION**

[54] **PROCEDE DE RECONNAISSANCE D'OBJET**

[72] BLONDEL, DANAÉ, CA

[72] JUPPE, LAURENT, CA

[71] APPLICATIONS MOBILES OVERVIEW INC., CA

[85] 2020-04-01

[86] 2018-10-05 (PCT/CA2018/000186)

[87] (WO2019/068167)

[30] LU (LU100465) 2017-10-05

[21] **3,078,141**
[13] A1

[51] **Int.Cl. C07K 16/00 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/32 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **CD3/CD33 BISPECIFIC BINDING MOLECULES**

[54] **MOLECULES DE LIAISON BISPECIFIQUES CD3/CD33**

[72] BRACK, SIMON SEBASTIAN, NL

[72] KLUPSCH, KRISTINA, NL

[72] ATTINGER-TOLLER, ISABELLA, NL

[72] BULLER, FABIAN, NL

[72] ZUMSTEG, ADRIAN, NL

[72] BERTSCHINGER, JULIAN, NL

[72] GRABULOVSKI, DRAGAN, NL

[72] BAERISWYL, VANESSA, NL

[72] ROQUETTE, JOANA, NL

[72] SCHOLZ, ROLAND, NL

[72] SANTIMARIA, ROGER, NL

[72] SENN, DAVID, NL

[72] KAGE, ELENA, NL

[72] ALBANI, CLARA, NL

[71] COVAGEN AG, CH

[85] 2020-04-01

[86] 2018-10-01 (PCT/EP2018/076634)

[87] (WO2019/068633)

[30] EP (17194382.2) 2017-10-02

[30] EP (18168963.9) 2018-04-24

[21] **3,078,142**
[13] A1

[51] **Int.Cl. C07D 417/12 (2006.01) C07D 213/36 (2006.01) C07D 213/40 (2006.01) C07D 241/12 (2006.01) C07D 257/02 (2006.01) C09K 11/07 (2006.01) G01N 33/52 (2006.01) G01N 15/10 (2006.01) G01N 21/64 (2006.01)**

[25] EN

[54] **SENSORS FOR DETECTION OF NEGATIVELY CHARGED PHOSPHATE-CONTAINING MEMBRANES AND MEMBRANE COMPONENTS**

[54] **CAPEURS POUR LA DETECTION DE MEMBRANES CONTENANT DU PHOSPHATE CHARGEES NEGATIVEMENT ET COMPOSANTS DE MEMBRANE**

[72] GUNNING, PATRICK THOMAS, CA

[72] KRASKOUSKAYA, DZIYANA, CA

[72] CABRAL, AARON, CA

[72] MURCAR-EVANS, BRONTE, CA

[72] TOUTAH, KRIMO, CA

[72] DE ARAUJO, ELVIN, CA

[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA

[85] 2020-04-01

[86] 2018-10-01 (PCT/CA2018/051231)

[87] (WO2019/068177)

[30] US (62/566,699) 2017-10-02

[21] **3,078,143**
[13] A1

[51] **Int.Cl. A23P 20/10 (2016.01) A23L 29/00 (2016.01) A23L 33/16 (2016.01) A23P 20/18 (2016.01) C07C 59/08 (2006.01)**

[25] EN

[54] **LACTATE POWDER AND METHOD FOR THE PREPARATION THEREOF**

[54] **POUDRE DE LACTATE ET PROCEDE POUR LA PREPARATION DE CELLE-CI**

[72] ROOZEN, LAMBERTUS HENRICUS ELISABETH, NL

[72] HILHORST, GERRIT ANTHON RENE, NL

[72] KUSUMAWARDANI, HENY, NL

[72] PAPAGEORGIOU, APOSTOLOS, NL

[72] VAN DER VOORT MAARSCHALK, KEES, NL

[71] PURAC BIOCHEM B.V., NL

[85] 2020-04-01

[86] 2018-10-04 (PCT/EP2018/076979)

[87] (WO2019/068798)

[30] EP (17194983.7) 2017-10-05

PCT Applications Entering the National Phase

[21] **3,078,144**
[13] A1

[51] **Int.Cl. G06Q 10/00 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TRACKING GREENHOUSE GAS EMISSIONS ASSOCIATED WITH AN ENTITY**

[54] **SYSTEMES ET PROCEDES DE CONTROLE D'EMISSIONS DE GAZ A EFFET DE SERRE ASSOCIEES A UNE ENTITE**

[72] BRIDGE, DAVID, CA
[72] HOFFMAN, RUSTON JEROEN, CA
[71] DYNACERT INC., CA
[85] 2020-04-01
[86] 2018-10-02 (PCT/CA2018/051235)
[87] (WO2019/068178)
[30] US (62/567,392) 2017-10-03

[21] **3,078,145**
[13] A1

[51] **Int.Cl. A61B 1/00 (2006.01) A61B 1/005 (2006.01) A61B 1/015 (2006.01) A61B 1/06 (2006.01)**

[25] EN
[54] **IMAGING ENDOSCOPE SYSTEM AND ASSOCIATED METHODS**

[54] **SYSTEME D'ENDOSCOPE D'IMAGERIE ET METHODES ASSOCIEES**

[72] WARD-BOOTH, PATRICK, GB
[72] MILLER, ANDREW, GB
[72] MARTIN, PAUL, GB
[72] FIELD, STEPHEN, GB
[72] BRITTON, POLLY, GB
[71] I.Q. ENDOSCOPES LTD, GB
[85] 2020-04-01
[86] 2018-10-05 (PCT/EP2018/077187)
[87] (WO2019/068894)
[30] GB (1716360.1) 2017-10-06
[30] GB (1716361.9) 2017-10-06

[21] **3,078,146**
[13] A1

[51] **Int.Cl. B27N 3/10 (2006.01) B27N 1/02 (2006.01)**

[25] EN
[54] **LIGNIN REINFORCED ADHESION OF WOOD COMPOSITES PANEL PRODUCTS**

[54] **ADHERENCE RENFORCEE PAR DE LA LIGNINE DE PRODUITS DE PANNEAUX COMPOSITES EN BOIS**

[72] ZHANG, YAOLIN, CA
[72] KOUISNI, LAMFEDDAL, CA
[72] PALEOLOGOU, MICHAEL, CA
[72] PARADIS-BOIES, SIMON, CA
[72] RAYMOND, STEPHAN, CA
[72] FENG, MARTIN W., CA
[72] HUANG, ZEEN, CA
[71] FPINNOVATIONS, CA
[85] 2020-04-01
[86] 2018-10-02 (PCT/CA2018/051237)
[87] (WO2019/068180)
[30] US (62/566,776) 2017-10-02

[21] **3,078,147**
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01)**

[25] EN
[54] **A NOVEL METHOD FOR SYNTHESIS OF POLYNUCLEOTIDES USING A DIVERSE LIBRARY OF OLIGONUCLEOTIDES**

[54] **NOUVELLE METHODE DE SYNTHESE DE POLYNUCLEOTIDES A L'AIDE D'UNE BIBLIOTHEQUE DIVERSIFIEE D'OLIGONUCLEOTIDES**

[72] VLADAR, HAROLD PAUL, AT
[72] FERNANDES REDONDO, RODRIGO APARECIDO, GB
[71] RIBBON BIOLABS GMBH, AT
[85] 2020-04-01
[86] 2018-10-15 (PCT/EP2018/078016)
[87] (WO2019/073072)
[30] EP (17196317.6) 2017-10-13

[21] **3,078,148**
[13] A1

[51] **Int.Cl. G06F 16/903 (2019.01) G06F 16/33 (2019.01) G06F 16/35 (2019.01) G06F 16/906 (2019.01)**

[25] EN
[54] **SEARCH METHOD AND APPARATUS, AND NON-TEMPORARY COMPUTER-READABLE STORAGE MEDIUM**

[54] **PROCEDE ET APPAREIL DE RECHERCHE, ET SUPPORT DE STOCKAGE LISIBLE PAR ORDINATEUR NON TEMPORAIRE**

[72] YANG, RONGQUAN, CN
[72] QIN, TINGLI, CN
[71] 10353744 CANADA LTD., CA
[85] 2020-02-07
[86] 2017-12-29 (PCT/CN2017/119820)
[87] (WO2018/133648)
[30] CN (201710042949.1) 2017-01-20

[21] **3,078,149**
[13] A1

[25] EN
[54] **VIDEO LARYNGOSCOPE SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE LARYNGOSCOPE VIDEO**

[72] INGLIS, PETER DOUGLAS COLIN, US
[72] MCGRATH, MATTHEW JOHN ROSS, US
[72] NG, MICHAEL, CN
[71] AIRCRAFT MEDICAL LIMITED, GB
[85] 2020-04-01
[86] 2018-11-01 (PCT/GB2018/053170)
[87] (WO2019/086882)
[30] US (62/581,461) 2017-11-03
[30] US (16/174,026) 2018-10-29

Demandes PCT entrant en phase nationale

[21] **3,078,150**
[13] A1

[51] **Int.Cl. G01N 33/543 (2006.01) G01N 21/64 (2006.01) G01N 33/558 (2006.01) G01N 33/58 (2006.01) G01N 33/94 (2006.01)**

[25] FR

[54] **DIAGNOSTIC MEANS FOR THE DETECTION AND/OR QUANTIFICATION OF A PLURALITY OF ANALYTES PRESENT IN A SAMPLE**

[54] **MOYEN DE DIAGNOSTIC POUR LA DETECTION ET/OU LA QUANTIFICATION D'UNE PLURALITE D'ANALYTES PRESENTS DANS UN ECHANTILLON**

[72] CHABOTTAUX, VINCENT, BE
[72] GLOUDEN, THOMAS, BE
[72] GRANIER, BENOIT, BE
[71] UNISENSOR, BE
[85] 2020-04-01
[86] 2018-10-04 (PCT/EP2018/076993)
[87] (WO2019/068806)
[30] BE (BE2017/5705) 2017-10-04
[30] BE (BE2017/5706) 2017-10-04
[30] BE (BE2017/5707) 2017-10-04
[30] BE (BE2017/5708) 2017-10-04
[30] BE (BE2017/5709) 2017-10-04

[21] **3,078,151**
[13] A1

[51] **Int.Cl. A23L 15/00 (2016.01) A23L 17/00 (2016.01)**

[25] EN

[54] **TEXTURISED SEAFOOD ANALOGUE PRODUCTS, USE OF PEA STARCH AND POTATO STARCH TO REPLACE EGG WHITE AND METHOD OF PREPARATION**

[54] **PRODUITS TEXTURES ANALOGUES AUX FRUITS DE MER, USAGE D'AMIDON DE POIS ET D'AMIDON DE POMME DE BLANC D'UF, ET PROCEDE DE PREPARATION**

[72] DESCAMPS, MARY, BE
[72] GUIOT, LUDIVINE, FR
[71] COSUCRA GROUPE WARCOING S.A., BE
[85] 2020-04-01
[86] 2018-10-19 (PCT/EP2018/078755)
[87] (WO2019/077128)
[30] EP (17197265.6) 2017-10-19

[21] **3,078,152**
[13] A1

[51] **Int.Cl. B65D 85/804 (2006.01)**

[25] EN

[54] **PORTION CAPSULE**

[54] **CAPSULE**

[72] BROCKEL, JENS, DE
[72] BALKAU, WERNER, CH
[71] TCHIBO GMBH, DE
[85] 2020-04-01
[86] 2018-10-15 (PCT/EP2018/078098)
[87] (WO2019/076825)
[30] EP (17196687.2) 2017-10-16

[21] **3,078,154**
[13] A1

[51] **Int.Cl. A61B 10/02 (2006.01) A61B 17/32 (2006.01)**

[25] EN

[54] **CORE BIOPSY NEEDLE**

[54] **AIGUILLE DE MICROBIOPSIE**

[72] PLODINEC, MARIJA, CH
[72] ZWEIFEL, LUDOVIT PAVEL, CH
[72] OERTLE, PHILIPP MAXIMILLIAN, CH

[72] STUMPP, ARMIN, CH
[72] LOPARIC, MARKO, CH
[71] UNIVERSITAT BASEL, CH
[71] ARTIDIS AG, CH
[85] 2020-04-01
[86] 2018-10-05 (PCT/EP2018/077132)
[87] (WO2019/068864)
[30] EP (17195070.2) 2017-10-05

[21] **3,078,155**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **COMBINATION PRODUCT FOR THE TREATMENT OF CANCER**

[54] **PRODUIT DE COMBINAISON POUR LE TRAITEMENT DU CANCER**

[72] VUAGNIAUX, GREGOIRE, CH
[72] WIEDEMANN, NORBERT, CH
[72] ZANNA, CLAUDIO, CH
[71] DEBIOPHARM INTERNATIONAL S.A., CH
[71] MERCK PATENT GMBH, DE
[71] PFIZER INC., US
[85] 2020-04-01
[86] 2018-10-19 (PCT/EP2018/078763)
[87] (WO2019/077132)
[30] US (62/574,384) 2017-10-19
[30] EP (18191980.4) 2018-08-31

[21] **3,078,156**
[13] A1

[51] **Int.Cl. C12P 19/02 (2006.01)**

[25] EN

[54] **PROCESS FOR ENZYMATIC HYDROLYSIS OF LIGNOCELLULOSIC MATERIAL AND FERMENTATION OF SUGARS**

[54] **PROCEDE POUR L'HYDROLYSE ENZYMATIQUE DE MATIERE LIGNOCELLULOSIQUE ET LA FERMENTATION DE SUCRES**

[72] APPELDOORN, MAAIKE, NL
[72] SCHMITZ, JOZEF PETRUS JOHANNES, NL
[72] NOORDAM, BERTUS, NL
[71] DSM IP ASSETS B.V., NL
[85] 2020-04-01
[86] 2018-10-29 (PCT/EP2018/079546)
[87] (WO2019/086369)
[30] EP (17199104.5) 2017-10-30

[21] **3,078,157**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **METHOD FOR GENERATING MULTISPECIFIC ANTIBODIES FROM MONOSPECIFIC ANTIBODIES**

[54] **PROCEDE DE GENERATION D'ANTICORPS MULTISPECIFIQUES A PARTIR D'ANTICORPS MONOSPECIFIQUES**

[72] BRINKMANN, ULRICH, DE
[72] DENGL, STEFAN, DE
[72] GEORGES, GUY, DE
[72] HOFFMANN, EIKE, DE
[72] MAYER, KLAUS, DE
[72] BORMANN, FELIX, DE
[71] F.HOFFMANN-LA ROCHE AG, CH
[85] 2020-04-01
[86] 2018-10-19 (PCT/EP2018/078675)
[87] (WO2019/077092)
[30] EP (17197616.0) 2017-10-20

PCT Applications Entering the National Phase

[21] **3,078,158**
[13] A1

[51] **Int.Cl. C12Q 1/6841 (2018.01)**
[25] EN
[54] **RNA TEMPLATED LIGATION**
[54] **LIGATURE A MATRICE D'ARN**
[72] NILSSON, MATS, SE
[72] KUHNEMUND, MALTE, SE
[72] KRZYWKOWSKI, TOMASZ, SE
[71] CARTANA AB, SE
[85] 2020-04-01
[86] 2018-10-05 (PCT/EP2018/077161)
[87] (WO2019/068880)
[30] GB (1716407.0) 2017-10-06
[30] GB (1718095.1) 2017-11-01
[30] GB (1718098.5) 2017-11-01

[21] **3,078,159**
[13] A1

[51] **Int.Cl. B32B 27/08 (2006.01) B32B 27/28 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01) B32B 27/36 (2006.01) G02B 5/32 (2006.01)**
[25] EN
[54] **PLASTIC FILMS FOR ID DOCUMENTS WITH BETTER LIGHTNESS OF EMBOSSED HOLOGRAMS**
[54] **FILMS PLASTIQUES POUR DOCUMENTS D'IDENTITE, A LUMINOSITE AMELIOREE D'HOLOGRAMMES ESTAMPES**
[72] TZIOVARAS, GEORGIOS, DE
[72] PUDLEINER, HEINZ, DE
[72] PLANKEN, KIRA, DE
[72] JANKE, STEFAN, DE
[72] KOHLER, CHRISTOPH, DE
[71] COVESTRO DEUTSCHLAND AG, DE
[85] 2020-04-01
[86] 2018-12-13 (PCT/EP2018/084663)
[87] (WO2019/121278)
[30] EP (17209900.4) 2017-12-22

[21] **3,078,160**
[13] A1

[51] **Int.Cl. D21C 11/00 (2006.01) D21C 11/04 (2006.01)**
[25] EN
[54] **A METHOD AND A SYSTEM FOR REMOVING HYDROGEN SULPHIDE IONS (HS-) FROM A LIQUOR OF A PULP MILL PROCESS**
[54] **PROCEDE ET SYSTEME D'ELIMINATION D'IONS SULFURE D'HYDROGENE (HS-) D'UNE LIQUEUR D'UN PROCESSUS DE FABRICATION DE PATE A PAPIER**
[72] LAMPINEN, RAMI, FI
[72] VALIMAKI, ERKKI, FI
[72] HILLI, TUOMO, FI
[71] VALMET TECHNOLOGIES OY, FI
[85] 2020-04-01
[86] 2018-10-15 (PCT/FI2018/050739)
[87] (WO2019/077202)
[30] FI (20175925) 2017-10-20

[21] **3,078,161**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01)**
[25] EN
[54] **CELL**
[54] **CELLULE**
[72] PULE, MARTIN, GB
[72] SILLIBOURNE, JAMES, GB
[72] STANCZUK, LUKAS, GB
[71] AUTOLUS LIMITED, GB
[85] 2020-04-01
[86] 2018-10-12 (PCT/GB2018/052931)
[87] (WO2019/073248)
[30] GB (1716728.9) 2017-10-12

[21] **3,078,162**
[13] A1

[51] **Int.Cl. F04B 1/20 (2020.01)**
[25] FR
[54] **ROTARY BARREL PUMP HAVING SEPARATE GUIDING MEANS AND CENTERING MEANS FOR THE BARREL**
[54] **POMPE A BARILLET ROTATIF AVEC MOYENS DE GUIDAGE ET DE CENTRAGE DU BARILLET DISTINCTS**
[72] TRICARD, JEAN, FR
[72] TROST, JULIEN, FR
[72] PAGNIER, PHILIPPE, FR
[71] IFP ENERGIES NOUVELLES, FR
[85] 2020-04-01
[86] 2018-10-08 (PCT/EP2018/077337)
[87] (WO2019/076670)
[30] FR (1759897) 2017-10-20

[21] **3,078,163**
[13] A1

[51] **Int.Cl. A61K 31/53 (2006.01) A61P 9/00 (2006.01)**
[25] EN
[54] **METHODS OF TREATING HEART FAILURE WITH PRESERVED EJECTION FRACTION**
[54] **METHODES DE TRAITEMENT D'UNE INSUFFISANCE CARDIAQUE AVEC FRACTION D'EJECTION PRESERVEE**
[72] HALLAKOU-BOZEC, SOPHIE, FR
[71] POXEL, FR
[85] 2020-04-01
[86] 2018-10-02 (PCT/IB2018/057648)
[87] (WO2019/069230)
[30] US (62/566,668) 2017-10-02

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[21] **3,078,164**
[13] A1

[51] **Int.Cl. C07D 401/06 (2006.01) A61K 31/4709 (2006.01) A61P 25/00 (2006.01) C07D 215/48 (2006.01) C07D 235/06 (2006.01) C07D 401/10 (2006.01) C07D 401/14 (2006.01) C07D 403/10 (2006.01) C07D 405/10 (2006.01) C07D 405/14 (2006.01) C07D 413/10 (2006.01) C07D 417/10 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **POLYCYCLIC AMIDES AS MUSCARINIC M1 RECEPTOR POSITIVE ALLOSTERIC MODULATORS**

[54] **AMIDES POLYCYCLIQUES UTILISES EN TANT QUE MODULATEURS ALLOSTERIQUES POSITIFS DU RECEPTEUR MUSCARINIQUE M1**

[72] NIROGI, RAMAKRISHNA, IN

[72] MOHAMMED, ABDUL RASHEED, IN

[72] SHINDE, ANIL KARBHARI, IN

[72] GAGGINAPALLY, SHANKAR REDDY, IN

[72] KANCHARLA, DURGA MALLESHWARI, IN

[72] PANDEY, SANTOSH KUMAR, IN

[72] ABRAHAM, RENNY, IN

[72] JASTI, VENKATESWARLU, IN

[71] SUVEN LIFE SCIENCES LIMITED, IN

[85] 2020-04-01

[86] 2018-10-26 (PCT/IB2018/058372)

[87] (WO2019/082140)

[30] IN (201741038173) 2017-10-27

[21] **3,078,165**
[13] A1

[51] **Int.Cl. B29C 48/35 (2019.01) B29C 48/18 (2019.01) B29C 48/49 (2019.01) B29C 48/305 (2019.01) B29D 30/00 (2006.01)**

[25] FR

[54] **HEAD FOR EXTRUDING A COMPLEX PROFILE SECTION FORMED FROM JUXTAPOSED PROFILE SECTIONS**

[54] **TETE D'EXTRUSION D'UN PROFILE COMPLEXE FORME DE PROFILES JUXTAPOSES**

[72] ROUBY, MICKAEL, FR

[72] RABHI, MOHAMED, FR

[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR

[85] 2020-04-01

[86] 2018-10-19 (PCT/EP2018/078679)

[87] (WO2019/081362)

[30] FR (17/60146) 2017-10-27

[21] **3,078,166**
[13] A1

[51] **Int.Cl. C23G 1/36 (2006.01) B01D 61/14 (2006.01) C23G 1/08 (2006.01) C23G 3/02 (2006.01)**

[25] EN

[54] **METHOD FOR PICKLING STEEL SHEETS**

[54] **PROCEDE DE DECAPAGE DE TOLES D'ACIER**

[72] NAVES ARNALDOS, ANDREA, ES

[72] PIEDRA FERNANDEZ, ELENA, ES

[72] MENENDEZ DELMIRO, VANESA, ES

[72] LOPEZ GONZALEZ, SALOME, ES

[71] ARCELORMITTAL, LU

[85] 2020-04-01

[86] 2018-12-20 (PCT/IB2018/060407)

[87] (WO2019/123353)

[30] IB (PCT/IB2017/058271) 2017-12-21

[21] **3,078,168**
[13] A1

[51] **Int.Cl. E21B 10/42 (2006.01) E21B 10/54 (2006.01)**

[25] EN

[54] **EARTH-BORING TOOLS HAVING A GAUGE INSERT CONFIGURED FOR REDUCED BIT WALK AND METHOD OF DRILLING WITH SAME**

[54] **OUTILS DE FORAGE DU SOL COMPORTANT UN INSERT DE JAUGE CONCU POUR PERMETTRE UNE MARCHE DE TREPAN REDUITE, ET PROCEDE DE FORAGE FAISANT APPEL AUXDITS OUTILS**

[72] GRIMES, ROBERT E., US

[72] RUSSELL, STEVEN CRAIG, US

[72] EVANS, KENNETH R., US

[72] SLAVENS, STEPHEN MANSON, US

[72] SPENCER, REED W., US

[71] BAKER HUGHES, A GE COMPANY, LLC, US

[85] 2020-03-30

[86] 2018-09-28 (PCT/US2018/053577)

[87] (WO2019/068005)

[30] US (62/565,375) 2017-09-29

[21] **3,078,169**
[13] A1

[51] **Int.Cl. B60C 23/04 (2006.01) B60C 23/20 (2006.01)**

[25] FR

[54] **METHOD FOR DETERMINING A RECOMMENDED INFLATION PRESSURE FOR AN AIRCRAFT TYRE, AND ASSOCIATED MAINTENANCE METHODS**

[54] **PROCEDE DE DETERMINATION D'UNE PRESSION PRECONISEE DE GONFLAGE POUR PNEU AERONEF, ET PROCEDES DE MAINTENANCE ASSOCIES**

[72] ARNOUX, MICHAEL, FR

[72] NEBA, ERIC CARIN, FR

[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR

[71] SAFRAN, FR

[71] SAFRAN LANDIND SYSTEMS, FR

[71] SAFRAN ELECTRONICS & DEFENSE, FR

[85] 2020-04-01

[86] 2018-10-26 (PCT/EP2018/079477)

[87] (WO2019/081746)

[30] FR (1760161) 2017-10-27

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[21] **3,078,170**
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01) C07K 14/81 (2006.01)**
[25] EN
[54] **NOVEL COMPOUNDS AND THEIR USE AS SELECTIVE INHIBITORS OF CASPASE-2**
[54] **NOUVEAUX COMPOSES ET LEUR UTILISATION EN TANT QU'INHIBITEURS SELECTIFS DE CASPASE-2**
[72] JACOTOT, ETIENNE, FR
[72] BOSCH, ELODIE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR
[71] SORBONNE UNIVERSITE, FR
[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR
[71] UNIVERSITE DE PARIS, FR
[85] 2020-03-26
[86] 2018-09-26 (PCT/EP2018/076178)
[87] (WO2019/068538)
[30] EP (17306270.4) 2017-09-26

[21] **3,078,171**
[13] A1

[51] **Int.Cl. A61F 2/16 (2006.01) G02C 7/06 (2006.01)**
[25] EN
[54] **TRIFOCAL ARTIFICIAL OPHTHALMIC LENS AND METHOD FOR ITS PRODUCTION**
[54] **LENTILLE OPHTALMIQUE ARTIFICIELLE TRIFOCAL, ET PROCEDE POUR SA FABRICATION**
[72] KONTUR, LASZLO FERENC, HU
[72] BERCSENYI, DANIEL, HU
[72] ERDEI, GABOR, HU
[72] PAPDI, BENCE, HU
[71] MEDICONTUR ORVOSTECHNIKAI KFT., HU
[85] 2020-04-01
[86] 2018-12-28 (PCT/HU2018/050054)
[87] (WO2019/130031)
[30] HU (P1700548) 2017-12-28

[21] **3,078,172**
[13] A1

[51] **Int.Cl. B32B 13/08 (2006.01) B32B 37/14 (2006.01) E04B 9/04 (2006.01)**
[25] EN
[54] **GYPSON BOARD MANUFACTURING METHOD AND GYPSON BOARD**
[54] **PROCEDE DE FABRICATION DE PLAQUE DE PLATRE ET PLAQUE DE PLATRE**
[72] TSUNO, NORIO, JP
[72] AMIKURA, SHUNJI, JP
[72] ISHIBASHI, SEIGO, JP
[71] YOSHINO GYPSON CO., LTD., JP
[85] 2020-04-01
[86] 2018-05-31 (PCT/JP2018/021028)
[87] (WO2019/082433)
[30] JP (2017-204776) 2017-10-23

[21] **3,078,173**
[13] A1

[51] **Int.Cl. C07D 277/82 (2006.01) C07D 417/04 (2006.01) C07D 417/10 (2006.01) C07D 513/04 (2006.01)**
[25] EN
[54] **BENZOTHAZOL COMPOUNDS AND METHODS USING THE SAME FOR TREATING NEURODEGENERATIVE DISORDERS**
[54] **COMPOSES BENZOTHAZOL ET METHODES D'UTILISATION DE CEUX-CI POUR TRAITER DES TROUBLES NEURODEGENERATIFS**
[72] LEE, JINHWA, KR
[72] JO, SUYEON, KR
[72] PARK, A YEONG, KR
[72] LEE, GWIBIN, KR
[72] KIM, JAE EUN, KR
[72] KIM, MISOO, KR
[72] JUNG, GYOONSEUNG, KR
[72] LIM, SEUNG MOOK, KR
[72] LIM, KEONSEUNG, KR
[72] LEE, MINWOO, KR
[72] YANG, HEEKYOUNG, KR
[72] KIM, HYONAM, KR
[72] KIM, HYEONGJUN, KR
[72] LI, WANJUN, CN
[72] FAN, MINGZHU, CN
[71] 1ST BIOTHERAPEUTICS, INC., KR
[85] 2020-04-01
[86] 2018-10-01 (PCT/KR2018/011660)
[87] (WO2019/070093)
[30] US (62/566,649) 2017-10-02
[30] US (62/666,800) 2018-05-04
[30] US (62/696,432) 2018-07-11

[21] **3,078,174**
[13] A1

[51] **Int.Cl. B27L 5/08 (2006.01) B27D 1/00 (2006.01) B65G 17/32 (2006.01)**
[25] EN
[54] **VENEER SHEET CONVEYING APPARATUS AND METHOD FOR CONTROLLING THE SAME**
[54] **DISPOSITIF DE TRI DE PLACAGE, DISPOSITIF DE TRANSPORT DE PLACAGE EQUIPE DUDIT DISPOSITIF ET PROCEDE DE TRI DE PLACAGE**
[72] IKEMOTO, FUMITOSHI, JP
[72] YAMADA, HIDETAKA, JP
[71] MEINAN MACHINERY WORKS, INC., JP
[85] 2020-04-01
[86] 2018-08-11 (PCT/JP2018/030163)
[87] (WO2020/035890)

[21] **3,078,175**
[13] A1

[51] **Int.Cl. C12P 1/00 (2006.01) C12N 5/09 (2010.01) A61K 35/13 (2015.01) A61P 35/00 (2006.01)**
[25] EN
[54] **METHOD FOR PREPARING CELL EXTRACT COMPONENT OR COMPOSITION HAVING CYTOTOXIC ACTIVITY**
[54] **PROCEDE DE PREPARATION DE COMPOSITION OU DE COMPOSANT EXTRAIT DE CELLULE AYANT UNE ACTIVITE DE CYTOTOXICITE**
[72] TAJIMA, TOMOYUKI, JP
[72] KONDO, YOSHIFUSA, JP
[71] MEDICAL CORPORATION ICHIKAWA CLINIC, JP
[85] 2020-04-01
[86] 2018-10-05 (PCT/JP2018/037430)
[87] (WO2019/070069)
[30] JP (2017-194988) 2017-10-05

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[21] **3,078,176**
[13] A1

[51] **Int.Cl. F42B 3/087 (2006.01) F42B 3/02 (2006.01) F42B 3/28 (2006.01) F42D 1/02 (2006.01) F42B 33/02 (2006.01)**

[25] EN

[54] **FOLDING CONTAINER FOR BLASTINGS, ANTISTATIC WITH CAPACITY TO BE PARTIALLY COMPRESSED INCLUDING ITS PARTS**

[54] **CONTENANT PLIABLE POUR EXPLOSIONS, ANTISTATIQUE CAPABLE DE SE COMPRIMER PARTIELLEMENT ET SES ACCESSOIRES**

[72] NOVO MERCADO, PEDRO AUGUSTO, MX

[71] FABRISER, S.A. DE C.V., MX

[85] 2020-04-01

[86] 2018-09-21 (PCT/MX2018/000096)

[87] (WO2019/070110)

[30] MX (MX/a/2017/012724) 2017-10-03

[21] **3,078,177**
[13] A1

[51] **Int.Cl. B01D 71/68 (2006.01) H01M 8/04291 (2016.01) B01D 69/08 (2006.01) B01D 71/44 (2006.01) D01F 6/76 (2006.01) H01M 8/10 (2016.01)**

[25] EN

[54] **METHOD FOR PRODUCING POLYPHENYLSULFONE HOLLOW FIBER MEMBRANE FOR HUMIDIFYING MEMBRANES**

[54] **PROCEDE DE FABRICATION DE MEMBRANE CAPILLAIRE DE POLYPHENYLSULFONE POUR FILM HUMIDIFIANT**

[72] WATANABE, KENSUKE, JP

[72] SATO, TAKATOSHI, JP

[71] NOK CORPORATION, JP

[85] 2020-04-01

[86] 2018-09-20 (PCT/JP2018/034724)

[87] (WO2019/082562)

[30] JP (2017-208226) 2017-10-27

[21] **3,078,179**
[13] A1

[51] **Int.Cl. B01J 20/00 (2006.01) G01N 30/00 (2006.01)**

[25] EN

[54] **SAMPLE CLEAN UP DEVICE AND METHOD**

[54] **DISPOSITIF ET PROCEDE DE NETTOYAGE D'ECHANTILLON**

[72] DAVIES, GEOFF, GB

[72] SENIOR, ADAM, GB

[72] WILLIAMS, LEE, GB

[72] JONES, RHYSS, GB

[71] BIOTAGE AB, SE

[85] 2020-04-01

[86] 2018-10-17 (PCT/SE2018/051053)

[87] (WO2019/078773)

[30] EP (17197060.1) 2017-10-18

[21] **3,078,180**
[13] A1

[51] **Int.Cl. A61K 31/20 (2006.01) A61K 31/015 (2006.01) A61K 31/045 (2006.01) A61K 31/05 (2006.01) A61K 31/085 (2006.01) A61K 31/12 (2006.01) A61K 31/122 (2006.01) A61K 31/165 (2006.01) A61K 31/353 (2006.01) A61K 31/475 (2006.01) A61K 31/7048 (2006.01) A61K 36/18 (2006.01)**

[25] EN

[54] **HERBAL COMPOSITIONS WITH IMPROVED BIOAVAILABILITY**

[54] **COMPOSITIONS A BASE D'HERBES AYANT UNE BIODISPONIBILITE AMELIOREE**

[72] LEONE-BAY, ANDREA, US

[72] WESNER, GREGORY, US

[71] RECEPTOR HOLDINGS, INC., US

[85] 2020-04-01

[86] 2018-10-05 (PCT/US2018/054728)

[87] (WO2019/071211)

[30] US (62/568,678) 2017-10-05

[21] **3,078,181**
[13] A1

[51] **Int.Cl. F16L 58/02 (2006.01) F16L 13/02 (2006.01)**

[25] EN

[54] **DEVICE FOR THE INTERNAL MONOLITHIC INSULATION OF A WELDED PIPELINE JOINT**

[54] **DISPOSITIF D'ISOLATION MONOBLOC INTERNE DE CONNEXION PAR SOUDURE DE CONDUIT**

[72] CHUIKO, ALEKSANDR GEORGIEVICH, RU

[71] CHUIKO, ALEKSANDR GEORGIEVICH, RU

[85] 2020-04-01

[86] 2018-06-05 (PCT/RU2018/000366)

[87] (WO2019/070153)

[30] RU (2017134087) 2017-10-02

[21] **3,078,183**
[13] A1

[51] **Int.Cl. A01N 1/02 (2006.01) A61K 36/185 (2006.01) A61K 36/72 (2006.01) C12N 5/00 (2006.01) F25D 31/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR NATURAL CRYOPROTECTANTS FOR PRESERVATION OF CELLS**

[54] **SYSTEMES ET PROCEDES D'AGENTS CRYOPROTECTEURS D'ORIGINE NATURELLE DESTINES A LA CONSERVATION DE CELLULES**

[72] HERICKHOFF, LISA A., US

[72] SHEPHERD, MYLES, US

[71] MEMBRANE PROTECTIVE TECHNOLOGIES, INC., US

[85] 2020-04-01

[86] 2017-10-04 (PCT/US2017/055206)

[87] (WO2018/067747)

[30] US (62/404,034) 2016-10-04

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[21] **3,078,184**
[13] A1

[51] **Int.Cl. A61K 8/49 (2006.01) A61K 8/67 (2006.01) A61Q 19/02 (2006.01)**
[25] EN
[54] **A PERSONAL CARE COMPOSITION**
[54] **COMPOSITION DE SOINS PERSONNELS**
[72] DUTTA, MAITREYEE, IN
[72] NAIR, NIRMALA SANTOSH, IN
[72] RAJKUMAR, SAVITHA, IN
[71] UNILEVER PLC, GB
[85] 2020-02-03
[86] 2018-07-09 (PCT/EP2018/068480)
[87] (WO2019/029922)
[30] EP (17185152.0) 2017-08-07

[21] **3,078,187**
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) C12N 5/0783 (2010.01) C12Q 1/6809 (2018.01) A61K 35/38 (2015.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C12N 1/20 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **BACTERIAL AND CELL COMPOSITIONS FOR THE TREATMENT OF COLORECTAL CANCER AND METHODS FOR ASSESSING A PROGNOSIS FOR PATIENTS HAVING THE SAME**
[54] **COMPOSITIONS BACTERIENNES ET CELLULAIRES POUR LE TRAITEMENT DU CANCER COLORECTAL ET METHODES D'EVALUATION D'UN PRONOSTIC POUR LES PATIENTS ATTEINTS DE CANCER COLORECTAL**
[72] ZITVOGEL, LAURENCE, FR
[72] ROBERTI, MARIA PAULA, FR
[71] INSTITUT GUSTAVE ROUSSY, FR
[85] 2020-04-01
[86] 2018-10-31 (PCT/EP2018/079878)
[87] (WO2019/086540)
[30] EP (17306509.5) 2017-10-31

[21] **3,078,191**
[13] A1

[51] **Int.Cl. C07D 498/18 (2006.01) A61K 31/436 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01) A61P 9/10 (2006.01) A61P 9/12 (2006.01) A61P 11/00 (2006.01) A61P 13/12 (2006.01) A61P 19/00 (2006.01) A61P 19/02 (2006.01) A61P 19/10 (2006.01) A61P 25/02 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 31/10 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07F 9/32 (2006.01)**
[25] EN
[54] **RAPAMYCIN DERIVATIVES**
[54] **DERIVES DE RAPAMYCINE**
[72] BONAZZI, SIMONE, US
[72] CONNOLLY, MICHAEL, US
[72] GLASS, DAVID JONATHAN, US
[72] MIHALIC, MANUEL, CH
[72] PATTERSON, ANDREW WILLIAM, US
[72] ROGGO, SILVIO, CH
[72] SHAVLAKADZE, TEA, US
[71] NOVARTIS AG, CH
[85] 2020-03-31
[86] 2018-09-25 (PCT/IB2018/057422)
[87] (WO2019/064182)
[30] US (62/563,312) 2017-09-26

[21] **3,078,192**
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61F 2/24 (2006.01)**
[25] EN
[54] **LOCALIZED FUSION OF NATIVE LEAFLETS USING ACTIVATED ADHESIVE**
[54] **FUSION LOCALISEE DE VALVES NATIVES A L'AIDE D'UN ADHESIF ACTIVE**
[72] CAO, HENGCHU, US
[72] SHEN, SHIH-HWA, US
[72] HSU, HOLLY KUNG JUNG, US
[72] LAI, KRISTAL YA-FONG, US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2020-03-31
[86] 2018-10-16 (PCT/US2018/056016)
[87] (WO2019/079252)
[30] US (62/575,252) 2017-10-20

[21] **3,078,193**
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 50/02 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD OF IDENTIFICATION AND AUTHENTICATION FOR TRACING AGRICULTURAL ASSETS, IDENTIFICATION ELEMENT FOR SECURE IDENTIFICATION OF AGRICULTURAL ASSETS AND CORRESPONDING COMPUTER PROGRAMS**
[54] **SYSTEME ET PROCEDE D'IDENTIFICATION ET D'AUTHENTIFICATION POUR RETRACER DES BIENS AGRICOLES, ELEMENT D'IDENTIFICATION POUR L'IDENTIFICATION SECURISEE DE BIENS AGRICOLES ET PROGRAMMES INFORMATIQUES CORRESPONDANTS**
[72] MIYANO NETO, ROBERTO, BR
[72] PONTE SOARES, MARCOS, CH
[71] SICPA HOLDING SA, CH
[85] 2020-04-01
[86] 2018-11-14 (PCT/EP2018/081255)
[87] (WO2019/105739)
[30] EP (PCT/EP2017/080735) 2017-11-28

[21] **3,078,194**
[13] A1

[51] **Int.Cl. A61K 31/7048 (2006.01) A61K 35/741 (2015.01) A23L 33/135 (2016.01) C12Q 1/6809 (2018.01) C12Q 1/689 (2018.01) A61K 36/63 (2006.01)**
[25] EN
[54] **METHOD OF SELECTING A PROBIOTIC**
[54] **PROCEDE DE SELECTION D'UN PROBIOTIQUE**
[72] DUBOUX, STEPHANE, CH
[72] HORCAJADA, MARIE NOELLE, FR
[72] POQUET, LAURE, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2020-04-01
[86] 2018-11-08 (PCT/EP2018/080545)
[87] (WO2019/092066)
[30] EP (17200578.7) 2017-11-08

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[21] **3,078,195**
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/415 (2006.01) A61K 31/4155 (2006.01) A61K 31/4164 (2006.01) A61K 31/4192 (2006.01) A61K 31/4196 (2006.01) A61K 31/4439 (2006.01) A61K 31/454 (2006.01) A61K 31/5377 (2006.01) C07D 231/18 (2006.01) C07D 249/04 (2006.01) C07D 249/12 (2006.01) C07D 401/06 (2006.01) C07D 401/12 (2006.01) C07D 403/06 (2006.01) C07D 405/04 (2006.01) C07D 405/06 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 413/06 (2006.01)**

[25] EN
[54] **NOVEL SULFONAMIDE CARBOXAMIDE COMPOUNDS**
[54] **NOUVEAUX COMPOSES DE SULFONAMIDE CARBOXAMIDE**
[72] COOPER, MATTHEW, GB
[72] MILLER, DAVID, GB
[72] MACLEOD, ANGUS, GB
[72] THOM, STEPHEN, GB
[72] ST-GALLAY, STEPHEN, GB
[72] SHANNON, JONATHAN, GB
[72] STRUTT, IAN, GB
[71] INFLAZOME LIMITED, IE
[85] 2020-04-01
[86] 2018-11-09 (PCT/EP2018/080737)
[87] (WO2019/092170)
[30] GB (1718563.8) 2017-11-09
[30] GB (1721726.6) 2017-12-22
[30] GB (1721727.4) 2017-12-22
[30] GB (1810983.5) 2018-07-04
[30] GB (1813281.1) 2018-08-15

[21] **3,078,196**
[13] A1

[51] **Int.Cl. A61K 31/4152 (2006.01) A61P 25/28 (2006.01)**

[25] EN
[54] **METHOD FOR TREATING AMYOTROPHIC LATERAL SCLEROSIS AND METHOD FOR SUPPRESSING PROGRESS OF AMYOTROPHIC LATERAL SCLEROSIS**
[54] **METHODE PERMETTANT DE TRAITER LA SCLEROSE LATERALE AMYOTROPHIQUE ET METHODE PERMETTANT D'EMPECHER LA PROGRESSION DE LA SCLEROSE LATERALE AMYOTROPHIQUE**
[72] MERRILL, CHARLOTTE, US
[72] AGNESE, WENDY, US
[72] ATASSI, NAZEM, US
[72] GRABOWSKY, TARA, US
[72] SAKATA, TAKESHI, JP
[71] MITSUBISHI TANABE PHARMA CORPORATION, JP
[85] 2020-04-01
[86] 2018-10-04 (PCT/US2018/054299)
[87] (WO2019/070932)
[30] US (62/567,873) 2017-10-04
[30] US (PCT/US2018/020184) 2018-02-28

[21] **3,078,198**
[13] A1

[51] **Int.Cl. G21C 15/02 (2006.01) G21C 1/03 (2006.01)**

[25] EN
[54] **POOL TYPE LIQUID METAL FAST SPECTRUM REACTOR USING A PRINTED CIRCUIT HEAT EXCHANGER CONNECTION TO THE POWER CONVERSION SYSTEM**
[54] **REACTEUR A SPECTRE RAPIDE A METAL LIQUIDE DE TYPE PISCINE UTILISANT UNE CONNEXION D'ECHANGEUR DE CHALEUR A CIRCUIT IMPRIME AU SYSTEME DE CONVERSION DE PUISSANCE**
[72] HARKNESS, ALEXANDER W., US
[72] STANSBURY, CORY A., US
[71] WESTINGHOUSE ELECTRIC COMPANY LLC, US
[85] 2020-03-31
[86] 2018-10-02 (PCT/US2018/053897)
[87] (WO2019/083695)
[30] US (62/566,980) 2017-10-02
[30] US (62/568,486) 2017-10-05

[21] **3,078,199**
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01) G16H 50/20 (2018.01) G16H 50/50 (2018.01)**

[25] EN
[54] **SEARCHING SYSTEM FOR BIOSIGNATURE EXTRACTION AND BIOMARKER DISCOVERY**
[54] **SYSTEME DE RECHERCHE POUR EXTRACTION DE BIOSIGNATURE ET DECOUVERTE DE BIOMARQUEURS**
[72] STERN, EMILY, US
[72] SILBERSWEIG, DAVID, US
[72] PAN, HONG, US
[71] THE BRIGHAM AND WOMEN'S HOSPITAL, INC., US
[85] 2020-04-01
[86] 2018-10-03 (PCT/US2018/054218)
[87] (WO2019/070887)
[30] US (62/567,608) 2017-10-03

[21] **3,078,200**
[13] A1

[51] **Int.Cl. A23L 27/30 (2016.01) A23L 2/60 (2006.01) C07H 15/256 (2006.01)**

[25] EN
[54] **STEVIOLE GLYCOSIDE SOLUBILITY ENHANCERS**
[54] **AMPLIFICATEURS DE SOLUBILITE DE GLYCOSIDE DE STEVIOL**
[72] KHARE, ANIL BHAGWAN, US
[72] YANG, ZHENG, US
[71] CARGILL, INCORPORATED, US
[85] 2020-04-01
[86] 2018-10-08 (PCT/US2018/054848)
[87] (WO2019/071254)
[30] US (62/569,279) 2017-10-06

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[21] **3,078,202**
[13] A1

[51] **Int.Cl. A61B 17/17 (2006.01) A61B 17/72 (2006.01) A61B 17/92 (2006.01)**
[25] EN
[54] **SELF-RETAINING NAIL TO INSERTION**
[54] **INTERFACE CLOU D'AUTO-RETENUE-POIGNEE D'INTRODUCTION**
[72] ABEDIAN, REZA, CH
[72] DUTOIT, CHRISTOF, CH
[72] BUETTLER, MARKUS, CH
[72] DEFOSSEZ, HENRI, CH
[72] WAMPFLER, SIMON, CH
[72] SAURER, ALAIN, CH
[72] PFAFF, REMO, CH
[72] BERNHARD, HANS, CH
[71] DEPUY SYNTHES PRODUCTS, INC., US
[85] 2020-04-01
[86] 2018-10-09 (PCT/US2018/054947)
[87] (WO2019/074889)
[30] US (15/729,256) 2017-10-10

[21] **3,078,208**
[13] A1

[51] **Int.Cl. B01D 3/10 (2006.01)**
[25] EN
[54] **PHYTOCHEMICAL EXTRACTION SYSTEM AND METHODS TO EXTRACT PHYTOCHEMICALS FROM PLANTS INCLUDING PLANTS OF THE FAMILY CANNABACEAE SENSU STRICTO**
[54] **SYSTEME D'EXTRACTION PHYTOCHIMIQUE ET PROCEDES D'EXTRACTION DE PRODUITS PHYTOCHIMIQUES PRESENTS DANS LES PLANTES, Y COMPRIS CELLES DE LA FAMILLE DES CANNABACEAE STRICTO SENSU**
[72] LOPA, FRANK AUGUSTINO, US
[71] PRIYA NATURALS, INC., US
[85] 2020-02-05
[86] 2018-04-10 (PCT/US2018/026862)
[87] (WO2019/032150)
[30] US (15/669,907) 2017-08-05

[21] **3,078,209**
[13] A1

[51] **Int.Cl. A61M 15/00 (2006.01) A61K 9/00 (2006.01) A61K 9/12 (2006.01) A61K 9/72 (2006.01) A61M 11/00 (2006.01) A61M 11/06 (2006.01) A61M 11/08 (2006.01)**
[25] EN
[54] **DRUG DELIVERY SYSTEMS AND RELATED METHODS**
[54] **SYSTEMES D'ADMINISTRATION DE MEDICAMENTS ET PROCEDES ASSOCIES**
[72] SHERWOOD, JILL, US
[72] DEATON, DAN, US
[72] HIMEL, DENNY, US
[72] FOSTER, BRIAN, US
[72] FERRITER, MATTHEW, US
[72] DWIVEDI, SARVAJNA KUMAR, US
[72] KING, MICHAEL L., US
[72] HAMLIN, FRED, US
[72] SHEEHY, ROBERT V., JR., US
[72] LIBBY, GERARD, US
[72] NEGI, VIPUL, US
[72] WOODARD, KYLE, US
[71] PEARL THERAPEUTICS, INC., US
[85] 2020-04-01
[86] 2018-10-05 (PCT/US2018/054721)
[87] (WO2019/074799)
[30] US (62/569,901) 2017-10-09
[30] US (62/639,911) 2018-03-07

[21] **3,078,210**
[13] A1

[51] **Int.Cl. A23L 2/56 (2006.01) C07H 15/256 (2006.01)**
[25] EN
[54] **SENSORY MODIFIER COMPOUNDS**
[54] **COMPOSES MODIFICATEURS SENSORIELS**
[72] GASPARD, DAN S., US
[72] MORTENSON, MICHAEL ALAN, US
[72] SARANGAPANI, RAMA KRISHNA, US
[72] SCHMELZER, WADE NOLAN, US
[72] ZARTH, ADAM T., US
[72] MARASCO, ERIN KATHLEEN, US
[71] CARGILL, INCORPORATED, US
[85] 2020-04-01
[86] 2018-10-05 (PCT/US2018/054743)
[87] (WO2019/071220)
[30] US (62/569,279) 2017-10-06
[30] US (62/676,722) 2018-05-25

[21] **3,078,211**
[13] A1

[51] **Int.Cl. F42B 30/08 (2006.01) B64C 27/10 (2006.01) B64C 39/02 (2006.01) F42B 10/00 (2006.01) F42B 15/01 (2006.01)**
[25] EN
[54] **REMOTELY CONTROLLABLE AERONAUTICAL ORDNANCE**
[54] **DISPOSITIF PYROTECHNIQUE AERONAUTIQUE POUVANT ETRE COMMANDE A DISTANCE**
[72] HILL, JEFFREY, US
[71] OVERWERX LTD., GB
[85] 2020-04-01
[86] 2018-10-05 (PCT/US2018/054767)
[87] (WO2019/177664)
[30] US (62/568,518) 2017-10-05
[30] US (62/726,976) 2018-09-04

[21] **3,078,214**
[13] A1

[51] **Int.Cl. A23L 2/56 (2006.01) C07H 15/256 (2006.01)**
[25] EN
[54] **STEVIOLE GLYCOSIDE COMPOSITIONS WITH REDUCED SURFACE TENSION**
[54] **COMPOSITIONS DE GLYCOSIDE DE STEVIOL AYANT UNE TENSION SUPERFICIELLE REDUITE**
[72] GASPARD, DAN S., US
[72] STEINBACH, ADAM JOHN, US
[72] ZARTH, ADAM T., US
[71] CARGILL, INCORPORATED, US
[85] 2020-04-01
[86] 2018-10-08 (PCT/US2018/054804)
[87] (WO2019/071250)
[30] US (62/569,279) 2017-10-06
[30] US (62/676,722) 2018-05-25

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[21] **3,078,218**
[13] A1

[51] **Int.Cl. C12N 15/06 (2006.01) A61K 47/68 (2017.01) A61K 31/5513 (2006.01) A61K 35/00 (2006.01) A61K 39/395 (2006.01) C07D 487/04 (2006.01) C07K 16/00 (2006.01) C07K 16/30 (2006.01) C12N 5/10 (2006.01) C12P 21/08 (2006.01)**

[25] EN
[54] **ANTIBODY-DERIVATIVE CONJUGATE OF PYRROLOBENZODIAZEPINE**

[54] **CONJUGUE ANTICORPS-DERIVE DE PYRROLOBENZODIAZEPINE**

[72] TODA, NARIHIRO, JP
[72] OTA, YUSUKE, JP
[72] DOI, FUMINAO, JP
[72] MEGURO, MASAKI, JP
[72] HAYAKAWA, ICHIRO, JP
[72] ASHIDA, SHINJI, JP
[72] MASUDA, TAKESHI, JP
[72] NAKADA, TAKASHI, JP
[72] IWAMOTO, MITSUHIRO, JP
[72] HARADA, NAOYA, JP
[72] TERAUCHI, TOMOKO, JP
[72] OKAJIMA, DAISUKE, JP
[72] NAKAMURA, KENSUKE, JP
[72] UCHIDA, HIROAKI, JP
[72] HAMADA, HIROFUMI, JP
[71] DAIICHI SANKYO COMPANY, LIMITED, JP
[85] 2020-03-27
[86] 2018-09-28 (PCT/JP2018/036252)
[87] (WO2019/065964)
[30] JP (2017-190713) 2017-09-29

[21] **3,078,220**
[13] A1

[51] **Int.Cl. B65G 47/84 (2006.01) B65G 47/22 (2006.01)**

[25] EN
[54] **APPARATUS FOR ALIGNING BOX-SHAPED ARTICLES OF VARIOUS SIZES ON A CONVEYOR BELT, PRINTING STATION, READING STATION, AND LABELLING STATION INCLUDING SAME**

[54] **APPAREIL D'ALIGNEMENT D'ARTICLES EN FORME DE BOITE DE DIVERSES TAILLES SUR UNE BANDE TRANSPORTEUSE, STATION D'IMPRESSION, STATION DE LECTURE ET STATION D'ETIQUETAGE LE COMPRENANT**

[72] MULLER, URS, CH
[72] SCHERER, TOBIAS, CH
[71] SICPA HOLDING SA, CH
[85] 2020-04-01
[86] 2018-11-21 (PCT/EP2018/082021)
[87] (WO2019/101772)
[30] EP (17202891.2) 2017-11-21

[21] **3,078,221**
[13] A1

[51] **Int.Cl. C22C 38/24 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/22 (2006.01)**

[25] EN
[54] **STAINLESS STEEL, A PREALLOYED POWDER OBTAINED BY ATOMIZING THE STEEL AND USE OF THE PREALLOYED POWDER**

[54] **ACIER INOXYDABLE, POUDRE PRE-ALLIEE OBTENUE PAR ATOMISATION DE CET ACIER ET UTILISATION DE CETTE POUDRE PRE-ALLIEE**

[72] TIDESTEN, MAGNUS, SE
[72] SJOQVIST PERSSON, EVA, SE
[72] BRANNBACKA, MAGNUS, SE
[71] UDDEHOLMS AB, SE
[85] 2020-04-01
[86] 2018-10-04 (PCT/SE2018/051019)
[87] (WO2019/070189)
[30] SE (1751230-2) 2017-10-05

[21] **3,078,223**
[13] A1

[51] **Int.Cl. A61K 39/04 (2006.01) A61K 39/39 (2006.01)**

[25] EN
[54] **LIPOSOMAL FORMULATIONS COMPRISING SAPONIN AND METHODS OF USE**

[54] **FORMULATIONS LIPOSOMALES COMPRENANT DE LA SAPONINE ET PROCEDES D'UTILISATION**

[72] FOX, CHRISTOPHER B., US
[72] LIN, SUSAN S., US
[71] INFECTIOUS DISEASE RESEARCH INSTITUTE, US
[85] 2020-04-01
[86] 2018-09-07 (PCT/US2018/049832)
[87] (WO2019/051149)
[30] US (62/556,257) 2017-09-08

[21] **3,078,224**
[13] A1

[51] **Int.Cl. H04B 5/00 (2006.01)**

[25] EN
[54] **WIRELESS SYSTEM AND METHOD FOR CONNECTED WORK TOOL IDENTIFICATION**

[54] **SYSTEME SANS FIL ET PROCEDE D'IDENTIFICATION D'OUTIL DE TRAVAIL CONNECTE**

[72] REED, JOSHUA D., US
[72] VENESHETTY, ARJUN, US
[71] CATERPILLAR INC., US
[85] 2020-04-01
[86] 2018-09-10 (PCT/US2018/050166)
[87] (WO2019/074596)
[30] US (15/782,127) 2017-10-12

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[21] **3,078,226**
[13] A1

[51] **Int.Cl. H02N 11/00 (2006.01) F25B 21/00 (2006.01) H01L 35/00 (2006.01) H02P 7/00 (2016.01)**

[25] EN

[54] **MAGNETIC FIELD GENERATION WITH MAGNETO-CALORIC COOLING**

[54] **GENERATION DE CHAMP MAGNETIQUE AVEC REFROIDISSEMENT MAGNETO-CALORIQUE**

[72] CARVER, DAVID, REGINALD, US
[72] REYNOLDS, SEAN, WILLIAM, US
[72] HALL, SEAN, CLAUDIUS, US
[71] CALAGEN, INC., US
[85] 2020-04-01
[86] 2018-10-04 (PCT/US2018/054453)
[87] (WO2019/071034)
[30] US (62/568,244) 2017-10-04
[30] US (16/137,338) 2018-09-20

[21] **3,078,227**
[13] A1

[51] **Int.Cl. A61B 7/04 (2006.01) H04R 17/02 (2006.01)**

[25] EN

[54] **AUSCULTATORY SOUND-OR-VIBRATION SENSOR**

[54] **CAPTEUR DE SONS OU DE VIBRATIONS D'AUSCULTATION**

[72] MARTIN, SIMON, CA
[72] MORTON, STEVEN P, CA
[72] ARMSTRONG, MARK W., CA
[72] GRIFFIN, ROBERT J., CA
[72] TELENKOV, SERGEY A., CA
[72] LASKA, BRADY, CA
[72] DEWAR, ANTHONY, CA
[72] JASTRZEBSKI, CAMILLA, CA
[71] AUSCULSCIENCES, INC., US
[85] 2020-04-01
[86] 2018-10-04 (PCT/US2018/054471)
[87] (WO2019/071050)
[30] US (62/568,155) 2017-10-04
[30] US (16/152,004) 2018-10-04

[21] **3,078,228**
[13] A1

[51] **Int.Cl. C12N 15/74 (2006.01) C12N 9/04 (2006.01) C12N 9/10 (2006.01) C12P 7/62 (2006.01)**

[25] EN

[54] **PRODUCTION OF POLYHYDROXYBUTYRATE IN WOOD-LJUNGDAHL MICROORGANISMS**

[54] **PRODUCTION DE POLYHYDROXYBUTYRATE DANS DES MICRO-ORGANISMES WOOD-LJUNGDAHL**

[72] TAPPEL, RYAN CHRISTOPHER, US
[72] BEHRENDORFF, JAMES BRUCE YARNTON HAYCOCK, US
[72] KOEPKE, MICHAEL, US
[72] MARCELLIN, ESTEBAN, US
[72] LEMGRUBER, RENATO DE SOUZA PINTO, US
[72] VALGEPEA, KASPAR, US
[72] NIELSEN, LARS, US
[71] LANZATECH, INC., US
[85] 2020-04-01
[86] 2018-10-04 (PCT/US2018/054473)
[87] (WO2019/071052)
[30] US (62/568,127) 2017-10-04

[21] **3,078,229**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 27/00 (2006.01)**

[25] EN

[54] **SYSTEMS, CATHETERS, AND METHODS FOR TREATING ALONG THE CENTRAL NERVOUS SYSTEM**

[54] **SYSTEMES, CATHETERS ET PROCEDES DE TRAITEMENT LE LONG DU SYSTEME NERVEUX CENTRAL**

[72] LAD, SHIVANAND P., US
[72] MCCABE, AARON R., US
[72] ZITELLA VERBICK, LAURA MARIE, US
[72] HEDSTROM, BLAKE, US
[72] STOLL, MATTHEW, US
[72] MONDRY, JACK, US
[71] MINNETRONIX, INC., US
[85] 2020-04-01
[86] 2018-10-04 (PCT/US2018/054478)
[87] (WO2019/071056)
[30] US (62/568,412) 2017-10-05
[30] US (62/598,846) 2017-12-14
[30] US (62/642,873) 2018-03-14
[30] US (62/686,413) 2018-06-18

[21] **3,078,231**
[13] A1

[51] **Int.Cl. B01L 7/00 (2006.01) C12M 1/34 (2006.01) C12M 1/38 (2006.01) G01N 1/28 (2006.01) G01N 35/00 (2006.01) G01N 35/02 (2006.01)**

[25] EN

[54] **DEVICES, SYSTEMS, AND METHODS FOR MICROBIAL INCUBATION**

[54] **DISPOSITIFS, SYSTEMES ET PROCEDES D'INCUBATION MICROBIENNE**

[72] VACIC, ALEKSANDAR, US
[72] PURMORT, NATHAN, US
[72] FLOYD, FREDERICK P., JR., US
[72] DEAN, JOSHUA, US
[72] LYSY, GEORGE, US
[71] SELUX DIAGNOSTICS, INC., US
[85] 2020-04-01
[86] 2018-10-05 (PCT/US2018/054560)
[87] (WO2019/071096)
[30] US (62/569,281) 2017-10-06

[21] **3,078,232**
[13] A1

[51] **Int.Cl. C12N 9/12 (2006.01) A61K 31/00 (2006.01) A61K 31/416 (2006.01) A61K 31/437 (2006.01) A61K 31/4418 (2006.01) A61K 31/4439 (2006.01) A61K 31/496 (2006.01) A61K 31/519 (2006.01) A61K 31/53 (2006.01) A61K 31/5377 (2006.01) A61P 21/00 (2006.01) C07K 14/47 (2006.01) G01N 33/15 (2006.01)**

[25] EN

[54] **USE OF P38 INHIBITORS TO REDUCE EXPRESSION OF DUX4**

[54] **UTILISATION D'INHIBITEURS DE P38 POUR REDUIRE L'EXPRESSION DE DUX4**

[72] CACACE, ANGELA MARIE, US
[72] ROJAS SOTO, LUIS GUSTAVO ALEJANDRO, US
[72] THOMPSON, LORIN A., III, US
[72] WALLACE, OWEN BRENDAN, US
[72] CHANG, AARON NAKWON, US
[72] ROBERTSON, ALAN SCOTT, US
[72] SHEN, NING, US
[72] RONCO, LUCIENNE V., US
[71] FULCRUM THERAPEUTICS, INC., US
[85] 2020-04-01
[86] 2018-10-05 (PCT/US2018/054638)
[87] (WO2019/071144)
[30] US (62/568,673) 2017-10-05
[30] US (62/568,754) 2017-10-05
[30] US (62/682,565) 2018-06-08
[30] US (62/682,563) 2018-06-08

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[21] **3,078,233**
[13] A1

[51] **Int.Cl. A23L 2/60 (2006.01) A23L 27/30 (2016.01) C07C 57/30 (2006.01) C07C 57/44 (2006.01) C07C 63/06 (2006.01) C07C 63/64 (2006.01) C07H 15/256 (2006.01)**

[25] EN

[54] **STEVIOL GLYCOSIDE SOLUBILITY ENHANCERS**

[54] **AMPLIFICATEURS DE SOLUBILITE DE GLYCOSIDE DE STEVIOL**

[72] GASPARD, DAN S., US

[72] KHARE, ANIL BHAGWAN, US

[72] YANG, ZHENG, US

[72] ZARTH, ADAM T., US

[71] CARGILL, INCORPORATED, US

[85] 2020-04-01

[86] 2018-10-05 (PCT/US2018/054691)

[87] (WO2019/071182)

[30] US (62/569,279) 2017-10-06

[30] US (62/676,722) 2018-05-25

[21] **3,078,234**
[13] A1

[51] **Int.Cl. A23L 2/60 (2006.01) A23L 27/30 (2016.01) C07C 57/30 (2006.01) C07C 57/44 (2006.01) C07C 63/06 (2006.01) C07C 63/64 (2006.01) C07H 15/256 (2006.01)**

[25] EN

[54] **READILY DISSOLVABLE STEVIOL GLYCOSIDE COMPOSITIONS**

[54] **COMPOSITIONS DE GLYCOSIDES DE STEVIOL FACILEMENT SOLUBLES**

[72] GASPARD, DAN S., US

[72] ZARTH, ADAM T., US

[71] CARGILL, INCORPORATED, US

[85] 2020-04-01

[86] 2018-10-05 (PCT/US2018/054698)

[87] (WO2019/071188)

[30] US (62/569,279) 2017-10-06

[30] US (62/676,722) 2018-05-25

[21] **3,078,235**
[13] A1

[51] **Int.Cl. E21B 33/12 (2006.01) E21B 29/02 (2006.01)**

[25] EN

[54] **PLUG FORMED FROM A DISINTEGRATE ON DEMAND (DOD) MATERIAL**

[54] **OBTURATEUR FORME A PARTIR D'UN MATERIAU A DESINTEGRATION A LA DEMANDE (DOD)**

[72] XU, YINGQING, US

[72] WRIGHT, BEAU, US

[72] XU, ZHIYUE, US

[72] DOANE, JAMES, US

[72] JOHNSON, MIKE, US

[72] FARMER, JACK, US

[72] RUDDOCK, DAVID, US

[71] BAKER HUGHES, A GE COMPANY, LLC, US

[85] 2020-04-01

[86] 2018-09-13 (PCT/US2018/050814)

[87] (WO2019/078982)

[30] US (15/784,882) 2017-10-16

[21] **3,078,236**
[13] A1

[51] **Int.Cl. B65D 71/18 (2006.01) B65D 71/32 (2006.01)**

[25] EN

[54] **CARTON AND BLANK THEREFOR**

[54] **CARTON ET DECOUPE ASSOCIEE**

[72] BLIN, PATRICK, FR

[72] FAHRNER, VINCENT, FR

[71] WESTROCK PACKAGING SYSTEM, LLC, US

[85] 2020-04-01

[86] 2018-09-27 (PCT/US2018/053126)

[87] (WO2019/074680)

[30] US (62/569,802) 2017-10-09

[21] **3,078,237**
[13] A1

[51] **Int.Cl. C10M 137/08 (2006.01) C07F 9/09 (2006.01) C10M 169/04 (2006.01)**

[25] EN

[54] **PHOSPHOROUS CONTAINING ANTIWEAR ADDITIVES**

[54] **ADDITIFS ANTI-USURES CONTENANT DU PHOSPHORE**

[72] BARTON, WILLIAM R.S., GB

[72] ADAMS, PAUL R., US

[72] SACCOMANDO, DANIEL J., GB

[72] KASSIR, JAMAL, US

[71] THE LUBRIZOL CORPORATION, US

[85] 2020-04-01

[86] 2018-10-01 (PCT/US2018/053697)

[87] (WO2019/070559)

[30] US (62/566,830) 2017-10-02

[21] **3,078,238**
[13] A1

[51] **Int.Cl. A61K 31/69 (2006.01) A61K 31/407 (2006.01) A61P 31/04 (2006.01)**

[25] EN

[54] **METHODS OF TREATING BACTERIAL INFECTIONS**

[54] **PROCEDES DE TRAITEMENT D'INFECTIONS BACTERIENNES**

[72] ALEXANDER, ELIZABETH, US

[72] LOUITIT, JEFF, US

[72] DUDLEY, MICHAEL N., US

[71] MELINTA THERAPEUTICS, INC., US

[85] 2020-04-01

[86] 2018-10-01 (PCT/US2018/053772)

[87] (WO2019/070591)

[30] US (62/567,702) 2017-10-03

[30] US (62/657,402) 2018-04-13

PCT Applications Entering the National Phase

[21] **3,078,239**
[13] A1

[51] **Int.Cl. H01J 43/10 (2006.01) H01J 37/00 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR CONTROLLING CONTAMINANT DEPOSITION ON A DYNODE ELECTRON-EMISSIVE SURFACE**

[54] **PROCEDES ET APPAREIL DE COMMANDE DE DEPOT DE CONTAMINANT SUR UNE SURFACE EMETTRICE D'ELECTRONS DE DYNODE**

[72] SHEILS, WAYNE, AU

[72] SHANLEY, TOBY, AU

[71] ADAPTAS SOLUTIONS PTY LTD, AU

[85] 2020-04-02

[86] 2018-08-29 (PCT/AU2018/050930)

[87] (WO2019/071294)

[30] AU (2017904061) 2017-10-09

[21] **3,078,240**
[13] A1

[51] **Int.Cl. H04N 19/86 (2014.01) H04N 19/70 (2014.01) H04N 19/82 (2014.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR REDUCING BLOCKING ARTIFACTS AND PROVIDING IMPROVED CODING EFFICIENCY**

[54] **SYSTEME ET PROCEDE DE REDUCTION D'ARTEFACTS EN BLOCS ET DE PRODUCTION D'UNE EFFICACITE DE CODAGE AMELIOREE**

[72] BAYLON, DAVID M., US

[72] LUTHRA, AJAY, US

[71] ARRIS ENTERPRISES LLC, US

[85] 2020-04-01

[86] 2018-10-02 (PCT/US2018/054044)

[87] (WO2019/070770)

[30] US (62/566,860) 2017-10-02

[30] US (16/150,250) 2018-10-02

[21] **3,078,241**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A43D 1/02 (2006.01) A43D 999/00 (2006.01) A61B 5/103 (2006.01)**

[25] EN

[54] **FOOTCARE PRODUCT DISPENSING KIOSK**

[54] **KIOSQUE DE DISTRIBUTION DE PRODUITS DE SOINS DE PIED**

[72] PENTA, RAMA, US

[72] WEICK, DANIEL, US

[72] SUKUMARAN, MANIKANDAN, US

[72] AYOUBI, HASSAN, US

[72] PARK, KYEONG HO, US

[72] MENDELOWITZ, HOWARD, US

[72] MATUSOW, JAY, US

[71] SCHOOL'S WELLNESS COMPANY LLC, US

[85] 2020-04-01

[86] 2018-10-12 (PCT/US2018/055549)

[87] (WO2019/075287)

[30] US (62/572,290) 2017-10-13

[21] **3,078,242**
[13] A1

[51] **Int.Cl. B60B 27/00 (2006.01) F16C 19/54 (2006.01) F16C 33/66 (2006.01)**

[25] EN

[54] **SPACER TO ENHANCE LUBRICATION FOR WHEEL END ASSEMBLY**

[54] **ESPACEUR POUR AMELIORER LA LUBRIFICATION D'UN ENSEMBLE EXTREME DE ROUE**

[72] JIMENEZ, DANIEL T., US

[72] GOLD, MARK N., US

[72] BELL, DAVID W., US

[71] STEMCO PRODUCTS, INC., US

[85] 2020-04-01

[86] 2018-10-03 (PCT/US2018/054143)

[87] (WO2019/070840)

[30] US (62/568,686) 2017-10-05

[21] **3,078,243**
[13] A1

[51] **Int.Cl. A01N 41/04 (2006.01) C02F 1/50 (2006.01) C11D 3/48 (2006.01)**

[25] EN

[54] **COMPOSITION AND METHOD FOR INHIBITING MICROBIAL ADHESION ON SURFACES**

[54] **COMPOSITION ET PROCEDE POUR INHIBER L'ADHERENCE MICROBIENNE SUR DES SURFACES**

[72] CONSALO, CORINNE E., US

[72] CAREY, WILLIAM, US

[71] SOLENIS TECHNOLOGIES, L.P., US

[85] 2020-04-01

[86] 2018-10-03 (PCT/US2018/054185)

[87] (WO2019/070868)

[30] US (62/567,616) 2017-10-03

[21] **3,078,244**
[13] A1

[51] **Int.Cl. B65D 77/20 (2006.01) B32B 7/06 (2019.01) B32B 7/12 (2006.01) B32B 27/28 (2006.01)**

[25] EN

[54] **RESEALABLE LIDDING WITH PATTERNED ADHESIVE**

[54] **OPERCULAGE REFERMABLE A ADHESIF A MOTIF**

[72] HUFFER, SCOTT W., US

[71] SONOCO DEVELOPMENT, INC., US

[85] 2020-04-01

[86] 2018-10-13 (PCT/US2018/055775)

[87] (WO2019/079133)

[30] US (15/784,496) 2017-10-16

[21] **3,078,245**
[13] A1

[51] **Int.Cl. G06K 9/62 (2006.01) G06T 7/10 (2017.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR MACHINE LEARNING-DRIVEN OBJECT DETECTION**

[54] **SYSTEME ET PROCEDE DE DETECTION D'OBJETS GUIDEE PAR APPRENTISSAGE AUTOMATIQUE**

[72] VO, NHAT, AU

[72] CHALLA, SUBHASH, AU

[72] QUINN, LOUIS, AU

[71] SENSEN NETWORKS GROUP PTY LTD, AU

[85] 2020-04-02

[86] 2018-10-02 (PCT/AU2018/051071)

[87] (WO2019/068141)

[30] AU (2017903975) 2017-10-02

Demandes PCT entrant en phase nationale

[21] **3,078,246**
[13] A1

[51] **Int.Cl. D03D 11/00 (2006.01) D03D 15/00 (2006.01)**
[25] EN
[54] **LIMITED CONDUCTION HEAT REFLECTING MATERIALS**
[54] **MATERIAUX REFLECHISSANT LA CHALEUR ET A CONDUCTION LIMITEE**
[72] BLACKFORD, MICHAEL "WOODY", US
[72] MERGY, JEFFREY THOMAS, US
[71] COLUMBIA SPORTSWEAR NORTH AMERICA, INC., US
[85] 2020-04-01
[86] 2018-10-16 (PCT/US2018/056108)
[87] (WO2019/079316)
[30] US (62/573,154) 2017-10-16

[21] **3,078,247**
[13] A1

[51] **Int.Cl. A61K 31/713 (2006.01) A61K 31/395 (2006.01) A61K 31/4375 (2006.01) A61K 31/4418 (2006.01) A61K 31/506 (2006.01) A61K 31/519 (2006.01) A61K 31/52 (2006.01) A61K 31/5377 (2006.01) A61K 31/5513 (2006.01) A61P 3/00 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING UREA CYCLE DISORDERS, IN PARTICULAR OTC DEFICIENCY**
[54] **METHODES ET COMPOSITIONS POUR LE TRAITEMENT DE TROUBLES DU CYCLE DE L'UREE, EN PARTICULIER D'UNE DEFICIENCE EN OTC**
[72] SEHGAL, ALFICA, US
[72] SIGOVA, ALLA A., US
[72] ZLOBINE, IGOR, US
[72] SCHWARTZ, BRIAN E., US
[72] BUMCROT, DAVID A., US
[71] CAMP4 THERAPEUTICS CORPORATION, US
[85] 2020-04-01
[86] 2018-10-09 (PCT/US2018/055087)
[87] (WO2019/071276)
[30] US (62/568,893) 2017-10-06

[21] **3,078,248**
[13] A1

[51] **Int.Cl. G01S 11/00 (2006.01) G01S 5/00 (2006.01)**
[25] EN
[54] **MOTION LOCALIZATION BASED ON CHANNEL RESPONSE CHARACTERISTICS**
[54] **LOCALISATION DE MOUVEMENT BASEE SUR DES CARACTERISTIQUES DE REPONSE DE CANAL**
[72] DEVISON, STEPHEN ARNOLD, CA
[72] OMER, MOHAMMAD, CA
[72] PIAO, YUNFENG, CA
[72] NOGUEIRA, MARCO PAULO DOS SANTOS, CA
[71] COGNITIVE SYSTEMS CORP., CA
[85] 2020-04-02
[86] 2018-02-06 (PCT/CA2018/050128)
[87] (WO2019/095041)
[30] US (15/815,199) 2017-11-16

[21] **3,078,249**
[13] A1

[51] **Int.Cl. A61B 17/80 (2006.01) A61B 17/17 (2006.01)**
[25] EN
[54] **HUMERAL FIXATION PLATE GUIDES**
[54] **GUIDES DE PLAQUE DE FIXATION HUMERALE**
[72] COURTNEY, ROBERT, JR., US
[72] KUESTER, WILLIAM MATTHEW, US
[72] RICE, ROBERT BENJAMIN, US
[71] TORNIER, INC., US
[85] 2020-04-01
[86] 2018-10-10 (PCT/US2018/055290)
[87] (WO2019/075119)
[30] US (62/571,046) 2017-10-11

[21] **3,078,250**
[13] A1

[51] **Int.Cl. E04G 11/28 (2006.01) E04G 11/24 (2006.01)**
[25] EN
[54] **HYDRAULIC ARRANGEMENT HAVING LINKED HYDRAULIC UNITS, CLIMBING FORMWORK, AND METHOD FOR MOVING THE CLIMBING FORMWORK USING SUCH A HYDRAULIC ARRANGEMENT**
[54] **SYSTEME HYDRAULIQUE DOTE D'UNITES HYDRAULIQUES EN RESEAU, COFFRAGE GRIMPANT ET PROCEDE POUR DEPLACER LE COFFRAGE GRIMPANT MUNI D'UN TEL SYSTEME HYDRAULIQUE**
[72] ZWERENZ, ANDRE, DE
[72] DEIFEL, DIETER, DE
[72] PARNICA, BOGDAN, DE
[71] PERI GMBH, DE
[85] 2020-04-02
[86] 2018-10-05 (PCT/EP2018/077160)
[87] (WO2019/068879)
[30] DE (10 2017 217 715.2) 2017-10-05

[21] **3,078,251**
[13] A1

[51] **Int.Cl. B29C 33/00 (2006.01) A61M 37/00 (2006.01) B23K 26/00 (2014.01) B29C 43/46 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MAKING MICRONEEDLES**
[54] **SYSTEME ET PROCEDE DE FABRICATION DE MICRO-AIGUILLES**
[72] NEJAD, HOJATOLLAH REZAEI, US
[72] SADEQI, AYDIN, US
[72] SONKUSALE, SAMEER, US
[71] TRUSTEES OF TUFTS COLLEGE, US
[85] 2020-04-01
[86] 2018-10-16 (PCT/US2018/056134)
[87] (WO2019/203888)
[30] US (62/573,094) 2017-10-16

PCT Applications Entering the National Phase

[21] **3,078,252**
[13] A1

[51] **Int.Cl. C01G 21/00 (2006.01) C01B 32/00 (2017.01) C01B 32/182 (2017.01) C01B 32/184 (2017.01) H01M 4/22 (2006.01) H01M 10/06 (2006.01)**

[25] EN

[54] **METHOD OF PREPARING CARBON-GRAPHENE-LEAD COMPOSITE PARTICLES**

[54] **PROCEDE DE PREPARATION DE PARTICULES COMPOSEES DE CARBONE-GRAPHENE-PLOMB**

[72] CHEN, ZHONGWEI, CA
[72] MAO, ZHIYU, CA
[71] CWZE POWER INC., CA
[85] 2020-04-02
[86] 2018-10-02 (PCT/CA2018/051243)
[87] (WO2019/068186)
[30] US (62/606,602) 2017-10-02

[21] **3,078,253**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **ANTI-CD47 AGENT-BASED OVARIAN CANCER THERAPY**

[54] **THERAPIE CONTRE LE CANCER DE L'OVAIRE A BASE D'AGENT ANTI-CD47**

[72] TAKIMOTO, CHRIS HIDEMI
MIZUFUNE, US
[72] CHAO, MARK PING, US
[72] VOLKMER, JENS-PETER, US
[71] FORTY SEVEN, INC., US
[85] 2020-04-01
[86] 2018-10-18 (PCT/US2018/056441)
[87] (WO2019/079548)
[30] US (62/573,835) 2017-10-18

[21] **3,078,254**
[13] A1

[51] **Int.Cl. G08G 5/06 (2006.01) H04W 8/00 (2009.01) H04W 80/02 (2009.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR TRACKING, PROCESSING, AND INTEGRATING AIRPORT GROUND VEHICLE POSITION DATA INTO THE AUTOMATIC DEPENDENT SURVEILLANCE - BROADCAST (ADS-B) NETWORK INFRASTRUCTURE**

[54] **PROCEDE ET SYSTEME DE SUIVI, DE TRAITEMENT ET D'INTEGRATION DE DONNEES DE POSITIONS DE VEHICULES D'AEROPORT AU SOL DANS L'INFRASTRUCTURE DU RESEAU DE SURVEILLANCE DEPENDANTE AUTOMATIQUE EN MODE DIFFUSION (ADS-B)**

[72] MCKEOWN, STEPHEN LYLE, CA
[72] THIBODEAU, RICK, CA
[72] CUDMORE, PAUL EDWARD, CA
[72] SHATTUCK, TY, CA
[71] EAGLE AEROSPACE, LTD., CA
[85] 2020-04-02
[86] 2018-10-03 (PCT/CA2018/051246)
[87] (WO2019/068188)
[30] US (62/567,268) 2017-10-03

[21] **3,078,255**
[13] A1

[51] **Int.Cl. G07F 17/32 (2006.01)**

[25] EN

[54] **PROGRESSIVE BETTING SYSTEMS**

[54] **SYSTEMES DE PARI PROGRESSIF**

[72] BULZACKI, ADRIAN, CA
[72] CAZAN, VLAD, CA
[72] DUNN, RUSSELL BROOKE, US
[71] ARB LABS INC., CA
[85] 2020-04-02
[86] 2018-10-03 (PCT/CA2018/051248)
[87] (WO2019/068190)
[30] US (62/567,457) 2017-10-03

[21] **3,078,256**
[13] A1

[51] **Int.Cl. G01N 23/04 (2018.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR 3D STRUCTURE ESTIMATION USING NON-UNIFORM REFINEMENT**

[54] **PROCEDES ET SYSTEMES D'ESTIMATION DE STRUCTURE 3D AU MOYEN D'UN AFFINEMENT NON UNIFORME**

[72] PUNJANI, ALI, CA
[72] FLEET, DAVID, CA
[72] ZHANG, HAOWEI, CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[85] 2020-04-02
[86] 2018-10-05 (PCT/CA2018/051262)
[87] (WO2019/068201)
[30] US (62/569,249) 2017-10-06

[21] **3,078,257**
[13] A1

[51] **Int.Cl. A47C 9/10 (2006.01) A47C 4/08 (2006.01)**

[25] EN

[54] **COMPACT FOLDING STOOL**

[54] **TABOURET PLIABLE COMPACT**

[72] GARCIA MAHIQUES, VICENTE, ES
[71] CASA VIGAR, S.L., ES
[85] 2020-03-13
[86] 2018-09-17 (PCT/ES2018/070604)
[87] (WO2019/058012)
[30] ES (U201731099) 2017-09-21

[21] **3,078,258**
[13] A1

[51] **Int.Cl. F21S 45/50 (2018.01) F21S 45/10 (2018.01) B60Q 1/26 (2006.01) F21V 15/01 (2006.01)**

[25] EN

[54] **MODULAR ENCLOSURE WITH WATER MANAGEMENT MATING INTERFACES**

[54] **ENCEINTE MODULAIRE POURVUE D'INTERFACES D'ACCOUPLEMENT A GESTION DE L'EAU**

[72] LYONS, JON H., US
[71] WHELEN ENGINEERING COMPANY, INC., US
[85] 2020-04-01
[86] 2018-10-19 (PCT/US2018/056606)
[87] (WO2019/079660)
[30] US (15/789,312) 2017-10-20

Demandes PCT entrant en phase nationale

[21] **3,078,260**
[13] A1

[51] **Int.Cl. G01S 13/74 (2006.01) H04W 16/28 (2009.01) H04W 4/33 (2018.01) G08B 13/24 (2006.01)**

[25] EN

[54] **MOTION DETECTION BASED ON BEAMFORMING DYNAMIC INFORMATION FROM WIRELESS STANDARD CLIENT DEVICES**

[54] **DETECTION DE MOUVEMENT BASEE SUR DES INFORMATIONS DYNAMIQUES DE FORMATION DE FAISCEAU PROVENANT DE DISPOSITIFS CLIENTS STANDARD SANS FIL**

[72] KRAVETS, OLEKSIY, CA
[72] OMER, MOHAMMAD, CA
[72] ITUAH, STANLEY, CA
[72] CHATTHA, KARANVIR, CA
[72] MANKU, TAJINDER, CA
[71] COGNITIVE SYSTEMS CORP., CA
[85] 2020-04-02
[86] 2018-11-14 (PCT/CA2018/051447)
[87] (WO2019/095060)
[30] US (62/586,824) 2017-11-15
[30] US (62/633,789) 2018-02-22
[30] US (62/648,110) 2018-03-26
[30] US (16/184,729) 2018-11-08

[21] **3,078,261**
[13] A1

[51] **Int.Cl. H04L 12/24 (2006.01) H04L 12/26 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR CYBERSECURITY RISK ASSESSMENT OF USERS OF A COMPUTER NETWORK**

[54] **SYSTEMES ET PROCEDES D'EVALUATION DE RISQUE DE CYBERSECURITE D'UTILISATEURS D'UN RESEAU INFORMATIQUE**

[72] GHORBANI, ALI-AKBAR, CA
[72] HABIBI LASHKARI, ARASH, CA
[72] MAMUN, MOHAMMAD SAIFUL ISLAM, CA
[72] GIL, GERARD DRAPER, ES
[71] UNIVERSITY OF NEW BRUNSWICK, CA
[85] 2020-04-02
[86] 2019-07-19 (PCT/CA2019/051002)
[87] (WO2020/019063)
[30] US (62/702,778) 2018-07-24

[21] **3,078,263**
[13] A1

[51] **Int.Cl. B02C 23/02 (2006.01) B02C 1/02 (2006.01) B02C 25/00 (2006.01)**

[25] EN

[54] **METHOD FOR THE LOAD-DEPENDENT OPERATION OF A MATERIAL COMMUNUTION SYSTEM**

[54] **PROCEDE PERMETTANT DE FAIRE FONCTIONNER UNE INSTALLATION DE BROYAGE DE MATERIAUX EN FONCTION DE LA CHARGE**

[72] ECKERT, THORSTEN, DE
[72] FREIHALTER, TOBIAS, DE
[72] MEIER, JOCHEN, DE
[71] KLEEMANN GMBH, DE
[85] 2020-04-02
[86] 2018-10-08 (PCT/EP2018/077241)
[87] (WO2019/081186)
[30] DE (10 2017 124 958.3) 2017-10-25

[21] **3,078,264**
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01) G06Q 10/06 (2012.01) G06F 9/48 (2006.01)**

[25] EN

[54] **SCHEDULING SYSTEM OF A PLURALITY OF HIERARCHICAL TASKS FOR A SATELLITE SYSTEM**

[54] **SYSTEME DE PROGRAMMATION D'UNE PLURALITE DE TACHES HIERARCHIQUES DESTINE A UN SYSTEME SATELLITE**

[72] CLANCY, T. CHARLES, US
[72] MCGWIER, ROBERT W., US
[72] O'SHEA, TIMOTHY JAMES, US
[72] MCCARTHY, NICHOLAS AARON, US
[71] HAWKEYE 360, INC., US
[85] 2020-04-01
[86] 2018-10-22 (PCT/US2018/056886)
[87] (WO2019/079796)
[30] US (62/575,128) 2017-10-20

[21] **3,078,265**
[13] A1

[51] **Int.Cl. B62K 11/00 (2013.01)**

[25] EN

[54] **SPHERICAL/ELLIPTICAL SINGLE-WHEELED VEHICLE**

[54] **MONOCYCLE SPHERIQUE ROND/OVALE**

[72] LIU, HAIBO, CN
[72] XIE, FENG, CN
[71] FREEMAN IT LIMITED, CN
[85] 2020-04-02
[86] 2018-10-10 (PCT/CN2018/109556)
[87] (WO2019/114389)
[30] CN (201711320359.7) 2017-12-12
[30] CN (201810648762.0) 2018-06-22

[21] **3,078,266**
[13] A1

[51] **Int.Cl. A61K 31/137 (2006.01) A61K 9/00 (2006.01)**

[25] EN

[54] **STABILIZED INJECTABLE PHARMACEUTICAL COMPOSITIONS OF L-EPINEPHRINE**

[54] **COMPOSITIONS PHARMACEUTIQUES INJECTABLES STABILISEES DE L-EPINEPHRINE**

[72] AUGUSTIN, STEFFEN, DE
[72] HERBST, THOMAS ARTUR HENDRIK, DE
[72] EMDE, ULRICH, DE
[71] MERCK PATENT GMBH, DE
[85] 2020-04-02
[86] 2018-10-08 (PCT/EP2018/077237)
[87] (WO2019/072723)
[30] EP (17195656.8) 2017-10-10

PCT Applications Entering the National Phase

[21] **3,078,267**
[13] A1

[51] **Int.Cl. C07H 19/207 (2006.01) A61K 39/39 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) A61P 37/04 (2006.01) C07H 19/20 (2006.01) C07H 19/213 (2006.01) C12N 9/12 (2006.01) C12N 15/54 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS OF MODULATING THE IMMUNE RESPONSE BY ACTIVATING ALPHA PROTEIN KINASE 1**

[54] **COMPOSITIONS ET PROCEDES DE MODULATION DE LA REPOSE IMMUNITAIRE PAR ACTIVATION DE LA PROTEINE KINASE ALPHA 1**

[72] XU, TIAN, CN
[72] XU, CONG, CN
[72] LIU, DANYANG, CN
[72] FAN, JIEQING, CN
[72] PAN, YANFANG, CN
[72] LI, TONGRUEI RAYMOND, CN
[72] CHEN, XIAODONG, CN
[71] SHANGHAI YAO YUAN BIOTECHNOLOGY CO., LTD., CN

[85] 2020-04-02
[86] 2018-10-25 (PCT/CN2018/111885)
[87] (WO2019/080898)
[30] CN (PCT/CN2017/107962) 2017-10-27
[30] CN (PCT/CN2018/083153) 2018-04-16
[30] CN (PCT/CN2018/100871) 2018-08-16

[21] **3,078,268**
[13] A1

[51] **Int.Cl. B07B 1/42 (2006.01) B06B 1/16 (2006.01)**

[25] EN

[54] **SCREENING SYSTEM WITH VIBRATION-NODE-ARRANGED VIBRATION SYSTEMS**

[54] **SYSTEME DE TAMISAGE COMPRENANT DES SYSTEMES DE VIBRATION DISPOSES AUX NœUDS DE VIBRATION**

[72] LEUSCHEN, GUIDO, DE
[71] THYSSENKRUPP AG, DE
[71] THYSSENKRUPP INDUSTRIAL SOLUTIONS AG, DE

[85] 2020-04-02
[86] 2018-10-08 (PCT/EP2018/077269)
[87] (WO2019/072741)
[30] LU (LU100478) 2017-10-13

[21] **3,078,269**
[13] A1

[51] **Int.Cl. B03C 3/68 (2006.01)**

[25] EN

[54] **HIGH-VOLTAGE POWER SUPPLY SYSTEM**

[54] **SYSTEME D'ALIMENTATION ELECTRIQUE A HAUTE TENSION**

[72] WALLGREN, BERNT, SE
[71] KRAFTPOWERCON SWEDEN AB, SE

[85] 2020-04-02
[86] 2018-10-09 (PCT/EP2018/077380)
[87] (WO2019/072786)
[30] EP (17195478.7) 2017-10-09

[21] **3,078,270**
[13] A1

[51] **Int.Cl. C07K 14/725 (2006.01) C12N 5/0783 (2010.01)**

[25] EN

[54] **METHODS OF MAKING CHIMERIC ANTIGEN RECEPTOR-EXPRESSING CELLS**

[54] **PROCEDES DE CONCEPTION DE CELLULES D'EXPRESSION DE RECEPTEUR ANTIGENIQUE CHIMERIQUE**

[72] FRAIETTA, JOSEPH A., US
[72] MELENHORST, JAN J., US
[72] O'CONNOR, RODERICK, US
[72] ORLANDO, ELENA, US
[72] JUNE. CARL H., US
[71] NOVARTIS AG, CH
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US

[85] 2020-04-01
[86] 2018-10-25 (PCT/US2018/057545)
[87] (WO2019/084288)
[30] US (62/577,099) 2017-10-25
[30] US (62/637,854) 2018-03-02

[21] **3,078,271**
[13] A1

[51] **Int.Cl. C07C 213/06 (2006.01) C07C 31/02 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARING DIMETHYLAMINOALKYL (METH)ACRYLATES**

[54] **PROCEDE DE PREPARATION DE DIMETHYLAMINOALKYL (METH)ACRYLATES**

[72] TRESKOW, MARCEL, DE
[72] KRUGER. TORSTEN, DE
[72] SCHUTZ, THOR-BEN, DE
[72] KRILL, STEFFEN, DE
[71] EVONIK OPERATIONS GMBH, DE

[85] 2020-04-02
[86] 2018-09-28 (PCT/EP2018/076447)
[87] (WO2019/068578)
[30] DE (10 2017 217 620.2) 2017-10-04

[21] **3,078,272**
[13] A1

[51] **Int.Cl. A61K 9/50 (2006.01) A61K 9/14 (2006.01) A61K 9/20 (2006.01) A61K 31/137 (2006.01) A61K 31/485 (2006.01)**

[25] EN

[54] **MODIFIED RELEASE ABUSE DETERRENT DOSAGE FORMS**

[54] **FORMES POSOLOGIQUES A LIBERATION MODIFIEE, DISSUASIVES D'ABUS**

[72] STOMBERG, CARMEN, DE
[72] PAUL, HARALD, DE
[72] WENING, KLAUS, DE
[72] SCHWIER, SEBASTIAN, DE
[71] GRUNENTHAL GMBH, DE

[85] 2020-04-02
[86] 2018-10-12 (PCT/EP2018/077857)
[87] (WO2019/073028)
[30] EP (17196366.3) 2017-10-13

Demandes PCT entrant en phase nationale

[21] **3,078,273**
[13] A1

[51] **Int.Cl. F03D 1/06 (2006.01)**
[25] EN
[54] **USE OF A NEW MATERIAL IN WIND TURBINE PARTS AND APPARATUS AND METHODS HEREOF**
[54] **UTILISATION D'UN NOUVEAU MATERIAU DANS DES PARTIES D'EOLIENNE; APPAREIL ET PROCEDES ASSOCIES**
[72] LUBKER, POUL ANKER SKAARUP, CH
[72] MINGALIEV, SHAVKAT, AT
[71] VENTUS ENGINEERING GMBH, AT
[85] 2020-04-02
[86] 2018-10-02 (PCT/EP2018/076808)
[87] (WO2019/068721)
[30] EP (17194393.9) 2017-10-02

[21] **3,078,274**
[13] A1

[51] **Int.Cl. F02C 7/236 (2006.01) F02C 9/26 (2006.01)**
[25] EN
[54] **METHOD FOR THE CREATION OF THE REQUIRED PRESSURE AND FUEL FLOW RATE IN THE FUEL SYSTEM OF THE GAS TURBINE ENGINE**
[54] **PROCEDE DE FONCTIONNEMENT DU SYSTEME D'ALIMENTATION EN CARBUANT D'UN MOTEUR A TURBINE A GAZ**
[72] ROSSIK, MIHAIL VIKTOROVICH, RU
[72] SAVENKOV, YURIJ SEMENOVICH, RU
[72] LISOVIN, IGOR' GEORGIEVICH, RU
[72] RUKAVISHNIKOV, VYACHESLAV EVGEN'EVICH, RU
[71] JOINT-STOCK COMPANY "UNITED ENGINE CORPORATION" (JSC "UEC"), RU
[85] 2020-04-01
[86] 2018-10-03 (PCT/RU2018/000646)
[87] (WO2019/070160)
[30] RU (2017135495) 2017-10-05

[21] **3,078,275**
[13] A1

[51] **Int.Cl. A01H 6/82 (2018.01) C12Q 1/6895 (2018.01) A01H 1/00 (2006.01) A01H 1/04 (2006.01) A01H 5/00 (2018.01) C12N 5/04 (2006.01)**
[25] EN
[54] **TBRFV RESISTANT TOMATO PLANT**
[54] **PLANTS DE TOMATE RESISTANTS A TBRFV**
[72] HAMELINK, ROEL, NL
[72] KALISVAART, JONATHAN, NL
[72] RASHIDI, HAMED, NL
[71] RIJK ZWAAN ZAADTEELT EN ZAADHANDEL B.V., NL
[85] 2020-04-02
[86] 2018-12-07 (PCT/EP2018/084031)
[87] (WO2019/110821)
[30] EP (PCT/EP2017/082096) 2017-12-08

[21] **3,078,276**
[13] A1

[51] **Int.Cl. A47K 5/12 (2006.01) A47K 5/14 (2006.01)**
[25] EN
[54] **TOUCH-FREE DISPENSERS**
[54] **DISTRIBUTEURS SANS CONTACT**
[72] MCNULTY, JOHN J., US
[72] CIAVARELLA, NICK E., US
[72] WILLIS, DANIEL M., US
[72] MARSHALL, AARON D., US
[72] HARRIS, DONALD R., US
[71] GOJO INDUSTRIES, INC., US
[85] 2020-04-01
[86] 2018-10-31 (PCT/US2018/058460)
[87] (WO2019/089756)
[30] US (62/581,830) 2017-11-06

[21] **3,078,277**
[13] A1

[51] **Int.Cl. C12N 7/00 (2006.01) A61K 48/00 (2006.01) C07K 4/00 (2006.01) C07K 14/015 (2006.01) C12N 15/864 (2006.01)**
[25] EN
[54] **AAV VECTORS**
[54] **VECTEURS AAV**
[72] MICHALAKIS, STYLIANOS, DE
[72] BIEL, MARTIN, DE
[71] VIGENERON GMBH, DE
[85] 2020-04-02
[86] 2018-10-16 (PCT/EP2018/078175)
[87] (WO2019/076856)
[30] EP (17196567.6) 2017-10-16

[21] **3,078,278**
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01) G01N 33/68 (2006.01)**
[25] EN
[54] **ASSESSMENT OF JAK-STAT1/2 CELLULAR SIGNALING PATHWAY ACTIVITY USING MATHEMATICAL MODELLING OF TARGET GENE EXPRESSION**
[54] **EVALUATION DE L'ACTIVITE DE LA VOIE DE SIGNALISATION CELLULAIRE JAK-STAT1/2 AU MOYEN DE LA MODELISATION MATHEMATIQUE D'UNE EXPRESSION GENIQUE CIBLE**
[72] VERHAEGH, WILHELMUS FRANCISCUS JOHANNES, NL
[72] DOU, MENG, NL
[72] VAN DE STOLPE, ANJA, NL
[72] VELTER, RICK, NL
[71] KONINKLIJKE PHILIPS N.V., NL
[85] 2020-04-02
[86] 2018-09-27 (PCT/EP2018/076334)
[87] (WO2019/068562)
[30] EP (17194291.5) 2017-10-02

[21] **3,078,279**
[13] A1

[51] **Int.Cl. F02C 7/047 (2006.01)**
[25] EN
[54] **METHOD FOR THE CONTROL OF THE ANTI-ICING SYSTEM OF THE AIRCRAFT GAS TURBINE ENGINE**
[54] **PROCEDE POUR COMMANDER LE SYSTEME DE DEGIVRAGE D'UNE ENTREE D'AIR D'UN MOTEUR A TURBINE A GAZ POUR AERONEF**
[72] SAZHENKOV, ALEKSEJ NIKOLAEVICH, RU
[72] SAVENKOV, YURIJ SEMENOVICH, RU
[71] JOINT-STOCK COMPANY "UNITED ENGINE CORPORATION" (JSC "UEC"), RU
[85] 2020-04-01
[86] 2018-10-03 (PCT/RU2018/000642)
[87] (WO2019/098881)
[30] RU (2017139379) 2017-11-14

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[21] **3,078,280**
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01)**
[25] EN
[54] **IMPROVED YIELD IN PLANTS BY OVEREXPRESSION A TREHALOSE-6 PHOSPHATE SYNTHASE**

[54] **RENDEMENT AMELIORE DANS DES PLANTES PAR SUREXPRESSON D'UNE TREHALOSE-6 PHOSPHATE SYNTHASE**

[72] REDONDO, ELISE, US
[71] BIOGEMMA, FR
[85] 2020-04-02
[86] 2018-10-04 (PCT/EP2018/076981)
[87] (WO2019/068800)
[30] EP (17306338.9) 2017-10-05

[21] **3,078,281**
[13] A1

[51] **Int.Cl. C07K 14/005 (2006.01) A61K 39/00 (2006.01) A61K 39/12 (2006.01)**
[25] EN
[54] **RECOMBINANT EXPRESSION OF PCV2B ORF2 PROTEIN IN INSECT CELLS**

[54] **EXPRESSION RECOMBINANTE DE PROTEINE ORF2 DE PCV2B DANS DES CELLULES D'INSECTES**

[72] SONDERMEIJER, PAULUS
JACOBUS ANTONIUS, NL
[72] SANDERS, LISETTE, NL
[72] VAN DER HEIJDEN - LIEFKENS, KARIN HUBERDINA ANTONIA, NL
[71] INTERVET INTERNATIONAL B.V., NL
[85] 2020-04-02
[86] 2018-10-16 (PCT/EP2018/078189)
[87] (WO2019/076864)
[30] EP (17196768.0) 2017-10-17

[21] **3,078,282**
[13] A1

[51] **Int.Cl. F02C 7/06 (2006.01) F01M 11/08 (2006.01)**
[25] EN
[54] **ACCESSORY GAERBOX BOITE DE MECANISMES ENTRAINES**

[72] STYAZHKOV, KONSTANTIN
ANDREEVICH, RU
[72] KHASANOV, RAFIS ZAFAROVICH, RU
[72] CHIRKOV, ARTEM VIKTOROVICH, RU
[71] JOINT-STOCK COMPANY "UNITED ENGINE CORPORATION" (JSC "UEC"), RU
[85] 2020-04-01
[86] 2018-10-03 (PCT/RU2018/000645)
[87] (WO2019/070159)
[30] RU (2017135497) 2017-10-05

[21] **3,078,283**
[13] A1

[51] **Int.Cl. H04L 1/18 (2006.01)**
[25] EN
[54] **MULTI-SLOT SCHEDULING WITH REPETITIVE TRANSMISSION OF A TRANSPORT BLOCK WITH DIFFERENT REDUNDANCY VERSIONS**

[54] **PROGRAMMATION MULTI-CRENEAUX A TRANSMISSION REPETITIVE D'UN BLOC DE TRANSPORT COMPRENANT DIFFERENTES VERSIONS DE REDONDANCE**

[72] NAM, WOOSEOK, US
[72] LUO, TAO, US
[72] LEE, HEECHOON, US
[72] GAAL, PETER, US
[72] CHEN, WANSHI, US
[72] SORIAGA, JOSEPH BINAMIRA, US
[72] ANG, PETER PUI LOK, US
[72] SARKIS, GABI, US
[71] QUALCOMM INCORPORATED, US
[85] 2020-04-01
[86] 2018-11-14 (PCT/US2018/061035)
[87] (WO2019/099507)
[30] US (62/587,316) 2017-11-16
[30] US (16/189,175) 2018-11-13

[21] **3,078,284**
[13] A1

[51] **Int.Cl. G01J 3/50 (2006.01) G01J 3/10 (2006.01) G01J 3/46 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DETERMINING A PLURALITY OF COLOR QUALITY INDICATORS FOR CONTROLLING THE COLOR OF A COATING**

[54] **PROCEDE ET SYSTEME PERMETTANT DE DETERMINER UNE PLURALITE D'INDICATEURS DE QUALITE DE COULEUR POUR LE CONTROLE DE COULEUR D'UNE LAQUE**

[72] VIGNOLO, CARLOS, DE
[72] STEUFMEHL, FLORIAN, DE
[71] BASF COATINGS GMBH, DE
[85] 2020-04-02
[86] 2018-10-04 (PCT/EP2018/077048)
[87] (WO2019/068828)
[30] EP (17195024.9) 2017-10-05

[21] **3,078,285**
[13] A1

[51] **Int.Cl. A21C 11/00 (2006.01) A21D 13/41 (2017.01) A21C 3/02 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR SHAPING PIZZA DOUGH**

[54] **PROCEDE ET APPAREIL DE FORMATION DE PATE A PIZZA**

[72] MORELLO, MAIRO, IT
[71] MORELLO FORNI DI MORELLO MARCO & C. S.A.S., IT
[85] 2020-04-02
[86] 2018-09-26 (PCT/IB2018/057429)
[87] (WO2019/069177)
[30] IT (102017000111949) 2017-10-05

Demandes PCT entrant en phase nationale

[21] **3,078,287**
[13] A1

[51] **Int.Cl. B41J 2/175 (2006.01)**
[25] EN
[54] **CIRCUIT BOARD FOR A PRINTING CARTRIDGE, PRINTING CARTRIDGE, AND PRINTING SYSTEM**

[54] **CARTE POUR CARTOUCHE D'IMPRIMANTE, CARTOUCHE D'IMPRIMANTE ET SYSTEME D'IMPRESSION**

[72] WESTERMAYER, MARC, DE
[71] ARTECH GMBH DESIGN + PRODUCTION IN PLASTIC, DE
[85] 2020-04-02
[86] 2018-07-19 (PCT/EP2018/069598)
[87] (WO2019/034360)
[30] EP (17186212.1) 2017-08-14

[21] **3,078,288**
[13] A1

[51] **Int.Cl. A61F 2/38 (2006.01) A61B 5/103 (2006.01) A61B 5/11 (2006.01) A61B 5/12 (2006.01)**

[25] EN
[54] **IMPLANT EVALUATION USING ACOUSTIC EMISSIONS**

[54] **EVALUATION D'IMPLANT A L'AIDE D'EMISSIONS ACOUSTIQUES**

[72] ROSS, GRAHAM OLIVER, US
[72] LELIE, HERMAN LOUIS, US
[72] MANN, PAULDEEP SINGH, US
[71] BRUIN BIOMETRICS, LLC, US
[85] 2020-04-01
[86] 2018-11-30 (PCT/US2018/063361)
[87] (WO2019/108966)
[30] US (62/593,210) 2017-11-30

[21] **3,078,289**
[13] A1

[51] **Int.Cl. A61K 31/5513 (2006.01) A61K 9/00 (2006.01) A61P 25/18 (2006.01)**

[25] EN
[54] **STABLE SOLUTIONS OF MULTICYCLIC ANTIDEPRESSANTS**

[54] **SOLUTIONS STABLES D'ANTIDEPRESSEURS MULTICYCLIQUES**

[72] VAN DER STEEN, HANS, NL
[72] JOLLIE, KAREL (DECEASED), NL
[72] VAN RIJN, WILLEM, NL
[71] LEYDEN TECHNOLOGIES B.V., NL
[85] 2020-04-02
[86] 2018-10-05 (PCT/EP2018/077121)
[87] (WO2019/068859)
[30] EP (17195256.7) 2017-10-06

[21] **3,078,291**
[13] A1

[51] **Int.Cl. G06Q 10/00 (2012.01) B65D 25/20 (2006.01) G06K 19/07 (2006.01)**

[25] EN
[54] **HANDLING SYSTEMS, CONTAINERS FOR FOOD AND BEVERAGE, AND CARRIERS**

[54] **SYSTEMES DE MANIPULATION, CONTENANTS POUR ALIMENTS ET BOISSONS, ET SUPPORTS**

[72] QURESHI-ARYA, SAFIA, GB
[71] CUPCLUB LIMITED, GB
[85] 2020-04-02
[86] 2018-10-04 (PCT/GB2018/052835)
[87] (WO2019/069082)
[30] GB (1716228.0) 2017-10-04

[21] **3,078,292**
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) A61K 31/713 (2006.01)**

[25] EN
[54] **PREPARATION AND STORAGE OF LIPOSOMAL RNA FORMULATIONS SUITABLE FOR THERAPY**

[54] **PREPARATION ET STOCKAGE DE FORMULATIONS D'ARN LIPOSOMAL APPROPRIEES POUR UNE THERAPIE**

[72] HAAS, HEINRICH, DE
[72] HORNER, SEBASTIAN, DE
[72] ESPARZA BORQUEZ, ISAAC HERNAN, DE
[72] HILLER, THOMAS MICHAEL, DE
[72] BATES, FERDIA, DE
[71] BIONTECH RNA PHARMACEUTICALS GMBH, DE
[85] 2020-04-02
[86] 2018-10-18 (PCT/EP2018/078587)
[87] (WO2019/077053)
[30] US (62/574,965) 2017-10-20

[21] **3,078,293**
[13] A1

[51] **Int.Cl. A43B 7/08 (2006.01) B29D 35/14 (2010.01)**

[25] EN
[54] **METHOD FOR PRODUCING A SHOE WITH AN AIR PUMP DEVICE, COMPRISING A BELLOWS WHICH IS FORMED IN A MIDSOLE**

[54] **PROCEDE DE FABRICATION D'UNE CHAUSSURE COMPRENANT UN DISPOSITIF DE POMPE A AIR AVEC UN SOUFFLET FORME DANS UNE SEMELLE INTERMEDIAIRE**

[72] MOHLMANN, WILHELM, CH
[72] SCHMIDT, JENS, DE
[71] ATMOS AIRWALK AG, CH
[85] 2020-04-02
[86] 2018-09-03 (PCT/EP2018/073636)
[87] (WO2019/068403)
[30] EP (17194421.8) 2017-10-02

[21] **3,078,294**
[13] A1

[51] **Int.Cl. F16H 49/00 (2006.01) B62M 6/55 (2010.01)**

[25] EN
[54] **TRANSMISSION SYSTEMS FOR VEHICLES**

[54] **SYSTEME DE TRANSMISSION POUR VEHICULES**

[72] EDWARDS, NEIL, GB
[72] MACMARTIN, NEIL, GB
[71] FREEFLOW TECHNOLOGIES LIMITED, GB
[85] 2020-04-02
[86] 2018-10-04 (PCT/GB2018/052838)
[87] (WO2019/069084)
[30] GB (1716311.4) 2017-10-05

PCT Applications Entering the National Phase

[21] **3,078,295**
[13] A1

[51] **Int.Cl. G08C 17/02 (2006.01)**
[25] EN
[54] **PRIVACY MODE FOR A WIRELESS AUDIO DEVICE**
[54] **MODE DE CONFIDENTIALITE POUR UN DISPOSITIF AUDIO SANS FIL**
[72] BAKER, RHODES, US
[72] KARC, JEFFREY, US
[72] KNODE, GALEN, US
[72] NEWMAN, ROBERT C., JR., US
[72] NILL, JOHN, US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2020-04-01
[86] 2018-12-14 (PCT/US2018/065861)
[87] (WO2019/118933)
[30] US (62/598,792) 2017-12-14

[21] **3,078,296**
[13] A1

[51] **Int.Cl. B32B 17/10 (2006.01)**
[25] EN
[54] **COMPOSITE GLASS PANE HAVING CHAMFERED THROUGH-HOLE**
[54] **VITRE EN VERRE FEUILLETE AVEC TROU TRAVERSANT CHANFREINE**
[72] WESSBERG, HENRIK, SE
[72] UEBELACKER, STEFAN, DE
[72] JACQUES, FLORENCE, DE
[72] YATIM, ALEXANDRA, DE
[71] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2020-04-02
[86] 2018-09-17 (PCT/EP2018/074998)
[87] (WO2019/068448)
[30] EP (17194767.4) 2017-10-04

[21] **3,078,297**
[13] A1

[51] **Int.Cl. A61B 5/021 (2006.01) A61B 5/00 (2006.01) A61B 5/0452 (2006.01) A61B 8/00 (2006.01) A61B 8/08 (2006.01) A61B 5/0205 (2006.01)**
[25] EN
[54] **NON-INVASIVE AMBULATORY MONITORING OF PULSE TRANSIT TIME**
[54] **SURVEILLANCE AMBULATOIRE SANS EFFRACTION DU TEMPS DE TRANSIT DE POULS**
[72] SPENCER, DARREN, GB
[72] BALMFORTH, PETER, GB
[71] DP HOLDING (U.K) LTD., GB
[85] 2020-04-02
[86] 2018-10-11 (PCT/GB2018/052909)
[87] (WO2019/073236)
[30] GB (1716661.2) 2017-10-11

[21] **3,078,298**
[13] A1

[51] **Int.Cl. C23C 4/10 (2016.01) C23C 4/12 (2016.01) F01D 25/00 (2006.01)**
[25] EN
[54] **EROSION AND CMAS RESISTANT COATING FOR PROTECTING EBC AND CMC LAYERS AND THERMAL SPRAY COATING METHOD**
[54] **REVETEMENT RESISTANT A L'EROSION ET A L'OXYDE DE CALCIUM-MAGNESIE-ALUMINE-SILICE POUR PROTEGER DES COUCHES DE REVETEMENT DE BARRIERE ENVIRONNEMENTALE ET DE COMPOSITE A MATRICE CERAMIQUE ET PROCEDE DE REVETEMENT PAR PULVERISATION THERMIQUE**
[72] CHEN, DIANYING, US
[72] DAMBRA, CHRIS, US
[71] OERLIKON METCO (US) INC., US
[85] 2020-04-01
[86] 2018-12-18 (PCT/US2018/066239)
[87] (WO2019/126174)
[30] US (62/607,514) 2017-12-19

[21] **3,078,299**
[13] A1

[51] **Int.Cl. B01D 53/26 (2006.01) B65D 81/00 (2006.01) B65D 81/24 (2006.01) B65D 81/26 (2006.01) C01D 3/06 (2006.01) C01D 3/22 (2006.01) C07C 273/00 (2006.01) C07C 273/02 (2006.01)**
[25] EN
[54] **COMPOSITION CONTAINING UREA FOR USE IN BRINE FORMATION**
[54] **COMPOSITION CONTENANT DE L'UREE DESTINEE A ETRE UTILISEE DANS LA FORMATION DE SAUMURE**
[72] FARMER, RACHEL ANN, US
[72] SHIREMAN, DENNIS EARL, US
[72] HAWES, CHARLES L., US
[72] HEALEY, BRETT JUSTIN, US
[72] PETKUS, MATTHEW MICHAEL, US
[71] W.M. BARR & COMPANY, INC., US
[85] 2020-04-01
[86] 2018-10-12 (PCT/US2018/055537)
[87] (WO2019/075281)
[30] US (62/571,825) 2017-10-13
[30] US (16/157,275) 2018-10-11

[21] **3,078,300**
[13] A1

[51] **Int.Cl. A62B 35/00 (2006.01) A62B 35/04 (2006.01) E04G 21/32 (2006.01)**
[25] EN
[54] **SUPPORT POST ASSEMBLY**
[54] **ENSEMBLE MONTANT DE SUPPORT**
[72] NEWING, WILLIAM, GB
[72] STOCKBRIDGE, CHRIS, GB
[72] AUSTON, OLIVER, GB
[71] CHECKMATE LIFTING & SAFETY LTD, GB
[85] 2020-04-02
[86] 2018-10-15 (PCT/GB2018/052965)
[87] (WO2019/077327)
[30] GB (1716993.9) 2017-10-16

Demandes PCT entrant en phase nationale

[21] **3,078,301**
[13] A1

[51] **Int.Cl. C09J 183/06 (2006.01) C08K 3/014 (2018.01) C08G 77/20 (2006.01) C08L 83/00 (2006.01) C09J 7/00 (2018.01)**

[25] EN

[54] **OPTICALLY CLEAR PRESSURE SENSITIVE ADHESIVES AND USES THEREOF**

[54] **ADHESIFS SENSIBLES A LA PRESSION OPTIQUEMENT TRANSPARENTS ET UTILISATIONS ASSOCIEES**

[72] SHAH, GEETANJALIBEN, US

[71] LIU, YUXIA, US

[71] HENKEL IP & HOLDING GMBH, DE

[85] 2020-04-01

[86] 2018-12-26 (PCT/US2018/067468)

[87] (WO2019/133580)

[30] US (62/610,555) 2017-12-27

[21] **3,078,302**
[13] A1

[25] EN

[54] **WEARABLE ULTRASONIC DEVICE**

[54] **DISPOSITIF ULTRASONORE PORTABLE**

[72] SONNENSCHNEIN, LAZAR, IL

[71] PULSENMORE LTD., IL

[85] 2020-04-02

[86] 2018-10-07 (PCT/IL2018/051087)

[87] (WO2019/077598)

[30] IL (255098) 2017-10-17

[21] **3,078,303**
[13] A1

[51] **Int.Cl. A61H 15/00 (2006.01)**

[25] EN

[54] **MASSAGE APPARATUS AND METHOD OF USE**

[54] **APPAREIL DE MASSAGE ET SON PROCEDE D'UTILISATION**

[72] NASH, PAUL, AU

[71] 3RD WHEEL PRODUCTIONS PTY LTD, AU

[85] 2020-04-02

[86] 2017-10-06 (PCT/IB2017/056169)

[87] (WO2019/069118)

[21] **3,078,304**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/30 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **CHIMERIC ANTIGEN RECEPTORS THAT BIND TO SSEA4 AND USES THEREOF**

[54] **RECEPTEURS ANTIGENIQUES CHIMERIQUES SE LIANT AU SSEA4 ET UTILISATIONS ASSOCIEES**

[72] CHEN, LAN BO, US

[71] CHEN, LAN BO, US

[85] 2020-04-01

[86] 2019-03-19 (PCT/US2019/022861)

[87] (WO2019/183025)

[30] US (15/926,382) 2018-03-20

[21] **3,078,305**
[13] A1

[51] **Int.Cl. A61K 35/747 (2015.01)**

[25] EN

[54] **A PHARMACEUTICAL COMPOSITION COMPRISING A PROBIOTIC AND A PREBIOTIC TO PREVENT ACQUISITION OF OR TREAT DRUG RESISTANT INFECTIONS**

[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT UN PROBIOTIQUE ET UN PREBIOTIQUE POUR PREVENIR L'ACQUISITION D'INFECTIONS PHARMACORESISTANTES OU LES TRAITER**

[72] MISRA, PRAVAS RANJAN, IN

[71] ASIAN INSTITUTE OF PUBLIC HEALTH, IN

[85] 2020-04-02

[86] 2018-10-04 (PCT/IB2018/057720)

[87] (WO2019/069266)

[30] IN (201731035103) 2017-10-04

[21] **3,078,306**
[13] A1

[51] **Int.Cl. A61K 35/747 (2015.01)**

[25] EN

[54] **A PHARMACEUTICAL COMPOSITION COMPRISING A COMBINATION OF PROBIOTIC AND PREBIOTIC TO TREAT STUNTING**

[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT UNE COMBINAISON DE PROBIOTIQUE ET DE PREBIOTIQUE POUR TRAITER LE RETARD DE CROISSANCE CHEZ LES ENFANTS**

[72] MISRA, PRAVAS RANJAN, IN

[71] ASIAN INSTITUTE OF PUBLIC HEALTH, IN

[85] 2020-04-02

[86] 2018-10-04 (PCT/IB2018/057721)

[87] (WO2019/069267)

[30] IN (201731035101) 2017-10-04

[21] **3,078,307**
[13] A1

[51] **Int.Cl. G06N 10/00 (2019.01)**

[25] EN

[54] **FERMIONIC SIMULATION GATES**

[54] **PORTES DE SIMULATION FERMIONIQUES**

[72] BABBUSH, RYAN, US

[71] GOOGLE LLC, US

[85] 2020-04-02

[86] 2017-10-02 (PCT/US2017/054714)

[87] (WO2019/070228)

[21] **3,078,308**
[13] A1

[51] **Int.Cl. A61B 3/10 (2006.01) G06K 9/00 (2006.01)**

[25] EN

[54] **IRIS EDGE DETECTION IN OPTICAL COHERENCE TOMOGRAPHY**

[54] **DETECTION DE BORD D'IRIS EN TOMOGRAPHIE PAR COHERENCE OPTIQUE**

[72] REN, HUGANG, US

[72] AL-QAISI, MUHAMMAD, US

[71] ALCON INC., CH

[85] 2020-04-02

[86] 2018-11-28 (PCT/IB2018/059410)

[87] (WO2019/106565)

[30] US (62/591,563) 2017-11-28

PCT Applications Entering the National Phase

[21] **3,078,309**
[13] A1

[51] **Int.Cl. A61K 31/428 (2006.01) A61P 35/00 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 487/22 (2006.01)**

[25] EN

[54] **METHODS FOR ADMINISTERING STING AGONISTS**

[54] **METHODES D'ADMINISTRATION D'AGONISTES DE STING**

[72] PESIRIDIS, GEORGE SCOTT, US

[72] RAMANJULU, JOSHI M., US

[72] TRAN, JEAN-LUC, US

[72] YANG, JINGSONG, US

[71] GLAXOSMITHKLINE
INTELLECTUAL PROPERTY
DEVELOPMENT LIMITED, GB

[85] 2020-04-02

[86] 2018-10-04 (PCT/IB2018/057738)

[87] (WO2019/069275)

[30] US (62/568,392) 2017-10-05

[21] **3,078,310**
[13] A1

[51] **Int.Cl. E06B 3/663 (2006.01)**

[25] EN

[54] **SPACER FOR PHOTOVOLTAIC APPLICATIONS**

[54] **ESPACEUR POUR APPLICATIONS PHOTOVOLTAIQUES**

[72] SALA, PAOLO, DE

[72] SOMMER, PETRA, DE

[71] TECHNOFORM GLASS
INSULATION HOLDING GMBH, DE

[85] 2020-04-02

[86] 2018-10-29 (PCT/EP2018/079585)

[87] (WO2019/086384)

[30] EP (17199279.5) 2017-10-30

[21] **3,078,311**
[13] A1

[51] **Int.Cl. A61M 25/01 (2006.01) A61M 25/09 (2006.01)**

[25] EN

[54] **STEERABLE DEVICE AND SYSTEM**

[54] **DISPOSITIF ET SYSTEME ORIENTABLE**

[72] PETITPIERRE, GUILLAUME, CH

[72] BOERS, MARC, CH

[72] RENAUD, PHILIPPE, CH

[71] ECOLE POLYTECHNIQUE
FEDERALE DE LAUSANNE (EPFL),
CH

[85] 2020-04-02

[86] 2017-10-24 (PCT/IB2017/056592)

[87] (WO2019/081962)

[21] **3,078,312**
[13] A1

[51] **Int.Cl. C07D 471/14 (2006.01) A61K 31/4375 (2006.01) A61P 31/20 (2006.01)**

[25] EN

[54] **CHEMICAL COMPOUNDS**

[54] **COMPOSES CHIMIQUES**

[72] CATALANO, JOHN G., US

[72] CHONG, PEK YOKE, US

[72] DICKSON, HAMILTON D., US

[72] LEIVERS, MARTIN R., US

[72] WEATHERHEAD, JASON GORDON,
US

[71] GLAXOSMITHKLINE
INTELLECTUAL PROPERTY
DEVELOPMENT LIMITED, GB

[85] 2020-04-02

[86] 2018-10-05 (PCT/IB2018/057767)

[87] (WO2019/069293)

[30] US (62/568,633) 2017-10-05

[30] US (62/570,509) 2017-10-10

[30] US (62/681,146) 2018-06-06

[30] US (62/683,859) 2018-06-12

[21] **3,078,313**
[13] A1

[51] **Int.Cl. G16H 50/20 (2018.01) G16H 50/50 (2018.01) G16H 50/70 (2018.01) G06N 20/00 (2019.01)**

[25] EN

[54] **MEDICAL SYSTEM FOR DIAGNOSING COGNITIVE DISEASE PATHOLOGY AND/OR OUTCOME**

[54] **SYSTEME MEDICAL POUR DIAGNOSTIQUER UNE PATHOLOGIE ET/OU UN RESULTAT DE MALADIE COGNITIVE**

[72] AHMAD, RABIA, GB

[72] FUENTES, EMMANUEL, US

[72] NGUYEN, QUANG TRUNG, FR

[72] BUCKLEY, CHRISTOPHER, GB

[72] WOLBER, JAN, GB

[71] GE HEALTHCARE LIMITED, GB

[85] 2020-04-02

[86] 2018-10-31 (PCT/EP2018/079905)

[87] (WO2019/086555)

[30] US (62/579,630) 2017-10-31

[21] **3,078,314**
[13] A1

[51] **Int.Cl. F17D 3/01 (2006.01) F16K 17/20 (2006.01) F16L 55/07 (2006.01) F16L 55/10 (2006.01)**

[25] EN

[54] **FLUID DELIVERY LINE ASSEMBLY WITH SHUT-OFF VALVE ASSEMBLY**

[54] **ENSEMBLE CONDUITE DE DISTRIBUTION DE FLUIDE AVEC ENSEMBLE CLAPET D'ARRET**

[72] BISHOFF, GUY, CA

[72] BISHOFF, MARK, CA

[71] LORAX SYSTEMS INC., CA

[85] 2020-04-02

[86] 2017-10-24 (PCT/IB2017/056597)

[87] (WO2018/078526)

[30] US (62/411,742) 2016-10-24

[21] **3,078,315**
[13] A1

[51] **Int.Cl. F04B 49/06 (2006.01) E21B 43/12 (2006.01) E21B 43/26 (2006.01) F04B 47/00 (2006.01) F04B 49/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR UNIVERSAL FRACTURING SITE EQUIPMENT MONITORING**

[54] **SYSTEME ET PROCEDE DE SURVEILLANCE UNIVERSELLE D'EQUIPEMENT DE SITE DE FRACTURATION**

[72] STEWART, TREVOR DEAN, US

[72] COX, LLOYD GREGORY, US

[72] SKURDALSVOLD, SCOTT, US

[72] WAGNER, BRYAN, US

[71] S.P.M. FLOW CONTROL, INC., US

[85] 2020-04-02

[86] 2018-09-30 (PCT/US2018/053668)

[87] (WO2019/070544)

[30] US (62/567,114) 2017-10-02

Demandes PCT entrant en phase nationale

[21] **3,078,316**
[13] A1

[51] **Int.Cl. G07F 11/00 (2006.01) G07F 11/10 (2006.01) A61F 15/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD TO DISPENSE FEMININE HYGIENE PRODUCTS USING A MOTION SENSOR**

[54] **APPAREIL ET PROCEDURE DE DISTRIBUTION DE PRODUITS D'HYGIENE FEMININE A L'AIDE D'UN CAPTEUR DE MOUVEMENT**

[72] MORAD, FRED I., US
[72] ACOSTA, ROBERT A., US
[71] TRANZONIC COMPANIES, US
[85] 2020-04-02
[86] 2018-08-07 (PCT/US2018/045540)
[87] (WO2019/074571)
[30] US (62/570,596) 2017-10-10
[30] US (62/613,345) 2018-01-03

[21] **3,078,317**
[13] A1

[51] **Int.Cl. A61K 38/47 (2006.01) A61K 31/7048 (2006.01) A61K 38/43 (2006.01) A61P 19/00 (2006.01)**

[25] EN

[54] **BIOCONVERSION OF OLEUROPEIN**

[54] **BIOCONVERSION D'OLEUROPEINE**

[72] HORCAJADA, MARIE NOELLE, FR
[72] DUBOUX, STEPHANE, CH
[72] POQUET, LAURE, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2020-04-02
[86] 2018-11-08 (PCT/EP2018/080543)
[87] (WO2019/092065)
[30] EP (17200582.9) 2017-11-08

[21] **3,078,318**
[13] A1

[51] **Int.Cl. G02B 6/54 (2006.01) H02G 1/08 (2006.01)**

[25] EN

[54] **HAND ASSIST PUSHING TOOL FOR CABLES**

[54] **OUTIL DE POUSSEE A ASSISTANCE MANUELLE POUR CABLES**

[72] LEESON, KIM, GB
[72] SHAUN, TREZISE, GB
[72] ETHERIDGE, HARVEY, GB
[71] PPC BROADBAND FIBER LTD., GB
[85] 2020-04-02
[86] 2018-10-02 (PCT/IB2018/001221)
[87] (WO2019/069131)
[30] US (62/566,725) 2017-10-02
[30] US (62/626,279) 2018-02-05

[21] **3,078,320**
[13] A1

[25] EN

[54] **METHOD FOR TREATING AMYOTROPHIC LATERAL SCLEROSIS AND METHOD FOR SUPPRESSING PROGRESS OF AMYOTROPHIC LATERAL SCLEROSIS**

[54] **METHODE POUR TRAITER LA SCLEROSE LATERALE AMYOTROPHIQUE ET METHODE POUR EMPECHER LA PROGRESSION DE LA SCLEROSE LATERALE AMYOTROPHIQUE**

[72] MERRILL, CHARLOTTE, US
[72] AGNESE, WENDY, US
[72] ATASSI, NAZEM, US
[72] GRABOWSKY, TARA, US
[72] SAKATA, TAKESHI, JP
[71] MITSUBISHI TANABE PHARMA CORPORATION, JP
[85] 2020-04-02
[86] 2018-02-28 (PCT/US2018/020184)
[87] (WO2019/070308)
[30] US (62/567,873) 2017-10-04

[21] **3,078,321**
[13] A1

[25] EN

[54] **ARTICLE HANDLING DEVICE FOR ERECTING CARTONS**

[54] **DISPOSITIF DE MANIPULATION D'ARTICLE POUR MONTER DES CARTONS**

[72] THIERRY, WILLY G., FR
[71] WESTROCK PACKAGING SYSTEMS, LLC, US
[85] 2020-04-02
[86] 2018-09-28 (PCT/US2018/053345)
[87] (WO2019/079016)
[30] US (62/574,451) 2017-10-19

[21] **3,078,322**
[13] A1

[51] **Int.Cl. B23K 35/24 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/42 (2006.01) C22C 38/44 (2006.01) C22C 38/52 (2006.01) C22C 38/58 (2006.01)**

[25] EN

[54] **AUSTENITIC STAINLESS STEEL WELD METAL AND WELDED STRUCTURE**

[54] **METAL SOUDE D'ACIER INOXYDABLE A BASE D'AUSTENITE, ET STRUCTURE SOUDEE**

[72] HIRATA, HIROYUKI, JP
[72] TANAKA, KATSUKI, JP
[72] JOTOKU, KANA, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2020-04-02
[86] 2018-10-03 (PCT/JP2018/037097)
[87] (WO2019/070000)
[30] JP (2017-193688) 2017-10-03

[21] **3,078,323**
[13] A1

[25] EN

[54] **OPTICALLY TRANSPARENT POLYIMIDES**

[54] **POLYIMIDES OPTIQUEMENT TRANSPARENTS**

[72] MCNAMARA, JOHN, US
[72] HARVEY, JOHN D., US
[72] GRAHAM, MATTHEW J., US
[72] SCHERGER, CAROLYN, US
[71] ZYMERGEN INC., US
[71] AKRON POLYMER SYSTEMS, INC., US
[85] 2020-04-02
[86] 2018-10-03 (PCT/US2018/054260)
[87] (WO2019/156717)
[30] US (62/568,745) 2017-10-05

PCT Applications Entering the National Phase

[21] **3,078,325**
[13] A1

[51] **Int.Cl. C07D 495/18 (2006.01) A61K 31/365 (2006.01) A61K 31/381 (2006.01) A61K 31/407 (2006.01) C07D 333/38 (2006.01) C07D 493/08 (2006.01) C07D 495/04 (2006.01)**

[25] EN

[54] **SYNTHESIS OF CANTHARIDIN**

[54] **SYNTHÈSE DE CANTHARIDINE**

[72] DAVIDSON, MATTHEW GENE, US

[72] EKLOV, BRIAN MATTHEW, US

[72] WUTS, PETER, US

[72] LOERTSCHER, BRAD MELVIN, US

[72] SCHOW, STEVEN R., US

[71] VERRICA PHARMACEUTICALS, INC., US

[85] 2020-04-02

[86] 2018-10-04 (PCT/US2018/054373)

[87] (WO2019/070980)

[30] US (62/568,004) 2017-10-04

[21] **3,078,328**
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 16/21 (2019.01) G06F 16/27 (2019.01) H04L 12/16 (2006.01)**

[25] EN

[54] **DECLARATIVE SMART CONTRACTS**

[54] **CONTRATS INTELLIGENTS DECLARATIFS**

[72] MICALI, SILVIO, US

[71] ALGORAND INC., US

[85] 2020-04-02

[86] 2018-10-04 (PCT/US2018/054311)

[87] (WO2019/070938)

[30] US (62/580,757) 2017-11-02

[30] US (62/567,864) 2017-10-04

[30] US (62/570,256) 2017-10-10

[30] US (62/607,558) 2017-12-19

[30] US (62/632,944) 2018-02-20

[30] US (62/643,331) 2018-03-15

[21] **3,078,331**
[13] A1

[51] **Int.Cl. B23C 5/20 (2006.01)**

[25] EN

[54] **SQUARE-SHAPED CUTTING INSERT HAVING CURVED SECONDARY AND CORNER CUTTING EDGES, AND ROTARY CUTTING TOOL**

[54] **INSERT DE COUPE EN CARRE AYANT DES BORDS DE COUPE SECONDAIRES INCURVES ET D'ANGLE, ET OUTIL DE COUPE ROTATIF**

[72] SHAPIR, ADI, IL

[71] ISCAR LTD., IL

[85] 2020-04-02

[86] 2018-09-13 (PCT/IL2018/051028)

[87] (WO2019/073468)

[30] US (15/727,770) 2017-10-09

[21] **3,078,326**
[13] A1

[51] **Int.Cl. E01F 15/04 (2006.01)**

[25] EN

[54] **PROTECTION DEVICE AND ROAD BARRIER FOR MOTORCYCLISTS**

[54] **DISPOSITIF DE PROTECTION ET BARRIERE ROUTIERE POUR MOTOCYCLISTES**

[72] COFANO, CLAUDIA, BE

[72] GREMLING, MICHAEL, BE

[71] ARCELORMITTAL, LU

[85] 2020-04-02

[86] 2018-12-11 (PCT/IB2018/059853)

[87] (WO2019/116211)

[30] IB (PCT/IB2017/001537) 2017-12-11

[21] **3,078,329**
[13] A1

[51] **Int.Cl. H04B 7/0417 (2017.01) H04B 7/06 (2006.01) H04L 5/00 (2006.01)**

[25] EN

[54] **EFFICIENT SRS RESOURCE INDICATION METHODS**

[54] **PROCEDES EFFICACES D'INDICATION DE RESSOURCE DE SIGNAUX SRS**

[72] FAXER, SEBASTIAN, SE

[72] NILSSON, ANDREAS, SE

[72] HARRISON, ROBERT MARK, US

[72] PETERSSON, SVEN, SE

[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE

[85] 2020-04-02

[86] 2018-10-02 (PCT/IB2018/057656)

[87] (WO2019/069236)

[30] US (62/567,156) 2017-10-02

[21] **3,078,333**
[13] A1

[51] **Int.Cl. B23K 35/24 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/48 (2006.01) C22C 38/52 (2006.01) C22C 38/58 (2006.01)**

[25] EN

[54] **AUSTENITIC STAINLESS STEEL WELD METAL AND WELDED STRUCTURE**

[54] **METAL SOUDE D'ACIER INOXYDABLE A BASE D'AUSTENITE, ET STRUCTURE SOUDEE**

[72] HIRATA, HIROYUKI, JP

[72] JOTOKU, KANA, JP

[72] TANAKA, KATSUKI, JP

[71] NIPPON STEEL CORPORATION, JP

[85] 2020-04-02

[86] 2018-10-03 (PCT/JP2018/037098)

[87] (WO2019/070001)

[30] JP (2017-193689) 2017-10-03

Demandes PCT entrant en phase nationale

[21] **3,078,335**
[13] A1

[51] **Int.Cl. A61K 31/198 (2006.01) A61K 31/401 (2006.01) A61K 31/405 (2006.01) A61K 31/4172 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **MATERIALS AND METHODS FOR INHIBITING TUMOR GROWTH**

[54] **MATERIAUX ET PROCEDES D'INHIBITION DE CROISSANCE DE TUMEUR**

[72] VIDYASAGAR, SADASIVAN, US

[72] GUPTA, RESHU, US

[71] UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED, US

[85] 2020-04-02

[86] 2018-10-02 (PCT/US2018/054015)

[87] (WO2019/070750)

[30] US (62/566,787) 2017-10-02

[21] **3,078,336**
[13] A1

[51] **Int.Cl. B25B 23/12 (2006.01) B25B 27/14 (2006.01)**

[25] EN

[54] **MILLING KIT INCLUDING BORE-LESS INDEXABLE INSERT AND POSITIONING TOOL HAVING AN INSERT HOLDING SURFACE**

[54] **KIT DE FRAISAGE COMPRENANT UN INSERT INDEXABLE SANS TROU ET OUTIL DE POSITIONNEMENT AYANT UNE SURFACE DE SUPPORT D'INSERT**

[72] HECHT, GIL, IL

[71] ISCAR LTD., IL

[85] 2020-04-02

[86] 2018-09-16 (PCT/IL2018/051035)

[87] (WO2019/077596)

[30] US (15/784,300) 2017-10-16

[21] **3,078,338**
[13] A1

[51] **Int.Cl. B23C 5/22 (2006.01) B23B 31/06 (2006.01) B23B 41/14 (2006.01) B25B 23/10 (2006.01) B25B 23/12 (2006.01)**

[25] EN

[54] **CUTTING TOOL AND UNDERSIZED BORE-LESS INDEXABLE INSERT THEREFOR**

[54] **OUTIL DE COUPE ET INSERT INDEXABLE NON TRAVERSANT DE TAILLE INFERIEURE ASSOCIE**

[72] HECHT, GIL, IL

[71] ISCAR LTD., IL

[85] 2020-04-02

[86] 2018-09-16 (PCT/IL2018/051036)

[87] (WO2019/077597)

[30] US (62/572,611) 2017-10-16

[21] **3,078,340**
[13] A1

[51] **Int.Cl. A01H 5/00 (2018.01) A23L 33/105 (2016.01) A01H 6/28 (2018.01)**

[25] EN

[54] **A NOVEL CANNABIS PRODUCTION PROCESS AND PRODUCTS THEREOF**

[54] **NOUVEAU PROCEDE DE PRODUCTION DE CANNABIS ET PRODUITS ASSOCIES**

[72] MELOUL, JOSEPH, IL

[71] CURO MEDICAL LTD., IL

[85] 2020-04-02

[86] 2018-10-03 (PCT/IL2018/051079)

[87] (WO2019/069309)

[30] US (62/567,248) 2017-10-03

[21] **3,078,341**
[13] A1

[51] **Int.Cl. H04R 1/10 (2006.01) G10K 11/162 (2006.01) H04R 1/02 (2006.01) H04R 25/02 (2006.01)**

[25] EN

[54] **ACOUSTIC EAR FITTING**

[54] **ADAPTATEUR D'OREILLE ACOUSTIQUE**

[72] SMITH, BENJAMIN A., US

[72] VONESH, MICHAEL J., US

[71] W. L. GORE & ASSOCIATES, INC., US

[85] 2020-04-02

[86] 2018-10-02 (PCT/US2018/053975)

[87] (WO2019/070713)

[30] US (62/567,394) 2017-10-03

[21] **3,078,342**
[13] A1

[51] **Int.Cl. G01N 29/024 (2006.01) G01M 3/24 (2006.01) G01N 29/44 (2006.01)**

[25] EN

[54] **ULTRASONIC WAVE TRANSMITTER, PROPAGATION TIME MEASUREMENT DEVICE, GAS CONCENTRATION MEASUREMENT DEVICE, PROPAGATION TIME MEASUREMENT PROGRAM, AND PROPAGATION TIME MEASUREMENT METHOD**

[54] **EMETTEUR D'ONDES ULTRASONORES, DISPOSITIF DE MESURE DU TEMPS DE PROPAGATION, DISPOSITIF DE MESURE DE LA CONCENTRATION EN GAZ, PROGRAMME DE MESURE DU TEMPS DE PROPAGATION ET PROCEDE DE MESURE DU TEMPS DE PROPAGATION**

[72] TSUJIYA, KOUICHI, JP

[72] SHINFUKU, YOSHIFUMI, JP

[72] TORIYAMA, YASUHIRO, JP

[71] UEDA JAPAN RADIO CO., LTD., JP

[71] JAPAN RADIO CO., LTD., JP

[71] NISSHINBO HOLDINGS INC., JP

[85] 2020-04-02

[86] 2018-09-28 (PCT/JP2018/036245)

[87] (WO2019/069803)

[30] JP (2017-194478) 2017-10-04

[21] **3,078,344**
[13] A1

[51] **Int.Cl. C08G 59/18 (2006.01) C08J 5/04 (2006.01) C08J 5/24 (2006.01) C08K 7/02 (2006.01) C08L 63/00 (2006.01)**

[25] EN

[54] **CURABLE RESIN COMPOSITION AND FIBER REINFORCED RESIN MATRIX COMPOSITE MATERIAL**

[54] **COMPOSITION DE RESINE DURCISSABLE ET MATERIAU COMPOSITE A MATRICE DE RESINE RENFORCEE PAR DES FIBRES**

[72] ASPIN, IAN, GB

[72] DREUILLES, NICOLAS, US

[72] MEEGAN, JONATHAN, GB

[71] CYTEC INDUSTRIES INC., US

[85] 2020-04-02

[86] 2018-10-05 (PCT/US2018/054662)

[87] (WO2019/074795)

[30] US (62/569,856) 2017-10-09

PCT Applications Entering the National Phase

[21] **3,078,346**
[13] A1

[51] **Int.Cl. H02K 15/02 (2006.01) H02K 1/04 (2006.01) H02K 1/12 (2006.01) H02K 1/16 (2006.01)**

[25] EN

[54] **CORE SHEET AND METHOD OF MANUFACTURING SAME**

[54] **FEUILLE DE NOYAU ET SON PROCEDE DE FABRICATION**

[72] AOKI, TETSUYA, JP

[72] TANIGUCHI, MAKOTO, JP

[72] ISHIZUKA, ATSUO, JP

[72] DOI, SATOSHI, JP

[72] OKAZAKI, KEIICHI, JP

[72] FUJIMURA, HIROSHI, JP

[72] TAKASE, TATSUYA, JP

[71] DENSO CORPORATION, JP

[71] NIPPON STEEL CORPORATION, JP

[85] 2020-04-02

[86] 2018-10-05 (PCT/JP2018/037368)

[87] (WO2019/070054)

[30] JP (2017-195345) 2017-10-05

[21] **3,078,347**
[13] A1

[51] **Int.Cl. C07D 213/56 (2006.01) A61K 31/415 (2006.01) A61K 31/437 (2006.01) A61K 31/4409 (2006.01) A61K 31/4433 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/4545 (2006.01) A61K 31/4725 (2006.01) A61K 31/536 (2006.01) C07D 211/26 (2006.01) C07D 213/81 (2006.01) C07D 231/12 (2006.01) C07D 401/04 (2006.01) C07D 401/12 (2006.01) C07D 405/12 (2006.01) C07D 413/12 (2006.01) C07D 487/04 (2006.01) C07D 513/04 (2006.01)**

[25] EN

[54] **AMIDE COMPOUNDS AS KINASE INHIBITORS**

[54] **COMPOSES AMIDES EN TANT QU'INHIBITEURS DE KINASE**

[72] WANG, TONG, US

[72] GATELY, STEPHEN, US

[71] TRANSLATIONAL DRUG DEVELOPMENT, LLC, US

[85] 2020-04-02

[86] 2017-10-24 (PCT/US2017/058071)

[87] (WO2018/081108)

[30] US (62/411,908) 2016-10-24

[21] **3,078,351**
[13] A1

[51] **Int.Cl. C09K 8/524 (2006.01) C10L 10/16 (2006.01)**

[25] EN

[54] **PARAFFIN INHIBITION BY SOLUBILIZED CALIXARENES**

[54] **INHIBITION DE LA PARAFFINE PAR DES CALIXARENES SOLUBILISES**

[72] CABLE, ROBERT, US

[71] SI GROUP, INC., US

[85] 2020-04-02

[86] 2018-01-24 (PCT/US2018/015087)

[87] (WO2019/070304)

[30] US (62/567,629) 2017-10-03

[21] **3,078,352**
[13] A1

[51] **Int.Cl. C09K 8/524 (2006.01) C10L 10/16 (2006.01)**

[25] EN

[54] **PARAFFIN INHIBITION BY CALIXARENES**

[54] **INHIBITION DE LA PARAFFINE PAR DES CALIXARENES**

[72] CABLE, ROBERT, US

[71] SI GROUP, INC., US

[85] 2020-04-02

[86] 2018-01-24 (PCT/US2018/015093)

[87] (WO2019/070305)

[30] US (62/567,639) 2017-10-03

[21] **3,078,354**
[13] A1

[51] **Int.Cl. F16J 15/06 (2006.01) F16L 23/18 (2006.01) F16L 25/02 (2006.01)**

[25] EN

[54] **GASKET WITH ELECTRICAL ISOLATING COATINGS**

[54] **JOINT D'ETANCHEITE A REVETEMENTS D'ISOLATION ELECTRIQUE**

[72] BROWN, IAN, US

[72] BUTTIMER, RYAN, US

[72] TANNER, T. SCOTT, US

[71] GARLOCK PIPELINE TECHNOLOGIES, INC., US

[85] 2020-04-02

[86] 2018-01-30 (PCT/US2018/016011)

[87] (WO2019/070306)

[30] US (15/726,080) 2017-10-05

[21] **3,078,357**
[13] A1

[51] **Int.Cl. H04W 4/02 (2018.01) G01C 21/20 (2006.01)**

[25] EN

[54] **MOBILE TAG SENSING AND LOCATION ESTIMATION**

[54] **DETECTION D'ETIQUETTE MOBILE ET CALCUL D'EMPLACEMENT**

[72] KEAL, WILLIAM KERRY, US

[72] MOHAN, TANUJ, US

[72] GORDON, GAIL, US

[71] ENLIGHTED, INC., US

[85] 2020-04-02

[86] 2018-09-27 (PCT/US2018/053048)

[87] (WO2019/070493)

[30] US (62/568,032) 2017-10-04

[30] US (15/953,466) 2018-04-15

[21] **3,078,358**
[13] A1

[51] **Int.Cl. G01N 33/38 (2006.01) B33Y 50/02 (2015.01) B33Y 70/00 (2020.01) B28B 1/00 (2006.01) B28B 17/00 (2006.01) G01D 21/02 (2006.01) G01K 13/00 (2006.01)**

[25] EN

[54] **MONITORING SYSTEM FOR THREE-DIMENSIONAL PRINTING**

[54] **SYSTEME DE SURVEILLANCE POUR L'IMPRESSION EN TROIS DIMENSIONS**

[72] MARTINEZ, DANIEL, US

[72] SERGISON, DANIEL P., US

[72] CAI, ZHIJUN, US

[72] CLAR, JEAN-JACQUES, US

[72] REINERS, ERIC A., US

[72] HODEL, BENJAMIN J., US

[72] NAASZ, BENJAMIN L., US

[71] CATERPILLAR INC., US

[85] 2020-04-01

[86] 2018-09-18 (PCT/US2018/051433)

[87] (WO2019/074624)

[30] US (15/730,071) 2017-10-11

Demandes PCT entrant en phase nationale

[21] **3,078,359**
[13] A1

[51] **Int.Cl. H02N 11/00 (2006.01) F25B 21/00 (2006.01) H01L 35/00 (2006.01) H02M 3/00 (2006.01) H02P 7/00 (2016.01)**

[25] EN

[54] **THERMO-ELECTRIC ELEMENT DRIVEN BY ELECTRIC PULSES**

[54] **ELEMENT THERMO-ELECTRIQUE ENTRAINE PAR DES IMPULSIONS ELECTRIQUES**

[72] CARVER, DAVID REGINALD, US
[72] REYNOLDS, SEAN WILLIAM, US
[72] HALL, SEAN CLAUDIUS, US
[71] CALAGEN, INC., US
[85] 2020-04-01
[86] 2018-09-20 (PCT/US2018/052048)
[87] (WO2019/070416)
[30] US (62/568,244) 2017-10-04

[21] **3,078,361**
[13] A1

[51] **Int.Cl. G01C 19/5712 (2012.01)**

[25] EN

[54] **MICRO DEVICES FORMED BY FLEX CIRCUIT SUBSTRATES**

[54] **MICRO-DISPOSITIFS FORMES PAR DES SUBSTRATS DE CIRCUIT FLEXIBLE**

[72] MARSH, STEPHEN ALAN, US
[71] ENCITE LLC, US
[85] 2020-04-02
[86] 2018-10-01 (PCT/US2018/053691)
[87] (WO2019/070557)
[30] US (62/566,591) 2017-10-02

[21] **3,078,364**
[13] A1

[51] **Int.Cl. A61F 13/02 (2006.01) A61F 13/00 (2006.01) A61M 25/02 (2006.01)**

[25] EN

[54] **REINFORCED WINDOW DRESSING**

[54] **PANSEMENT A FENETRE RENFORCE**

[72] STANKIEWICZ, MICHAEL J., US
[72] NOSKOWICZ, DAVID S., US
[71] MEDLINE INDUSTRIES, INC., US
[85] 2020-04-02
[86] 2018-10-01 (PCT/US2018/053808)
[87] (WO2019/070610)
[30] US (62/566,890) 2017-10-02

[21] **3,078,365**
[13] A1

[51] **Int.Cl. A61B 18/20 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR DELIVERING A STIMULUS TO AN OCCLUSIVE IMPLANT**

[54] **PROCEDE ET APPAREIL PERMETTANT D'ADMINISTRER UN STIMULUS A UN IMPLANT OCCLUSIF**

[72] EISENFRATS, KEVIN, US
[72] GROVER, GREG, US
[72] MORAN, ERIC, US
[71] CONTRALINE, INC., US
[85] 2020-04-02
[86] 2018-10-02 (PCT/US2018/053853)
[87] (WO2019/070632)
[30] US (62/566,592) 2017-10-02

[21] **3,078,367**
[13] A1

[51] **Int.Cl. A47J 37/06 (2006.01) A47J 37/04 (2006.01) A47J 44/00 (2006.01)**

[25] EN

[54] **COOK-TO-ORDER GRILL AND GRILL METHOD**

[54] **GRIL DE CUISSON SUR COMMANDE ET PROCEDE DE GRIL**

[72] NELSON, DENNIS J., US
[71] TAYLOR COMMERCIAL FOODSERVICE INC., US
[85] 2020-04-02
[86] 2018-10-03 (PCT/US2018/054060)
[87] (WO2019/070781)
[30] US (62/568,393) 2017-10-05

[21] **3,078,368**
[13] A1

[51] **Int.Cl. A61K 47/20 (2006.01) A61K 9/20 (2006.01) A61K 9/48 (2006.01) A61K 31/522 (2006.01) A61K 47/22 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS OF USE OF CIS-4-[2-{{(3S,4R)-3-FLUOROOXAN-4-YL} AMINO}-8-(2,4,6-TRICHLOROANILINO)-9H-PURIN-9-YL]-1-METHYLCYCLOHEXANE-1-CARBOXAMIDE**

[54] **COMPOSITIONS ET METHODES D'UTILISATION DU CIS-4-[2-{{(3S,4R)-3-FLUOROOXAN-4-YL} AMINO}-8-(2,4,6-TRICHLOROANILINO)-9H-PURINE-9-YL]-1-METHYLCYCLOHEXANE-1-CARBOXAMIDE**

[72] BONE, SCOTT, US
[72] GAEBELE, TRACY LEE, US
[72] PU, YU, US
[72] HUANG, LIANFENG, US
[71] CELGENE CORPORATION, US
[85] 2020-04-02
[86] 2018-10-03 (PCT/US2018/054151)
[87] (WO2019/070845)
[30] US (62/568,107) 2017-10-04

[21] **3,078,369**
[13] A1

[51] **Int.Cl. A61K 31/485 (2006.01) A61K 9/70 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **DEXTROMETHORPHAN TRANSDERMAL DELIVERY DEVICE**

[54] **DISPOSITIF D'ADMINISTRATION TRANSDERMIQUE DE DEXTROMETHORPHANE**

[72] BORSADIA, SURESH, US
[71] SHINKEI THERAPEUTICS LLC, US
[85] 2020-04-02
[86] 2018-10-03 (PCT/US2018/054178)
[87] (WO2019/070864)
[30] US (62/568,028) 2017-10-04
[30] US (62/680,182) 2018-06-04

PCT Applications Entering the National Phase

[21] **3,078,370**
[13] A1

[51] **Int.Cl. E21B 47/022 (2012.01) G01N 1/18 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR INTERVENTION LESS WELL MONITORING**
[54] **PROCEDES ET SYSTEMES DE SURVEILLANCE DE PUITES SANS INTERVENTION**
[72] ELBADAWY, HOSSAM, US
[71] VERTICE OIL TOOLS, US
[85] 2020-04-02
[86] 2018-10-03 (PCT/US2018/054203)
[87] (WO2019/074741)

[21] **3,078,371**
[13] A1

[51] **Int.Cl. C12N 15/85 (2006.01) C12N 15/113 (2010.01) A61K 31/7088 (2006.01) A61K 35/76 (2015.01) A61P 25/16 (2006.01) C12N 7/01 (2006.01) C12N 9/24 (2006.01) C12N 9/42 (2006.01) C12N 15/56 (2006.01) C12N 15/864 (2006.01)**
[25] EN
[54] **GENE THERAPIES FOR LYSOSOMAL DISORDERS**
[54] **THERAPIES GENIQUES POUR TROUBLES LYSOSOMAUX**
[72] ABELIOVICH, ASA, US
[72] HECKMAN, LAURA, US
[72] RHINN, HERVE, US
[71] PREVAIL THERAPEUTICS, INC., US
[85] 2020-04-02
[86] 2018-10-03 (PCT/US2018/054225)
[87] (WO2019/070893)
[30] US (62/567,296) 2017-10-03

[21] **3,078,372**
[13] A1

[51] **Int.Cl. G06Q 10/04 (2012.01) G06Q 10/06 (2012.01) G06Q 30/02 (2012.01) G06Q 50/16 (2012.01) G06Q 50/18 (2012.01)**
[25] EN
[54] **OPTIMIZED DATA MODEL FOR STEP-DOWN LEASING ARRANGEMENT**
[54] **MODELE DE DONNEES OPTIMISE POUR SYSTEME DE BAIL A LOYER DECROISSANT**
[72] LUSSI, CRAIG H., US
[71] LUSSI, CRAIG H., US
[85] 2020-04-02
[86] 2018-10-03 (PCT/US2018/054239)
[87] (WO2019/070903)
[30] US (62/568,122) 2017-10-04

[21] **3,078,373**
[13] A1

[51] **Int.Cl. H04W 40/10 (2009.01) H04W 40/22 (2009.01)**
[25] EN
[54] **ENERGY AWARE ROUTING FOR MESH NETWORKS**
[54] **ACHEMINEMENT SENSIBLE A L'ENERGIE POUR RESEAUX MAILLES**
[72] POORREZAEI, KAMAL, US
[72] DIETRICH, PAUL, US
[71] ITRON NETWORKED SOLUTIONS, INC., US
[85] 2020-04-02
[86] 2018-10-03 (PCT/US2018/054251)
[87] (WO2019/070912)
[30] US (15/724,205) 2017-10-03
[30] US (15/724,207) 2017-10-03

[21] **3,078,374**
[13] A1

[51] **Int.Cl. C03C 17/00 (2006.01) G02B 1/18 (2015.01) C08J 7/06 (2006.01) C08K 3/34 (2006.01) C09D 5/00 (2006.01) G02B 1/10 (2015.01)**
[25] EN
[54] **ANTI-FOGGING COATING AND APPLICATION PROCESS**
[54] **REVETEMENT ANTIBUEE ET PROCEDE D'APPLICATION**
[72] KOHLER, DALLAS AARON, US
[71] MCS INDUSTRIES, INC., US
[85] 2020-04-02
[86] 2018-10-04 (PCT/US2018/054285)
[87] (WO2019/070928)
[30] US (62/567,801) 2017-10-04

[21] **3,078,375**
[13] A1

[51] **Int.Cl. F16L 27/087 (2006.01) B23Q 11/10 (2006.01) F16L 39/04 (2006.01)**
[25] EN
[54] **MULTIPLE PASSAGE ROTARY UNION**
[54] **RACCORD ROTATIF A PASSAGES MULTIPLES**
[72] PETROU, ANTON A., US
[72] FREED, LISA, US
[71] DEUBLIN COMPANY, US
[85] 2020-04-02
[86] 2018-10-05 (PCT/US2018/054538)
[87] (WO2019/074781)
[30] US (62/569,913) 2017-10-09

[21] **3,078,376**
[13] A1

[51] **Int.Cl. B25J 9/16 (2006.01) B25J 9/10 (2006.01) B25J 13/08 (2006.01) B25J 19/02 (2006.01) B25J 19/04 (2006.01)**
[25] EN
[54] **END EFFECTOR CALIBRATION ASSEMBLIES, SYSTEMS, AND METHODS**
[54] **ENSEMBLES, SYSTEMES ET PROCEDES D'ETALONNAGE D'EFFECTEUR D'EXTREMITE**
[72] CAMBRON, SCOTT DOUGLAS, US
[72] ELI, KYLE, US
[71] ADVANCED SOLUTIONS LIFE SCIENCES, LLC, US
[85] 2020-04-02
[86] 2018-10-05 (PCT/US2018/054621)
[87] (WO2019/071133)
[30] US (62/568,869) 2017-10-06

[21] **3,078,378**
[13] A1

[25] EN
[54] **MULTIPURPOSE MEDICAL DEVICE**
[54] **DISPOSITIF MEDICAL POLYVALENT**
[72] MENON, RAM KUMAR, IN
[72] KELLY, BRIAN P., US
[72] NEWCOMB, ANNA, US
[71] DIGNITY HEALTH, US
[85] 2020-04-02
[86] 2018-10-05 (PCT/US2018/054716)
[87] (WO2019/071203)
[30] US (62/568,363) 2017-10-05

[21] **3,078,379**
[13] A1

[51] **Int.Cl. B29B 11/16 (2006.01) D03D 11/02 (2006.01) D03D 25/00 (2006.01)**
[25] EN
[54] **THREE-DIMENSIONAL WOVEN PREFORMS FOR OMEGA STIFFENERS**
[54] **PREFORMES TISSEES TRIDIMENSIONNELLES POUR RAIDISSEURS EN OMEGA**
[72] GOERING, JONATHAN, US
[71] ALBANY ENGINEERED COMPOSITES, INC., US
[85] 2020-04-02
[86] 2018-10-09 (PCT/US2018/054938)
[87] (WO2019/074881)
[30] US (62/571,467) 2017-10-12

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<p style="text-align: center;">[21] 3,078,380 [13] A1</p> <p>[51] Int.Cl. G01N 29/024 (2006.01) G01M 3/24 (2006.01) G01N 29/50 (2006.01)</p> <p>[25] EN</p> <p>[54] PROPAGATION TIME MEASUREMENT MACHINE, GAS CONCENTRATION MEASUREMENT DEVICE, PROPAGATION TIME MEASUREMENT PROGRAM, AND PROPAGATION TIME MEASUREMENT METHOD</p> <p>[54] MACHINE DE MESURE DE TEMPS DE PROPAGATION, DISPOSITIF DE MESURE DE CONCENTRATION DE GAZ, PROGRAMME DE MESURE DE TEMPS DE PROPAGATION ET PROCEDE DE MESURE DE TEMPS DE PROPAGATION</p> <p>[72] TSUJIYA, KOUICHI, JP [72] SHINFUKU, YOSHIFUMI, JP [72] TORIYAMA, YASUHIRO, JP [71] UEDA JAPAN RADIO CO., LTD., JP [71] JAPAN RADIO CO., LTD., JP [71] NISSHINBO HOLDINGS INC., JP [85] 2020-04-02 [86] 2018-09-28 (PCT/JP2018/036246) [87] (WO2019/069804) [30] JP (2017-194408) 2017-10-04</p>	<p style="text-align: center;">[21] 3,078,381 [13] A1</p> <p>[51] Int.Cl. E01F 9/30 (2016.01) E01F 9/553 (2016.01) B60W 60/00 (2020.01) G02B 5/12 (2006.01)</p> <p>[25] EN</p> <p>[54] RETROREFLECTORS PROVIDING INFORMATION ENCODED IN REFLECTED NON-VISIBLE LASER WHILE RETAINING VISIBLE LIGHT SAFETY PROPERTIES</p> <p>[54] RETROREFLECTEURS QUI FOURNISSENT DES INFORMATIONS CODEES DANS UN LASER NON VISIBLE REFLECHI ET QUI DANS LE MEME TEMPS CONSERVENT DES PROPRIETES DE SECURITE DE LA LUMIERE VISIBLE</p> <p>[72] HADI, SURA, US [72] DAVIS, WILLIAM, US [72] ROBERTS, MICHAEL JOHN BOSWORTH, US [72] ANDREWS, MICHALYN, US [71] LIGHTHOUSE & BEACON, INC., US [85] 2020-04-02 [86] 2018-10-05 (PCT/US2018/054739) [87] (WO2019/071217) [30] US (62/569,396) 2017-10-06 [30] US (15/862,408) 2018-01-04</p>	<p style="text-align: center;">[21] 3,078,383 [13] A1</p> <p>[51] Int.Cl. C08C 19/34 (2006.01) C08L 15/00 (2006.01) C08L 21/00 (2006.01) C09K 3/10 (2006.01)</p> <p>[25] EN</p> <p>[54] MODIFIED LIQUID DIENE RUBBERS</p> <p>[54] CAOUTCHOUC A BASE DE DIENE LIQUIDE MODIFIE</p> <p>[72] MOTODA, SATOSHI, JP [72] KANEKO, SHUHEI, JP [72] NOZASA, YU, JP [72] UEHARA, YOSUKE, JP [72] KASHIOKA, MASAHIRO, JP [72] UENO, YOSHIKAZU, JP [71] KURARAY CO., LTD., JP [85] 2020-04-02 [86] 2018-10-02 (PCT/JP2018/036839) [87] (WO2019/069904) [30] JP (2017-195144) 2017-10-05</p>
<p style="text-align: center;">[21] 3,078,382 [13] A1</p> <p>[51] Int.Cl. C07D 213/76 (2006.01) A61K 31/4402 (2006.01) A61K 31/635 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01)</p> <p>[25] EN</p> <p>[54] SULFASALAZINE SALT COMPOSITIONS AND METHODS OF USING THE SAME</p> <p>[54] COMPOSITIONS DE SELS DE SULFASALAZINE ET LEURS PROCEDES D'UTILISATION</p> <p>[72] ABU-IZZA, KHAWLA, US [72] PEARSON, DAVID, GB [72] KENNEDY, LORNA, GB [72] BENSON, JOSEPH, GB [71] ABU-IZZA, KHAWLA, US [71] PEARSON, DAVID, GB [71] KENNEDY, LORNA, GB [71] BENSON, JOSEPH, GB [85] 2020-04-02 [86] 2018-10-09 (PCT/US2018/054983) [87] (WO2019/074908) [30] US (62/570,258) 2017-10-10</p>	<p style="text-align: center;">[21] 3,078,384 [13] A1</p> <p>[51] Int.Cl. B01F 13/10 (2006.01) B01F 5/06 (2006.01) B01F 13/00 (2006.01) B01F 15/00 (2006.01) B01F 15/02 (2006.01) B01F 15/06 (2006.01)</p> <p>[25] EN</p> <p>[54] SECURE PORTABLE, ON-DEMAND, MICROFLUIDIC DEVICE FOR MIXING AND DISPENSING BLENDS OF LIQUIDS, SOLUTIONS, SUSPENSIONS, EMULSIONS, AND COLLOIDS</p> <p>[54] DISPOSITIF MICROFLUIDIQUE PORTATIF SECURISE, A LA DEMANDE, POUR MELANGER ET DISTRIBUER DES MELANGES DE LIQUIDES, DE SOLUTIONS, DE SUSPENSIONS, D'EMULSIONS ET DE COLLOIDES</p> <p>[72] WILSON, MATT, US [72] LIDDLE, SCOTT ERIC, US [72] GAUSMANN, KEITH, US [72] GIESLER, JAYSUN, US [72] LUCK, NATHAN THOMAS, US [72] POOLE, LONNIE BRENT, US [72] WHALEN, JON, US [72] WILSON, TODD, US [72] CRAWFORD, PETE, US [72] WICKER, NICOLE KAYLOR, US [72] COLLETTE, JON, US [71] ALTOPA, INC., US [85] 2020-04-02 [86] 2018-10-09 (PCT/US2018/055054) [87] (WO2019/074951) [30] US (62/570,063) 2017-10-09</p>	

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[21] **3,078,385**
[13] A1

[51] **Int.Cl. G06Q 50/06 (2012.01) G06Q 50/10 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS USING PROBABILISTIC FORECAST FOR AGENT-BASED CONTROL OF SEWERS**
[54] **SYSTEMES ET PROCEDES UTILISANT UNE PREVISION PROBABILISTE POUR LA COMMANDE D'EGOUTS A BASE D'AGENT**
[72] MONESTRUQUE, LUIS, US
[72] KERTESZ, RUBEN, US
[72] MYERS, FREDERIC, US
[71] EMNET, LLC, US
[85] 2020-04-02
[86] 2018-11-14 (PCT/US2018/060866)
[87] (WO2019/099419)
[30] US (62/585,545) 2017-11-14

[21] **3,078,386**
[13] A1

[51] **Int.Cl. A61N 5/06 (2006.01)**
[25] EN
[54] **LIGHT THERAPY BANDAGE**
[54] **SYSTEME DE BANDAGE POUR LUMINOTHERAPIE**
[72] TAPPER, JAY, US
[72] DING, LULIN, US
[72] ALTHOFF, CHARLES PETER, US
[72] NICKLEY, KAYLA MARIE, US
[72] JOHNSON, JENS PETER, US
[71] JOHNSON & JOHNSON CONSUMER INC., US
[85] 2020-04-02
[86] 2018-10-12 (PCT/US2018/055695)
[87] (WO2019/075389)
[30] US (15/782,548) 2017-10-12
[30] US (16/159,263) 2018-10-12

[21] **3,078,387**
[13] A1

[51] **Int.Cl. C12N 15/09 (2006.01) A01H 5/00 (2018.01) C12N 15/52 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **TRANSFORMED PLANT HAVING BLUE FLOWER COLOR, AND METHOD FOR CREATING SAME**
[54] **PLANTE TRANSFORMEE POSSEDANT UNE COULEUR DE FLEUR BLEUE, ET SON PROCEDE DE CREATION**
[72] NAKAMURA, NORIKO, JP
[72] OKITSU, NAOKO, JP
[72] TANAKA, YOSHIKAZU, JP
[71] SUNTORY HOLDINGS LIMITED, JP
[85] 2020-04-02
[86] 2018-10-02 (PCT/JP2018/036935)
[87] (WO2019/069946)
[30] JP (2017-193480) 2017-10-03

[21] **3,078,388**
[13] A1

[25] EN
[54] **A METHOD AND SYSTEM FOR WIRELESS MEASUREMENT OF DETONATION OF EXPLOSIVES**
[54] **PROCEDE ET SYSTEME DE MESURE SANS FIL DE LA DETONATION D'EXPLOSIFS**
[72] CAVANOUGH, GARY LINDSAY, AU
[72] TORRANCE, ALASTAIR COURTENAY, AU
[71] QMR (IP) PTY LTD, AU
[85] 2020-04-03
[86] 2018-10-09 (PCT/AU2018/051091)
[87] (WO2019/071304)
[30] AU (2017904086) 2017-10-10

[21] **3,078,389**
[13] A1

[51] **Int.Cl. E21B 43/114 (2006.01) E21B 43/116 (2006.01) E21B 43/119 (2006.01)**
[25] EN
[54] **MULTI-ZONE PERFORATE AND TREAT SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE PERFORATION ET DE TRAITEMENT MULTI-ZONES**
[72] FERGUSON, ANDREW M., US
[72] WATSON, BROCK W., US
[72] SCHULTZ, ROGER L., US
[71] THRU TUBING SOLUTIONS, INC., US
[85] 2020-04-02
[86] 2018-11-15 (PCT/US2018/061169)
[87] (WO2019/099600)
[30] US (62/588,150) 2017-11-17

[21] **3,078,390**
[13] A1

[51] **Int.Cl. F16C 33/78 (2006.01)**
[25] EN
[54] **ROLL-FORMING METHODS FOR MANUFACTURING ROLLER BEARING SEAL CASE**
[54] **PROCEDES DE PROFILAGE POUR FABRIQUER UN BOITIER D'ETANCHEITE DE PALIER A ROULEAUX**
[72] LINDER, MAXIMILIAN, US
[72] MYERS, JAMES, US
[71] INNO-SPIN LLC, US
[85] 2020-04-02
[86] 2018-10-13 (PCT/US2018/055776)
[87] (WO2019/075440)
[30] US (15/784,101) 2017-10-14

[21] **3,078,391**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01)**
[25] EN
[54] **CAP-DEPENDENT ENDONUCLEASE INHIBITORS**
[54] **INHIBITEURS D'ENDONUCLEASE DEPENDANT DU CAP**
[72] HSU, MING-CHU, US
[72] LIN, CHU-CHUNG, TW
[72] CHEN, HUNG-CHUAN, TW
[72] CHIANG, CHIAYN, TW
[72] YEN, CHI-FENG, TW
[71] TAIGEN BIOTECHNOLOGY CO., LTD., TH
[85] 2020-04-02
[86] 2019-01-22 (PCT/US2019/014461)
[87] (WO2019/144089)
[30] US (62/620,065) 2018-01-22

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[21] **3,078,392**
[13] A1

[51] **Int.Cl. C12Q 1/6806 (2018.01) C12N 5/04 (2006.01) C12N 15/10 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **HIGH-THROUGHPUT METHOD OF FOR MITOCHONDRIA ISOLATION FROM PLANT SEEDS**

[54] **PROCEDE A HAUT DEBIT D'ISOLEMENT DE MITOCHONDRIES CONTENUES DANS DES GRAINES DE PLANTES**

[72] YU, WENJIN, US

[72] FAN, CHUNYANG, US

[72] JI, YANSHAN, US

[71] SYNGENTA PARTICIPATIONS AG, CH

[85] 2020-04-02

[86] 2018-10-15 (PCT/US2018/055820)

[87] (WO2019/079156)

[30] US (62/572,780) 2017-10-16

[21] **3,078,393**
[13] A1

[51] **Int.Cl. C07K 1/06 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING PEPTIDE COMPOUND**

[54] **PROCEDE DE PRODUCTION DE COMPOSE PEPTIDIQUE**

[72] NAGAYA, AKIHIRO, JP

[72] HANDA, MICHIHARU, JP

[72] YASUDA, NAOHIKO, JP

[72] YOSHINO, MADOKA, JP

[72] KOBAYASHI, YUTAKA, JP

[72] MASUYA, KEIICHI, JP

[71] NISSAN CHEMICAL CORPORATION, JP

[71] PEPTIDREAM INC., JP

[85] 2020-04-02

[86] 2018-10-03 (PCT/JP2018/037032)

[87] (WO2019/069978)

[30] JP (2017-193309) 2017-10-03

[30] JP (2018-134575) 2018-07-17

[30] JP (2018-180501) 2018-09-26

[21] **3,078,394**
[13] A1

[51] **Int.Cl. D01F 9/22 (2006.01) D01D 10/02 (2006.01) D01F 6/18 (2006.01) D01F 6/38 (2006.01) D01F 6/40 (2006.01) D01F 6/54 (2006.01) D01F 11/06 (2006.01)**

[25] EN

[54] **PRECURSOR STABILISATION PROCESS**

[54] **PROCEDE DE STABILISATION DE PRECURSEUR**

[72] ATKISS, STEPHEN PAUL, GB

[72] MAGHE, MAXIME ROBERT, AU

[71] DEAKIN UNIVERSITY, AU

[85] 2020-04-03

[86] 2017-10-10 (PCT/AU2017/051094)

[87] (WO2019/071286)

[21] **3,078,395**
[13] A1

[51] **Int.Cl. E04F 15/02 (2006.01) B27F 1/04 (2006.01) E04C 2/40 (2006.01) E04F 15/04 (2006.01) E04F 15/08 (2006.01) E04F 15/10 (2006.01)**

[25] EN

[54] **FLOORING SYSTEM WITH ENHANCED FLEXIBILITY**

[54] **SYSTEME DE REVETEMENT DE SOL A FLEXIBILITE AMELIOREE**

[72] DURMBERGER, GERHARD, AT

[71] XYLO TECHNOLOGIES AG, CH

[85] 2020-04-03

[86] 2017-10-25 (PCT/EP2017/077368)

[87] (WO2019/081016)

[21] **3,078,397**
[13] A1

[51] **Int.Cl. G06F 12/02 (2006.01) G06F 9/50 (2006.01) G06F 12/06 (2006.01)**

[25] EN

[54] **MEMORY ALLOCATION IN A DATA ANALYTICS SYSTEM**

[54] **ATTRIBUTION DE MEMOIRE DANS UN SYSTEME ANALYTIQUE DE DONNEES**

[72] HARDING, EDWARD P., JR., US

[72] RILEY, ADAM D., US

[72] KINGSLEY, CHRISTOPHER H., US

[71] ALTERYX, INC., US

[85] 2020-04-02

[86] 2018-10-15 (PCT/US2018/055890)

[87] (WO2019/079187)

[30] US (15/785,353) 2017-10-16

[21] **3,078,398**
[13] A1

[51] **Int.Cl. C22C 38/00 (2006.01) C22C 38/60 (2006.01)**

[25] EN

[54] **AUSTENITIC STAINLESS STEEL**

[54] **ACIER INOXYDABLE A BASE D'AUSTENITE**

[72] HIRATA, HIROYUKI, JP

[72] TANAKA, KATSUKI, JP

[72] JOTOKU, KANA, JP

[71] NIPPON STEEL CORPORATION, JP

[85] 2020-04-02

[86] 2018-10-03 (PCT/JP2018/037095)

[87] (WO2019/069998)

[30] JP (2017-193687) 2017-10-03

[21] **3,078,399**
[13] A1

[51] **Int.Cl. A61G 5/06 (2006.01) B62D 57/02 (2006.01)**

[25] EN

[54] **A CONVEYANCE FOR SURMOUNTING OBSTACLES**

[54] **MOYEN DE TRANSPORT POUR SURMONTER DES OBSTACLES**

[72] YOUNG, VICTOR, AU

[71] ORBILIFT PTY LTD, AU

[85] 2020-04-03

[86] 2018-09-28 (PCT/AU2018/051065)

[87] (WO2019/090385)

[30] AU (2017904562) 2017-11-10

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[21] **3,078,400**
[13] A1

[51] **Int.Cl. H02J 50/90 (2016.01) H02J 50/10 (2016.01) B60L 53/12 (2019.01) B60L 53/36 (2019.01) B60L 53/38 (2019.01) B60L 53/39 (2019.01) B60L 53/66 (2019.01)**

[25] EN

[54] **A SYSTEM AND A METHOD FOR DETERMINING A RELATIVE POSE BETWEEN A PRIMARY WINDING STRUCTURE AND A SECONDARY WINDING STRUCTURE OF A SYSTEM FOR INDUSTRIAL POWER TRANSFER**

[54] **SYSTEME ET PROCEDE DE DETERMINATION DE POSE RELATIVE ENTRE UNE STRUCTURE D'ENROULEMENT PRIMAIRE ET UNE STRUCTURE D'ENROULEMENT SECONDAIRE D'UN SYSTEME DE TRANSFERT D'ENERGIE PAR INDUCTION**

[72] KOBER, WERNER, AT
[72] SOTIRIOU, SOTIRIOS, DE
[71] BOMBARDIER PRIMOVE GMBH, DE

[85] 2020-04-03
[86] 2018-10-05 (PCT/EP2018/077092)
[87] (WO2019/072699)
[30] GB (1716513.5) 2017-10-09

[21] **3,078,401**
[13] A1

[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/1468 (2006.01) A61B 5/1486 (2006.01)**

[25] EN

[54] **PSEUDO-ORTHOGONAL REDUNDANT GLUCOSE SENSORS, SYSTEMS, AND METHODS**

[54] **CAPTEURS DE GLUCOSE REDONDANTS PSEUDO-ORTHOGONAUX, SYSTEMES ET PROCEDES**

[72] VARSAVSLY, ANDREA, US
[72] MILLER, MICHAEL E., US
[71] MEDTRONIC MINIMED, INC., US

[85] 2020-04-02
[86] 2018-10-15 (PCT/US2018/055938)
[87] (WO2019/118062)
[30] US (15/840,785) 2017-12-13

[21] **3,078,402**
[13] A1

[51] **Int.Cl. B60B 30/10 (2006.01) B60B 29/00 (2006.01) B60P 3/077 (2006.01)**

[25] EN

[54] **A RACK AND APPARATUS FOR SUPPORTING WHEELS**

[54] **SOUTENIR ET APPAREIL POUR SOUTENIR DES ROUES**

[72] JAMES, ALLAN MARTIN, AU
[71] WORKPLACE MAINTENANCE SOLUTIONS PTY LTD, AU

[85] 2020-04-03
[86] 2018-10-03 (PCT/AU2018/051073)
[87] (WO2019/068143)
[30] AU (2017904000) 2017-10-04

[21] **3,078,406**
[13] A1

[51] **Int.Cl. C22C 38/58 (2006.01) C21D 8/10 (2006.01) C22C 38/50 (2006.01)**

[25] EN

[54] **STEEL FOR COILED TUBING WITH LOW YIELD RATIO AND ULTRA-HIGH STRENGTH AND PREPARATION METHOD THEREOF**

[54] **ACIER POUR TUBE SPIRALE A FAIBLE RAPPORT D'ELASTICITE ET ULTRA-HAUTE RESISTANCE ET PROCEDE DE PREPARATION ASSOCIE**

[72] ZHANG, CHUANGUO, CN
[72] SUN, LEILEI, CN
[72] ZHENG, LEI, CN
[72] PANG, HOUJUN, CN
[72] LIU, JIAN, CN
[72] ZHANG, YONG, CN
[72] XU, GUODONG, CN
[71] BAOSHAN IRON & STEEL CO., LTD., CN

[85] 2020-04-03
[86] 2018-10-25 (PCT/CN2018/111845)
[87] (WO2019/080893)
[30] CN (201711022596.5) 2017-10-27

[21] **3,078,407**
[13] A1

[51] **Int.Cl. A61J 3/02 (2006.01) A61J 3/00 (2006.01) B02C 19/08 (2006.01) B02C 19/18 (2006.01)**

[25] EN

[54] **UPPER PILL-CRUSHING-CUP DETECTION**

[54] **DETECTION DE COUPELLE SUPERIEURE DE BROYAGE DE PILULES**

[72] FADER, AARON EDWARD, CA
[72] TANG, YIN KWONG WILLIAM, CN
[71] COUGAR MOUNTAIN MARKETING CORPORATION, CA

[85] 2020-04-03
[86] 2016-11-16 (PCT/CA2016/051336)
[87] (WO2018/064744)
[30] US (15/284,925) 2016-10-04

[21] **3,078,408**
[13] A1

[51] **Int.Cl. C07C 401/00 (2006.01) A61K 31/59 (2006.01) A61K 31/592 (2006.01) A61K 31/593 (2006.01) A61P 3/02 (2006.01) A61P 3/04 (2006.01) A61P 5/18 (2006.01) A61P 17/00 (2006.01) A61P 17/06 (2006.01) A61P 19/00 (2006.01) A61P 19/10 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **PROCEDURE FOR CRYSTALLIZATION OF (22E)-(24R)-2-METHYLENE-22-DEHYDRO-1.ALPHA.,24,25-TRIHYDROXY-19-NOR-VITAMIN D3**

[54] **PROCEDE DE CRISTALLISATION DE (22E)-(24R)-2-METHYLENE-22-DEHYDRO-1.ALPHA.,24,25-TRIHYDROXY-19-NOR-VITAMINE D3**

[72] DELUCA, HECTOR F., US
[72] GLAGETT-DAME, MARGARET, US
[72] PLUM, LORI, US
[72] FLORES, AGNIESZKA, US
[72] THODEN, JAMES, US
[72] HOLDEN, HAZEL, US
[71] WISCONSIN ALUMNI RESEARCH FOUNDATION, US

[85] 2020-04-02
[86] 2018-10-16 (PCT/US2018/056057)
[87] (WO2019/079279)
[30] US (62/573,387) 2017-10-17

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[21] **3,078,409**
[13] A1

[51] **Int.Cl. E05C 7/06 (2006.01) E05C 9/04 (2006.01) E05C 9/18 (2006.01)**
[25] EN
[54] **LOCKING DEVICE FOR A SWITCH CABINET AND CORRESPONDING SWITCH CABINET**
[54] **DISPOSITIF DE FERMETURE POUR UNE ARMOIRE ELECTRIQUE ET ARMOIRE ELECTRIQUE CORRESPONDANTE**
[72] BRUCK, DANIEL, DE
[72] WIRBELAUER, SASCHA, DE
[71] RITTAL GMBH & CO. KG, DE
[85] 2020-04-03
[86] 2018-09-14 (PCT/DE2018/100783)
[87] (WO2019/101260)
[30] DE (10 2017 127 576.2) 2017-11-22

[21] **3,078,411**
[13] A1

[51] **Int.Cl. B05B 3/16 (2006.01)**
[25] EN
[54] **TWIN BOOM SPRINKLER**
[54] **ARROSEUR A DOUBLE RAMPE**
[72] DAVIE, TRENT F., CA
[72] DICKIE, ROBERT G., CA
[71] DAVIE, TRENT F., CA
[85] 2020-04-03
[86] 2017-10-04 (PCT/CA2017/051185)
[87] (WO2018/064768)
[30] US (15/287,809) 2016-10-07

[21] **3,078,413**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **ANTIBODIES SPECIFIC TO CD47 AND PD-L1**
[54] **ANTICORPS SPECIFIQUES A CD47 ET PD-L1**
[72] SOLOVYEV, KIRILL VLADIMIROVICH, RU
[72] ULITIN, ANDREI BORISOVICH, RU
[72] NEMANKIN, TIMOFEY ALEKSANDROVICH, RU
[72] SOLOVYEV, VALERY VLADIMIROVICH, RU
[72] MOROZOV, DMITRY VALENTINOVICH, RU
[71] JOINT STOCK COMPANY "BIOCAD", RU
[85] 2020-04-03
[86] 2018-10-03 (PCT/EA2018/050001)
[87] (WO2019/068302)
[30] EA (201791961) 2017-10-03

[21] **3,078,414**
[13] A1

[51] **Int.Cl. E21B 43/26 (2006.01) G01V 1/42 (2006.01)**
[25] EN
[54] **LOW FREQUENCY DISTRIBUTED ACOUSTIC SENSING HYDRAULIC FRACTURE GEOMETRY**
[54] **GEOMETRIE DE FRACTURES HYDRAULIQUES PAR DETECTION ACOUSTIQUE REPARTIE ET BASSE FREQUENCE**
[72] JIN, GE, US
[72] ROY, BAISHALI, US
[71] CONOCOPHILLIPS COMPANY, US
[85] 2020-04-02
[86] 2018-10-17 (PCT/US2018/056327)
[87] (WO2019/079481)
[30] US (62/573,486) 2017-10-17
[30] US (16/163,115) 2018-10-17

[21] **3,078,416**
[13] A1

[51] **Int.Cl. B65D 85/804 (2006.01) A47J 31/06 (2006.01) A47J 31/44 (2006.01) G06K 19/06 (2006.01)**
[25] EN
[54] **CONTAINER, PREPARATION MACHINE AND SYSTEM USING A BINARY CODE FOR ENCODING PREPARATION INFORMATION**
[54] **RECIPIENT, MACHINE DE PREPARATION ET SYSTEME UTILISANT UN CODE BINAIRE POUR CODER DES INFORMATIONS DE PREPARATION**
[72] NOTH, ANDRE, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2020-04-03
[86] 2018-10-01 (PCT/EP2018/076584)
[87] (WO2019/068610)
[30] EP (17195166.8) 2017-10-06

[21] **3,078,417**
[13] A1

[51] **Int.Cl. G01N 30/34 (2006.01) B01J 47/15 (2017.01) B01D 15/16 (2006.01) G05D 21/02 (2006.01)**
[25] EN
[54] **METHOD FOR PREPARING AQUEOUS SOLUTIONS OF A DEFINED PH**
[54] **PROCEDE DE PREPARATION DE SOLUTIONS AQUEUSES D'UN PH DEFINI**
[72] NAGY, TIBOR, GB
[71] FUJIFILM DIOSYNTH BIOTECHNOLOGIES UK LIMITED, GB
[85] 2020-04-03
[86] 2018-09-21 (PCT/GB2018/052687)
[87] (WO2019/069046)
[30] GB (1716175.3) 2017-10-04

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[21] **3,078,418**
[13] A1

[51] **Int.Cl. C07D 475/04 (2006.01) A61K 47/60 (2017.01) A61K 47/65 (2017.01) A61K 31/16 (2006.01) A61K 31/519 (2006.01) A61K 38/00 (2006.01) A61P 3/04 (2006.01) C07C 233/05 (2006.01) C07K 7/04 (2006.01)**

[25] EN
[54] **TREATMENT OF OBESITY-RELATED CONDITIONS**
[54] **TRAITEMENT D'ETATS LIES A L'OBESITE**
[72] DOMINGOS, ANA, PT
[72] BERNARDES, GONCALO, PT
[71] INSTITUTO DE MEDICINA MOLECULAR JOAO LOBO ANTUNES, PT
[71] FUNDACAO CALOUSTE GULBENKIAN, PT
[85] 2020-04-03
[86] 2018-10-08 (PCT/EP2018/077352)
[87] (WO2019/076675)
[30] PT (20171000065945) 2017-10-06

[21] **3,078,419**
[13] A1

[51] **Int.Cl. G09B 9/12 (2006.01)**

[25] EN
[54] **BRAKING SIMULATION DEVICE FOR A SIMULATOR AND ASSOCIATED METHOD**
[54] **DISPOSITIF DE SIMULATION DE FREINAGE POUR SIMULATEUR ET METHODE ASSOCIEE**
[72] DAVIEAU, MATTHIEU, FR
[72] LE GUILLOU, RENE, FR
[71] THALES, FR
[85] 2020-04-03
[86] 2018-10-02 (PCT/EP2018/076716)
[87] (WO2019/068670)
[30] FR (1701032) 2017-10-05

[21] **3,078,420**
[13] A1

[51] **Int.Cl. G02B 27/01 (2006.01) H04R 1/10 (2006.01)**

[25] EN
[54] **MIXED REALITY SPATIAL AUDIO**
[54] **AUDIO SPATIAL A REALITE MIXTE**
[72] SCHMIDT, BRIAN LLOYD, US
[72] TAJIK, JEHANGIR, US
[72] JOT, JEAN-MARC, US
[71] MAGIC LEAP, INC., US
[85] 2020-04-02
[86] 2018-10-17 (PCT/US2018/056385)
[87] (WO2019/079523)
[30] US (62/573,448) 2017-10-17
[30] US (62/631,418) 2018-02-15

[21] **3,078,422**
[13] A1

[51] **Int.Cl. B01J 37/16 (2006.01) B01J 23/46 (2006.01) B01J 23/50 (2006.01) B01J 23/58 (2006.01) B01J 37/02 (2006.01) B01J 37/18 (2006.01) C01B 3/38 (2006.01)**

[25] EN
[54] **PROCESS FOR PREPARING A PRE-REFORMING CATALYST HAVING RESISTANCE TO DEACTIVATION BY PASSAGE OF STEAM IN THE ABSENCE OF A REDUCING AGENT, AND A PRE-REFORMING CATALYST**
[54] **PROCEDE DE PREPARATION D'UN CATALYSEUR DE PRE-REFORMAGE AYANT UNE RESISTANCE A LA DESACTIVATION PAR PASSAGE DE VAPEUR EN L'ABSENCE D'UN AGENT REDUCTEUR, ET CATALYSEUR DE PRE-REFORMAGE**
[72] PONTES BITTENCOURT, ROBERTO CARLOS, BR
[71] PETROLEO BRASILEIRO S. A. - PETROBRAS, BR
[85] 2020-04-03
[86] 2018-09-28 (PCT/GB2018/052781)
[87] (WO2019/069058)
[30] BR (102017021428-1) 2017-10-05

[21] **3,078,423**
[13] A1

[51] **Int.Cl. H01M 12/06 (2006.01) H01M 2/20 (2006.01) H01M 12/02 (2006.01)**

[25] EN
[54] **AIR METAL BATTERY HAVING A ROTATING ANODE AND A CATHODE ASSEMBLY**
[54] **BATTERIE AIR METAL AYANT UN ENSEMBLE ANODE/CATHODE ROTATIF**
[72] SHEERIN, GEOFFREY T., CA
[71] ALUMAPOWER CORPORATION, CA
[85] 2020-04-03
[86] 2018-10-03 (PCT/IB2018/001264)
[87] (WO2019/069139)
[30] US (62/567,963) 2017-10-04
[30] US (62/720,957) 2018-08-22

[21] **3,078,424**
[13] A1

[51] **Int.Cl. A61K 31/196 (2006.01) A61K 31/7012 (2006.01) A61P 31/00 (2006.01) A61P 31/04 (2006.01) A61P 31/16 (2006.01)**

[25] EN
[54] **NOVEL MEK-INHIBITOR FOR THE TREATMENT OF VIRAL AND BACTERIAL INFECTIONS**
[54] **NOUVEL INHIBITEUR DE MEK POUR LE TRAITEMENT D'INFECTIONS VIRALES ET BACTERIENNES**
[72] LUDWIG, STEPHAN, DE
[72] PLANZ, OLIVER, DE
[71] ATRIVA THERAPEUTICS GMBH, DE
[85] 2020-04-03
[86] 2018-10-17 (PCT/EP2018/078335)
[87] (WO2019/076947)
[30] LU (LU100487) 2017-10-17

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[21] **3,078,425**
[13] A1

[51] **Int.Cl. E02B 17/00 (2006.01) E04H 12/00 (2006.01)**

[25] EN

[54] **TRANSITION PIECE FOR CONNECTING AN UPPER TOWER SECTION TO A LOWER TOWER PORTION BY MEANS OF CONNECTION PROFILES**

[54] **PIECE DE TRANSITION SERVANT A RELIER UNE SECTION DE TOUR SUPERIEURE A UNE SECTION DE TOUR INFERIEURE AU MOYEN DE PROFILS DE LIAISON**

[72] DRIESCHNER, MARTIN, DE

[72] PETRYNA, YURIY, DE

[72] KOPKE, BODO, DE

[72] STEINER, TILO, DE

[72] ROMER, STEVE, DE

[72] GRAWE, GUNNAR, DE

[71] NOTUS ENERGY PLAN GMBH & CO. KG, DE

[85] 2020-04-03

[86] 2018-10-02 (PCT/EP2018/076865)

[87] (WO2019/068735)

[30] EP (17195030.6) 2017-10-05

[21] **3,078,426**
[13] A1

[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/079 (2010.01)**

[25] EN

[54] **MICROPHYSIOLOGICAL ORGANOID CULTURE**

[54] **CULTURE MICROPHYSIOLOGIQUE D'ORGANOIDES**

[72] LOSKILL, PETER, DE

[72] PROBST, CHRISTOPHER, DE

[72] LIEBAU, STEFAN, DE

[72] ACHBERGER, KEVIN, DE

[72] HADERSPECK, JASMIN, DE

[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE

[71] EBERHARD KARLS UNIVERSITAT TUBINGEN, DE

[85] 2020-04-03

[86] 2018-10-01 (PCT/EP2018/076645)

[87] (WO2019/068640)

[30] DE (10 2017 217 738.1) 2017-10-05

[21] **3,078,428**
[13] A1

[51] **Int.Cl. E04H 12/10 (2006.01) F03D 13/20 (2016.01)**

[25] EN

[54] **TOWER, IN PARTICULAR FOR A WIND TURBINE**

[54] **TOUR, NOTAMMENT POUR UNE EOLIENNE**

[72] DRIESCHNER, MARTIN, DE

[72] PETRYNA, YURIY, DE

[72] KOPKE, BODO, DE

[72] STEINER, TILO, DE

[72] ROMER, STEVE, DE

[72] GRAWE, GUNNAR, DE

[71] NOTUS ENERGY PLAN GMBH & CO. KG, DE

[85] 2020-04-03

[86] 2018-10-02 (PCT/EP2018/076866)

[87] (WO2019/068736)

[30] EP (17195043.9) 2017-10-05

[21] **3,078,429**
[13] A1

[51] **Int.Cl. C09D 7/00 (2018.01)**

[25] EN

[54] **CLEAR COATING COMPOSITIONS**

[54] **COMPOSITIONS DE REVETEMENT TRANSPARENTES**

[72] PATEL, NAVIN, US

[72] NEWMAN, BEN, GB

[72] FIOLET, AGNES, FR

[72] BERTIN, EMMANUEL, FR

[72] MISURACA, JACOB, US

[71] IMERTECH SAS, FR

[85] 2020-04-03

[86] 2018-11-06 (PCT/EP2018/080248)

[87] (WO2019/086691)

[30] EP (17200178.6) 2017-11-06

[21] **3,078,430**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **TREATMENT OF OVARIAN CANCER WITH ANTI-CD47 AND ANTI-PD-L1**

[54] **TRAITEMENT DU CANCER DE L'OVAIRE PAR ANTI-CD47 ET ANTI-PD-L1**

[72] TAKIMOTO, CHRIS HIDEMI MIZUFUNE, US

[72] CHAO, MARK PING, US

[72] VOLKMER, JENS-PETER, US

[71] FORTY SEVEN, INC., US

[85] 2020-04-02

[86] 2018-10-18 (PCT/US2018/056442)

[87] (WO2019/079549)

[30] US (62/574,073) 2017-10-18

[21] **3,078,432**
[13] A1

[51] **Int.Cl. A61L 27/24 (2006.01) A61L 27/60 (2006.01)**

[25] EN

[54] **CROSS-LINKED PROTEIN FOAMS AND METHODS OF USING THEREOF A POLYVALENT CELLULAR SCAFFOLD**

[54] **MOUSSES DE PROTEINE RETICULEE ET LEURS PROCEDES D'UTILISATION DANS UN ECHAFAUDAGE CELLULAIRE POLYVALENT**

[72] ATTAR, ISHAY, IL

[72] ZHELI, SHAY YAACOV SHERBO, IL

[71] BIO-CHANGE LTD., IL

[71] ATTAR, ISHAY, IL

[71] ZHELI, SHAY YAACOV SHERBO, IL

[85] 2020-04-03

[86] 2018-10-04 (PCT/IB2018/001239)

[87] (WO2019/086952)

[30] US (62/567,919) 2017-10-04

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[21] **3,078,433**
[13] A1

[51] **Int.Cl. A24F 47/00 (2020.01) A24F 40/40 (2020.01) A61M 11/02 (2006.01) A61M 15/06 (2006.01)**

[25] EN

[54] **AN INHALER PARTICULARLY A CANNABINOID INHALER AND A METHOD OF ASSEMBLING SUCH AN INHALER**

[54] **INHALATEUR, EN PARTICULIER INHALATEUR DE CANNABINOIDES, ET PROCEDE DE MONTAGE D'UN TEL INHALATEUR**

[72] HEARN, ALEX, GB
[72] YOUNG, PAUL, GB
[72] PARRIN, GUILLAUME, GB
[71] SENZER LIMITED, GB
[85] 2020-04-03
[86] 2018-10-04 (PCT/GB2018/052830)
[87] (WO2019/073204)
[30] GB (1716507.7) 2017-10-09

[21] **3,078,434**
[13] A1

[51] **Int.Cl. A61K 47/66 (2017.01) A61K 47/68 (2017.01) A61K 47/42 (2017.01) A61K 49/00 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01) A61K 49/06 (2006.01)**

[25] EN

[54] **IL-4-FUSION FORMULATIONS FOR TREATMENT OF CENTRAL NERVOUS SYSTEM (CNS) TUMORS**

[54] **FORMULATIONS D'IL-4 FUSION POUR LE TRAITEMENT DE TUMEURS DU SYSTEME NERVEUX CENTRAL (SNC)**

[72] MERCHANT, FAHAR, CA
[71] MEDICENNA THERAPEUTICS, INC., CA
[85] 2020-04-03
[86] 2018-10-10 (PCT/IB2018/001284)
[87] (WO2019/073299)
[30] US (62/570,578) 2017-10-10

[21] **3,078,435**
[13] A1

[51] **Int.Cl. G01S 5/00 (2006.01) G01S 5/06 (2006.01)**

[25] EN

[54] **METADATA-BASED EMITTER LOCALIZATION**

[54] **LOCALISATION D'EMETTEUR BASEE SUR DES METADONNEES**

[72] O'SHEA, TIMOTHY JAMES, US
[72] MCCARTHY, NICHOLAS AARON, US
[72] KAWAMOTO, DAREK, US
[72] KREINAR, EDWARD, US
[71] HAWKEYE 360, INC., US
[85] 2020-04-02
[86] 2018-10-22 (PCT/US2018/056890)
[87] (WO2019/079798)
[30] US (62/575,097) 2017-10-20

[21] **3,078,436**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 29/00 (2006.01) A61P 37/06 (2006.01) A61P 43/00 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 5/0783 (2010.01) C12N 15/00 (2006.01)**

[25] EN

[54] **COMPOSITION FOR CYTOTOXIC T CELL DEPLETION**

[54] **COMPOSITION POUR DEPLETION DE LYMPHOCYTES T CYTOTOXIQUES**

[72] MUKASA, RYUTA, JP
[72] KIYOSAWA, NAOKI, JP
[72] YAMADA, SHINNOSUKE, JP
[71] DAIICHI SANKYO COMPANY, LIMITED, JP
[85] 2020-04-03
[86] 2018-10-04 (PCT/JP2018/037139)
[87] (WO2019/070013)
[30] JP (2017-194945) 2017-10-05

[21] **3,078,437**
[13] A1

[51] **Int.Cl. A61K 36/886 (2006.01) A61K 36/185 (2006.01) A61K 36/24 (2006.01) A61K 36/28 (2006.01) A61K 36/47 (2006.01) A61K 36/59 (2006.01) A61K 36/708 (2006.01) A61K 36/739 (2006.01) A61K 36/756 (2006.01) A61K 36/82 (2006.01) A61P 13/08 (2006.01) A61P 15/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **INHIBITION OF ANDROGEN RECEPTOR BY EXTRACTS OF MEDICINAL HERBS AND COMPOSITIONS THEREOF**

[54] **INHIBITION DU RECEPTEUR ANDROGENIQUE AU MOYEN D'EXTRAITS DE PLANTES MEDICINALES ET COMPOSITIONS ASSOCIEES**

[72] CHENG, YUNG-CHI, US
[72] LAM, WING, US
[72] JIANG, ZAOLI, US
[71] YALE UNIVERSITY, US
[85] 2020-04-03
[86] 2018-10-18 (PCT/IB2018/001296)
[87] (WO2019/077407)
[30] US (62/574,440) 2017-10-19

[21] **3,078,439**
[13] A1

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 43/38 (2006.01) F04D 13/08 (2006.01) F04D 13/10 (2006.01)**

[25] EN

[54] **SHAFT SEAL PROTECTOR FOR ELECTRICAL SUBMERSIBLE PUMPS**

[54] **PROTECTEUR DE JOINT D'ARBRE DESTINE A DES POMPES ELECTRIQUES SUBMERSIBLES**

[72] HASSAN, MANSIR, GB
[71] CORETEQ SYSTEMS LTD, GB
[85] 2020-04-03
[86] 2018-10-04 (PCT/GB2018/052837)
[87] (WO2019/069083)
[30] GB (1716441.9) 2017-10-06

Demandes PCT entrant en phase nationale

[21] **3,078,440**
[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01) A61B 10/02 (2006.01) A61M 25/01 (2006.01)**

[25] EN

[54] **SHARP TURNING STEERABLE NEEDLE**

[54] **AIGUILLE ORIENTABLE A ROTATION NETTE**

[72] YIM, MARK, US

[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US

[85] 2020-04-03

[86] 2017-10-05 (PCT/US2017/055327)

[87] (WO2018/067808)

[30] US (62/404,394) 2016-10-05

[21] **3,078,441**
[13] A1

[51] **Int.Cl. G05B 23/02 (2006.01) F24F 11/46 (2018.01) G06N 20/00 (2019.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR HVAC INEFFICIENCY PREDICTION USING HOUSEHOLD ELECTRICAL SMART METER DATA**

[54] **PROCEDE ET SYSTEME DE PREDICTION D'INEFFICACITE DE CVC AU MOYEN DE DONNEES DE COMPTEUR ELECTRIQUE DOMESTIQUE INTELLIGENT**

[72] SAMUNI, ERAN, IL

[72] COHEN, ERAN, IL

[72] SHIMONI, NATHANIEL, IL

[72] RIMINI, NOA, IE

[71] GRID4C, IL

[85] 2020-04-03

[86] 2019-08-19 (PCT/IL2019/050926)

[87] (WO2020/039430)

[30] US (62/719,804) 2018-08-20

[21] **3,078,442**
[13] A1

[51] **Int.Cl. C07D 498/14 (2006.01) C07D 213/89 (2006.01) C07D 401/12 (2006.01)**

[25] EN

[54] **STEREOSELECTIVE PROCESS FOR PREPARING SUBSTITUTED POLYCYCLIC PYRIDONE DERIVATIVES**

[54] **PROCEDE POUR LA PRODUCTION STEREOSELECTIVE D'UN DERIVE DE PYRIDONE POLYCYCLIQUE SUBSTITUE**

[72] OKAMOTO, KAZUYA, JP

[72] UENO, TATSUHIKO, JP

[72] HATO, YOSHIO, JP

[72] HAKOGI, TOSHIKAZU, JP

[72] MAJIMA, SHOHEI, JP

[71] SHIONOGI & CO., LTD., JP

[85] 2020-04-03

[86] 2018-10-05 (PCT/JP2018/037390)

[87] (WO2019/070059)

[30] JP (2017-195802) 2017-10-06

[21] **3,078,443**
[13] A1

[51] **Int.Cl. E21B 43/16 (2006.01) E21B 43/013 (2006.01)**

[25] EN

[54] **UNDERWATER SYSTEM AND METHOD FOR PRESSURIZATION OF AN UNDERWATER OIL RESERVOIR BY INDEPENDENT INJECTION OF WATER AND GAS**

[54] **SYSTEME SUBAQUATIQUE ET PROCEDE POUR METTRE SOUS PRESSION UN RESERVOIR DE PETROLE SUBAQUATIQUE PAR INJECTION INDEPENDANTE D'EAU ET DE GAZ**

[72] RODRIGUES, ROBERTO, BR

[72] ALBERTO BANDEIRA RIBEIRO CARDOSO, CARLOS, BR

[71] PETROLEO BRASILEIRO S.A. - PETROBRAS, BR

[85] 2020-04-03

[86] 2018-10-05 (PCT/GB2018/052853)

[87] (WO2019/069094)

[30] BR (102017021444-3) 2017-10-06

[21] **3,078,444**
[13] A1

[51] **Int.Cl. E21B 17/00 (2006.01) E21B 41/02 (2006.01) E21B 43/12 (2006.01)**

[25] EN

[54] **WELLBORE PLUNGERS WITH NON-METALLIC TUBING-CONTACTING SURFACES AND WELLS INCLUDING THE WELLBORE PLUNGERS**

[54] **PLONGEURS DE PUIITS DE FORAGE A SURFACES DE CONTACT DE TUBAGES NON-METALLIQUES, ET PUIITS COMPRENANT LES PLONGEURS DE PUIITS DE FORAGE**

[72] FLOWERS, DANIEL R., AR

[72] BERMEA, ANTHONY J., US

[72] ROMER, MICHAEL C., US

[71] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US

[85] 2020-04-03

[86] 2018-07-10 (PCT/US2018/041447)

[87] (WO2019/070323)

[30] US (62/568,109) 2017-10-04

[30] US (62/588,728) 2017-11-20

[21] **3,078,445**
[13] A1

[51] **Int.Cl. B23K 11/11 (2006.01) B23K 11/34 (2006.01)**

[25] EN

[54] **METHOD OF MANUFACTURE OF SPOT WELDED JOINT, STEEL SHEET FOR SPOT WELDING USE, AND STEEL SHEET MEMBER FOR SPOT WELDING USE**

[54] **PROCEDE DE FABRICATION D'UN JOINT SOUDE PAR POINTS, FEUILLE D'ACIER POUR SOUDAGE PAR POINTS, ET ELEMENT EN FEUILLE D'ACIER POUR SOUDAGE PAR POINTS**

[72] MATSUI, SHO, JP

[72] SAITO, MASAHIRO, JP

[72] FURUSAKO, SEIJI, JP

[72] MIYAZAKI, YASUNOBU, JP

[71] NIPPON STEEL CORPORATION, JP

[85] 2020-04-03

[86] 2018-10-05 (PCT/JP2018/037476)

[87] (WO2019/070075)

[30] JP (2017-195134) 2017-10-05

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[21] **3,078,446**
[13] A1

[51] **Int.Cl. A61K 8/34 (2006.01) A61Q 5/04 (2006.01)**
[25] EN
[54] **PROCESS FOR RESHAPING KERATIN FIBERS**
[54] **PROCEDE DE REMODELAGE DE FIBRES DE KERATINE**
[72] TSUZUKI, SAKI, JP
[72] KOMURE, NATSUMI, JP
[71] L'OREAL, FR
[85] 2020-04-03
[86] 2018-10-05 (PCT/JP2018/038235)
[87] (WO2019/074128)
[30] JP (2017-198290) 2017-10-12

[21] **3,078,448**
[13] A1

[51] **Int.Cl. B62D 55/205 (2006.01) B60C 27/20 (2006.01) B62D 55/04 (2006.01) B62D 55/28 (2006.01)**
[25] EN
[54] **TRACK ASSEMBLIES FOR TERRAIN GOING VEHICLES AND METHOD FOR REPAIRING THE TRACKS**
[54] **ENSEMBLES DE CHENILLES POUR VEHICULES TERRESTRE ET PROCEDE DE REPARATION DES CHENILLES**
[72] KORHONEN, MARKO, FI
[71] FOMATEC OY, FI
[85] 2020-03-16
[86] 2017-09-26 (PCT/FI2017/050676)
[87] (WO2019/016431)
[30] FI (PCT/FI2017/050551) 2017-07-21
[30] FI (U20174189) 2017-07-21

[21] **3,078,449**
[13] A1

[51] **Int.Cl. G01N 33/48 (2006.01) A61K 31/496 (2006.01) G01N 33/483 (2006.01) G01N 33/92 (2006.01)**
[25] EN
[54] **BIOMARKER FOR SENESCENT CELLS**
[54] **BIOMARQUEUR POUR CELLULES SENESCENTES**
[72] WILEY, CHRISTOPHER D., US
[72] CAMPISI, JUDITH, US
[72] RAMANATHAN, ARVIND, US
[71] BUCK INSTITUTE FOR RESEARCH ON AGING, US
[85] 2020-04-03
[86] 2018-09-19 (PCT/US2018/051803)
[87] (WO2019/070407)
[30] US (62/569,437) 2017-10-06

[21] **3,078,450**
[13] A1

[51] **Int.Cl. D06J 1/10 (2006.01) B29C 53/26 (2006.01) B65H 45/08 (2006.01) B65H 45/10 (2006.01) D06J 1/02 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR FORMING PLEATS IN A TEXTILE PRODUCT IN A PRODUCTION LINE**
[54] **PROCEDE ET SYSTEME PERMETTANT DE FORMER DES PLIS DANS UN PRODUIT TEXTILE DANS UNE CHAINE DE PRODUCTION**
[72] STEINDORF, ERIC C., US
[72] SPENCER, ANTHONY S., US
[72] WEBER, JOSEPH P., US
[72] PAMPERIN, MARK T., US
[72] HARRINGTON, DAVID L., US
[71] O&M HALYARD INTERNATIONAL UNLIMITED COMPANY, IE
[85] 2020-04-03
[86] 2017-10-04 (PCT/US2017/055027)
[87] (WO2019/070247)

[21] **3,078,451**
[13] A1

[51] **Int.Cl. A61K 31/191 (2006.01) A61K 31/365 (2006.01) A61K 31/366 (2006.01) A61P 31/04 (2006.01) A61P 31/10 (2006.01)**
[25] EN
[54] **GLUCONIC ACID DERIVATIVES FOR USE IN THE TREATMENT AND/OR PREVENTION OF MICROBIAL INFECTIONS**
[54] **DERIVES D'ACIDE GLUCONIQUE DESTINES A ETRE UTILISES DANS LE TRAITEMENT ET/OU LA PREVENTION D'INFECTIONS MICROBIENNES**
[72] ELLERVIK, ULF, SE
[72] STERNER, OLOV, SE
[72] STREVENS, HELENA, SE
[72] MANNER, SOPHIE, SE
[71] GEDEA BIOTECH AB, SE
[85] 2020-04-03
[86] 2018-10-05 (PCT/EP2018/077129)
[87] (WO2019/068862)
[30] EP (17195192.4) 2017-10-06

[21] **3,078,452**
[13] A1

[51] **Int.Cl. A61K 38/22 (2006.01) A61K 47/60 (2017.01) A61K 47/69 (2017.01) A61P 19/02 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING RELAXIN AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS COMPRENANT DE LA RELAXINE ET LEURS METHODES D'UTILISATION**
[72] NAZARIAN, ARA, US
[72] RODRIGUEZ, EDWARD, US
[72] GRINSTAFF, MARK, US
[71] BETH ISRAEL DEACONESS MEDICAL CENTER, INC., US
[71] TRUSTEES OF BOSTON UNIVERSITY, US
[85] 2020-04-03
[86] 2017-10-09 (PCT/US2017/055799)
[87] (WO2018/068047)
[30] US (62/405,795) 2016-10-07

[21] **3,078,453**
[13] A1

[51] **Int.Cl. G01B 11/24 (2006.01)**
[25] EN
[54] **MEASUREMENT OF TOOTHED ARTICLES ON A COMPOSITE MACHINE TESTER PLATFORM UTILIZING A NON-CONTACT SENSOR**
[54] **MESURE D'ARTICLES DENTES SUR UNE PLATE-FORME DE TESTEUR DE MACHINE COMPOSITE UTILISANT UN CAPTEUR SANS CONTACT**
[72] WAGAJ, PARAG PRAKASH, US
[72] BEERCK, DOUGLAS CHARLES, US
[72] SHEPHERD, ETHAN JAMES, US
[72] TANNER, MICHAEL R., US
[72] DAMRON, EDWARD J., US
[72] SLUSSER, AARON TIMOTHY, US
[71] GLEASON METROLOGY SYSTEMS CORPORATION, US
[85] 2020-04-02
[86] 2018-10-23 (PCT/US2018/057000)
[87] (WO2019/083932)
[30] US (62/575,631) 2017-10-23

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[21] **3,078,454**
[13] A1

[51] **Int.Cl. B63C 3/06 (2006.01) B63C 1/00 (2006.01) B63C 3/12 (2006.01)**

[25] EN

[54] **SHIPLIFT PLATFORM WITH MOVABLE CONNECTORS FOR CONNECTING WITH PIERS**

[54] **PLATE-FORME D'ELEVATEUR A BATEAU DOTEE DE CONNECTEURS MOBILES POUR LE RACCORDEMENT A DES JETEEES**

[72] TAYLOR, ROBERT, US
[71] BARDEX CORPORATION, US
[85] 2020-04-03
[86] 2017-12-15 (PCT/US2017/066806)
[87] (WO2019/070301)
[30] US (62/568,921) 2017-10-06
[30] US (15/817,876) 2017-11-20

[21] **3,078,455**
[13] A1

[51] **Int.Cl. H03M 7/00 (2006.01) H04N 19/597 (2014.01) H04N 19/96 (2014.01) G06T 9/00 (2006.01)**

[25] EN

[54] **THREE-DIMENSIONAL DATA ENCODING METHOD, THREE-DIMENSIONAL DATA DECODING METHOD, THREE-DIMENSIONAL DATA ENCODING DEVICE, AND THREE-DIMENSIONAL DATA DECODING DEVICE**

[54] **PROCEDE DE CODAGE DE DONNEES TRIDIMENSIONNELLES, PROCEDE DE DECODAGE DE DONNEES TRIDIMENSIONNELLES, DISPOSITIF DE CODAGE DE DONNEES TRIDIMENSIONNELLES, ET DISPOSITIF DE DECODAGE DE DONNEES TRIDIMENSIONNELLES**

[72] LASANG, PONGSAK, JP
[72] SUGIO, TOSHIYASU, JP
[72] KOYAMA, TATSUYA, JP
[71] PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, US
[85] 2020-04-03
[86] 2018-10-22 (PCT/JP2018/039161)
[87] (WO2019/082837)
[30] US (62/576,259) 2017-10-24

[21] **3,078,456**
[13] A1

[51] **Int.Cl. E01F 9/604 (2016.01) G08G 1/0955 (2006.01) G08G 1/16 (2006.01)**

[25] EN

[54] **GOVERNING THE OPERATION OF AN ASSET WITHIN A GEO-ZONE**

[54] **DIRECTION DU FONCTIONNEMENT D'UN ACTIF A L'INTERIEUR D'UNE GEO-ZONE**

[72] JARRATT, JAMES, GB
[72] POETH, ROGER, GB
[71] HIGHWAY RESOURCE SOLUTIONS LTD, GB
[85] 2020-04-03
[86] 2018-10-08 (PCT/GB2018/052874)
[87] (WO2019/069105)
[30] GB (1716442.7) 2017-10-06

[21] **3,078,457**
[13] A1

[51] **Int.Cl. G07C 5/08 (2006.01) A62C 27/00 (2006.01) B28C 7/00 (2006.01) B60P 3/16 (2006.01) B65F 3/00 (2006.01) G06K 9/00 (2006.01) G07C 5/00 (2006.01)**

[25] EN

[54] **VEHICLE CONTROL SYSTEM**

[54] **SYSTEME DE COMMANDE DE VEHICULE**

[72] DATEMA, BRYAN, US
[72] CLIFTON, CODY, US
[72] GONG, XIANG, US
[72] WEI, ZHENYI, US
[72] BHATIA, SHASHANK, US
[71] OSHKOSH CORPORATION, US
[85] 2020-04-02
[86] 2018-10-24 (PCT/US2018/057348)
[87] (WO2019/084163)
[30] US (62/577,048) 2017-10-25

[21] **3,078,458**
[13] A1

[51] **Int.Cl. C12N 15/13 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) C07K 16/28 (2006.01) C12P 21/08 (2006.01)**

[25] EN

[54] **DNA MONOCLONAL ANTIBODIES TARGETING CTLA-4 FOR THE TREATMENT AND PREVENTION OF CANCER**

[54] **ANTICORPS MONOCLONAUX D'ADN CIBLANT LE CTLA-4 POUR LE TRAITEMENT ET LA PREVENTION DU CANCER**

[72] DUPERRET, ELIZABETH, US
[72] WEINER, DAVID, US
[71] THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY, US
[85] 2020-04-03
[86] 2018-10-03 (PCT/US2018/054137)
[87] (WO2019/070834)
[30] US (62/569,470) 2017-10-06

[21] **3,078,459**
[13] A1

[51] **Int.Cl. A63B 21/00 (2006.01) A63B 22/18 (2006.01) A63B 23/04 (2006.01) A63B 69/00 (2006.01)**

[25] EN

[54] **DEVICES AND METHOD FOR INCREASING RUNNING PERFORMANCE**

[54] **DISPOSITIFS ET PROCEDE POUR AUGMENTER LES PERFORMANCES EN COURSE A PIEDS**

[72] WECK, DAVID S., US
[71] BOSU FITNESS, LLC, US
[85] 2020-04-03
[86] 2018-08-16 (PCT/US2018/000177)
[87] (WO2019/074533)
[30] US (62/569,702) 2017-10-09
[30] US (62/639,059) 2018-03-06

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[51] Int.Cl. G01N 33/574 (2006.01) A61K 35/17 (2015.01) A61K 47/64 (2017.01)	[51] Int.Cl. A61K 31/47 (2006.01) A61K 31/381 (2006.01) C07H 15/207 (2006.01)	[51] Int.Cl. A61K 47/22 (2006.01) A61K 9/00 (2006.01) A61K 31/445 (2006.01) A61K 38/47 (2006.01) A61P 3/00 (2006.01) A61P 25/28 (2006.01)
[25] EN	[25] EN	[25] EN
[54] ARTICLES AND METHODS DIRECTED TO PERSONALIZED THERAPY OF CANCER	[54] METHODS AND COMPOSITIONS RELATING TO THE TREATMENT OF FIBROSIS	[54] FORMULATIONS COMPRISING GLUCOCEREBROSIDASE AND ISOFAGOMINE
[54] ARTICLES ET PROCEDES DESTINES A LA THERAPIE PERSONNALISEE DU CANCER	[54] METHODES ET COMPOSITIONS SE RAPPORTANT AU TRAITEMENT DE LA FIBROSE	[54] FORMULATIONS COMPRENANT DE LA GLUCOCEREBROSIDASE ET DE L'ISOFAOMINE
[72] LERNER, RICHARD A., US	[72] ELIAS, JACK A., US	[72] PARK, YUNG HEE, US
[72] BELOGUROV, ALEXEY ANATOLIEVICH, RU	[72] LEE, CHUN GEUN, US	[72] CHEN, NANCY, US
[72] XIE, JIA, US	[72] LEE, CHANG-MIN, US	[72] HU, JUN, US
[72] STEPANOV, ALEXEY VYACHESLAVOVICH, RU	[71] BROWN UNIVERSITY, US	[72] MEIYAPPAN, MUTHURAMAN, US
[72] GENKIN, DMITRY DMITRIEVICH, RU	[85] 2020-04-03	[72] MILLER, THOMAS ALLEN, US
[72] GABIBOV, ALEXANDER GABIBOVICH, RU	[86] 2018-08-17 (PCT/US2018/046845)	[71] SHIRE HUMAN GENETIC THERAPIES, INC., US
[71] OPKO PHARMACEUTICALS, LLC, US	[87] (WO2019/036566)	[85] 2020-04-02
[71] SHEMYAKIN-OVCHINNIKOV INSTITUTE OF BIOORGANIC CHEMISTRY, RU	[30] US (62/546,687) 2017-08-17	[86] 2018-10-25 (PCT/US2018/057575)
[71] RUSSIAN ACADEMY OF SCIENCES, RU	[21] 3,078,462 [13] A1	[87] (WO2019/084309)
[71] PJSC PHARMSYNTHEZ, US	[51] Int.Cl. E21B 23/14 (2006.01) E21B 4/18 (2006.01) E21B 17/10 (2006.01)	[30] US (62/577,429) 2017-10-26
[71] THE SCRIPPS RESEARCH INSTITUTE, US	[25] EN	[21] 3,078,464 [13] A1
[71] STEPANOV, ALEXEY VYACHESLAVOVICH, RU	[54] DEVICE FOR CENTRING AND/OR PULLING A TOOL IN A PIPELINE	[51] Int.Cl. C12N 15/85 (2006.01) C12N 15/113 (2010.01) A61K 38/47 (2006.01) A61P 25/16 (2006.01) C07K 14/47 (2006.01) C07K 14/53 (2006.01) C07K 14/705 (2006.01) C12N 7/01 (2006.01) C12N 9/16 (2006.01) C12N 9/24 (2006.01) C12N 9/42 (2006.01) C12N 9/64 (2006.01) C12N 9/78 (2006.01) C12N 15/12 (2006.01) C12N 15/24 (2006.01) C12N 15/55 (2006.01) C12N 15/56 (2006.01) C12N 15/57 (2006.01) C12N 15/86 (2006.01) C12N 15/864 (2006.01) C12N 15/866 (2006.01)
[71] GENKIN, DMITRY DMITRIEVICH, RU	[54] DISPOSITIF POUR CENTRER ET/OU TIRER UN OUTIL DANS UN PIPELINE	[25] EN
[71] GABIBOV, ALEXANDER GABIBOVICH, RU	[72] SANTOS, HUGO FRANCISCO LISBOA, BR	[54] GENE THERAPIES FOR LYOSOMAL DISORDERS
[85] 2020-04-03	[72] DOS REIS, NEY ROBINSON SALVI, BR	[54] THERAPIES GENIQUES POUR TROUBLES LYOSOMIAUX
[86] 2018-10-04 (PCT/RU2018/000653)	[72] URSINE KRETTLI, IGOR MENDES, BR	[72] ABELIOVICH, ASA, US
[87] (WO2019/070161)	[72] DA CUNHA PEREIRA PINTO, HARDY LEONARDO, BR	[72] HECKMAN, LAURA, US
[30] RU (2017134483) 2017-10-04	[72] FERREIRA, LINCOLN HOMERO THOME, BR	[72] RHINN, HERVE, US
[30] RU (2018112009) 2018-04-04	[72] GALASSI, MAURICIO, BR	[71] PREVAIL THERAPEUTICS, INC., US
[30] RU (2018134321) 2018-10-01	[71] PETROLEO BRASILEIRO S. A. - PETROBRAS, BR	[85] 2020-04-03
	[85] 2020-04-03	[86] 2018-10-03 (PCT/US2018/054227)
	[86] 2018-10-09 (PCT/GB2018/052881)	[87] (WO2019/070894)
	[87] (WO2019/077308)	[30] US (62/567,311) 2017-10-03
		[30] US (62/567,310) 2017-10-03
		[30] US (62/567,301) 2017-10-03
		[30] US (62/567,319) 2017-10-03
		[30] US (62/567,296) 2017-10-03

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[21] **3,078,465**
[13] A1

[51] **Int.Cl. C07K 16/46 (2006.01) A61K 31/7088 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01) C07K 16/40 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS RELATING TO ANTI-CHI3L1 ANTIBODY REAGENTS**

[54] **PROCEDES ET COMPOSITIONS SE RAPPORTANT A DES REACTIFS D'ANTICORPS ANTI-CHI3L1**

[72] ELIAS, JACK A., US

[72] LEE, CHUN GEUN, US

[72] HE, CHUAN HUA, US

[72] MA, BING, US

[72] KAMLE, SUCHITRA, US

[72] LEE, CHANG-MIN, US

[71] BROWN UNIVERSITY, US

[85] 2020-04-03

[86] 2018-08-23 (PCT/US2018/047633)

[87] (WO2019/040685)

[30] US (62/549,043) 2017-08-23

[30] US (62/650,374) 2018-03-30

[21] **3,078,466**
[13] A1

[51] **Int.Cl. A61K 38/39 (2006.01) C07K 14/78 (2006.01)**

[25] EN

[54] **SINGLE ALPHA CHAIN COLLAGENS**

[54] **COLLAGENES A CHAINE ALPHA UNIQUE**

[72] WRIGHT, CHRIS, GB

[72] WIDDOWSON, JONATHAN, GB

[71] SWANSEA UNIVERSITY, GB

[85] 2020-04-03

[86] 2018-10-11 (PCT/GB2018/052913)

[87] (WO2019/077312)

[30] GB (1717134.9) 2017-10-18

[21] **3,078,467**
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61K 39/00 (2006.01) A61P 11/06 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **ANTI-IL-5R.ALPHA. MONOCLONAL ANTIBODY**

[54] **ANTICORPS MONOCLONAL POUR IL-5RA**

[72] SOFRONOVA, EKATERINA VLADIMIROVNA, RU

[72] MISORIN, ALEKSEI KONSTANTINOVICH, RU

[72] DORONIN, ALEKSANDR NIKOLAEVICH, RU

[72] NEMANKIN, TIMOFEY ALEKSANDROVICH, RU

[72] SOZONOVA, ALEKSANDRA ALEKSANDROVNA, RU

[72] ZHIRIVSKAIA, GALINA STEPANOVNA, RU

[72] LEGOTSKY, SERGEY ALEKSANDROVICH, RU

[72] VLADIMIROVA, ANNA KONSTANTINOVNA, RU

[72] BELIASNIKOVA, ALINA VALEREVNA, RU

[72] SHCHEMELEVA, MARIIA ALEKSANDROVNA, RU

[72] IAKOVLEV, PAVEL ANDREEVICH, RU

[72] SOLOVYEV, VALERY VLADIMIROVICH, RU

[72] KRENDELEVA, ELENA ANDREEVNA, RU

[72] PESTOVA, NATALIA EVGENEVNA, RU

[72] MOROZOV, DMITRY VALENTINOVICH, RU

[71] JOINT STOCK COMPANY "BIOCAD", RU

[85] 2020-04-03

[86] 2018-10-02 (PCT/RU2018/050118)

[87] (WO2019/070164)

[30] RU (2017134413) 2017-10-03

[21] **3,078,468**
[13] A1

[51] **Int.Cl. B67D 1/04 (2006.01) A47J 31/00 (2006.01) B67D 1/08 (2006.01) A23F 3/16 (2006.01) A23F 5/24 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR COLD STORAGE AND HOT OR COLD DELIVERY OF A BREWED BEVERAGE**

[54] **SYSTEME ET PROCEDE DE STOCKAGE AU FROID ET DE DISTRIBUTION CHAUDE OU FROIDE D'UNE BOISSON INFUSEE**

[72] RYAN, HARRY, US

[71] RYAN BROTHERS COFFEE OF SAN DIEGO, INC., US

[85] 2020-04-03

[86] 2018-09-05 (PCT/US2018/049455)

[87] (WO2019/050884)

[30] US (15/697,229) 2017-09-06

[21] **3,078,469**
[13] A1

[51] **Int.Cl. G06F 9/50 (2006.01) G06F 9/54 (2006.01)**

[25] EN

[54] **MANAGING A COMPUTING CLUSTER USING TIME INTERVAL COUNTERS**

[54] **GESTION D'UNE GRAPPE INFORMATIQUE A L'AIDE DE COMPTEURS D'INTERVALLES DE TEMPS**

[72] STANFILL, CRAIG W., US

[72] WHOLEY, JOSEPH SKEFFINGTON, III, US

[71] AB INITIO TECHNOLOGY LLC, US

[85] 2020-04-02

[86] 2018-10-30 (PCT/US2018/058211)

[87] (WO2019/089593)

[30] US (62/579,225) 2017-10-31

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[21] **3,078,470**
[13] A1

[51] **Int.Cl. G21C 3/62 (2006.01) G21C 3/07 (2006.01)**
[25] EN
[54] **A REMOVABLE MANDREL FOR AUTOMATING PROCESS TO MANUFACTURE CERAMIC COMPOSITE NUCLEAR FUEL CLADDING TUBES**
[54] **MANDRIN AMOVIBLE POUR AUTOMATISER UN PROCESSUS DE FABRICATION DE TUBES DE GAINAGE DE COMBUSTIBLE NUCLEAIRE COMPOSITES CERAMIQUES**
[72] LAHODA, EDWARD J., US
[71] WESTINGHOUSE ELECTRIC COMPANY LLC, US
[85] 2020-04-03
[86] 2018-09-11 (PCT/US2018/050343)
[87] (WO2019/070370)
[30] US (15/726,737) 2017-10-06

[21] **3,078,471**
[13] A1

[51] **Int.Cl. B22F 3/105 (2006.01) B33Y 10/00 (2015.01) B33Y 80/00 (2015.01) C22C 33/02 (2006.01) B22F 1/00 (2006.01) B22F 5/00 (2006.01)**
[25] EN
[54] **HIGH HARDNESS 3D PRINTED STEEL PRODUCT**
[54] **PRODUIT EN ACIER IMPRIME EN 3D A DURETE ELEVEE**
[72] BESTE, ULRİK, SE
[71] VBN COMPONENTS AB, SE
[85] 2020-04-03
[86] 2018-11-22 (PCT/SE2018/051205)
[87] (WO2019/103686)
[30] SE (1751438-1) 2017-11-22

[21] **3,078,472**
[13] A1

[51] **Int.Cl. C07K 14/725 (2006.01) A61K 38/00 (2006.01)**
[25] EN
[54] **CHIMERIC ANTIGEN RECEPTORS**
[54] **RECEPTEURS D'ANTIGENES CHIMERIQUES**
[72] WALCHLI, SEBASTIEN, NO
[72] WALSENG, EVEN, NO
[72] INDERBERG, ELSE MARIT, NO
[72] KOKSAL, HAKAN, NO
[71] OSLO UNIVERSITETSSYKEHUS HF, NO
[85] 2020-04-03
[86] 2018-03-05 (PCT/IB2018/000303)
[87] (WO2019/069125)
[30] US (62/568,837) 2017-10-06
[30] US (62/583,058) 2017-11-08

[21] **3,078,473**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01)**
[25] EN
[54] **TRANSCATHETER DEPLOYMENT SYSTEMS AND ASSOCIATED METHODS**
[54] **SYSTEMES DE DEPLOIEMENT PAR TRANSCATHETER ET PROCEDES ASSOCIES**
[72] ARCARO, DAVID J., US
[72] ALGER, JASON T., US
[72] DIENNO, DUSTIN V., US
[72] HAARER, JOSHUA C., US
[72] HOOPINGARNER, EDWARD J., US
[72] NORRIS, PATRICK M., US
[72] BAYKOVA, OLGA, US
[72] JACOBY, RUSSELL L., US
[72] SMITH, BENJAMIN A., US
[71] W. L. GORE & ASSOCIATES, INC, US
[85] 2020-04-03
[86] 2018-09-12 (PCT/US2018/050768)
[87] (WO2019/089135)
[30] US (62/579,756) 2017-10-31
[30] US (62/579,762) 2017-10-31
[30] US (62/682,692) 2018-06-08
[30] US (16/129,657) 2018-09-12

[21] **3,078,474**
[13] A1

[51] **Int.Cl. B24D 11/00 (2006.01) B24D 99/00 (2010.01) B24D 18/00 (2006.01)**
[25] EN
[54] **ABRASIVE ARTICLE AND METHOD FOR FORMING SAME**
[54] **ARTICLE ABRASIF ET SON PROCEDE DE FORMATION**
[72] JAYARAM, ROBIN CHANDRAS, IN
[72] THANGAMANI, ARUNVEL, IN
[72] HARALUR, GURULINGAMURTHY M., IN
[71] SAINT-GOBAIN ABRASIVES, INC., US
[71] SAINT-GOBAIN ABRASIFS, FR
[85] 2020-04-03
[86] 2018-10-04 (PCT/US2018/054474)
[87] (WO2019/071053)
[30] IN (201741035158) 2017-10-04

[21] **3,078,475**
[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01) A61B 17/00 (2006.01) A61M 39/06 (2006.01)**
[25] EN
[54] **DEVICES FOR PERFORMING MINIMALLY INVASIVE SURGERY HAVING FOAM SUPPORT HOUSING**
[54] **DISPOSITIFS POUR REALISER UNE CHIRURGIE MINI-INVASIVE AYANT UN BOITIER DE SUPPORT EN MOUSSE**
[72] KLEYMAN, GENNADY, US
[72] AUGELLI, MICHAEL J., US
[72] KANE, MICHAEL J., US
[71] CONMED CORPORATION, US
[85] 2020-04-03
[86] 2018-09-24 (PCT/US2018/052361)
[87] (WO2019/083660)
[30] US (15/790,582) 2017-10-23

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[21] **3,078,476**
[13] A1

[51] **Int.Cl. G06F 9/50 (2006.01)**
[25] EN
[54] **MANAGING A COMPUTING CLUSTER USING DURABILITY LEVEL INDICATORS**
[54] **GESTION D'UNE GRAPPE INFORMATIQUE A L'AIDE D'INDICATEURS DE NIVEAU DE DURABILITE**
[72] STANFILL, CRAIG W., US
[71] AB INITIO TECHNOLOGY LLC, US
[85] 2020-04-02
[86] 2018-10-30 (PCT/US2018/058218)
[87] (WO2019/089599)
[30] US (62/579,225) 2017-10-31

[21] **3,078,477**
[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01) A61M 39/06 (2006.01)**
[25] EN
[54] **DEVICES FOR PERFORMING MINIMALLY INVASIVE SURGERY HAVING ROTATING MULTIPORT ACCESS**
[54] **DISPOSITIFS POUR REALISER UNE CHIRURGIE MINI-INVASIVE AYANT UN ACCES MULTI-ORIFICE ROTATIF**
[72] AUGELLI, MICHAEL J., US
[72] KLEYMAN, GENNADY, US
[72] KANE, MICHAEL J., US
[72] PEDROS, ROBERT, US
[71] CONMED CORPORATION, US
[85] 2020-04-03
[86] 2018-09-25 (PCT/US2018/052526)
[87] (WO2019/083663)
[30] US (15/790,534) 2017-10-23

[21] **3,078,478**
[13] A1

[51] **Int.Cl. G06F 9/50 (2006.01) G06F 9/54 (2006.01)**
[25] EN
[54] **MANAGING A COMPUTING CLUSTER INTERFACE**
[54] **GESTION D'UNE INTERFACE DE GRAPPE INFORMATIQUE**
[72] DOUROS, BRYAN PHIL, US
[72] STANFILL, CRAIG W., US
[71] AB INITIO TECHNOLOGY LLC, US
[85] 2020-04-02
[86] 2018-10-30 (PCT/US2018/058220)
[87] (WO2019/089601)
[30] US (62/579,225) 2017-10-31

[21] **3,078,479**
[13] A1

[51] **Int.Cl. B26B 11/00 (2006.01)**
[25] EN
[54] **MULTIFUNCTIONAL POCKET KNIFE**
[54] **COUTEAU DE POCHE MULTIFONCTIONNEL**
[72] HUG, PETER, CH
[72] SALIN, ARNAUD, FR
[71] HELVETICA BRANDS SA, CH
[85] 2020-04-03
[86] 2018-10-16 (PCT/IB2018/001168)
[87] (WO2019/077403)
[30] CH (01283/17) 2017-10-20

[21] **3,078,480**
[13] A1

[51] **Int.Cl. B25J 11/00 (2006.01) B25J 9/16 (2006.01)**
[25] EN
[54] **MATRIX CONFIGURED GRILL APPARATUS**
[54] **APPAREIL DE GRIL CONFIGURE PAR MATRICE**
[72] MINARD, JAMES J., US
[71] TAYLOR COMMERCIAL FOODSERVICE INC., US
[85] 2020-04-03
[86] 2018-10-04 (PCT/US2018/054341)
[87] (WO2019/070959)
[30] US (62/569,083) 2017-10-06

[21] **3,078,481**
[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **INTERMITTENT CONNECTION-TYPE OPTICAL FIBER RIBBON, AND METHOD FOR MANUFACTURING INTERMITTENT CONNECTION-TYPE OPTICAL FIBER RIBBON**
[54] **RUBAN DE FIBRES OPTIQUES DU TYPE A CONNEXION INTERMITTENTE ET SON PROCEDE DE FABRICATION**
[72] SEKINE, SHIZUKA, JP
[72] ISAJI, MIZUKI, JP
[72] TOMIKAWA, KOUJI, JP
[72] OSATO, KEN, JP
[71] FUJIKURA LTD., JP
[85] 2020-04-03
[86] 2018-07-23 (PCT/JP2018/027426)
[87] (WO2019/069537)
[30] JP (2017-195298) 2017-10-05

[21] **3,078,482**
[13] A1

[51] **Int.Cl. G06F 9/52 (2006.01)**
[25] EN
[54] **MANAGING A COMPUTING CLUSTER BASED ON CONSISTENCY OF STATE UPDATES**
[54] **GESTION D'UN GROUPE INFORMATIQUE SUR LA BASE DE LA COHERENCE DE MISES A JOUR D'ETAT**
[72] STANFILL, CRAIG W., US
[71] AB INITIO TECHNOLOGY LLC, US
[85] 2020-04-02
[86] 2018-10-30 (PCT/US2018/058225)
[87] (WO2019/089606)
[30] US (62/579,225) 2017-10-31

[21] **3,078,483**
[13] A1

[51] **Int.Cl. G06F 9/50 (2006.01) G06F 9/54 (2006.01)**
[25] EN
[54] **MANAGING A COMPUTING CLUSTER USING REPLICATED TASK RESULTS**
[54] **GESTION D'UNE GRAPPE INFORMATIQUE A L'AIDE DE RESULTATS DE TACHES REPLIQUEES**
[72] STANFILL, CRAIG W., US
[72] WHOLEY, JOSEPH SKEFFINGTON, III, US
[71] AB INITIO TECHNOLOGY LLC, US
[85] 2020-04-02
[86] 2018-10-30 (PCT/US2018/058249)
[87] (WO2019/089619)
[30] US (62/579,225) 2017-10-31

[21] **3,078,484**
[13] A1

[51] **Int.Cl. E04B 1/343 (2006.01)**
[25] EN
[54] **CUSTOMIZABLE TRANSPORTABLE STRUCTURES AND COMPONENTS THEREFOR**
[54] **STRUCTURES TRANSPORTABLES PERSONNALISABLES ET ELEMENTS POUR CELLES-CI**
[72] TIRAMANI, PAOLO, US
[72] DENMAN, KYLE, US
[71] 500 GROUP, INC., US
[85] 2020-04-03
[86] 2018-09-27 (PCT/US2018/053006)
[87] (WO2019/070484)
[30] US (62/567,579) 2017-10-03
[30] US (62/568,491) 2017-10-05

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[21] **3,078,485**
[13] A1

[51] **Int.Cl. A61L 9/01 (2006.01) A61L 9/04 (2006.01) A61L 9/12 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR REDUCING MALODOR ON SURFACES**

[54] **APPAREIL ET PROCEDURE D'ATTENUATION DE MAUVAISES ODEURS SUR DES SURFACES**

[72] VYAS, RAHUL, SG
[72] CHAUHAN, GARIMA, SG
[72] KHANOLKAR, MADHURI, SG
[72] SAINI, GAURAV, SG
[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2020-04-02
[86] 2018-10-31 (PCT/US2018/058428)
[87] (WO2019/089739)
[30] US (62/581,034) 2017-11-03

[21] **3,078,486**
[13] A1

[51] **Int.Cl. B60D 1/00 (2006.01) B60P 1/00 (2006.01) B60P 1/04 (2006.01) B60P 1/44 (2006.01) B60P 3/40 (2006.01)**

[25] EN

[54] **WHEELED ASSEMBLY FOR ITEM TRANSPORT**

[54] **ENSEMBLE A ROUES POUR TRANSPORT D'ARTICLES**

[72] TIRAMANI, PAOLO, US
[72] DENMAN, KYLE, US
[71] 500 GROUP, INC., US

[85] 2020-04-03
[86] 2018-09-27 (PCT/US2018/053015)
[87] (WO2019/070485)
[30] US (62/567,579) 2017-10-03
[30] US (62/568,491) 2017-10-05

[21] **3,078,487**
[13] A1

[51] **Int.Cl. B63B 17/00 (2006.01) B63B 17/02 (2006.01) E04H 15/62 (2006.01)**

[25] EN

[54] **ADJUSTABLE HEIGHT SPRING-BIASED SUPPORT POLE**

[54] **POTEAU DE SUPPORT SOLLICITE PAR RESSORT REGLABLE EN HAUTEUR**

[72] POPA, NICHOLAS, US
[72] EBBENGA, MARK, US
[72] HALLBERG, DANA, US
[71] QUALITY MARK, INC., US

[85] 2020-04-03
[86] 2018-10-01 (PCT/US2018/053689)
[87] (WO2019/070555)
[30] US (62/568,513) 2017-10-05

[21] **3,078,488**
[13] A1

[51] **Int.Cl. G01B 11/25 (2006.01) G01B 11/245 (2006.01) G01C 11/00 (2006.01) G02B 21/06 (2006.01) G02B 21/36 (2006.01) G02C 9/00 (2006.01)**

[25] EN

[54] **GENERATION OF ONE OR MORE EDGES OF LUMINOSITY TO FORM THREE-DIMENSIONAL MODELS OF OBJECTS**

[54] **GENERATION D'UN OU PLUSIEURS BORDS DE LUMINOSITE POUR FORMER DES MODELES TRIDIMENSIONNELS D'OBJETS**

[72] BERNSTEIN, AARON, US
[72] LEVINE, JEFFREY, US
[72] EDWARDS, PATRICK, US
[71] BERNSTEIN, AARON, US
[71] LEVINE, JEFFREY, US
[71] EDWARDS, PATRICK, US

[85] 2020-04-03
[86] 2018-10-05 (PCT/US2018/054653)
[87] (WO2019/071157)
[30] US (62/569,353) 2017-10-06

[21] **3,078,489**
[13] A1

[51] **Int.Cl. E01B 5/18 (2006.01)**

[25] EN

[54] **FIBERGLASS GUARD RAIL**

[54] **GARDE-CORPS DE FIBRE DE VERRE**

[72] LAWLER, KINTON, US
[71] ASSET INTEGRITY MANAGEMENT SOLUTIONS, L.L.C. D/B/A AIMS INTERNATIONAL, US

[85] 2020-04-03
[86] 2018-10-01 (PCT/US2018/053695)
[87] (WO2019/070558)
[30] US (62/569,290) 2017-10-06
[30] US (15/829,674) 2017-12-01

[21] **3,078,490**
[13] A1

[51] **Int.Cl. H02G 1/06 (2006.01) G02B 6/44 (2006.01) H01B 7/18 (2006.01) H01B 11/00 (2006.01) H02G 3/04 (2006.01)**

[25] EN

[54] **DISTRIBUTION CABLING TAPE, SYSTEM AND TAPE APPLICATION DEVICE**

[54] **RUBAN DE CABLAGE DE DISTRIBUTION, SYSTEME ET DISPOSITIF D'APPLICATION DE RUBAN**

[72] BORER, VICTOR JULIAN, US
[72] DUPUIS, DAVID M., US
[72] KIPKE, CARY A., US
[72] LAMMERS, JOHN PATRICK, US
[72] LARSON, DONALD KENT, US
[72] THOMPSON, ZACHARY M., US
[71] CORNING RESEARCH & DEVELOPMENT CORPORATION, US

[85] 2020-04-03
[86] 2018-10-03 (PCT/US2018/054107)
[87] (WO2019/070811)
[30] US (62/567,516) 2017-10-03

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[21] **3,078,492**
[13] A1

[51] **Int.Cl. B65B 1/10 (2006.01) A61J 7/00 (2006.01) B65B 57/14 (2006.01)**

[25] EN

[54] **UNIVERSAL FEED MECHANISM FOR AUTOMATIC PACKAGER**

[54] **MECANISME D'ALIMENTATION UNIVERSEL POUR DISPOSITIF D'EMBALLAGE AUTOMATIQUE**

[72] HOLMES, WILLIAM K., US

[71] RXSAFE LLC, US

[85] 2020-04-03

[86] 2018-10-15 (PCT/US2018/055880)

[87] (WO2019/075462)

[30] US (62/572,204) 2017-10-13

[30] US (62/710,353) 2018-02-16

[21] **3,078,493**
[13] A1

[51] **Int.Cl. A61B 10/00 (2006.01)**

[25] EN

[54] **SYSTEMS, DEVICES, AND METHODS FOR SAMPLE COLLECTION**

[54] **SYSTEMES, DISPOSITIFS ET PROCEDES DE COLLECTE D'ECHANTILLON**

[72] SESSIONS, TRAVIS, US

[72] O'NEILL, DAN H., US

[72] WAKLEY, JACOB, US

[72] BARRON, WILLIAM R., US

[72] PATTERSON, RYAN, US

[72] DEVORE, AARON, US

[72] SORENSEN, COLLIN, US

[72] DANIELS, GRANT, US

[71] ANCESTRY.COM DNA, LLC, US

[85] 2020-04-03

[86] 2018-10-03 (PCT/US2018/054136)

[87] (WO2019/070833)

[30] US (62/569,082) 2017-10-06

[21] **3,078,494**
[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01) A61M 39/06 (2006.01)**

[25] EN

[54] **DEVICES FOR PERFORMING MINIMALLY INVASIVE SURGERY HAVING BELLOWS SUPPORT HOUSING**

[54] **DISPOSITIFS POUR REALISER UNE INTERVENTION CHIRURGICALE MINIMALEMENT INVASIVE COMPRENANT UN BOITIER DE SUPPORT DE SOUFFLET**

[72] KLEYMAN, GENNADY, US

[72] AUGELLI, MICHAEL J., US

[72] KANE, MICHAEL J., US

[72] SILVER, MIKIYA, US

[71] CONMED CORPORATION, US

[85] 2020-04-03

[86] 2018-09-25 (PCT/US2018/052527)

[87] (WO2019/083664)

[30] US (15/790,658) 2017-10-23

[21] **3,078,495**
[13] A1

[51] **Int.Cl. B22C 1/08 (2006.01) A61C 13/20 (2006.01) B22C 7/02 (2006.01) C04B 14/06 (2006.01) C04B 24/02 (2006.01) C04B 28/14 (2006.01)**

[25] EN

[54] **GYPSUM-BASED INVESTMENT MATERIAL COMPOSITION FOR CASTING, AND METHOD FOR MANUFACTURING GYPSUM-BASED INVESTMENT MATERIAL COMPOSITION FOR CASTING**

[54] **COMPOSITION DE MATERIAU DE REVETEMENT A BASE DE GYPSE POUR COULEE, ET PROCEDE DE FABRICATION DE CELLE-CI**

[72] HORIUCHI, TATSUYA, JP

[72] SUGANO, KENICHI, JP

[71] YOSHINO GYPSUM CO., LTD., JP

[85] 2020-04-03

[86] 2018-10-01 (PCT/JP2018/036757)

[87] (WO2019/069874)

[30] JP (2017-195194) 2017-10-05

[21] **3,078,498**
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 10/00 (2012.01)**

[25] EN

[54] **MAINTAINING INDUSTRIAL EQUIPMENT**

[54] **MAINTENANCE D'EQUIPEMENT INDUSTRIEL**

[72] HARRISON, MATTHEW, US

[72] FIGOLI, DAVID, US

[71] WELLAWARE HOLDINGS, INC., US

[85] 2020-04-03

[86] 2018-10-03 (PCT/US2018/054195)

[87] (WO2019/070873)

[30] US (62/568,172) 2017-10-04

[21] **3,078,499**
[13] A1

[51] **Int.Cl. H04N 21/262 (2011.01) H04N 21/81 (2011.01) G06Q 30/02 (2012.01)**

[25] EN

[54] **ANALYSIS OF TELEVISION VIEWERSHIP DATA FOR CREATING ELECTRONIC CONTENT SCHEDULES**

[54] **ANALYSE DE DONNEES DE TELESPECTATEURS POUR CREER DES PROGRAMMES DE CONTENU ELECTRONIQUE**

[72] TSIVIN, VITALY, US

[71] AMC NETWORK ENTERTAINMENT LLC, US

[85] 2020-04-03

[86] 2018-10-03 (PCT/US2018/054207)

[87] (WO2019/070880)

[30] US (62/567,960) 2017-10-04

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[21] **3,078,501**
[13] A1

[51] **Int.Cl. C12N 15/85 (2006.01) C12N 15/113 (2010.01) A61K 31/7088 (2006.01) A61K 35/76 (2015.01) A61P 25/16 (2006.01) C12N 9/24 (2006.01) C12N 9/42 (2006.01) C12N 15/09 (2006.01) C12N 15/56 (2006.01) C12N 15/63 (2006.01) C12N 15/864 (2006.01)**

[25] EN

[54] **GENE THERAPIES FOR LYSOSOMAL DISORDERS**

[54] **THERAPIES GENIQUES POUR TROUBLES LYSOSOMAUX**

[72] ABELIOVICH, ASA, US

[72] HECKMAN, LAURA, US

[72] RHINN, HERVE, US

[71] PREVAIL THERAPEUTICS, INC., US

[85] 2020-04-03

[86] 2018-10-03 (PCT/US2018/054223)

[87] (WO2019/070891)

[30] US (62/567,303) 2017-10-03

[30] US (62/567,305) 2017-10-03

[21] **3,078,503**
[13] A1

[51] **Int.Cl. A61N 1/40 (2006.01) A61K 31/337 (2006.01) A61K 31/4188 (2006.01) A61K 31/713 (2006.01) A61K 39/395 (2006.01) A61N 1/36 (2006.01) A61N 2/00 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING GLIOBLASTOMA OR RECURRENT GLIOBLASTOMA UTILIZING A WIRELESS SIGNAL ALONE OR IN COMBINATION WITH ONE OR MORE CANCER DRUGS, AND ASSOCIATED SYSTEMS, APPARATUSES, AND DEVICES**

[54] **METHODES DE TRAITEMENT DU GLIOBLASTOME OU DU GLIOBLASTOME RECURRENT FAISANT APPEL A UN SIGNAL SANS FIL SEUL OU EN ASSOCIATION AVEC UN OU PLUSIEURS MEDICAMENTS ANTICANCEREUX, ET SYSTEMES, APPAREILS ET DISPOSITIFS ASSOCIES**

[72] BUTTERS, BENNETT M., US

[71] EMULATE THERAPEUTICS, INC., US

[85] 2020-04-03

[86] 2018-10-03 (PCT/US2018/054249)

[87] (WO2019/070911)

[30] US (62/568,287) 2017-10-04

[30] US (62/568,284) 2017-10-04

[21] **3,078,504**
[13] A1

[51] **Int.Cl. C07K 7/50 (2006.01) A61K 38/00 (2006.01) A61K 38/12 (2006.01) A61P 19/02 (2006.01) A61P 37/02 (2006.01) C07K 7/00 (2006.01) C07K 7/06 (2006.01) C07K 7/08 (2006.01)**

[25] EN

[54] **BICYCLIC PEPTIDYL INHIBITORS**

[54] **INHIBITEURS PEPTIDIQUES BICYCLIQUES**

[72] PEI, DEHUA, US

[71] OHIO STATE INNOVATION FOUNDATION, US

[85] 2020-04-03

[86] 2018-10-04 (PCT/US2018/054345)

[87] (WO2019/070962)

[30] US (62/568,221) 2017-10-04

[21] **3,078,505**
[13] A1

[51] **Int.Cl. C12N 9/10 (2006.01) C12N 15/22 (2006.01) C12P 7/22 (2006.01) C12P 17/06 (2006.01)**

[25] EN

[54] **MICROORGANISMS AND METHODS FOR THE FERMENTATION OF CANNABINOIDS**

[54] **MICRO-ORGANISMES ET PROCEDES POUR LA FERMENTATION DE CANNABINOIDES**

[72] SZAMECZ, BELA KRISZTIAN, HU

[72] VARSZEGI, SZILVIA, HU

[72] NEMETH, ATTILA, HU

[72] SZABO, LORAND, HU

[72] KUMAR, ABHUNAV, US

[71] INTREXON CORPORATION, US

[85] 2020-04-03

[86] 2018-10-04 (PCT/US2018/054400)

[87] (WO2019/071000)

[30] US (62/568,355) 2017-10-05

[30] US (62/686,884) 2018-06-19

[21] **3,078,507**
[13] A1

[51] **Int.Cl. C01B 32/05 (2017.01)**

[25] EN

[54] **NOVEL CARBON FOAMS AND METHODS OF MAKING AND USING SAME**

[54] **NOUVELLES MOUSSES DE CARBONE ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] DIAZ-AUNON, JOSE A., US

[72] KOZYNCHENKO, OLEKSANDR, US

[71] IMMUTRIX THERAPEUTICS, INC., US

[85] 2020-04-03

[86] 2018-10-04 (PCT/US2018/054454)

[87] (WO2019/071035)

[30] US (62/568,387) 2017-10-05

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[21] 3,076,327 [13] A1	[21] 3,076,966 [13] A1	[21] 3,078,075 [13] A1
<p>[51] Int.Cl. A61M 25/04 (2006.01) A61M 1/00 (2006.01) A61M 25/00 (2006.01) A61M 27/00 (2006.01)</p> <p>[25] EN</p> <p>[54] CATHETER DEVICE AND METHOD FOR INDUCING NEGATIVE PRESSURE IN A PATIENT'S BLADDER</p> <p>[54] DISPOSITIF DE SONDE ET PROCEDE D'INDUCTION D'UNE PRESSION NEGATIVE DANS LA VESSIE D'UN PATIENT</p> <p>[72] ERBEY, JOHN R., II, US</p> <p>[72] UPPERCO, JACOB L., US</p> <p>[72] FISHER, MICHAEL ALLEN, US</p> <p>[72] STRANE, PATRICK WILLIAM, US</p> <p>[72] BLACK, LANCE MICHAEL, US</p> <p>[71] STRATACA SYSTEMS LIMITED, US</p> <p>[22] 2016-07-20</p> <p>[41] 2017-01-26</p> <p>[62] 2,992,546</p> <p>[30] US (62/194,585) 2015-07-20</p> <p>[30] US (62/260,966) 2015-11-30</p> <p>[30] US (62/278,721) 2016-01-14</p> <p>[30] US (62/300,025) 2016-02-25</p>	<p>[51] Int.Cl. B62D 11/14 (2006.01) B60G 3/02 (2006.01) B62D 55/14 (2006.01)</p> <p>[25] EN</p> <p>[54] TRACKED ALL-TERRAIN VEHICLE</p> <p>[54] VEHICULE TOUT TERRAIN A CHENILLES</p> <p>[72] BENNETT, JEFFREY D., US</p> <p>[72] MALONE, AMBER P., US</p> <p>[72] SAFRANSKI, BRIAN, US</p> <p>[72] WENGER, URS, US</p> <p>[72] KOHLER, BEAT R., US</p> <p>[72] JENNI, HANS-RUDOLF, US</p> <p>[72] BORUD, ERIC U., US</p> <p>[72] BATES, RICHARD H., JR., US</p> <p>[72] BRACHT, BRADLEY A., US</p> <p>[72] SYTSMA, COLE A., US</p> <p>[72] MCGUIRE, MATTHEW P., US</p> <p>[71] POLARIS INDUSTRIES INC., US</p> <p>[22] 2014-03-25</p> <p>[41] 2014-10-02</p> <p>[62] 2,904,872</p> <p>[30] US (61/805,113) 2013-03-25</p>	<p>[25] EN</p> <p>[54] METHODS AND SYSTEMS FOR ARTIFICIAL COGNITION</p> <p>[54]</p> <p>[72] ELIASMITH, CHRISTOPHER DAVID, CA</p> <p>[72] STEWART, TERRENCE CHARLES, CA</p> <p>[72] CHOO, FENG-XUAN, CA</p> <p>[72] BEKOLAY, TREVOR WILLIAM, CA</p> <p>[72] CRNICH-DEWOLF, TRAVIS, CA</p> <p>[72] TANG, YICHUAN, CA</p> <p>[72] RASMUSSEN, DANIEL HALDEN, CA</p> <p>[71] APPLIED BRAIN RESEARCH INC., CA</p> <p>[22] 2012-12-05</p> <p>[41] 2014-06-05</p> <p>[62] 2,798,529</p>
<p style="text-align: center;">[21] 3,076,387 [13] A1</p> <p>[51] Int.Cl. H04W 56/00 (2009.01) H04W 72/12 (2009.01) H04B 7/185 (2006.01)</p> <p>[25] EN</p> <p>[54] METHOD AND APPARATUS FOR HANDLING COMMUNICATIONS BETWEEN SPACECRAFT OPERATING IN AN ORBITAL ENVIRONMENT AND TERRESTRIAL TELECOMMUNICATIONS DEVICES</p> <p>[54]</p> <p>[72] SPEIDEL, TYGHE ROBERT, US</p> <p>[72] GERBER, ANDREW, US</p> <p>[71] LYNK GLOBAL, INC., US</p> <p>[22] 2018-02-28</p> <p>[41] 2018-09-07</p> <p>[62] 3,054,931</p> <p>[30] US (62/465,945) 2017-03-02</p> <p>[30] US (62/490,298) 2017-04-26</p> <p>[30] US (15/857,073) 2017-12-28</p>	<p style="text-align: center;">[21] 3,077,967 [13] A1</p> <p>[25] EN</p> <p>[54] TRAY FOR SUPPORTING CONTAINERS AND A BLANK FOR MAKING THE SAME</p> <p>[54] PLATEAU POUR SOUTENIR DES CONTENANTS ET UNE EBAUCHE POUR LE FABRIQUER</p> <p>[72] BAHR, DAVE WAYNE, US</p> <p>[71] ROCK-TENN SHARED SERVICES, LLC, US</p> <p>[22] 2012-04-25</p> <p>[41] 2012-10-26</p> <p>[62] 2,775,454</p> <p>[30] US (13/094,398) 2011-04-26</p>	<p style="text-align: center;">[21] 3,078,076 [13] A1</p> <p>[25] EN</p> <p>[54] PUSH-PULL PASSAGE LOCK MOUNTING DEVICE ADAPTED TO DOORS IN VARIOUS SIZES</p> <p>[54]</p> <p>[72] QIU, JIA SEN, CN</p> <p>[71] CMECH (GUANGZHOU) LTD., CN</p> <p>[22] 2018-06-19</p> <p>[41] 2018-12-19</p> <p>[62] 3,008,884</p> <p>[30] CN (201720717203.1) 2017-06-19</p> <p>[30] US (15/796102) 2017-10-27</p>

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,078,077**
[13] A1

[51] **Int.Cl. B65D 1/42 (2006.01) A45F 3/20 (2006.01) A47G 19/03 (2006.01) A47G 19/23 (2006.01) B65D 21/02 (2006.01)**

[25] EN

[54] **CONTAINER HAVING ENHANCED WALL INTEGRITY AND ALIGNMENT ELEMENT**

[54] **CONTENANT AVEC PAROIS PRESENTANT UNE INTEGRITE ACCRUE ET ELEMENT D'ALIGNEMENT**

[72] HODGE, DON, US

[72] TOMALIA, DON, US

[72] OSENTOSKI, JASON, US

[72] TROMBLEY, JOE, US

[72] MACIAG, DAN, US

[72] BRUSHABER, PETE, US

[72] LIMING, MIKE, US

[71] HUHTAMAKI, INC., US

[22] 2012-06-12

[41] 2012-12-16

[62] 2,779,879

[30] US (13/162,307) 2011-06-16

[21] **3,078,078**
[13] A1

[51] **Int.Cl. E05B 15/00 (2006.01) E05B 9/00 (2006.01) E05C 1/08 (2006.01)**

[25] EN

[54] **PUSH-PULL PASSAGE LOCK HOUSING**

[54] **LOGEMENT DE SERRURE DE PASSAGE POUSSER-TIRER**

[72] QIU, JIA SEN, CN

[71] CMECH (GUANGZHOU) LTD., CN

[22] 2018-06-19

[41] 2018-12-19

[62] 3,008,879

[30] CN (201720717217.3) 2017-06-19

[30] US (15/796352) 2017-10-27

[21] **3,078,080**
[13] A1

[25] EN

[54] **PUSH-PULL PASSAGE LOCK**

[54] **SERRURE DE PASSAGE POUSSER-TIRER**

[72] QIU, JIA SEN, CN

[71] CMECH (GUANGZHOU) LTD., CN

[22] 2018-06-19

[41] 2018-12-19

[62] 3,008,876

[30] CN (201710462506.8) 2017-06-19

[30] US (15/796550) 2017-10-27

[21] **3,078,081**
[13] A1

[51] **Int.Cl. H05B 45/50 (2020.01)**

[25] EN

[54] **LOAD CONTROL DEVICE FOR HIGH-EFFICIENCY LOADS**

[54] **DISPOSITIF DE CONTROLE DE CHARGE POUR CHARGES A HAUTE EFFICACITE**

[72] MACADAM, RUSSELL L., US

[72] PARENT, JOSEPH T., US

[72] WEIGHTMAN, RUSSELL, US

[71] LUTRON TECHNOLOGY COMPANY LLC, US

[22] 2016-09-02

[41] 2017-03-09

[62] 2,996,603

[30] US (62/214,616) 2015-09-04

[21] **3,078,084**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6876 (2018.01) A61K 31/19 (2006.01) A61K 31/25 (2006.01) A61K 31/7004 (2006.01) A61K 31/765 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **USE OF GENOMIC TESTING AND KETOGENIC COMPOUNDS FOR TREATMENT OF REDUCED COGNITIVE FUNCTION**

[54] **UTILISATION D'ESSAIS GENOMIQUES ET DE COMPOSES CETOGENIQUES POUR LE TRAITEMENT D'UNE FONCTION COGNITIVE REDUITE**

[72] HENDERSON, SAMUEL T., US

[71] CERECIN INC., US

[22] 2008-07-31

[41] 2009-02-05

[62] 2,853,992

[30] US (60/953,074) 2007-07-31

[21] **3,078,087**
[13] A1

[51] **Int.Cl. G01T 1/167 (2006.01) G01N 23/203 (2006.01) G01T 3/00 (2006.01) G21K 1/04 (2006.01)**

[25] EN

[54] **COVERT SURVEILLANCE USING MULTI-MODALITY SENSING**

[54] **SURVEILLANCE FURTIVE PAR DETECTION MULTIMODALE**

[72] BENDAHAN, JOSEPH, US

[72] MORTON, EDWARD JAMES, GB

[71] RAPISCAN SYSTEMS, INC., US

[22] 2012-06-14

[41] 2012-12-20

[62] 2,863,363

[30] US (61/497,024) 2011-06-14

[21] **3,078,097**
[13] A1

[51] **Int.Cl. A61M 25/06 (2006.01) A61M 5/162 (2006.01) A61M 5/32 (2006.01)**

[25] EN

[54] **TIP PROTECTOR FOR A SAFETY CATHETER**

[54]

[72] KOEHLER, THOMAS T., US

[72] FELICITO, KATHRYN L., US

[72] CHHEDA, HARSH, US

[72] ABRILES, OSCAR R., US

[71] SMITHS MEDICAL ASD, INC., US

[22] 2011-03-17

[41] 2011-12-08

[62] 2,791,402

[30] US (12/792,290) 2010-06-02

[21] **3,078,098**
[13] A1

[25] EN

[54] **INTRAOCULAR GAS INJECTOR**

[54] **INJECTEUR DE GAZ INTRA-OCULAIRE**

[72] AULD, JACK R., US

[72] HUCULAK, JOHN C., US

[72] MCCOLLAM, CHRISTOPHER L., US

[71] ALCON INC., CH

[22] 2013-06-12

[41] 2013-12-19

[62] 2,876,077

[30] US (61/658,765) 2012-06-12

[30] US (61/799,840) 2013-03-15

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,078,099**
[13] A1

[51] **Int.Cl. A61M 5/315 (2006.01) A61F 9/007 (2006.01) A61M 5/31 (2006.01)**
[25] EN
[54] **INTRAOCULAR GAS INJECTOR**
[54] **INJECTEUR DE GAZ INTRA-OCULAIRE**
[72] AULD, JACK R., US
[72] HUCULAK, JOHN C., US
[72] MCCOLLAM, CHRISTOPHER L., US
[71] ALCON INC., CH
[22] 2013-06-12
[41] 2013-12-19
[62] 2,876,077
[30] US (61/658,765) 2012-06-12
[30] US (61/799,840) 2013-03-15

[21] **3,078,117**
[13] A1

[25] EN
[54] **COVERT SURVEILLANCE USING MULTI-MODALITY SENSING**
[54]
[72] BENDAHAN, JOSEPH, US
[72] MORTON, EDWARD JAMES, US
[71] RAPISCAN SYSTEMS, INC., US
[22] 2012-06-14
[41] 2012-12-20
[62] 2,863,363
[30] US (62/497,024) 2011-06-14

[21] **3,078,121**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ANTI-PD1 ANTIBODIES AND THEIR USE AS THERAPEUTICS AND DIAGNOSTICS**
[54]
[72] SONG, JING, CN
[72] LI, KANG, CN
[72] ZHANG, TONG, CN
[72] XU, LANLAN, CN
[72] LIU, QI, CN
[72] PENG, HAO, CN
[71] BEIGENE SWITZERLAND GMBH, CH
[22] 2013-09-13
[41] 2015-03-19
[62] 2,924,172

[21] **3,078,128**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR RECOVERING BITUMEN FROM SUBTERRANEAN FORMATIONS**
[54] **SYSTEMES ET METHODES DE RECUPERATION DU BITUME A PARTIR DE FORMATIONS SOUTERRAINES**
[72] HADI, MARC, US
[71] MUST HOLDING LLC, US
[22] 2017-06-29
[41] 2017-12-30
[62] 2,972,059
[30] US (15/199,974) 2016-06-30

[21] **3,078,130**
[13] A1

[51] **Int.Cl. H04N 21/2343 (2011.01) H04N 19/114 (2014.01) H04N 19/115 (2014.01) H04N 19/154 (2014.01) H04N 19/159 (2014.01)**
[25] EN
[54] **INFORMATION STREAM MANAGEMENT**
[54] **GESTION DE FLUX D'INFORMATION**
[72] SYED, YASSER F., US
[72] EGENHOGGER, PAUL DAVID, US
[72] KERCHER, SHAWN ANDREW, US
[72] DISCHNER, DONALD DEAN, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2013-12-17
[41] 2014-06-27
[62] 2,837,406
[30] US (13/728,400) 2012-12-27

[21] **3,078,178**
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01) A61K 47/64 (2017.01) A61K 38/17 (2006.01) A61P 9/00 (2006.01) A61P 9/10 (2006.01) C07K 7/08 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **INHIBITORS OF APOPTOSIS AND USES THEREOF**
[54] **INHIBITEURS DE L'APOPTOSE ET LEURS UTILISATIONS**
[72] BARRERE, STEPHANIE, FR
[72] NARGEOT, JOEL, FR
[72] LEBLEU, BERNARD, FR
[72] BOISGUERIN, PRISCA, FR
[72] PIOT, CHRISTOPHE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - CNRS, FR
[71] UNIVERSITE DE MONTPELLIER, FR
[22] 2011-11-17
[41] 2012-05-22
[62] 2,816,827
[30] IB (PCT/IB2010/003158) 2010-11-18

[21] **3,078,213**
[13] A1

[51] **Int.Cl. B65D 21/032 (2006.01) B31B 50/26 (2017.01) B65D 5/10 (2006.01) B65D 5/44 (2006.01) B65D 5/54 (2006.01)**
[25] EN
[54] **BLANK ASSEMBLY FOR FORMING A REINFORCED, STACKABLE TRAY CONTAINER**
[54] **ENSEMBLE EBAUCHE POUR FORMER UN CONTENEUR A PLATEAUX RENFORCE ET EMPILABLE**
[72] WILLMAN, JAMES JOHN, US
[72] MINSKY, CRAIG FREDERICK, US
[71] ROCK-TENN SHARED SERVICES, LLC, US
[22] 2012-09-06
[41] 2013-03-28
[62] 2,848,606
[30] US (13/243,404) 2011-09-23

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,078,215**
[13] A1

[51] **Int.Cl. C40B 40/08 (2006.01) C12Q 1/6809 (2018.01) C12Q 1/6869 (2018.01) C12Q 1/6876 (2018.01) G16B 30/00 (2019.01) C12N 5/10 (2006.01) C12N 15/10 (2006.01) C12N 15/13 (2006.01) C12Q 1/68 (2018.01) C40B 40/02 (2006.01) C40B 50/06 (2006.01) C40B 70/00 (2006.01)**

[25] EN

[54] **IDENTIFICATION OF POLYNUCLEOTIDES ASSOCIATED WITH A SAMPLE**

[54] **IDENTIFICATION DES POLYNUCLEOTIDES ASSOCIES A UN ECHANTILLON**

[72] ROBINSON, WILLIAM H., US

[72] TAN, YANN CHONG, US

[72] SOKOLOVE, JEREMY, US

[71] DEPARTMENT OF VETERANS AFFAIRS, US

[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US

[22] 2012-04-27

[41] 2012-11-01

[62] 2,833,917

[30] US (61/517,976) 2011-04-28

[30] US (61/575,652) 2011-08-24

[30] US (61/599,870) 2012-02-16

[30] US (61/608,571) 2012-03-08

[21] **3,078,225**
[13] A1

[25] EN

[54] **INFORMATION SYSTEM FOR INDUSTRIAL VEHICLES**

[54] **SYSTEME D'INFORMATION POUR VEHICULES INDUSTRIELS**

[72] HARSHBARGER, AARON H., US

[72] TINNERMAN, DAVID K., US

[72] WELLMAN, TIMOTHY A., US

[72] WHITFORD, JEFFREY C., US

[72] WINNER, DEAN E., US

[71] CROWN EQUIPMENT CORPORATION, US

[22] 2010-03-31

[41] 2010-10-07

[62] 2,939,588

[30] US (61/166,494) 2009-04-03

[30] US (61/233,394) 2009-08-12

[30] US (61/238,916) 2009-09-01

[30] US (61/263,452) 2009-11-23

[21] **3,078,259**
[13] A1

[51] **Int.Cl. A61K 47/26 (2006.01) A61K 9/08 (2006.01) A61K 9/19 (2006.01) C07K 14/47 (2006.01) C07K 14/535 (2006.01) C07K 14/755 (2006.01) C07K 16/00 (2006.01) C12N 9/64 (2006.01) C12N 9/96 (2006.01)**

[25] EN

[54] **MELEZITOSE FOR STABILIZING HUMAN BLOOD PLASMA PROTEINS**

[54] **MELEZITOSE DESTINEE A STABILISER LES PROTEINES DE PLASMA DE SANG HUMAIN**

[72] IVARSSON, ELSA, SE

[72] KNUTSSON, JOSEFIN, SE

[72] RIPPNER, BRITA, SE

[72] NILSSON, ULRIKA, SE

[72] AGERKVIST, IRENE, SE

[71] OCTAPHARMA AG, CH

[22] 2011-04-20

[41] 2011-10-27

[62] 2,796,729

[30] EP (10160470.0) 2010-04-20

[30] US (61/325,975) 2010-04-20

[21] **3,078,348**
[13] A1

[51] **Int.Cl. A61M 5/145 (2006.01) A61M 5/142 (2006.01) A61M 5/168 (2006.01)**

[25] EN

[54] **INFUSION PUMPS**

[54] **POMPES A PERFUSION**

[72] SMITH, ROGER E., US

[72] CAUSEY, JAMES, US

[72] GIBSON, SCOTT R., US

[72] HE, TOM XIAOHAI, US

[72] FOGARTY, THOMAS G., US

[72] RING, LAWRENCE SCOTT, US

[72] LOFTIN, SCOTT M., US

[71] MEDTRONIC MINIMED, INC., US

[22] 2011-09-23

[41] 2012-03-29

[62] 2,987,866

[30] US (12/890,300) 2010-09-24

[30] US (12/890,320) 2010-09-24

[30] US (12/890,207) 2010-09-24

[30] US (12/890,166) 2010-09-24

[30] US (12/890,277) 2010-09-24

[30] US (12/890,135) 2010-09-24

[30] US (12/890,258) 2010-09-24

[30] US (12/890,229) 2010-09-24

[30] US (12/890,339) 2010-09-24

[21] **3,078,356**
[13] A1

[51] **Int.Cl. B82B 3/00 (2006.01) B82Y 15/00 (2011.01) B82Y 40/00 (2011.01)**

[25] EN

[54] **BOOTSTRAPPING AND SYNTHESIS OF MECHANOSYNTHESIS TIPS**

[54] EN

[72] FREITAS, ROBERT A., JR., US

[72] MERKLE, RALPH C., US

[71] CBN NANO TECHNOLOGIES INC., CA

[22] 2013-02-28

[41] 2014-08-28

[62] 2,851,906

[21] **3,078,377**
[13] A1

[51] **Int.Cl. H04W 4/50 (2018.01) H04W 4/06 (2009.01) H04W 80/12 (2009.01) H04W 76/14 (2018.01)**

[25] EN

[54] **BROADCASTING SIGNAL TRANSMITTING APPARATUS, BROADCASTING SIGNAL RECEIVING APPARATUS, BROADCASTING SIGNAL TRANSMITTING METHOD, AND BROADCASTING SIGNAL RECEIVING METHOD**

[54] **DISPOSITIF DE TRANSMISSION DE SIGNAL DE DIFFUSION, DISPOSITIF DE RECEPTION DE SIGNAL DE DIFFUSION, PROCEDE DE TRANSMISSION DE SIGNAL DE DIFFUSION, ET PROCEDE DE RECEPTION DE SIGNAL DE DIFFUSION**

[72] YANG, SEUNGRYUL, KR

[72] MOON, KYOUNGSOO, KR

[72] KO, WOOSUK, KR

[72] HONG, SUNGRYONG, KR

[71] LG ELECTRONICS INC., KR

[22] 2016-05-25

[41] 2016-12-01

[62] 2,986,763

[30] US (62/166,156) 2015-05-26

[30] US (62/167,286) 2015-05-28

[30] US (62/169,556) 2015-06-02

[30] US (62/170,145) 2015-06-03

[30] US (62/180,065) 2015-06-16

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,078,447**

[13] A1

[51] **Int.Cl. A45D 42/10 (2006.01) A45D
42/12 (2006.01) A47G 1/02 (2006.01)
F21V 3/00 (2015.01) F21V 33/00
(2006.01)**

[25] EN

[54] **VANITY MIRROR**

[54] **MIROIR DE MEUBLE-COIFFEUSE**

[72] YANG, FRANK, US

[72] WOLBERT, DAVID, US

[72] SANDOR, JOSEPH, US

[72] CARDENAS, ORLANDO, US

[72] BUSHROE, FREDERICK N., US

[71] SIMPLEHUMAN, LLC, US

[22] 2013-02-27

[41] 2013-09-08

[62] 2,807,615

[30] US (61/608,584) 2012-03-08

[21] **3,078,502**

[13] A1

[51] **Int.Cl. A47J 31/06 (2006.01) A47J
31/24 (2006.01) B65D 81/34 (2006.01)
B65D 85/804 (2006.01)**

[25] EN

[54] **CAPSULES, APPARATUS AND
METHODS FOR PREPARING A
BEVERAGE**

[54] **CAPSULES, APPAREIL ET
PROCEDES POUR PREPARER
UNE BOISSON**

[72] AUSTIN, PETER, GB

[72] FLETCHER, PAUL, GB

[72] KNOWLES, DAVID, GB

[72] HYDE, SAM, GB

[71] LAVAZZA PROFESSIONAL NORTH
AMERICA, LLC, US

[22] 2012-06-22

[41] 2012-12-27

[62] 2,840,141

[30] GB (1110848.7) 2011-06-24

[30] GB (1118571.7) 2011-10-27

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ARGENX BVBA	2,728,076	EVANS, TIMOTHY JAMES	2,816,347	KORDAL, JAN A.	2,808,837
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HANAFIALAMDARI, HAMED	3,061,119	KURZ II, THOMAS D.	3,060,945	MGO SYSTEMS LTD.	3,060,992
HANSEN, DARRIN M.	3,059,452	KYUSHU INSTITUTE OF TECHNOLOGY	3,058,625	MICHAUD, DENNIS	3,061,394
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HARGRAVE, BENJAMIN P.	3,059,452	LAMBERT, MICHAEL	3,060,973	MIHART, NICOLAE	3,023,299
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		LAYTON, SCOTT	3,060,875	MORRIS, BEN	3,056,995
		LE, THANH CHAU	3,053,716	MORRIS, EMILY	3,060,948
		LE, TUAN	3,061,042	MORRIS, KEVIN	3,061,109
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CHOO, FENG-XUAN	3,078,075	MACIAG, DAN	3,078,077	THE BOARD OF TRUSTEES OF THE LELAND STANFORD	
CMECH (GUANGZHOU) LTD.	3,078,076	MALONE, AMBER P.	3,076,966	JUNIOR UNIVERSITY	3,078,215
CMECH (GUANGZHOU) LTD.	3,078,078	MCCOLLAM, CHRISTOPHER L.	3,078,098	TINNERMAN, DAVID K.	3,078,225
CMECH (GUANGZHOU) LTD.	3,078,080	MCCOLLAM, CHRISTOPHER L.	3,078,099	TOMALIA, DON	3,078,077
COMCAST CABLE		MCGUIRE, MATTHEW P.	3,076,966	TROMBLEY, JOE	3,078,077
COMMUNICATIONS, LLC	3,078,130	MEDTRONIC MINIMED, INC.	3,078,348	UNIVERSITE DE	
CRNICH-DEWOLF, TRAVIS	3,078,075	MERKLE, RALPH C.	3,078,356	MONTPELLIER	3,078,178
CROWN EQUIPMENT CORPORATION	3,078,225	MINSKY, CRAIG FREDERICK	3,078,213	UPPERCO, JACOB L.	3,076,327
DEPARTMENT OF VETERANS AFFAIRS	3,078,215	MOON, KYOUNGSOO	3,078,377	WEIGHTMAN, RUSSELL	3,078,081
DISCHNER, DONALD DEAN	3,078,130	MORTON, EDWARD JAMES	3,078,087	WELLMAN, TIMOTHY A.	3,078,225
EGENHOGGER, PAUL DAVID	3,078,130	MORTON, EDWARD JAMES	3,078,117	WENGER, URS	3,076,966
ELIASMITH, CHRISTOPHER DAVID	3,078,075	MUST HOLDING LLC	3,078,128	WHITFORD, JEFFREY C.	3,078,225
ERBEY, JOHN R., II	3,076,327	NARGEOT, JOEL	3,078,178	WILLMAN, JAMES JOHN	3,078,213
FELICITO, KATHRYN L.	3,078,097	NILSSON, ULRIKA	3,078,259	WINNER, DEAN E.	3,078,225
FISHER, MICHAEL ALLEN	3,076,327	OCTAPHARMA AG	3,078,259	WOLBERT, DAVID	3,078,447
FLETCHER, PAUL	3,078,502	OSENTOSKI, JASON	3,078,077	XU, LANLAN	3,078,121
FOGARTY, THOMAS G.	3,078,348	PARENT, JOSEPH T.	3,078,081	YANG, FRANK	3,078,447
FREITAS, ROBERT A., JR.	3,078,356	PENG, HAO	3,078,121	YANG, SEUNGRYUL	3,078,377
GERBER, ANDREW	3,076,387	PIOT, CHRISTOPHE	3,078,178	ZHANG, TONG	3,078,121
		POLARIS INDUSTRIES INC.	3,076,966		
		QIU, JIA SEN	3,078,076		
		QIU, JIA SEN	3,078,078		