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CIPO OPIC

THE CANADIAN PATENT OFFICE RECORD
LA GAZETTE DU BUREAU DES BREVETS

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

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

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Notices

1. Dates and Code Numerals Appearing in Patent Headings

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

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

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

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

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

Avis

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

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

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

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

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

2. Country Code

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

2. Code des pays

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

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

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

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

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

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

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

4. Orders for Patents by Class or Sub-Class

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

4. Commande de brevets par classe ou sous-classe

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

5. Advice on Making a Patent Application

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

5. Conseils relatifs à la préparation de demandes de brevets

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

6. Licensing of Patents

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

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

6. Octroi de licences en vertu des brevets

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

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

7. Patents Available for Licence or Sale

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

7. Brevets disponibles pour licence ou vente

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

8. List of Patents Available for Licence or Sale

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

None

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

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

Aucun

9. Applications Open to Public Inspection

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

9. Demandes mises à la disponibilité du public

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

10. Language of Published Documents

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

10. Langue du document publié

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

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

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

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

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

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

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

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

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

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

4. Late payment fee

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

Preliminary Examination

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

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

* International fees will be reduced by:

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

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

4. Taxe pour paiement tardif

50% du montant impayé, ou,
Minimum : taxe de transmission
Maximum : 50% de la taxe de dépôt international

Examen préliminaire

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

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

* Les frais seront réduits de:

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

12. PCT Notices

Patent Cooperation Treaty (PCT)

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

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

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

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

12. Avis PCT

Traité de Coopération en matière de brevets (PCT)

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

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

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

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

13. Practice Notice

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

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

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

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

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

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

13. Énoncé de pratique

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

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

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

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

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

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

Offices.

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

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

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

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

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

14. Correspondence Procedures

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

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

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

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

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

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14. Procédures de correspondance

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

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

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

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

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

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

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

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

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

1. Physical Delivery of Correspondence and Written Communications to CIPO

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

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

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

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

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

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

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

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

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

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

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

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

Le formulaire de paiements des frais devrait toujours être

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

Download the Fee Payment Form.

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

Téléchargez le formulaire de paiement des frais.

1.1 Designated Establishments

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

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

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

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

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

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

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

1.1 Établissements désignés

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

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

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

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

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

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

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

except statutory holiday

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

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

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

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

l'exception des jours fériés

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2. Electronic Correspondence

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

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

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

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

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

2. Correspondance électronique

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

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

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

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

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

open for business.

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

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

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

2.1 Facsimile

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

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

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

(819) 934-3833

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

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

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

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

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

2.1 Correspondance par télécopieur

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

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

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

(819) 934-3833

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

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

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

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

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

Patents

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

Brevets

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

2.2 Online

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

2.2 En ligne

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

Patents

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

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

Brevets

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

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

Canada as Receiving Office Under the PCT: PCT-SAFE

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

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

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

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

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

Trademarks

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

Marques de commerce

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

accessing the following pages:

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

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

Opposition proceedings before the Trademarks Opposition Board

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

Section 45 proceedings before the Trademarks Opposition Board

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

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

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

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

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

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

Industrial Designs

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

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

Dessins industriels

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

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

Integrated Circuit Topographies

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

- general correspondence relating to integrated circuit topographies.

Topographies de circuits intégrés

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

- correspondance générale relative aux topographies de circuits intégrés.

2.3 Electronic medium

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

2.3 Supports électroniques

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

Brevets

Patents

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Electronic Media accepted by the Patent Office

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

Trademarks and Industrial Design

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

Supports électroniques acceptés par le Bureau des brevets

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

Marques de commerce et dessins industriels

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

3. Details Concerning the Electronic Formats Accepted

Patents

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

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

When applicable, the Patent Office will accept files in the

3. Précisions concernant les formats électroniques acceptés

Brevets

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

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

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

TIFF Format:

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

PDF Format:

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

ASCII

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

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

Format TIFF

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

Format PDF

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

ASCII

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

Trademarks

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

Industrial Design

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

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

Marques de commerce

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

Dessins industriels

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

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

4. General Information

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

4. Renseignements généraux

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

5. Time Period Extensions

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

5. Prorogation des délais

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Time period extensions under the Copyright and Integrated Circuit Topography Acts

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

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

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

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

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

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

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

Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Time period extensions under the Madrid Protocol and the Hague Agreement

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

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

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

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

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

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

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

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

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

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

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

Patents, Industrial Design, Copyright and Integrated Circuit Topography

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

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

Trademarks

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

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

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

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

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

Marques de commerce

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

8. Intellectual property acts, rules and regulations

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

8. Lois, règles et règlements sur la propriété intellectuelle

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

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

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

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of January 18, 2022 contains applications open to public inspection from January 2, 2022 to January 8, 2022.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 18 janvier 2022 contient les demandes disponibles au public pour consultation pour la période du 2 janvier 2022 au 8 janvier 2022.

Canadian Patents Issued

January 18, 2022

Brevets canadiens délivrés

18 janvier 2022

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[11] **2,690,909**
[13] C
[51] **Int.Cl. C12Q 1/686 (2018.01)**
[25] EN
[54] **PERIPHERICAL TISSUE SAMPLE CONTAINING CELLS EXPRESSING THE 5HTR2C AND/OR ADARS AS MARKERS OF THE ALTERATION OF THE MECHANISM OF THE 5HTR2C MRNA EDITING AND ITS APPLICATIONS**
[54] **ECHANTILLON DE TISSU PERIPHERIQUE CONTENANT DES CELLULES EXPRIMANT 5HTR2C ET/OU LES ADAR, UTILISEES COMME MARQUEURS DE L'ALTERATION DU MECANISME D'EDITION DE L'ARNM 5HTR2C, ET SES APPLICATIONS**
[72] WEISSMANN, DINAH, FR
[72] PUJOL, JEAN-FRANCOIS, FR
[72] VINCENT, LAURENT, FR
[72] CAVAREC, LAURENT, FR
[72] MANN, JOHN, US
[73] ALCEDIAG, FR
[85] 2009-12-08
[86] 2008-06-13 (PCT/EP2008/057519)
[87] (WO2008/152146)
[30] US (60/943,685) 2007-06-13
[30] US (61/023,239) 2008-01-24

---

[11] **2,734,999**
[13] C
[51] **Int.Cl. G06F 16/957 (2019.01)**
[25] EN
[54] **NEW TAB PAGES AND BOOKMARK TOOLBARS IN A BROWSER**
[54] **NOUVELLES PAGES A ONGLETS ET BARRES D'OUTILS DE SIGNETS DANS UN NAVIGATEUR**
[72] GOODGER, BEN, US
[72] MURPHY, GLEN, US
[72] RAKOWSKI, BRIAN, US
[73] GOOGLE LLC, US
[85] 2011-02-22
[86] 2009-09-01 (PCT/US2009/055616)
[87] (WO2010/025474)
[30] US (61/093,441) 2008-09-01

---

[11] **2,823,378**
[13] C
[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/12 (2006.01)**
[25] EN
[54] **BLOCKSTENT DEVICE AND METHODS OF USE**
[54] **DISPOSITIF D'ENDOPROTHESE EN BLOC ET METHODES D'UTILISATION**
[72] FRANANO, F. NICHOLAS, US
[72] STEPHENSON, KATHERINE, US
[73] ARTIO MEDICAL, INC., US
[85] 2013-06-27
[86] 2012-01-17 (PCT/US2012/000030)
[87] (WO2012/099704)
[30] US (61/433,305) 2011-01-17

---

[11] **2,825,236**
[13] C
[51] **Int.Cl. C12Q 1/02 (2006.01) G01N 33/48 (2006.01) G01N 33/53 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **LEUKOCYTE ACTIVATION AND METHODS OF USE THEREOF**
[54] **ACTIVATION DE LEUCOCYTES ET LEURS PROCEDES D'UTILISATION**
[72] GOMEZ-LOPEZ, NARDHY, CA
[72] OLSON, DAVID, CA
[73] THE GOVERNORS OF THE UNIVERSITY OF ALBERTA, CA
[85] 2013-07-19
[86] 2012-01-23 (PCT/CA2012/000068)
[87] (WO2012/097451)
[30] US (61/435,018) 2011-01-21

---

[11] **2,840,642**
[13] C
[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/15 (2006.01) A61B 5/151 (2006.01) A61B 5/157 (2006.01)**
[25] EN
[54] **ANALYTE SENSOR DEVICES, CONNECTIONS, AND METHODS**
[54] **DISPOSITIFS DETECTEURS D'ANALYTES, CONNEXIONS, ET PROCEDES**
[72] PACE, LOUIS, US
[72] ROBINSON, PETER G., US
[72] HOSS, UDO, US
[72] CURRY, SAMUEL MASON, US
[72] CARTER, PHILLIP WILLIAM, US
[72] MHATRE, AMIT, US
[72] OLSON, JENNIFER, US
[72] DONNAY, MANUEL LUIS MIGUEL, US
[72] TAUB, MARC BARRY, US
[72] DIP-ALMA, VINCENT MICHAEL, US
[73] ABBOTT DIABETES CARE INC., US
[85] 2013-12-27
[86] 2012-12-11 (PCT/US2012/068839)
[87] (WO2013/090215)
[30] US (61/569,287) 2011-12-11

[11] **2,846,621**
[13] C
[51] **Int.Cl. F24D 19/10 (2006.01) F24F 11/30 (2018.01) F24D 3/18 (2006.01) F24D 5/12 (2006.01) F24D 15/04 (2006.01)**
[25] EN
[54] **SPACE CONDITIONING CONTROL AND MONITORING METHOD AND SYSTEM**
[54] **SYSTEME ET PROCEDE DE SURVEILLANCE ET COMMANDE DE CONDITIONNEMENT D'ESPACE**
[72] BROWN, ROBERT R., US
[72] HARTMAN, NICHOLAS, US
[72] LINDSEY, AARON, US
[72] TAYLOR, MICHAEL, US
[72] CHICHESTER, CALEB, US
[72] HENDERSON, BRUCE, US
[72] MANN, CHRIS, US
[72] YANG, GEORGE, US
[72] HAMMOND, TIMOTHY, US
[72] KOLTER, MATTHEW, US
[72] MOON, TROY, US
[73] WATERFURNACE INTERNATIONAL, INC., US
[86] (2846621)
[87] (2846621)
[22] 2014-03-14
[30] US (61/794,722) 2013-03-15

---

[11] **2,849,613**
[13] C
[51] **Int.Cl. H04W 88/02 (2009.01) G06Q 10/10 (2012.01)**
[25] EN
[54] **DEVICE, SYSTEM AND METHOD FOR UTILISING DISPLAY OBJECTS**
[54] **DISPOSITIF, SYSTEME ET PROCEDE POUR UTILISATION D'OBJETS D'AFFICHAGE**
[72] LEWIN, HANS MATHIAS, SE
[72] ADEMAR, LEIF FREDRIK, SE
[72] DENT, TERILL MARK, CA
[72] BROWN, MICHAEL STEPHEN, CA
[73] BLACKBERRY LIMITED, CA
[86] (2849613)
[87] (2849613)
[22] 2014-04-23
[30] EP (13165237.2) 2013-04-24

---

[11] **2,850,204**
[13] C
[51] **Int.Cl. C12N 5/073 (2010.01) C12N 5/071 (2010.01) C12Q 1/02 (2006.01)**
[25] EN
[54] **METHOD FOR CELL DIFFERENTIATION**
[54] **METHODE DE DIFFERENCIATION DE CELLULES**
[72] CZYSZ, KATARZYNA ANNA, GB
[73] GLOBAL LIFE SCIENCES SOLUTIONS OPERATIONS UK LTD, GB
[86] (2850204)
[87] (2850204)
[22] 2014-04-28
[30] US (14/225,740) 2014-03-26

---

[11] **2,855,838**
[13] C
[51] **Int.Cl. G06Q 50/10 (2012.01) G06Q 50/30 (2012.01)**
[25] EN
[54] **ENABLING SERVICE FEATURES WITHIN PRODUCTIVITY APPLICATIONS**
[54] **ACTIVATION DE CARACTERISTIQUES DE SERVICE A L'INTERIEUR D'APPLICATIONS DE PRODUCTIVITE**
[72] HWANG, JENNIFER HUI-NI, US
[72] ECKSTEIN, MATTHEW, US
[72] WILLIAMS, SAM FRANKLIN, III, US
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2014-05-13
[86] 2012-11-16 (PCT/US2012/065703)
[87] (WO2013/075046)
[30] US (13/297,287) 2011-11-16

---

[11] **2,857,767**
[13] C
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 1/04 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/12 (2006.01) C08B 30/00 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12N 15/87 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **VARIETY CORN LINE HBA2544**
[54] **LIGNEE DE MAIS DE VARIETE HBA2544**
[72] GOODWIN, WILLIAM H., US
[73] SYNGENTA PARTICIPATIONS AG, CH
[86] (2857767)
[87] (2857767)
[22] 2014-07-24
[30] US (13/952,019) 2013-07-26

---

[11] **2,858,611**
[13] C
[51] **Int.Cl. H02J 3/38 (2006.01) G01R 25/00 (2006.01) H02J 13/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SWING ANGLE ESTIMATION IN AN ELECTRICAL POWER S YSTEM**
[54] **SYSTEMES ET PROCEDES POUR ESTIMATION D'ANGLE D'OSCILLATION DANS UN RESEAU ELECTRIQUE**
[72] PAN, YAN, US
[72] PREMERLANI, WILLIAM JAMES, US
[73] GENERAL ELECTRIC COMPANY, US
[86] (2858611)
[87] (2858611)
[22] 2014-08-07
[30] US (13/968,684) 2013-08-16

[11] **2,858,636**
[13] C
[51] **Int.Cl. A23L 29/20 (2016.01) A23L 29/206 (2016.01) A23L 29/231 (2016.01) A23L 29/238 (2016.01) A23L 29/25 (2016.01) A23L 29/262 (2016.01) A23L 33/00 (2016.01) A23L 33/10 (2016.01) A23L 33/115 (2016.01) A23L 33/135 (2016.01) A23L 33/17 (2016.01) A23L 33/21 (2016.01) A23P 10/00 (2016.01)**
[25] EN
[54] **COHESIVE THIN LIQUIDS TO PROMOTE SAFE SWALLOWING IN DYSPHAGIC PATIENTS**
[54] **LIQUIDES FLUIDES COHESIFS FAVORISANT LA BONNE DEGLUTITION CHEZ LES PATIENTS ATTEINTS DE DYSPHAGIE**
[72] BURBIDGE, ADAM, CH
[72] ENGMANN, JAN, CH
[72] POPA NITA, SIMINA, CH
[73] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2014-06-09
[86] 2012-12-17 (PCT/EP2012/075697)
[87] (WO2013/087918)
[30] US (61/570,888) 2011-12-15
[30] EP (11193799.1) 2011-12-15

[11] **2,859,956**
[13] C
[51] **Int.Cl. G08G 1/04 (2006.01) E01F 11/00 (2006.01) G01M 17/02 (2006.01) G08G 1/017 (2006.01) G08G 1/052 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AUTOMATED VEHICLE TYRE DETECTION AND REGISTRATION**
[54] **SYSTEME ET PROCEDE POUR L'ENREGISTREMENT AUTOMATIQUE DE L'UTILISATION DE PNEUS CLOUTES**
[72] KLEVEN, OLE BJORN, NO
[72] KLEVEN, FREDRIK NEROL, NO
[73] ARES DETECTION AS, NO
[85] 2014-06-19
[86] 2013-01-23 (PCT/NO2013/050017)
[87] (WO2013/112057)
[30] NO (20120069) 2012-01-23

[11] **2,863,869**
[13] C
[51] **Int.Cl. E04F 21/165 (2006.01) E04F 21/00 (2006.01)**
[25] EN
[54] **A TOOL FOR FINISHING AN OUTSIDE CORNER**
[54] **OUTIL DE FINITION D'ANGLE SAILLANT**
[72] MCKAY, ROBERT, CA
[73] MCKAY, ROBERT, CA
[86] (2863869)
[87] (2863869)
[22] 2014-09-15
[30] US (61/877,880) 2013-09-13

[11] **2,866,030**
[13] C
[51] **Int.Cl. E21C 27/30 (2006.01) E02F 3/30 (2006.01) E02F 3/407 (2006.01) E02F 3/58 (2006.01)**
[25] EN
[54] **DIPPER DOOR AND DIPPER DOOR TRIP ASSEMBLY**
[54] **PORTE DE GODET DE PELLE EN BUTTE ET ENSEMBLE DE DECLENCHEMENT D'UNE TELLE PORTE**
[72] GROSS, MATTHEW L., US
[72] COLWELL, JOSEPH J., US
[72] NICOSON, RICHARD, US
[73] JOY GLOBAL SURFACE MINING INC, US
[86] (2866030)
[87] (2866030)
[22] 2014-09-26
[30] US (61/883,982) 2013-09-27
[30] US (61/968,030) 2014-03-20

[11] **2,868,271**
[13] C
[51] **Int.Cl. B01J 32/00 (2006.01) C04B 35/64 (2006.01) C07D 301/03 (2006.01)**
[25] EN
[54] **ALUMINA CARRIER, METHOD OF PREPARING THE SAME, AND SILVER CATALYST**
[54] **SUPPORT ALUMINE, PROCEDE DE PREPARATION DE CELUI-CI ET CATALYSEUR A L'ARGENT**
[72] LI, XIANFENG, CN
[72] LI, JINBING, CN
[72] SUN, XINXIN, CN
[72] CHEN, JIANSHE, CN
[72] CAO, SHUYUAN, CN
[72] GAO, LIXIN, CN
[72] WANG, HUI, CN
[72] LIANG, RUJUN, CN
[72] XUE, QIAN, CN
[72] ZHANG, ZHIXIANG, CN
[73] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[73] BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[86] (2868271)
[87] (2868271)
[22] 2014-10-24
[30] CN (CN 201310523152.5) 2013-10-29

[11] **2,868,915**
[13] C
[51] **Int.Cl. F24F 9/00 (2006.01) F24F 3/163 (2021.01) A61G 13/10 (2006.01) F24F 13/06 (2006.01)**
[25] EN
[54] **CLEAN AIR APPARATUS**
[54] **DISPOSITIF D'AIR PROPRE**
[72] BROMLEY, GRAHAM, GB
[73] HOWORTH AIR TECHNOLOGY LIMITED, GB
[85] 2014-09-29
[86] 2013-03-20 (PCT/GB2013/050724)
[87] (WO2013/144582)
[30] GB (1205557.0) 2012-03-29

[11] **2,870,353**
[13] C
[51] **Int.Cl. A61K 31/416 (2006.01) A61P 27/02 (2006.01) C12Q 1/00 (2006.01) G01N 33/15 (2006.01) C40B 30/06 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING AND DIAGNOSING OCULAR DISORDERS**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT SERVANT A TRAITER ET DIAGNOSTIQUER DES TROUBLES OCULAIRES**
[72] BOYD, SHELLEY ROMAYNE, CA
[73] TRANSLATUM MEDICUS INC., CA
[86] (2870353)
[87] (2870353)
[22] 2014-11-06

---

[11] **2,874,526**
[13] C
[51] **Int.Cl. B01J 8/00 (2006.01) B01J 8/04 (2006.01) B01J 8/08 (2006.01) C07C 2/84 (2006.01)**
[25] EN
[54] **OXIDATIVE COUPLING OF METHANE SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE COUPLAGE OXYDANT DU METHANE**
[72] SCHAMMEL, WAYNE P., US
[72] WOLFENBARGER, JULIAN, US
[72] AJINKYA, MILIND, US
[72] MCCARTY, JON, US
[72] CIZERON, JOEL M., US
[72] WEINBERGER, SAM, US
[72] EDWARDS, JUSTIN DWIGHT, US
[72] SHERIDAN, DAVE, US
[72] SCHER, ERIK C., US
[72] MCCORMICK, JAROD, US
[73] LUMMUS TECHNOLOGY LLC, US
[85] 2014-11-21
[86] 2013-05-23 (PCT/US2013/042480)
[87] (WO2013/177433)
[30] US (61/651,485) 2012-05-24
[30] US (61/791,312) 2013-03-15

---

[11] **2,875,987**
[13] C
[51] **Int.Cl. G06Q 10/10 (2012.01) H04L 12/16 (2006.01) H04L 51/04 (2022.01) H04L 51/046 (2022.01)**
[25] EN
[54] **SYSTEMS, METHODS AND INTERFACES FOR USING A MESSAGING PROGRAM ACROSS A MULTIPLE APPLICATIONS AND COMMUNICATIONS ENVIRONMENT**
[54] **SYSTEMES, PROCEDES ET INTERFACES POUR UTILISER UN PROGRAMME DE MESSAGERIE A TRAVERS UN ENVIRONNEMENT A MULTIPLES APPLICATIONS ET COMMUNICATIONS**
[72] POST, SCOTT, US
[72] JARVIS, JAMES, US
[73] THOMSON REUTERS ENTERPRISE CENTRE GMBH, CH
[85] 2014-08-08
[86] 2014-01-16 (PCT/US2014/011826)
[87] (WO2014/116493)
[30] US (13/749,004) 2013-01-24

---

[11] **2,876,431**
[13] C
[51] **Int.Cl. A61B 5/02 (2006.01) A61B 5/318 (2021.01) A61B 5/024 (2006.01) A61B 5/029 (2006.01) A61B 5/053 (2021.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR MONITORING HEMODYNAMICS**
[54] **PROCEDE ET SYSTEME DE SURVEILLANCE D'HEMODYNAMIE**
[72] LEVY, BARUCH, IL
[72] MARCOVITCH, SHMUEL, IL
[72] SHUSMAN, ELIEZER, IL
[72] ROTENBERG, DAVID, IL
[72] AVIDOR, DAN (DECEASED), IL
[72] AVIDOR, YOAV, IL
[73] BAXTER HEALTHCARE SA, CH
[73] BAXTER INTERNATIONAL INC., US
[85] 2014-12-11
[86] 2012-07-25 (PCT/IL2012/050271)
[87] (WO2013/014671)
[30] US (61/511, 163) 2011-07-25

---

[11] **2,877,153**
[13] C
[51] **Int.Cl. F01D 9/02 (2006.01) F01D 7/00 (2006.01)**
[25] EN
[54] **VARIABLE VANE ACTUATING SYSTEM**
[54] **SYSTEME D'ACTIONNEMENT D'AUBE A INCIDENCE VARIABLE**
[72] MARSHALL, ANDREW R., CA
[72] DUROCHER, GILLES, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2877153)
[87] (2877153)
[22] 2015-01-07
[30] US (14/161,786) 2014-01-23

---

[11] **2,879,147**
[13] C
[51] **Int.Cl. E21B 19/00 (2006.01) E21B 41/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR STRIPPING SOLIDS AND FLUIDS FROM A STRING USED IN DRILLING OR SERVICING WELLS**
[54] **APPAREIL ET PROCEDE D'ELIMINATION DE SOLIDES ET DE FLUIDES D'UN TRAIN DE TIGES UTILISE POUR FORER OU ENTRETENIR DES PUITS**
[72] HOLTBY, QUINN A. J., CA
[72] GREENWOOD, DALLAS, CA
[73] KATCH KAN HOLDINGS LTD., CA
[86] (2879147)
[87] (2879147)
[22] 2015-01-21
[30] US (61/931,794) 2014-01-27

[11] **2,880,328**
[13] C
[51] **Int.Cl. H01F 7/16 (2006.01) F04B 17/04 (2006.01) F04B 53/02 (2006.01) F04B 53/14 (2006.01) F04B 53/16 (2006.01)**
[25] EN
[54] **LINEAR OSCILLATION SYSTEM HAVING A SUSPENSION SYSTEM AND A METHOD FOR ASSEMBLING THE SAME**
[54] **SYSTEME D'OSCILLATION LINEAIRE COMPORTANT UN SYSTEME DE SUSPENSION ET SON PROCEDE D'ASSEMBLAGE**
[72] KATHAYANATT, SAVIO SEBASTIAN, IN
[72] DEY, SUBHRAJIT, IN
[72] TAMMA, BHASKAR, IN
[72] BHAKTA, ADITYA, IN
[72] DHAR, SANDEEP, IN
[72] MANTRI, PARAG, IN
[73] HAIER US APPLIANCE SOLUTIONS, INC., US
[86] (2880328)
[87] (2880328)
[22] 2015-01-29
[30] IN (632/CHE/2014) 2014-02-11

[11] **2,882,237**
[13] C
[51] **Int.Cl. F02C 9/18 (2006.01) F01D 17/10 (2006.01) F02C 7/057 (2006.01) F16K 1/12 (2006.01) F16K 1/20 (2006.01) F16K 15/03 (2006.01)**
[25] EN
[54] **FLAPPER VALVE ASSEMBLY AND METHOD OF FLOWING AIR THERETHROUGH**
[54] **DISPOSITIF DE CLAPET A BATTANT ET METHODE PERMETTANT D'Y FAIRE TRAVERSER L'AIR**
[72] LEBLANC, ANDRE, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2882237)
[87] (2882237)
[22] 2015-02-17
[30] US (14/192,979) 2014-02-28

[11] **2,882,801**
[13] C
[51] **Int.Cl. C40B 40/10 (2006.01) C07K 1/04 (2006.01) C40B 30/04 (2006.01) C40B 40/04 (2006.01) C40B 40/06 (2006.01) C40B 50/14 (2006.01) G01N 33/543 (2006.01) G01N 33/564 (2006.01)**
[25] EN
[54] **IMMUNOSIGNATURING: A PATH TO EARLY DIAGNOSIS AND HEALTH MONITORING**
[54] **IMMUNO-SIGNATURE : UNE VOIE VERS LE DIAGNOSTIC PRECOCE ET LA SURVEILLANCE DE LA SANTE**
[72] JOHNSTON, STEPHEN ALBERT, US
[72] STAFFORD, PHILLIP, US
[72] WOODBURY, NEAL, US
[73] ARIZONA BOARD OF REGENTS, A BODY CORPORATE OF THE STATE OF ARIZONA, ACTING FOR AND ON BEHALF OF ARIZONA STATE UNIVERSITY, US
[85] 2015-02-19
[86] 2013-08-29 (PCT/US2013/057373)
[87] (WO2014/036312)
[30] US (61/694,598) 2012-08-29

[11] **2,883,790**
[13] C
[51] **Int.Cl. B24D 11/00 (2006.01)**
[25] EN
[54] **FLEXIBLE GRINDING PRODUCT WITH FLATTENED SURFACE AND METHOD FOR MANUFACTURING THE SAME**
[54] **PRODUIT ABRASIF FLEXIBLE AYANT UNE SURFACE APLATIE, ET SON PROCEDE DE FABRICATION**
[72] HOGLUND, GORAN, FI
[72] HEDE, HANS, FI
[72] SCHUMACHER, NICOLAS, FI
[72] SUNDELL, MATS, FI
[72] GRON, JAN, FI
[73] MIRKA OY, FI
[85] 2015-02-27
[86] 2012-09-05 (PCT/EP2012/067294)
[87] (WO2014/037034)

[11] **2,884,073**
[13] C
[51] **Int.Cl. C12N 7/04 (2006.01) C07K 14/085 (2006.01) C07K 16/10 (2006.01) C12N 7/01 (2006.01) C12N 15/41 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **PICORNAVIRUS-LIKE PARTICLE PRODUCTION IN PLANTS**
[54] **PRODUCTION DE PARTICULES DE TYPE PICORNAVIRUS DANS DES PLANTES**
[72] D'AOUST, MARC-ANDRE, CA
[72] LAVOIE, PIERRE-OLIVIER, CA
[72] COUTURE, MANON, CA
[72] POULIN, LUCIE, CA
[72] VEZINA, LOUIS-PHILIPPE, CA
[73] MEDICAGO INC., CA
[85] 2015-03-04
[86] 2013-08-29 (PCT/CA2013/050666)
[87] (WO2014/036645)
[30] US (61/697,266) 2012-09-05

[11] **2,884,368**
[13] C
[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/00 (2006.01) G01N 33/48 (2006.01) A61K 39/395 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS FOR DIAGNOSING AND TREATING INFLAMMATORY BOWEL DISEASE**
[54] **METHODES DE DIAGNOSTIC ET DE TRAITEMENT DE MALADIE INTESTINALE INFLAMMATOIRE**
[72] KEIR, MARY, US
[72] TEW, GAIK WEI, US
[73] GENENTECH, INC., US
[85] 2015-03-09
[86] 2013-10-04 (PCT/US2013/063384)
[87] (WO2014/055824)
[30] US (61/710,656) 2012-10-05
[30] US (61/860,422) 2013-07-31

[11] **2,886,740**
[13] C
[51] **Int.Cl. B64C 25/10 (2006.01) B64C 25/58 (2006.01)**
[25] EN
[54] **BOGIE BEAM ARTICULATION MECHANISM**
[54] **MECANISME D'ARTICULATION DE BALANCIER DE BOGIE**
[72] HOLLOWAY, GARY, CA
[73] GOODRICH CORPORATION, US
[86] (2886740)
[87] (2886740)
[22] 2015-03-31
[30] US (14/258,884) 2014-04-22

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[11] **2,887,395**
[13] C
[51] **Int.Cl. A01D 33/14 (2006.01)**
[25] EN
[54] **AGRICULTURAL VEHICLE WITH AUTOMATED REPOSITIONING SYSTEM**
[54] **VEHICULE AGRICOLE DOTE D'UN SYSTEME DE REPOSITIONNEMENT AUTOMATISE**
[72] ROTOLE, DAVID V., US
[73] DEERE & COMPANY, US
[86] (2887395)
[87] (2887395)
[22] 2015-04-08
[30] US (14/667,793) 2015-03-25

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[11] **2,890,499**
[13] C
[51] **Int.Cl. F16K 47/00 (2006.01) F16K 1/46 (2006.01) F16K 1/54 (2006.01) G05D 16/02 (2006.01)**
[25] EN
[54] **VALVE DEVICE AND FLUID COUPLING COMPRISED THEREOF**
[54] **DISPOSITIF DE SOUPAPE ET ACCOUPLEMENT HYDRAULIQUE COMPOSE DE CELUI-CI**
[72] LIVELY, MATTHEW CHARLES, US
[72] MAY, LAMAR EDWARD, US
[72] GRAFF, KENNETH MARCELL, US
[73] DRESSER, INC., US
[85] 2015-05-07
[86] 2013-11-08 (PCT/US2013/069216)
[87] (WO2014/074864)
[30] US (13/674,251) 2012-11-12

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[11] **2,891,812**
[13] C
[51] **Int.Cl. F28F 1/40 (2006.01) F24D 5/02 (2006.01) F24H 3/08 (2006.01)**
[25] EN
[54] **HVAC SYSTEMS AND METHODS WITH HEAT EXCHANGERS HAVING TURBULATORS**
[54] **SYSTEMES ET PROCEDES DE CHAUFFAGE, DE VENTILATION ET DE CLIMATISATION (CVC) AVEC ECHANGEURS THERMIQUES MUNIS DE TURBULATEURS**
[72] MULEY, KIRANKUMAR, IN
[72] SAHU, KAPIL, IN
[72] KOWALD, GLENN W., US
[72] SWORNALATHA, AJAY C.P., IN
[72] BURMANIA, IAN, US
[72] WHITESITT, JOHN, US
[72] ZIMMER, DONALD, US
[73] LENNOX INDUSTRIES INC., US
[86] (2891812)
[87] (2891812)
[22] 2015-05-15
[30] US (14/315,251) 2014-06-25

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[11] **2,895,465**
[13] C
[51] **Int.Cl. C04B 35/05 (2006.01) C04B 35/109 (2006.01)**
[25] FR
[54] **ALUMINA-MAGNESIA PRODUCT FOR GASIFIER OR FOR METALLURGICAL FURNACE**
[54] **PRODUIT ALUMINE-MAGNESIE POUR GAZEIFICATEUR OU POUR FOUR METALLURGIQUE**
[72] JORGE, ERIC, FR
[72] FRANCY, OLIVIER, FR
[73] SAINT-GOBAIN CENTRE DE RECHERCHES ET D'ETUDES EUROPEEN, FR
[85] 2015-06-17
[86] 2013-12-19 (PCT/IB2013/061155)
[87] (WO2014/097219)
[30] FR (12 62349) 2012-12-19

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[11] **2,899,967**
[13] C
[51] **Int.Cl. C07D 403/12 (2006.01) C07D 213/74 (2006.01) C07D 213/75 (2006.01) C07D 233/88 (2006.01) C07D 237/20 (2006.01) C07D 239/42 (2006.01) C07D 241/20 (2006.01) C07D 401/04 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/04 (2006.01) C07D 405/04 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 413/14 (2006.01)**
[25] EN
[54] **BIARYL AMIDE COMPOUNDS AS KINASE INHIBITORS**
[54] **COMPOSES BIARYLE AMIDES EN TANT QU'INHIBITEURS DE KINASE**
[72] AVERSA, ROBERT, US
[72] BARSANTI, PAUL A., US
[72] BURGER, MATTHEW, US
[72] DILLON, MICHAEL PATRICK, US
[72] DIPESA, ALAN, US
[72] HU, CHENG, US
[72] LOU, YAN, US
[72] NISHIGUCHI, GISELE, US
[72] PAN, YUE, US
[72] POLYAKOV, VALERY, US
[72] RAMURTHY, SAVITHRI, US
[72] RICO, ALICE, US
[72] SETTI, LINA, US
[72] SMITH, AARON, US
[72] SUBRAMANIAN, SHARADHA, US
[72] TAFT, BENJAMIN, US
[72] TANNER, HUW, US
[72] WAN, LIFENG, US
[72] YUSUFF, NAEEM, US
[73] NOVARTIS AG, CH
[85] 2015-07-30
[86] 2014-03-13 (PCT/US2014/026107)
[87] (WO2014/151616)
[30] US (61/783,558) 2013-03-14

[11] **2,900,741**
[13] C
[51] **Int.Cl. C12Q 1/02 (2006.01) C12N 5/073 (2010.01) A61B 17/425 (2006.01) A61B 17/43 (2006.01) C12Q 1/04 (2006.01) G01N 33/48 (2006.01) G01N 35/00 (2006.01)**
[25] EN
[54] **ABNORMAL SYNGAMY PHENOTYPES OBSERVED WITH TIME LAPSE IMAGING FOR EARLY IDENTIFICATION OF EMBRYOS WITH LOWER DEVELOPMENTAL POTENTIAL**
[54] **PHENOTYPES ANORMAUX RESULTANT D'UNE SYNGAMIE, OBSERVES PAR IMAGERIE IMAGE PAR IMAGE ET PERMETTANT L'IDENTIFICATION PRECOCE D'EMBRYONS PRESENTANT UN FAIBLE POTENTIEL DE DEVELOPPEME NT**
[72] SHEN, SHEHUA, US
[72] CHEN KIM, ALICE A., US
[72] WIRKA, KELLY ATHAYDE, US
[72] SURAJ, VAISHALI, US
[72] TAN, LEI, US
[73] PROGYNY, INC., US
[85] 2015-07-23
[86] 2014-02-03 (PCT/US2014/014449)
[87] (WO2014/121200)
[30] US (61/759,598) 2013-02-01
[30] US (61/783,958) 2013-03-14

[11] **2,901,248**
[13] C
[51] **Int.Cl. G01N 27/12 (2006.01) G01D 11/24 (2006.01)**
[25] EN
[54] **SENSOR ASSEMBLY**
[54] **ENSEMBLE CAPTEUR**
[72] LANDIS, JEFFREY LYNN, US
[73] TELEDYNE DETCON, INC., US
[85] 2015-08-12
[86] 2014-03-12 (PCT/US2014/024004)
[87] (WO2014/159524)
[30] US (61/781,333) 2013-03-14

[11] **2,901,269**
[13] C
[51] **Int.Cl. C07D 403/12 (2006.01) A61K 31/495 (2006.01) A61K 31/505 (2006.01)**
[25] EN
[54] **QUINAZOLINE INHIBITORS OF ACTIVATING MUTANT FORMS OF EPIDERMAL GROWTH FACTOR RECEPTOR**
[54] **INHIBITEURS QUINAZOLINE DE L'ACTIVATION DES FORMES MUTANTES DU RECEPTEUR DE CROISSANCE EPIDERMIQUE (EGFR)**
[72] LI, DAVID YUNZHI, CN
[72] WANG, JIABING, CN
[72] YANG, ZHENFAN, CN
[72] ZENG, QINGBEI, CN
[72] ZHANG, XIAOLIN, CN
[73] ASTRAZENECA AB, SE
[85] 2015-08-13
[86] 2014-03-05 (PCT/GB2014/050655)
[87] (WO2014/135876)
[30] CN (PCT/CN2013/072250) 2013-03-06

[11] **2,905,830**
[13] C
[51] **Int.Cl. A61K 31/444 (2006.01) A61K 31/4375 (2006.01) A61K 31/472 (2006.01) A61K 31/4725 (2006.01) A61K 31/496 (2006.01) A61K 31/497 (2006.01) A61K 31/4985 (2006.01) A61K 31/501 (2006.01) A61K 31/5377 (2006.01) A61K 31/541 (2006.01) A61P 35/00 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **QUINAZOLINE AND NAPHTHYRIDINE DERIVATIVES USEFUL IN THE TREATMENT OF CANCER**
[54] **DERIVES DE QUINAZOLINE ET DE NAPHTYRIDINE UTILES DANS LE TRAITEMENT DU CANCER**
[72] AN, SONGZHU, US
[73] CUREGENIX INC., CN
[85] 2015-09-11
[86] 2014-03-12 (PCT/US2014/024885)
[87] (WO2014/165232)
[30] US (61/777,427) 2013-03-12

[11] **2,906,592**
[13] C
[51] **Int.Cl. C12N 5/10 (2006.01) C12N 5/0775 (2010.01) A61K 35/28 (2015.01) A61P 31/00 (2006.01) A61P 33/00 (2006.01) C07K 16/08 (2006.01) C07K 16/12 (2006.01) C07K 16/18 (2006.01) C12N 15/13 (2006.01) C12N 15/19 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **IMMUNOPROTECTIVE PRIMARY MESENCHYMAL STEM CELLS AND METHODS**
[54] **CELLULES SOUCHES MESENCHYMATEUSES PRIMAIRES IMMUNOPROTECTRICES ET PROCEDES ASSOCIES**
[72] GARRY, ROBERT F., US
[72] BRANCO, LUIS M., US
[72] BUNNELL, BRUCE A., US
[72] WILSON, RUSSELL B., US
[72] HOPKINS, SAMUEL E., US
[73] THE ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND, US
[73] AUTOIMMUNE TECHNOLOGIES, LLC, US
[85] 2015-09-14
[86] 2014-03-13 (PCT/US2014/025941)
[87] (WO2014/160157)
[30] US (13/826,285) 2013-03-14

[11] **2,906,817**
[13] C
[51] **Int.Cl. C07D 241/08 (2006.01) A61K 9/00 (2006.01) A61K 38/22 (2006.01) A61P 3/10 (2006.01)**
[25] EN
[54] **MICROCRYSTALLINE DIKETOPIPERAZINE COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS DE DICETOPIPERAZINE MICROCRISTALLINES ET PROCEDES**
[72] WILSON, BRYAN R., US
[72] GUARNERI, JOSEPH J., US
[72] GRANT, MARSHALL L., US
[73] MANNKIND CORPORATION, US
[85] 2015-09-14
[86] 2014-03-14 (PCT/US2014/029491)
[87] (WO2014/144895)
[30] US (61/800,520) 2013-03-15

[11] **2,907,444**
[13] C
[51] **Int.Cl. F25J 1/02 (2006.01) F25J 1/00 (2006.01)**
[25] EN
[54] **MIXED REFRIGERANT SYSTEM AND METHOD**
[54] **PROCEDE ET SYSTEME REFRIGERANT MIXTE**
[72] DUCOTE, DOUGLAS A., JR., US
[72] GUSHANAS, TIMOTHY P., US
[73] CHART ENERGY & CHEMICALS, INC., US
[85] 2015-09-15
[86] 2014-03-18 (PCT/US2014/031135)
[87] (WO2014/146138)
[30] US (61/802,350) 2013-03-15

[11] **2,909,559**
[13] C
[51] **Int.Cl. C02F 3/12 (2006.01) B03D 1/14 (2006.01) C02F 1/24 (2006.01) C02F 3/00 (2006.01)**
[25] EN
[54] **ENHANCED BIOSORPTION OF WASTEWATER ORGANICS USING DISSOLVED AIR FLOTATION WITH SOLIDS RECYCLE**
[54] **BIOSORPTION AMELIOREE DES MATIERES ORGANIQUES DES EAUX USEES AU MOYEN D'AEROFLOTTATION DISSOUTE COMPORTANT UN RECYCLE DE SOLIDES**
[72] DOYLE, MICHAEL L., US
[72] ERDOGAN, ARGUN O., US
[73] EVOQUA WATER TECHNOLOGIES LLC, US
[85] 2015-10-14
[86] 2014-05-01 (PCT/US2014/036301)
[87] (WO2014/182533)
[30] US (61/819,822) 2013-05-06

[11] **2,910,274**
[13] C
[51] **Int.Cl. C07D 307/68 (2006.01) C07C 59/225 (2006.01) C07D 307/08 (2006.01) C07D 307/36 (2006.01) C12P 7/10 (2006.01) C12P 19/02 (2006.01) C13K 13/00 (2006.01)**
[25] EN
[54] **CO-SOLVENT TO PRODUCE REACTIVE INTERMEDIATES FROM BIOMASS**
[54] **UTILISATION D'UN CO-SOLVANT POUR PRODUIRE DES INTERMEDIAIRES REACTIFS A PARTIR DE BIOMASSE**
[72] CAI, CHARLES M., US
[72] WYMAN, CHARLES E., US
[72] ZHANG, TAIYING, US
[72] KUMAR, RAJEEV, US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2015-10-23
[86] 2014-04-25 (PCT/US2014/035506)
[87] (WO2014/176531)
[30] US (61/816,713) 2013-04-27

[11] **2,913,142**
[13] C
[51] **Int.Cl. H03M 7/30 (2006.01) H04L 12/16 (2006.01)**
[25] EN
[54] **EFFICIENT DATA COMPRESSION AND ANALYSIS AS A SERVICE**
[54] **COMPRESSION ET ANALYSE EFFICACES DE DONNEES A LA DEMANDE**
[72] GUPTA, ANURAG WINDLASS, US
[73] AMAZON TECHNOLOGIES, INC., US
[85] 2015-11-20
[86] 2014-05-22 (PCT/US2014/039209)
[87] (WO2014/190190)
[30] US (13/900,350) 2013-05-22

[11] **2,913,392**
[13] C
[51] **Int.Cl. E04F 15/02 (2006.01) E04C 2/40 (2006.01) E04F 15/04 (2006.01)**
[25] EN
[54] **BUILDING PANEL WITH A MECHANICAL LOCKING SYSTEM**
[54] **PANNEAU DE CONSTRUCTION DOTE D'UN SYSTEME DE VERROUILLAGE MECANIQUE**
[72] BOO, CHRISTIAN, SE
[73] VALINGE INNOVATION AB, SE
[85] 2015-11-24
[86] 2014-06-26 (PCT/SE2014/050792)
[87] (WO2014/209213)
[30] SE (1350783-5) 2013-06-27
[30] SE (1351323-9) 2013-11-08

[11] **2,913,872**
[13] C
[51] **Int.Cl. C12N 9/22 (2006.01)**
[25] EN
[54] **A LAGLIDADG HOMING ENDONUCLEASE CLEAVING THE T-CELL RECEPTOR ALPHA GENE AND USES THEREOF**
[54] **ENDONUCLEASE DE HOMING DE LA FAMILLE LAGLIDADG CLIVANT LE GENE ALPHA DU RECEPTEUR AUX LYMPHOCYTES T, ET UTILISATIONS ASSOCIEES**
[72] ASTRAKHAN, ALEXANDER, US
[72] JARJOUR, JORDAN, US
[73] CELLECTIS, FR
[73] PRECISION GENOME ENGINEERING, INC., US
[85] 2015-11-27
[86] 2014-05-28 (PCT/EP2014/061189)
[87] (WO2014/191527)
[30] DK (PA 2013 70303) 2013-05-31

[11] **2,915,013**
[13] C
[51] **Int.Cl. B41M 5/323 (2006.01) B41M 5/333 (2006.01) B41M 5/337 (2006.01)**
[25] EN
[54] **THERMAL RECORDING MATERIALS**
[54] **MATERIAUX D'ENREGISTREMENT THERMIQUES**
[72] CHAKAR, FADI SELIM, US
[72] WARNER, JOHN CHARLES, US
[72] WHITFIELD, JUSTIN ROBERT, US
[72] LUGUS, MICHELLE WANCH LI, US
[72] BANERJEE, DEBOSHRI, US
[73] APPVION OPERATIONS, INC., US
[85] 2015-12-09
[86] 2014-12-02 (PCT/US2014/068003)
[87] (WO2015/094630)
[30] US (14/132,984) 2013-12-18

[11] **2,916,954**
[13] C
[51] **Int.Cl. H04L 9/06 (2006.01) H04L 9/08 (2006.01)**
[25] EN
[54] **VIRTUAL SERVICE PROVIDER ZONES**
[54] **ZONES DE FOURNISSEURS DE SERVICES VIRTUELS**
[72] ROTH, GREGORY BRANCHEK, US
[72] BRANDWINE, ERIC JASON, US
[72] WREN, MATTHEW JAMES, US
[73] AMAZON TECHNOLOGIES, INC., US
[85] 2015-12-23
[86] 2014-06-30 (PCT/US2014/044861)
[87] (WO2015/002875)
[30] US (13/932,824) 2013-07-01
[30] US (13/932,872) 2013-07-01

[11] **2,917,800**
[13] C
[51] **Int.Cl. H03M 13/19 (2006.01) H03M 13/27 (2006.01)**
[25] EN
[54] **DATA PROCESSING DEVICE AND DATA PROCESSING METHOD**
[54] **DISPOSITIF ET PROCEDE DE TRAITEMENT DE DONNEES**
[72] IKEGAYA, RYOJI, JP
[72] YAMAMOTO, MAKIKO, JP
[72] SHINOHARA, YUJI, JP
[73] SONY CORPORATION, JP
[85] 2016-01-08
[86] 2015-05-08 (PCT/JP2015/063248)
[87] (WO2015/178210)
[30] JP (2014-104804) 2014-05-21

[11] **2,918,353**
[13] C
[51] **Int.Cl. B01J 19/26 (2006.01) B01J 4/00 (2006.01) H01M 8/04 (2016.01) H01M 8/06 (2016.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR MIXING REFORMABLE FUELS AND AN OXYGEN-CONTAINING GAS AND/OR STEAM**
[54] **APPAREIL ET PROCEDES POUR MELANGER DES COMBUSTIBLES REFORMABLES ET UN GAZ ET/OU DE LA VAPEUR CONTENANT DE L'OXYGENE**
[72] FINNERTY, CAINE, US
[72] DEWALD, PAUL, US
[73] WATT FUEL CELL CORP., US
[85] 2016-01-14
[86] 2014-07-18 (PCT/US2014/047258)
[87] (WO2015/010062)
[30] US (61/847,833) 2013-07-18

[11] **2,922,891**
[13] C
[51] **Int.Cl. B01D 53/62 (2006.01) B01D 53/047 (2006.01)**
[25] EN
[54] **HYBRID MEMBRANE AND ADSORPTION-BASED SYSTEM AND PROCESS FOR RECOVERING CO2 FROM FLUE GAS AND USING COMBUSTION AIR FOR ADSORBENT REGENERATION**
[54] **SYSTEME DE MEMBRANE HYBRIDE FONDE SUR L'ADSORPTION ET PROCEDE DE RECUPERATION DE CO2 DES GAZ D'ECHAPPEMENT ET UTILISATION DE L'AIR DE COMBUSTION POUR LA REGENERATION D'ADSORBANT**
[72] KULKARNI, SUDHIR S., US
[73] L'AIR LIQUIDE - SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEEDES GEORGES CLAUDE, FR
[86] (2922891)
[87] (2922891)
[22] 2016-03-03
[30] US (14/638,631) 2015-03-04

[11] **2,924,183**
[13] C
[51] **Int.Cl. B29B 11/12 (2006.01) B29B 11/08 (2006.01)**
[25] EN
[54] **PREFORM FOR PLASTIC CONTAINER WITH THIN BOTTOM**
[54] **EBAUCHE POUR RECIPIENT EN PLASTIQUE AVEC FOND MINCE**
[72] GAIOTTI, DAVID, IT
[72] SIGLER, LAURENT, FR
[72] ZANETTE, DINO ENRICO, IT
[72] ZOPPAS, MATTEO, IT
[73] S.I.P.A. SOCIETA' INDUSTRIALIZZAZIONE PROGETTAZIONE E AUTOMAZIONE S.P.A., IT
[85] 2016-03-11
[86] 2014-09-15 (PCT/EP2014/069632)
[87] (WO2015/036596)
[30] IT (RM2013A000510) 2013-09-13

[11] **2,924,503**
[13] C
[51] **Int.Cl. G06K 7/14 (2006.01) G06K 19/06 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DECODING AND USING DATA ON CARDS**
[54] **SYSTEMES ET PROCEDES DESTINES A DECODER ET A UTILISER DES DONNEES SUR DES CARTES**
[72] SWEENEY, MICHAEL F., US
[72] STOPYRA, THOMAS J., US
[72] GOODEN, KENNETH F., US
[73] INTEGRATED SOLUTIONS INTERNATIONAL, LLC, US
[85] 2016-03-16
[86] 2014-09-16 (PCT/US2014/055916)
[87] (WO2015/042060)
[30] US (61/878,823) 2013-09-17

[11] **2,925,694**
[13] C
[51] **Int.Cl. E05B 19/00 (2006.01) E05B 29/00 (2006.01) E05B 29/10 (2006.01) E05B 47/00 (2006.01) E05B 49/00 (2006.01)**
[25] EN
[54] **KEY AND LOCK**
[54] **CLE ET VERROU**
[72] OJEDA GONZALEZ-POSADA, ALEJANDRO, CH
[72] REINERT, FELIX MICHAEL, CH
[73] URBANALPS AG, CH
[85] 2016-03-30
[86] 2014-10-08 (PCT/CH2014/000146)
[87] (WO2015/051475)
[30] CH (1740/13) 2013-10-11
[30] CH (631/14) 2014-04-25

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[11] **2,926,557**
[13] C
[51] **Int.Cl. D03D 15/283 (2021.01) D03D 15/292 (2021.01) D03D 15/47 (2021.01) D03D 15/50 (2021.01)**
[25] EN
[54] **ABRASION RESISTANT FABRIC**
[54] **TISSU RESISTANT A L'ABRASION**
[72] HENSSEN, GIOVANNI JOSEPH IDA, NL
[72] BAGORDO, GUELFO VALERIO, NL
[72] BERTO, FLAVIO, NL
[73] DSM IP ASSETS B.V., NL
[85] 2016-04-06
[86] 2014-11-04 (PCT/EP2014/073699)
[87] (WO2015/071133)
[30] EP (13192506.7) 2013-11-12

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[11] **2,927,232**
[13] C
[51] **Int.Cl. H02H 1/00 (2006.01) H01H 71/00 (2006.01)**
[25] EN
[54] **REMOTE DIAGNOSTIC SYSTEM AND METHOD FOR CIRCUIT PROTECTION DEVICES SUCH AS MINIATURE CIRCUIT BREAKERS**
[54] **SYSTEME DE DIAGNOSTIC A DISTANCE ET PROCEDE POUR DES DISPOSITIFS DE PROTECTION DE CIRCUIT TELS QUE DES DISJONCTEURS MINIATURES**
[72] PARKER, KEVIN LYNN, US
[72] ELDRIDGE, DAVID AUSTIN, US
[72] STUART, CHRISTOPHER, US
[73] EATON INTELLIGENT POWER LIMITED, IE
[85] 2016-04-12
[86] 2014-11-12 (PCT/US2014/065127)
[87] (WO2015/094518)
[30] US (14/109,467) 2013-12-17

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[11] **2,927,741**
[13] C
[51] **Int.Cl. A23G 9/34 (2006.01) A23L 27/30 (2016.01) A23L 33/125 (2016.01) A23G 9/04 (2006.01) A23L 2/60 (2006.01)**
[25] EN
[54] **D-PSICOSE IN ZERO OR LOW CALORIE FROZEN BEVERAGES**
[54] **D-PSICOSE DANS DES BOISSONS GLACEES PEU OU PAS CALORIFIQUES**
[72] LEE, THOMAS, US
[72] YEP, GREGORY, US
[73] PEPSICO, INC., US
[85] 2016-04-15
[86] 2014-10-06 (PCT/US2014/059326)
[87] (WO2015/061028)
[30] US (61/894,102) 2013-10-22

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[11] **2,928,276**
[13] C
[51] **Int.Cl. B65F 1/08 (2006.01) B65F 1/00 (2006.01) B65F 1/06 (2006.01) B65F 1/14 (2006.01)**
[25] EN
[54] **CONTAINER SYSTEM WITH SUPPORTABLE LINER**
[54] **SYSTEME DE RECIPIENT A DOUBLURE A SUPPORT**
[72] BUSCH, CRAIG, CA
[73] BUSCH SYSTEMS INTERNATIONAL INC., CA
[86] (2928276)
[87] (2928276)
[22] 2016-04-27

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[11] **2,928,329**
[13] C
[51] **Int.Cl. A61L 15/18 (2006.01) A61L 15/44 (2006.01) A61L 26/00 (2006.01)**
[25] EN
[54] **HAEMOSTATIC COMPOSITION COMPRISING CRYSTALLINE POLYPHOSPHATE**
[54] **PRODUIT HEMOSTATIQUE CONTENANT UN POLYPHOSPHATE CRISTALLIN**
[72] THAUERN, HENRIKE, DE
[72] STAFFEL, THOMAS, DE
[73] BK GIULINI GMBH, DE
[85] 2016-04-21
[86] 2014-10-30 (PCT/EP2014/073274)
[87] (WO2015/063190)
[30] DE (10 2013 222 223.8) 2013-10-31

---

[11] **2,928,566**
[13] C
[51] **Int.Cl. F17C 7/02 (2006.01) F17C 5/02 (2006.01)**
[25] EN
[54] **LIQUID NATURAL GAS TRANSFER**
[54] **TRANSFERT DE GAZ NATUREL LIQUEFIE**
[72] BJORN, ANDERS, DK
[72] NIELSEN, ANDERS WURTZ, DK
[72] JORGENSEN, ANDERS DAHL, DK
[73] KOSAN CRISPLANT A/S, DK
[85] 2016-04-25
[86] 2014-12-12 (PCT/DK2014/050427)
[87] (WO2015/090327)
[30] DK (PA 2013 70790) 2013-12-19

[11] **2,930,160**
[13] C
[51] **Int.Cl. B01J 21/02 (2006.01) B01J 29/06 (2006.01) C10G 11/05 (2006.01) C10G 25/03 (2006.01)**
[25] EN
[54] **FCC CATALYST COMPOSITIONS CONTAINING BORON OXIDE**
[54] **COMPOSITIONS CATALYTIQUES FCC CONTENANT DE L'OXYDE DE BORE**
[72] MCGUIRE, ROBERT, US
[72] SMITH, GARY M., US
[72] YILMAZ, BILGE, US
[73] BASF CORPORATION, US
[85] 2016-05-09
[86] 2014-12-11 (PCT/US2014/069771)
[87] (WO2015/094908)
[30] US (14/134,614) 2013-12-19

[11] **2,930,240**
[13] C
[51] **Int.Cl. B32B 17/10 (2006.01) G10K 11/168 (2006.01) C03C 27/12 (2006.01)**
[25] FR
[54] **LAMINATED GLASS PANEL INTENDED TO BE USED AS A SCREEN OF A HEAD-UP DISPLAY SYSTEM**
[54] **INTERCALAIRE PLASTIQUE VISCOELASTIQUE POUR UN AMORTISSEMENT VIBRO-ACOUSTIQUE ET VITRAGE COMPRENANT UN TEL INTERCALAIRE**
[72] PAYEN, CORINNE, FR
[72] FOURNIER, DAVID, FR
[73] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2016-05-10
[86] 2014-11-25 (PCT/FR2014/053029)
[87] (WO2015/079160)
[30] FR (1361726) 2013-11-27

[11] **2,930,324**
[13] C
[51] **Int.Cl. C07D 413/14 (2006.01) A61K 31/4439 (2006.01) A61K 31/4545 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07D 405/14 (2006.01)**
[25] EN
[54] **AMINOPYRIDINE DERIVATIVES AS TAM FAMILY KINASE INHIBITORS**
[54] **DERIVES D'AMINOPYRIDINE UTILISES COMME INHIBITEURS DE KINASES DE LA FAMILLE TAM**
[72] ZHANG, ZAIHUI, CA
[73] SIGNALCHEM LIFESCIENCES CORPORATION, CA
[85] 2016-05-10
[86] 2014-11-26 (PCT/US2014/067709)
[87] (WO2015/081257)
[30] US (61/909,828) 2013-11-27
[30] US (61/909,830) 2013-11-27

[11] **2,930,718**
[13] C
[51] **Int.Cl. F16L 9/133 (2006.01) E02B 11/00 (2006.01) F16L 11/118 (2006.01)**
[25] EN
[54] **A CORRUGATED PIPE HAVING SLITS**
[54] **UN TUYAU ONDULE COMPORTANT DES FENTES**
[72] HARDING, SETH, US
[72] SHAFFER, WILLIAM, US
[72] SAYRE, KRIS, US
[73] ADVANCED DRAINAGE SYSTEMS, INC., US
[85] 2016-05-13
[86] 2014-11-14 (PCT/US2014/065617)
[87] (WO2015/077137)
[30] US (14/084,134) 2013-11-19

[11] **2,930,757**
[13] C
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 29/00 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **TETRAHYDROIMIDAZOPYRIDINE DERIVATIVES AS MODULATORS OF TNF ACTIVITY**
[54] **DERIVES DE TETRAHYDROIMIDAZOPYRIDINE COMME MODULATEURS DE L'ACTIVITE DU TNF**
[72] JACKSON, VICTORIA ELIZABETH, GB
[72] KROEPLIEN, BORIS, GB
[72] LOWE, MARTIN ALEXANDER, GB
[72] PORTER, JOHN ROBERT, GB
[73] UCB BIOPHARMA SRL, BE
[85] 2016-05-16
[86] 2014-12-08 (PCT/EP2014/076872)
[87] (WO2015/086520)
[30] GB (1321748.4) 2013-12-09

[11] **2,930,916**
[13] C
[51] **Int.Cl. A47C 1/032 (2006.01)**
[25] EN
[54] **CHAIR WITH ADJUSTABLE BACKREST**
[54] **SIEGE A DOSSIER REGLABLE**
[72] DONATI, ARMANDO, IT
[73] DONATI S.P.A., IT
[85] 2016-05-17
[86] 2014-12-11 (PCT/EP2014/077362)
[87] (WO2015/091199)
[30] EP (13197786.0) 2013-12-17

[11] **2,931,541**
[13] C
[51] **Int.Cl. B32B 27/32 (2006.01) C08J 5/18 (2006.01) G09F 3/10 (2006.01)**
[25] EN
[54] **FOIL FOR LABELS AND COVERING SHEETS**
[54] **FILM POUR ETIQUETTES ET BANDES DE RECOUVREMENT**
[72] SCHUHMANN, MICHAEL, DE
[72] MAUSER, MATTHIAS, DE
[73] LOPAREX GERMANY GMBH & CO. KG, DE
[85] 2016-05-25
[86] 2014-10-30 (PCT/EP2014/073360)
[87] (WO2015/078654)
[30] DE (10 2013 113 120.4) 2013-11-27

[11] **2,931,553**
[13] C
[51] **Int.Cl. A61K 9/14 (2006.01)**
[25] EN
[54] **PREPARATION OF A POWDERY PHARMACEUTICAL COMPOSITION BY MEANS OF CRYO-MILLING**
[54] **PREPARATION DE COMPOSITION PHARMACEUTIQUE EN POUDRE PAR CRYO-BROYAGE**
[72] GRASSANO, ALESSANDRO, IT
[72] PERACHIOTTI, ANNA, IT
[72] MINELLI, MATTEO, IT
[72] VOLPI, DANIELE, IT
[73] GRUNENTHAL GMBH, DE
[85] 2016-05-25
[86] 2014-11-26 (PCT/EP2014/075618)
[87] (WO2015/078891)
[30] EP (13425151.1) 2013-11-26

---

[11] **2,931,633**
[13] C
[51] **Int.Cl. B01J 29/80 (2006.01)**
[25] EN
[54] **METAL-LOADED ZEOLITE CATALYSTS FOR THE HALOGEN-FREE CONVERSION OF DIMETHYL ETHER TO METHYL ACETATE**
[54] **CATALYSEURS A ZEOLITE CHARGES DE METAL DESTINES A LA CONVERSION SANS HALOGENE D'ETHER DIMETHYLE EN ACETATE DIMETHYLE**
[72] REULE, ALLEN ARTUR CARL, CA
[72] SEMAGINA, NATALIA, CA
[72] CHORNET, ESTEBAN, CA
[73] ENERKEM, INC., CA
[86] (2931633)
[87] (2931633)
[22] 2016-06-01
[30] US (62/174,617) 2015-06-12
[30] US (62/314,624) 2016-03-29

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[11] **2,932,606**
[13] C
[51] **Int.Cl. C23C 24/08 (2006.01) B28B 19/00 (2006.01) F01D 5/28 (2006.01) F01D 11/12 (2006.01)**
[25] EN
[54] **METHOD OF DEPOSITING ABRADABLE COATINGS UNDER POLYMER GELS**
[54] **PROCEDE DE DEPOT DE REVETEMENTS ABRADABLES SOUS DES GELS POLYMERES**
[72] KIRBY, GLEN HAROLD, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2016-06-02
[86] 2014-12-03 (PCT/US2014/068384)
[87] (WO2015/130362)
[30] US (61/915,395) 2013-12-12

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[11] **2,932,612**
[13] C
[51] **Int.Cl. F01D 9/04 (2006.01) F01D 11/08 (2006.01) F01D 11/12 (2006.01)**
[25] EN
[54] **CMC SHROUD SUPPORT SYSTEM**
[54] **SYSTEME DE SUPPORT DE CARENAGE CMC**
[72] SHAPIRO, JASON DAVID, US
[72] DOUGHTY, ROGER LEE, US
[72] FRANKS, MICHAEL JOHN, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2016-06-02
[86] 2014-12-04 (PCT/US2014/068490)
[87] (WO2015/088869)
[30] US (61/915,114) 2013-12-12

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[11] **2,932,620**
[13] C
[51] **Int.Cl. B23K 26/342 (2014.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B29C 64/153 (2017.01) B22F 3/105 (2006.01) B23K 26/34 (2014.01) B29C 65/16 (2006.01) B29C 73/34 (2006.01) C03B 19/01 (2006.01) C04B 35/653 (2006.01) H01S 5/00 (2006.01) G02B 6/42 (2006.01)**
[25] EN
[54] **DIODE LASER FIBER ARRAY FOR POWDER BED FABRICATION OR REPAIR**
[54] **RESEAU DE FIBRES DE DIODE LASER POUR LA FABRICATION OU LA REPARATION DE LIT DE POUDRE**
[72] JONES, MARSHALL GORDON, US
[72] CARTER, WILLIAM THOMAS, US
[72] SEARS, JAMES WILLIAM, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2016-06-02
[86] 2014-12-08 (PCT/US2014/068979)
[87] (WO2015/134075)
[30] US (14/106,970) 2013-12-16

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[11] **2,932,630**
[13] C
[51] **Int.Cl. A01N 57/20 (2006.01) A01N 33/12 (2006.01) A01N 39/04 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **SYNERGISTIC HERBICIDAL WEED CONTROL**
[54] **LUTTE EN SYNERGIE CONTRE LES MAUVAISES HERBES**
[72] MANN, RICHARD K., US
[72] MCMASTER, STEVE, US
[72] NOLTING, STEVEN PAUL, US
[72] PETERSON, MARK, US
[72] SORRIBAS AMELA, MONICA, US
[72] WRIGHT, TERRY R., US
[73] CORTEVA AGRISCIENCE LLC, US
[85] 2016-06-02
[86] 2014-12-11 (PCT/US2014/069660)
[87] (WO2015/094884)
[30] US (61/919,025) 2013-12-20
[30] US (61/918,997) 2013-12-20

[11] **2,933,331**
[13] C
[51] **Int.Cl. C07C 1/24 (2006.01) C07C 11/04 (2006.01)**
[25] EN
[54] **ALKANOL TO ALKYLENE CONVERSION USING AT LEAST TWO DIFFERENT CATALYSTS IN SEQUENTIAL ORDER**
[54] **CONVERSION DE L'ALCANOL EN ALKYLENE EN UTILISANT AU MOINS DEUX CATALYSEURS DIFFERENTS DANS UN ORDRE SEQUENTIEL**
[72] FLICK, DERRICK W., US
[72] STEWART, MARK W., US
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2016-06-09
[86] 2014-11-17 (PCT/US2014/065904)
[87] (WO2015/088707)
[30] US (61/915,799) 2013-12-13

[11] **2,933,539**
[13] C
[51] **Int.Cl. F23R 3/28 (2006.01) F23D 11/38 (2006.01) F23R 3/34 (2006.01)**
[25] EN
[54] **FUEL NOZZLE WITH FLEXIBLE SUPPORT STRUCTURES**
[54] **INJECTEUR DE CARBURANT DOTE DE STRUCTURES DE SUPPORT SOUPLES**
[72] MOOK, JOSHUA TYLER, US
[72] BELLARDI, JASON JOSEPH, US
[72] TU, TING-YU, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2016-06-09
[86] 2014-12-23 (PCT/US2014/072028)
[87] (WO2015/147935)
[30] US (61/920,018) 2013-12-23

[11] **2,933,688**
[13] C
[51] **Int.Cl. C08G 59/17 (2006.01) C08G 59/50 (2006.01) C08G 59/66 (2006.01)**
[25] EN
[54] **PROCESS FOR FORMING AN ORGANIC POLYMER IN A REACTION OF A POLYENE, AN EPOXY RESIN AND A MIXTURE OF THIOL AND AMINE CURING AGENTS**
[54] **PROCEDE DE FORMATION D'UN POLYMERE ORGANIQUE DANS UNE REACTION D'UN POLYENE, D'UNE RESINE EPOXY ET D'UN MELANGE D'AGENTS DE DURCISSEMENT THIOL ET AMINE**
[72] COLSON, ADAM C., US
[72] HEATH, WILLIAM, US
[72] ATHEY, PHILLIP S., US
[72] SHAH, HARSHAD M., US
[72] XU, QIUYUN, US
[72] WILMOT, NATHAN, US
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2016-06-13
[86] 2014-12-11 (PCT/US2014/069710)
[87] (WO2015/094896)
[30] US (61/917,819) 2013-12-18

[11] **2,934,002**
[13] C
[51] **Int.Cl. G01N 31/22 (2006.01) G01N 21/77 (2006.01)**
[25] EN
[54] **KIT AND METHODS FOR DETECTING SULFUR IN GYPSUM**
[54] **TROUSSE ET PROCEDES POUR LA DETECTION DE SOUFRE DANS DU GYPSE**
[72] JANKOWSKI, MICHAEL F., US
[72] WEINBERGER, RENEE J., US
[73] UNITED STATES GYPSUM COMPANY, US
[85] 2016-06-15
[86] 2014-12-17 (PCT/US2014/070849)
[87] (WO2015/095323)
[30] US (61/919,104) 2013-12-20
[30] US (14/518,438) 2014-10-20

[11] **2,935,119**
[13] C
[51] **Int.Cl. F17C 6/00 (2006.01) F17C 9/02 (2006.01) F17C 13/02 (2006.01) F25D 31/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR FILLING THERMALLY INSULATED CONTAINERS WITH LIQUID CARBON DIOXIDE**
[54] **PROCEDE ET SYSTEME PERMETTANT DE REMPLIR DES CONTENANTS ISOLES THERMIQUEMENT AVEC DU DIOXYDE DE CARBONE LIQUIDE**
[72] BRIXY, NATHALIE, FR
[72] KERMAIDIC, JEROME, FR
[73] PRAXAIR TECHNOLOGY, INC., US
[85] 2016-06-27
[86] 2014-12-05 (PCT/EP2014/076766)
[87] (WO2015/082704)
[30] EP (13195836.5) 2013-12-05

[11] **2,935,680**
[13] C
[51] **Int.Cl. B01D 61/02 (2006.01) B01D 63/10 (2006.01) B01D 69/02 (2006.01) B01D 69/12 (2006.01) B01D 71/56 (2006.01)**
[25] EN
[54] **TREATMENT OF AQUEOUS MIXTURES CONTAINING ANIONIC SURFACTANTS USING FOULING RESISTANT REVERSE OSMOSIS MEMBRANE**
[54] **TRAITEMENT DE MELANGES AQUEUX CONTENANT UN TENSIOACTIF ANIONIQUE UTILISANT UNE MEMBRANE D'OSMOSE INVERSE RESISTANT A L'ENCRASSEMENT**
[72] TOMLINSON, IAN A., US
[72] PAUL, MOU, US
[72] PEERY, MARTIN H., US
[72] ROY, ABHISHEK, US
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2016-06-30
[86] 2014-12-15 (PCT/US2014/070285)
[87] (WO2015/105630)
[30] US (61/924245) 2014-01-07

[11] **2,935,901**
[13] C
[51] **Int.Cl. A01N 43/36 (2006.01) A01N 25/10 (2006.01) A01N 25/34 (2006.01) A01N 59/20 (2006.01) A01P 1/00 (2006.01) C09D 5/16 (2006.01)**
[25] EN
[54] **ANTIFOULING COATING COMPOSITION AND ITS USE ON MAN-MADE STRUCTURES**
[54] **COMPOSITION DE REVETEMENT ANTISALISSURE ET SON UTILISATION SUR DES STRUCTURES ARTIFICIELLES**
[72] ANDERSON, COLIN DUDGEON, GB
[72] THOMPSON, SCOTT PAUL, GB
[72] LASASSO, FRANK, US
[72] MOSS, KATE, GB
[73] AKZO NOBEL COATINGS INTERNATIONAL B.V., NL
[85] 2016-07-05
[86] 2015-01-06 (PCT/EP2015/050077)
[87] (WO2015/106984)
[30] US (61/964,869) 2014-01-16
[30] EP (14153265.5) 2014-01-30

[11] **2,939,117**
[13] C
[51] **Int.Cl. G06F 16/63 (2019.01) G10L 17/08 (2013.01) G06F 16/68 (2019.01) G10L 15/10 (2006.01)**
[25] EN
[54] **OPTIMIZATION OF AUDIO FINGERPRINT SEARCH**
[54] **OPTIMISATION DE RECHERCHE D'EMPREINTES AUDIO**
[72] CHELUVARAJA, SRINATH, US
[72] IYER, ANANTH NAGARAJA, US
[72] WYSS, FELIX IMMANUEL, US
[73] INTERACTIVE INTELLIGENCE GROUP, INC., US
[85] 2016-08-08
[86] 2015-03-03 (PCT/US2015/018429)
[87] (WO2015/134452)
[30] US (61/947,834) 2014-03-04

[11] **2,942,307**
[13] C
[51] **Int.Cl. G08C 19/16 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CONVERTING BETWEEN PROTOCOLS**
[54] **PROCEDE ET SYSTEME POUR UNE CONVERSION ENTRE DES PROTOCOLES**
[72] PROPST, EDWARD R., JR., US
[72] DEBLASIO, NICHOLAS ANTHONY, US
[73] TELEDYNE DETCON, INC., US
[85] 2016-09-09
[86] 2014-03-14 (PCT/US2014/027004)
[87] (WO2015/137958)

[11] **2,943,732**
[13] C
[51] **Int.Cl. F02C 7/36 (2006.01) F01D 25/18 (2006.01) F16H 57/04 (2010.01)**
[25] FR
[54] **TRANSMISSION ASSEMBLY INCLUDING A TRANSMISSION MEMBER AND AN OIL DISTRIBUTION SYSTEM**
[54] **ENSEMBLE DE TRANSMISSION COMPRENANT UN ORGANE DE TRANSMISSION ET UN SYSTEME DE DISTRIBUTION D'HUILE**
[72] CURLIER, AUGUSTIN, FR
[72] KRID, YASSINE, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
[85] 2016-09-23
[86] 2015-03-19 (PCT/FR2015/050669)
[87] (WO2015/145029)
[30] FR (1452462) 2014-03-24

[11] **2,943,936**
[13] C
[51] **Int.Cl. B64F 1/10 (2006.01) B64C 99/00 (2010.01) B64C 39/02 (2006.01) B64F 1/04 (2006.01)**
[25] EN
[54] **AERIAL LAUNCH AND/OR RECOVERY FOR UNMANNED AIRCRAFT, AND ASSOCIATED SYSTEMS AND METHODS**
[54] **LANCEMENT ET RECUPERATION AERIENS D'UN AERONEF SANS PILOTE, ET SYSTEMES ET METHODES ASSOCIES**
[72] HAYES, ANDREW, US
[72] GOODRICH, WAYNE, US
[72] MCGREW, JAMES, US
[72] DAVIDSON, DARCY, US
[72] GUTHRIE, CHARLIE, US
[72] KUNZ, PETER, US
[72] RYSDYK, ROLF, US
[72] KNAPP, JEFFREY, US
[72] SCHRICK, BRADLEY, US
[73] INSITU, INC. (A SUBSIDIARY OF THE BOEING COMPANY), US
[86] (2943936)
[87] (2943936)
[22] 2016-09-30
[30] US (62/236824) 2015-10-02
[30] US (62/311773) 2016-03-22
[30] US (15/269597) 2016-09-19

[11] **2,946,158**
[13] C
[51] **Int.Cl. A61K 31/57 (2006.01) A61K 9/22 (2006.01) A61K 31/196 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION WITH ANTI-INFLAMMATORY AGENTS AND PRODUCTION PROCESS**
[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT DES AGENTS ANTI-INFLAMMATOIRES ET PROCEDE DE PRODUCTION**
[72] AMEZCUA AMEZCUA, FEDERICO, MX
[72] COVARRUBIAS PINEDO, AMADOR, MX
[73] LABORATORIO RAAM DE SAHUAYO, S.A. DE C.V., MX
[85] 2016-10-17
[86] 2014-07-24 (PCT/MX2014/000117)
[87] (WO2015/016698)
[30] MX (MX/a/2013/008992) 2013-08-02

[11] **2,947,788**
[13] C
[51] **Int.Cl. C09D 167/06 (2006.01) C08J 7/052 (2020.01) C09D 123/02 (2006.01) C09D 133/06 (2006.01) C09D 151/08 (2006.01)**
[25] EN
[54] **DIRECTLY ATTACHING, HALOGEN-FREE, FAST-DRYING, HEAT-SEALING BINDER FOR SEALING POLYESTER FILMS TO POLYSTYRENE, POLYESTER OR PVC**
[54] **LIANT DE THERMOSOUDAGE A ADHERENCE DIRECTE, A SECHAGE RAPIDE ET SANS HALOGENE POUR LE SCELLEMENT DE FILMS DE POLYESTER A DU POLYSTYRENE, DU POLYESTER OU DU PVC**
[72] HENNIG, ANDRE, DE
[72] ARNOLD, THOMAS, DE
[72] WICKE, MICHAEL, DE
[72] HARTMANN, JURGEN, DE
[72] KELLER, BRUNO, DE
[72] SCHMITT, GUNTER, DE
[72] WALDHAUS, MICHAEL, DE
[73] EVONIK OPERATIONS GMBH, DE
[85] 2016-11-02
[86] 2015-05-07 (PCT/EP2015/060057)
[87] (WO2015/169897)
[30] DE (10 2014 208 608.6) 2014-05-08

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[11] **2,949,494**
[13] C
[51] **Int.Cl. B25H 3/00 (2006.01) B25B 29/00 (2006.01) B25F 3/00 (2006.01) B25F 5/00 (2006.01)**
[25] EN
[54] **DRILL ATTACHMENT STORAGE DEVICE**
[54] **DISPOSITIF DE RANGEMENT D'ACCESSOIRE DE FORAGE**
[72] DA ROSA, MANUEL, CA
[73] DA ROSA, MANUEL, CA
[86] (2949494)
[87] (2949494)
[22] 2016-11-24
[30] US (15/087,528) 2016-03-31

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[11] **2,949,808**
[13] C
[51] **Int.Cl. B61L 27/04 (2006.01)**
[25] EN
[54] **WIRELESS CROSSING ACTIVATION SYSTEM AND METHOD**
[54] **MECANISME D'ACTIVATION DE TRAVERSE SANS FIL ET METHODE**
[72] SCHULTZ, TIMOTHY ALLEN, US
[72] SOLLARS, SCOTT A., US
[72] KERNWEIN, JEFFREY D., US
[73] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
[86] (2949808)
[87] (2949808)
[22] 2016-11-25
[30] US (15/176,537) 2016-06-08

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[11] **2,950,132**
[13] C
[51] **Int.Cl. C08G 63/81 (2006.01) C08G 63/12 (2006.01)**
[25] EN
[54] **WATER-MEDIATED PREPARATIONS OF POLYMERIC MATERIALS**
[54] **PREPARATIONS DE MATERIAUX POLYMERES A MEDIATION PAR L'EAU**
[72] NICHOLSON, CHARLES BRENDAN, US
[72] HARRIS, JEREMY J., US
[72] GABRIELE, PETER D., US
[73] THE SECANT GROUP, LLC, US
[85] 2016-11-23
[86] 2015-05-29 (PCT/US2015/033270)
[87] (WO2015/184313)
[30] US (62/005,299) 2014-05-30
[30] US (62/138,796) 2015-03-26

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[11] **2,952,873**
[13] C
[51] **Int.Cl. E21B 47/12 (2012.01) H04W 84/18 (2009.01) E21B 47/13 (2012.01) H04L 67/12 (2022.01) E21B 44/00 (2006.01) E21B 47/18 (2012.01) G08C 17/02 (2006.01)**
[25] EN
[54] **MIXED-MODE TELEMETRY SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE TELEMETRIE EN MODE MIXTE**
[72] LOGAN, JUSTIN C., CA
[72] KAZEMI MIRAKI, MOJTABA, CA
[72] LOGAN, AARON W., CA
[72] AHMOYE, DANIEL W., CA
[72] DERKACZ, PATRICK R., CA
[72] BUTERNOWSKY, BARRY DANIEL, CA
[73] EVOLUTION ENGINEERING INC., CA
[85] 2016-12-19
[86] 2015-05-08 (PCT/CA2015/050416)
[87] (WO2015/196277)
[30] US (62/015,893) 2014-06-23

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[11] **2,953,835**
[13] C
[51] **Int.Cl. H01M 8/241 (2016.01) H01M 8/0202 (2016.01) H01M 8/0271 (2016.01)**
[25] EN
[54] **FUEL CELL STACK**
[54] **EMPILEMENT DE PILES A COMBUSTIBLE**
[72] ELDER, CHARLES RUSSELL, US
[72] D'ALEO, JAMES, US
[73] PLUG POWER, INC., US
[86] (2953835)
[87] (2953835)
[22] 2017-01-04
[30] US (15/388,547) 2016-12-22

[11] **2,954,947**
[13] C
[51] **Int.Cl. B09B 3/40 (2022.01) B09B 3/50 (2022.01) A61L 2/12 (2006.01) A61L 11/00 (2006.01) F27B 9/06 (2006.01) F27B 9/24 (2006.01) F27D 3/12 (2006.01) H05B 6/78 (2006.01)**
[25] FR
[54] **SYSTEM FOR THE CONTINUOUS TREATMENT OF PRODUCTS BY THERMAL INPUT**
[54] **SYSTEME DE TRAITEMENT EN CONTINU DE PRODUITS PAR APPORT THERMIQUE**
[72] HURLIN, GAUTHIER, FR
[72] CORNEILLIE, SEBASTIEN, BE
[73] AMB, BE
[85] 2017-01-12
[86] 2015-07-16 (PCT/EP2015/066240)
[87] (WO2016/012334)
[30] FR (14 57081) 2014-07-22

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[11] **2,955,316**
[13] C
[51] **Int.Cl. B62B 5/00 (2006.01) B60B 33/00 (2006.01) B62B 3/00 (2006.01)**
[25] EN
[54] **A CASTOR SUPPORTED DOLLY ASSEMBLY CAPABLE OF BEING MADE FROM LIGHTWEIGHT MATERIALS AND SO AS TO BE DISPOSABLE OR SEVERABLE**
[54] **ENSEMBLE CHARIOT SUPPORTE PAR DES ROULETTES POUVANT ETRE CONSTITUE DE MATERIAUX LEGERS ET DE MANIERE A POUVOIR ETRE JETE OU SEPARE**
[72] BUTTAZZONI, LUCA, US
[72] BERNAL, ANDRES, US
[73] DOZOP HOLDINGS LLC, US
[85] 2017-01-16
[86] 2014-07-14 (PCT/US2014/046531)
[87] (WO2015/009622)
[30] US (13/942,206) 2013-07-15

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[11] **2,960,663**
[13] C
[51] **Int.Cl. H02M 1/14 (2006.01) H02M 7/04 (2006.01) G05B 11/42 (2006.01)**
[25] EN
[54] **HIGH-POWER SINGLE-STAGE LED DRIVER WITH BIPOLAR RIPPLE CANCELLATION**
[54] **PILOTE DE DIODE ELECTROLUMINESCENTE A ETAGE UNIQUE A SUPPRESSION D'ONDULATION BIPOLAIRE**
[72] QIU, YAJIE, CA
[72] LIU, YAN-FEI, CA
[73] QUEEN'S UNIVERSITY AT KINGSTON, CA
[85] 2017-03-07
[86] 2015-09-11 (PCT/CA2015/050880)
[87] (WO2016/037287)
[30] US (62/049,418) 2014-09-12

---

[11] **2,962,553**
[13] C
[51] **Int.Cl. G01S 13/89 (2006.01) G01S 15/89 (2006.01)**
[25] EN
[54] **ULTRASONIC INSPECTION OF WRINKLES IN COMPOSITE OBJECTS**
[54] **INSPECTION ULTRASONIQUE DES PLIS DANS LES OBJETS COMPOSITES**
[72] BINGHAM, JILL PAISLEY, US
[73] THE BOEING COMPANY, US
[86] (2962553)
[87] (2962553)
[22] 2017-03-29
[30] US (15/098765) 2016-04-14

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[11] **2,963,171**
[13] C
[51] **Int.Cl. F21V 9/00 (2018.01) C08K 3/01 (2018.01) F21V 9/40 (2018.01) F21S 2/00 (2016.01) F21V 9/08 (2018.01)**
[25] EN
[54] **MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN LIGHTING APPARATUS**
[54] **MATERIAUX ET COMPOSANTS OPTIQUES POUR FILTRAGE DE COULEUR DANS UN APPAREIL D'ECLAIRAGE**
[72] CAI, DENGKE, US
[72] CLYNNE, THOMAS, US
[72] HE, JIANMIN, US
[72] KAMINSKI, MARK EDWARD, US
[72] YODER, BENJAMIN LEE, US
[72] REN, XIAOJUN, CN
[72] ZHOU, HUISHENG, CN
[72] WANG, ZHIYONG, CN
[72] LI, JIAN, CN
[73] SAVANT TECHNOLOGIES LLC, US
[85] 2017-03-30
[86] 2014-10-08 (PCT/CN2014/088116)
[87] (WO2016/054764)

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[11] **2,964,572**
[13] C
[51] **Int.Cl. C07C 243/36 (2006.01) C08F 2/44 (2006.01) C08F 20/10 (2006.01) C08K 5/25 (2006.01) C08L 33/10 (2006.01) C09K 3/10 (2006.01)**
[25] EN
[54] **PHENYLHYDRAZINE/ANHYDRIDE ADDUCTS AND ANAEROBIC CURABLE COMPOSITIONS USING SAME**
[54] **PRODUITS D'ADDITION PHENYLHYDRAZINE/ANHYDRIDE ET COMPOSITIONS DURCISSABLES PAR VOIE ANAEROBIE METTANT EN OEUVRE CES PRODUITS**
[72] KLEMARCZYK, PHILIP T., US
[72] BIRKETT, DAVID P., IE
[73] HENKEL IP & HOLDING GMBH, DE
[85] 2017-04-13
[86] 2015-09-30 (PCT/US2015/053063)
[87] (WO2016/064543)
[30] US (62/067,027) 2014-10-22

[11] **2,964,848**
[13] C
[51] **Int.Cl. C09K 5/00 (2006.01) C07C 59/06 (2006.01) H01B 3/20 (2006.01)**
[25] EN
[54] **BRANCHED TRIGLYCERIDE-BASED FLUIDS USEFUL FOR DIELECTRIC AND/OR HEAT TRANSFER APPLICATIONS**
[54] **FLUIDES A BASE DE TRIGLYCERIDE RAMIFIE UTILES POUR DES APPLICATIONS DIELECTRIQUES ET/OU DE TRANSFERT DE CHALEUR**
[72] GUPTE, KAUSTUBH, IN
[72] CHAUDHARY, BHARAT I., US
[72] DOWNING, DOMONIQUE, US
[72] MCDOUGAL NOLAN T., US
[72] NAIR SREEJIT, IN
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2017-04-18
[86] 2014-10-22 (PCT/IN2014/000676)
[87] (WO2016/063286)

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[11] **2,969,004**
[13] C
[51] **Int.Cl. C08K 5/16 (2006.01) C08J 9/00 (2006.01) C08L 23/06 (2006.01) C08L 27/18 (2006.01)**
[25] EN
[54] **PROCESS FOR FOAMING POLYOLEFIN COMPOSITIONS USING A FLUORORESIN/AZODICARBONAMIDE MIXTURE AS A NUCLEATING AGENT**
[54] **PROCEDE D'EXPANSION DE COMPOSITIONS DE POLYOLEFINE A L'AIDE D'UN MELANGE DE RESINE FLUOREE/AZODICARBONAMIDE A TITRE D'AGENT DE NUCLEATION**
[72] SUN, GANGWEI, CN
[72] ESSEGHIR, MOHAMED, US
[72] KMIEC, CHESTER J., US
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2017-05-26
[86] 2014-11-28 (PCT/CN2014/092557)
[87] (WO2016/082211)

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[11] **2,969,115**
[13] C
[51] **Int.Cl. C08L 91/06 (2006.01) C09D 191/06 (2006.01)**
[25] EN
[54] **WAX COATING AND ASSOCIATED METHODS OF USE**
[54] **REVETEMENT A LA CIRE ET PROCEDES D'UTILISATION ASSOCIES**
[72] AGRAWAL, SARVESH K., US
[72] BASCHWITZ, KENT A., US
[72] HOCH, LARRY E., US
[73] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US
[85] 2017-05-26
[86] 2015-12-28 (PCT/US2015/067626)
[87] (WO2016/111865)
[30] US (62/101,580) 2015-01-09

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[11] **2,970,459**
[13] C
[51] **Int.Cl. H05B 6/10 (2006.01) H05B 6/04 (2006.01) H05B 6/06 (2006.01) H05B 6/40 (2006.01) H05B 6/42 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR INTERCHANGEABLE INDUCTION HEATING SYSTEMS**
[54] **SYSTEMES ET PROCEDES POUR SYSTEMES DE CHAUFFAGE PAR INDUCTION INTERCHANGEABLES**
[72] SIGL, DENNIS ROLAND, US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2017-06-09
[86] 2015-11-18 (PCT/US2015/061406)
[87] (WO2016/105705)
[30] US (62/096,271) 2014-12-23
[30] US (14/921,782) 2015-10-23

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[11] **2,974,891**
[13] C
[51] **Int.Cl. A61N 5/06 (2006.01)**
[25] EN
[54] **METHOD, SYSTEM AND APPARATUS FOR NON-INVASIVE NEUROSTIMULATION THERAPY OF THE BRAIN**
[54] **PROCEDE, SYSTEME ET APPAREIL POUR UNE THERAPIE DE NEUROSTIMULATION NON INVASIVE DU CERVEAU**
[72] LIM, LEW, CA
[73] LIM, LEW, CA
[85] 2017-07-25
[86] 2015-11-23 (PCT/IB2015/059041)
[87] (WO2016/151377)
[30] US (62/136,411) 2015-03-20

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[11] **2,975,252**
[13] C
[51] **Int.Cl. B29C 64/129 (2017.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B29C 64/20 (2017.01) B29C 64/277 (2017.01)**
[25] EN
[54] **ADDITIVE MANUFACTURING DEVICE WITH RELEASE MECHANISM**
[54] **DISPOSITIF DE FABRICATION ADDITIVE AVEC MECANISME DE LIBERATION**
[72] VAN ESBROECK, HUBERTUS THEODORUS PETRUS, SG
[72] TAN, TECK WEE, SG
[72] SHARMA, DEVANSH, SG
[72] LAM, SIU HON, SG
[72] CHIN, KAH FAI, SG
[73] STRUCTO PTE LTD, SG
[85] 2017-07-27
[86] 2016-01-27 (PCT/SG2016/050039)
[87] (WO2016/122408)
[30] GB (1501382.4) 2015-01-28

[11] **2,979,860**
[13] C
[51] **Int.Cl. E05C 3/12 (2006.01) E05B 83/00 (2014.01) B64C 1/14 (2006.01) B64D 47/00 (2006.01) F16P 1/00 (2006.01)**
[25] EN
[54] **AIRCRAFT DOOR LATCH ARM ROTATION LIMITING DEVICE**
[54] **DISPOSITIF DE LIMITATION DE ROTATION DE BRAS DE VERROU DE PORTE D'AERONEF**
[72] EDWARDS, CURTIS R., US
[73] THE BOEING COMPANY, US
[86] (2979860)
[87] (2979860)
[22] 2017-09-19
[30] US (15/356,606) 2016-11-20

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[11] **2,979,958**
[13] C
[51] **Int.Cl. A61K 31/353 (2006.01) A61P 13/02 (2006.01) A61P 13/10 (2006.01)**
[25] EN
[54] **MEDICINAL COMPOSITION FOR TREATING URINARY TRACT INFECTION (UTI)**
[54] **COMPOSITION MEDICINALE POUR LE TRAITEMENT D'UNE INFECTION DES VOIES URINAIRES**
[72] SHAPLAND, HOWARD, GB
[72] GLICKMAN, SCOTT, GB
[72] KRUEGER, CHRISTIAN G., US
[72] HOWELL, AMY B., US
[72] REED, JESS D., US
[73] SYNESIS LLC, US
[73] UROPHARMA LIMITED, GB
[85] 2017-09-15
[86] 2016-03-18 (PCT/EP2016/055933)
[87] (WO2016/146806)
[30] US (62/135,353) 2015-03-19
[30] GB (1506526.1) 2015-04-17
[30] US (62/294,047) 2016-02-11

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[11] **2,981,450**
[13] C
[51] **Int.Cl. B60P 3/34 (2006.01)**
[25] EN
[54] **SLIDE-OUT ROOM AND OPERATING MECHANISM AND COMPONENTS THEREOF**
[54] **RALLONGE ESCAMOTABLE, ET MECANISME DE COMMANDE ET ELEMENTS ASSOCIES**
[72] RODABAUGH, DANIEL K., US
[73] XL IP B.V., NL
[85] 2017-09-29
[86] 2016-03-31 (PCT/NL2016/050224)
[87] (WO2016/159769)
[30] US (14/545,162) 2015-03-31
[30] US (15/085,332) 2016-03-30
[30] US (15/085,373) 2016-03-30

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[11] **2,982,633**
[13] C
[51] **Int.Cl. H02M 1/00 (2007.10) H02J 13/00 (2006.01) H02M 7/44 (2006.01)**
[25] EN
[54] **POWER DISTRIBUTION CONTROL WITHIN A MODULAR CONVERTER SYSTEM USING EFFICIENCY CALCULATIONS**
[54] **COMMANDE DE DISTRIBUTION DE COURANT DANS UN SYSTEME DE CONVERTISSEUR MODULAIRE UTILISANT DES CALCULS D'EFFICACITE**
[72] CHIK, MUN SHIN, US
[72] GAO, LIJUN, US
[72] LIU, SHENGYI, US
[73] THE BOEING COMPANY, US
[86] (2982633)
[87] (2982633)
[22] 2017-10-16
[30] US (15/431,376) 2017-02-13

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[11] **2,983,975**
[13] C
[51] **Int.Cl. E21B 43/24 (2006.01) E21B 43/40 (2006.01)**
[25] EN
[54] **REMOTE STEAM GENERATION AND WATER-HYDROCARBON SEPARATION IN HYDROCARBON RECOVERY OPERATIONS**
[54] **GENERATION DE VAPEUR A DISTANCE ET SEPARATION EAU-HYDROCARBURES DANS LESOPERATIONS DE RECUPERATION D'HYDROCARBURES**
[72] DONALD, ANDREW, CA
[72] PUGSLEY, TODD STEWART, CA
[72] BUNIO, GARY L., CA
[72] GATES, IAN DONALD, CA
[73] SUNCOR ENERGY INC., CA
[86] (2983975)
[87] (2983975)
[22] 2014-03-28
[62] 2,847,881

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[11] **2,984,201**
[13] C
[51] **Int.Cl. B62D 11/20 (2006.01) B62D 11/00 (2006.01) B62D 55/08 (2006.01) E01C 19/00 (2006.01) E01C 19/22 (2006.01) E01C 19/42 (2006.01)**
[25] EN
[54] **ROTARY PIVOT ARM POSITIONING ASSEMBLY**
[54] **ENSEMBLE DE POSITIONNEMENT DE BRAS DE PIVOTEMENT ROTATIF**
[72] KLEIN, KEVIN L., US
[72] BRENNER, MARK W., US
[72] JOHNSON, STEVEN A., US
[73] GOMACO CORPORATION, US
[85] 2017-10-26
[86] 2016-05-11 (PCT/US2016/031833)
[87] (WO2016/183186)
[30] US (14/711,613) 2015-05-13

[11] **2,985,750**
[13] C
[51] **Int.Cl. B25B 27/00 (2006.01) B23P 19/00 (2006.01) B25B 27/02 (2006.01)**
[25] EN
[54] **METHOD AND TOOL FOR REMOVING A TAPERED SLEEVE BOLT FROM A COMPONENT**
[54] **METHODE ET OUTIL D'EXTRACTION D'UN BOULON DE MANCHON CONIQUE D'UNE COMPOSANTE**
[72] HARE, JOHN RICHARD, US
[72] HAMILTON, JEFFREY WAYNE, US
[73] THE BOEING COMPANY, US
[86] (2985750)
[87] (2985750)
[22] 2017-11-14
[30] US (15/439,280) 2017-02-22

[11] **2,986,946**
[13] C
[51] **Int.Cl. E21B 7/12 (2006.01) B63B 21/50 (2006.01) E21B 7/128 (2006.01) E21B 15/02 (2006.01)**
[25] EN
[54] **ARCTIC DRILLING PROCESS**
[54] **PROCEDE DE FORAGE ARCTIQUE**
[72] MADSEN, JENS JORGEN, DK
[73] MAERSK DRILLING A/S, DK
[85] 2017-11-23
[86] 2016-05-30 (PCT/DK2016/000024)
[87] (WO2016/192729)
[30] DK (PA 2015 00315) 2015-05-29
[30] DK (PA 2015 00338) 2015-06-11

[11] **2,988,590**
[13] C
[51] **Int.Cl. B65D 47/20 (2006.01) B65D 75/58 (2006.01) B65D 85/72 (2006.01) B67D 1/12 (2006.01) F16L 37/32 (2006.01)**
[25] EN
[54] **FITMENT FOR DISPENSING FLUIDS FROM A FLEXIBLE CONTAINER**
[54] **BEC VERSEUR POUR DISTRIBUER DES FLUIDES A PARTIR D'UN RECIPIENT FLEXIBLE**
[72] JOHNSON, JAMES W., US
[73] LIQUI-BOX CORPORATION, US
[85] 2017-12-06
[86] 2016-06-13 (PCT/US2016/037201)
[87] (WO2016/201421)
[30] US (62/174,694) 2015-06-12

[11] **2,991,906**
[13] C
[51] **Int.Cl. G02B 7/182 (2021.01) G02B 7/183 (2021.01) G02B 23/02 (2006.01)**
[25] EN
[54] **MOUNTING OPTICAL ELEMENTS IN OPTICAL SYSTEMS**
[54] **INSTALLATION D'ELEMENTS OPTIQUES SUR DES SYSTEMES OPTIQUES**
[72] CANNON, BRUCE, US
[72] DICKERSON, BRUCE A., US
[73] FLIR SYSTEMS, INC., US
[86] (2991906)
[87] (2991906)
[22] 2018-01-11
[30] US (62/450,440) 2017-01-25

[11] **2,991,964**
[13] C
[51] **Int.Cl. G01N 25/72 (2006.01) G05D 23/19 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR NON-DESTRUCTIVE TESTING**
[54] **METHODE ET SYSTEME D'ESSAI NON DESTRUCTIF**
[72] KHOSRAVANI, SHAHRIAR, US
[73] THE BOEING COMPANY, US
[86] (2991964)
[87] (2991964)
[22] 2018-01-15
[30] US (15/464,204) 2017-03-20

[11] **2,992,368**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/318 (2021.01) A61B 5/11 (2006.01)**
[25] EN
[54] **SYSTEM AND METHODS FOR ADAPTIVE NOISE QUANTIFICATION IN DYNAMIC BIOSIGNAL ANALYSIS**
[54] **SYSTEME ET PROCEDES DE QUANTIFICATION ADAPTATIVE DU BRUIT DANS UNE ANALYSE DYNAMIQUE DE BIOSIGNAUX**
[72] AGUSTIN, MACIA BARBER, ES
[72] XAVIER, IBANEZ CATALA, ES
[73] SMART SOLUTIONS TECHNOLOGIES, S.L., ES
[85] 2018-01-12
[86] 2016-07-14 (PCT/EP2016/066802)
[87] (WO2017/009430)
[30] US (62/192,504) 2015-07-14
[30] ES (P201531026) 2015-07-14

[11] **2,996,658**
[13] C
[51] **Int.Cl. H01R 13/62 (2006.01)**
[25] EN
[54] **AN ELECTRICAL CONNECTION SYSTEM FOR USE IN HIGH POWER APPLICATIONS**
[54] **SYSTEME DE CONNEXION ELECTRIQUE DESTINE A ETRE UTILISE DANS DES APPLICATIONS HAUTE PUISSANCE**
[72] WILLIAMS, STEPHEN, AU
[73] CONNEC LIMITED, AU
[85] 2018-02-26
[86] 2015-09-10 (PCT/AU2015/000563)
[87] (WO2017/041128)

[11] **3,000,618**
[13] C
[51] **Int.Cl. F16H 61/02 (2006.01) B60W 10/101 (2012.01) B60W 10/107 (2012.01) B60W 10/04 (2006.01) B60W 10/06 (2006.01) F02D 29/02 (2006.01) F16H 59/74 (2006.01) F16H 61/66 (2006.01)**
[25] EN
[54] **CONTROL DEVICE FOR VEHICLE AND CONTROL METHOD FOR VEHICLE**
[54] **DISPOSITIF DE CONTROLE DESTINE A UN VEHICULE ET METHODE DE CONTROLE D'UN VEHICULE**
[72] NISHIHIRO,YOSHIMASA, JP
[72] NAKASAKI, MASAYOSHI, JP
[72] KOBAYASHI, NAOKI, JP
[72] OOTA, YUSUKE, JP
[72] OHSHIO, SHINTARO, JP
[73] NISSAN MOTOR CO., LTD., JP
[85] 2018-03-29
[86] 2016-09-30 (PCT/JP2016/078997)
[87] (WO2017/057666)
[30] JP (2015-196489) 2015-10-02

[11] **3,004,552**
[13] C
[51] **Int.Cl. F02C 9/18 (2006.01) B64D 13/00 (2006.01) B64D 31/00 (2006.01) F01D 17/02 (2006.01) F02C 9/00 (2006.01)**
[25] EN
[54] **CONTROLLING A COMPRESSOR OF A TURBINE ENGINE**
[54] **CONTROLE D'UN COMPRESSEUR DU MOTEUR A TURBINE**
[72] BALADI, MEHDI MILANI, IT
[72] MCQUISTON, ROBERT JON, IT
[72] ESPOSITO, ANIELLO, IT
[72] DONOFRIO, JOSEPH, IT
[72] SIMONE, NICHOLAS WILLIAM, IT
[72] CASTELLANI, SIMONE, IT
[73] GE AVIO S.R.L., IT
[86] (3004552)
[87] (3004552)
[22] 2018-05-10
[30] EP (17425052.2) 2017-05-25

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[11] **3,004,568**
[13] C
[51] **Int.Cl. H04W 76/10 (2018.01) H04W 40/16 (2009.01) H04W 40/22 (2009.01) H01Q 3/00 (2006.01)**
[25] EN
[54] **LINE OF SIGHT AIRCRAFT DATA TRANSFER SYSTEM**
[54] **SYSTEME DE TRANSFERT DE DONNEES DE PORTEE OPTIQUE D'AERONEF**
[72] MISENHEIMER, STEVEN LANE, US
[72] STEFFLER, JOSEPH, US
[73] GE AVIATION SYSTEMS LLC, US
[86] (3004568)
[87] (3004568)
[22] 2018-05-10
[30] US (15/603,049) 2017-05-23

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[11] **3,004,961**
[13] C
[51] **Int.Cl. E04B 2/74 (2006.01)**
[25] EN
[54] **LIFTING APPARATUS FOR A FLEXIBLE DIVIDER**
[54] **APPAREIL DE LEVAGE DESTINE A UN SEPARATEUR FLEXIBLE**
[72] HAMILTON, RODNEY, CA
[72] MADDEN, JOEY, CA
[73] SEAWAY PLASTICS LTD., CA
[86] (3004961)
[87] (3004961)
[22] 2018-05-15
[30] US (62/512,124) 2017-05-29

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[11] **3,008,796**
[13] C
[25] EN
[54] **PROGRAMMABLE UNIVERSAL QUANTUM ANNEALING WITH CO-PLANAR WAVEGUIDE FLUX QUBITS**
[54] **RECUIT QUANTIQUE UNIVERSEL PROGRAMMABLE A BITS QUANTIQUES DE FLUX DE GUIDE D'ONDES COPLANAIRE**
[72] BARZEGAR, ALIREZA SHABANI, US
[72] ROUSHAN, PEDRAM, US
[72] CHEN, YU, US
[72] NEVEN, HARTMUT, US
[73] GOOGLE LLC, US
[85] 2018-06-15
[86] 2015-12-16 (PCT/US2015/065995)
[87] (WO2017/105429)

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[11] **3,010,308**
[13] C
[51] **Int.Cl. H04N 21/2662 (2011.01) H04N 21/2343 (2011.01) H04N 21/462 (2011.01) H04N 21/472 (2011.01) H04N 21/845 (2011.01) G06F 15/16 (2006.01)**
[25] EN
[54] **MAXIMIZING QUALITY OF SERVICE FOR QOS ADAPTIVE VIDEO STREAMING VIA DYNAMIC APPLICATION-LAYER THROUGHPUT RATE SHAPING**
[54] **MAXIMISATION DE LA QUALITE DE SERVICE POUR DIFFUSION EN FLUX DE VIDEO S'ADAPTANT A LA QOS PAR MISE EN FORME DYNAMIQUE DU DEBIT DE TRANSMISSION DANS LA COUCHE D'APPLICATIONS**
[72] SU, CHI-JIUN, US
[72] JAIN, KAUSTUBH, US
[72] HONG, SE GI, US
[73] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2018-06-29
[86] 2016-12-31 (PCT/US2016/069655)
[87] (WO2017/117590)
[30] US (14/986,551) 2015-12-31

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[11] **3,011,423**
[13] C
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4439 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **N3,N6-BIS(2-(5-METHOXY-1H-INDOLE-3-YL)ETHYL)-2,6-DIMETHYL-4-(2-NITROPHENYL)PYRIDINE-3,5-DICARBOXAMIDE AND USE THEREOF IN THE FIELD OF NEUROTOXICITY**
[54] **N3,N6-BIS(2-(5-METHOXY-1H-INDOL-3-YL)ETHYL)-2,6-DIMETHYL-4-(2-NITROPHEN YLE)PYRIDINE-3,5-DICARBOXAMIDE ET SON UTILISATION DANS LE DOMAINE DE LA NEUROTOXICITE**
[72] HACIMUFTUOGLU, AHMET, TR
[72] ATES, ORHAN, TR
[72] SARACOGLU, NURULLAH, TR
[72] TAGHIZADEHGHALEHJOUGHI, ALI, TR
[72] LAFZI, FARROKH, TR
[73] HACIMUFTUOGLU, AHMET, TR
[73] ATES, ORHAN, TR
[73] SARACOGLU, NURULLAH, TR
[73] TAGHIZADEHGHALEHJOUGHI, ALI, TR
[73] LAFZI, FARROKH, TR
[73] ATATURK UNIVERSITESI BILIMSEL ARASTIRMA PROJELERI BIRIMI, TR
[85] 2018-07-13
[86] 2017-01-26 (PCT/TR2017/050038)
[87] (WO2017/131601)
[30] TR (2016/01023) 2016-01-26

[11] **3,015,470**
[13] C
[51] **Int.Cl. C07K 16/46 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61K 39/44 (2006.01) A61K 49/00 (2006.01) A61K 51/10 (2006.01) C07K 16/24 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **ANTIBODIES THAT BIND IL-4 AND/OR IL-13 AND THEIR USES**
[54] **ANTICORPS SE LIANT A L'IL-4 ET/OU A L'IL-3 ET LEURS UTILISATIONS**
[72] RAO, ERCOLE, DE
[72] MIKOL, VINCENT, FR
[72] LI, DANXI, US
[72] KRUIP, JOCHEN, DE
[72] DAVISON, MATTHEW, US
[73] SANOFI, FR
[86] (3015470)
[87] (3015470)
[22] 2008-10-14
[62] 2,702,473
[30] EP (07291259.5) 2007-10-15
[30] US (61/037128) 2008-03-17

[11] **3,018,318**
[13] C
[51] **Int.Cl. B01J 35/04 (2006.01) B01J 21/04 (2006.01) B01J 23/42 (2006.01) B01J 23/44 (2006.01) B01J 23/96 (2006.01) B01J 35/10 (2006.01)**
[25] EN
[54] **REGENERATION OF AN IONIC LIQUID CATALYST BY HYDROGENATION USING A MACROPOROUS NOBLE METAL CATALYST**
[54] **REGENERATION D'UN CATALYSEUR LIQUIDE IONIQUE PAR HYDROGENATION A L'AIDE D'UN CATALYSEUR DE METAL NOBLE MACROPOREUX**
[72] TIMKEN, HYE KYUNG CHO, US
[72] JOHNS, JEFF, US
[72] BHADURI, RAHUL SHANKAR, US
[72] DUMA, VIOREL, US
[72] HEYSE, JOHN V., US
[73] CHEVRON U.S.A. INC., US
[85] 2018-09-19
[86] 2017-02-07 (PCT/US2017/016795)
[87] (WO2018/004743)
[30] US (15/194,979) 2016-06-28

[11] **3,022,676**
[13] C
[51] **Int.Cl. G01N 15/00 (2006.01)**
[25] EN
[54] **POWDER DUSTINESS EVALUATION METHOD AND POWDER DUSTINESS EVALUATION DEVICE**
[54] **PROCEDE D'EVALUATION DE TENEUR EN POUSSIERE DE POUDRE ET DISPOSITIF D'EVALUATION DE TENEUR EN POUSSIERE DE POUDRE**
[72] HORIUCHI, TATSUYA, JP
[72] SUGANO, KENICHI, JP
[73] YOSHINO GYPSUM CO., LTD., JP
[85] 2018-10-30
[86] 2017-04-14 (PCT/JP2017/015308)
[87] (WO2017/191745)
[30] JP (2016-092290) 2016-05-02

[11] **3,023,171**
[13] C
[51] **Int.Cl. C07D 471/14 (2006.01) A61K 31/4745 (2006.01) A61P 1/16 (2006.01) A61P 3/00 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) A61P 9/10 (2006.01) C07D 491/22 (2006.01) C07D 495/22 (2006.01)**
[25] EN
[54] **PHENYL [A]INDOLE[2,3-G]QUINOLIZINE COMPOUNDS, PREPARATION METHOD THEREFOR, PHARMACEUTICAL COMPOSITION, AND APPLICATIONS THEREOF**
[54] **COMPOSES DE PHENYL[A]INDOLE[2,3-G]QUINOLIZINE, LEUR PROCEDE DE PREPARATION, COMPOSITION PHARMACEUTIQUE ET LEURS APPLICATIONS**
[72] LIU, HONG, CN
[72] WANG, YIPING, CN
[72] ZHAO, FEI, CN
[72] ZHAO, JING, CN
[72] WANG, JIANG, CN
[72] XI, CONG, CN
[72] WU, CHENGLIN, CN
[72] SHEN, HAO, CN
[72] HAN, XU, CN
[72] JIANG, HUALIANG, CN
[72] CHEN, KAIXIAN, CN
[73] SHANGHAI INSTITUTE OF MATERIA MEDICA, CHINESE ACADEMY OF SCIENCES, CN
[85] 2018-11-05
[86] 2017-03-29 (PCT/CN2017/078616)
[87] (WO2017/167202)
[30] CN (201610192571.9) 2016-03-30

[11] **3,024,388**
[13] C
[51] **Int.Cl. G01F 1/76 (2006.01) G01F 1/84 (2006.01) G01F 15/08 (2006.01) G01N 9/00 (2006.01)**
[25] EN
[54] **MULTI-CHANNEL FLOW TUBE**
[54] **TUBE D'ECOULEMENT A PLUSIEURS CANAUX**
[72] BELL, MARK JAMES, US
[72] WEINSTEIN, JOEL, US
[72] SCHLOSSER, MARTIN ANDREW, US
[72] SCHOLLENBERGER, FREDERICK SCOTT, US
[73] MICRO MOTION, INC., US
[85] 2018-11-15
[86] 2016-05-16 (PCT/US2016/032644)
[87] (WO2017/200518)

[11] **3,024,753**
[13] C
[51] **Int.Cl. H04B 7/04 (2017.01)**
[25] EN
[54] **METHOD FOR INDICATING AND DETERMINING PRECODING VECTOR, AND DEVICE**
[54] **PROCEDE ET DISPOSITIF PERMETTANT D'INDIQUER ET DE DETERMINER UN VECTEUR DE PRECODAGE**
[72] JIANG, PENG, CN
[72] JIN, HUANGPING, CN
[72] HAN, WEI, CN
[72] SHANG, PENG, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2018-11-19
[86] 2018-04-12 (PCT/CN2018/082887)
[87] (WO2018/196628)
[30] CN (201710284175.3) 2017-04-26

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[11] **3,029,562**
[13] C
[25] EN
[54] **METHOD AND DEVICE FOR SIGNAL DETECTION**
[54] **PROCEDE ET DISPOSITIF DE DETECTION DE SIGNAL**
[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2018-12-28
[86] 2016-07-01 (PCT/CN2016/088244)
[87] (WO2018/000440)

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[11] **3,029,862**
[13] C
[51] **Int.Cl. H04L 12/28 (2006.01) H04L 45/64 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVIDING A CONTROL PLANE FOR QUALITY OF SERVICE**
[54] **SYSTEME ET PROCEDE DE FOURNITURE DE PLAN DE CONTROLE POUR LA QUALITE DE SERVICE**
[72] SAAVEDRA, PATRICIO HUMBERTO, CA
[73] ADAPTIV NETWORKS INC., CA
[85] 2019-01-04
[86] 2017-06-29 (PCT/CA2017/050787)
[87] (WO2018/006163)
[30] US (15/203,051) 2016-07-06

---

[11] **3,032,391**
[13] C
[51] **Int.Cl. G01R 33/025 (2006.01) G01R 33/20 (2006.01) G01R 33/32 (2006.01) G01R 33/36 (2006.01) G01R 33/58 (2006.01) H01F 7/02 (2006.01) H03J 3/12 (2006.01) H03J 3/24 (2006.01)**
[25] EN
[54] **RADIO FREQUENCY COIL TUNING METHODS AND APPARATUS**
[54] **PROCEDES ET APPAREIL D'ACCORD DE BOBINE A RADIOFREQUENCES**
[72] REARICK, TODD, US
[72] JORDAN, JEREMY CHRISTOPHER, US
[72] CHARVAT, GREGORY L., US
[72] ROSEN, MATTHEW SCOT, US
[73] HYPERFINE, INC., US
[85] 2019-01-28
[86] 2017-09-29 (PCT/US2017/054316)
[87] (WO2018/064485)
[30] US (62/401,657) 2016-09-29

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[11] **3,036,677**
[13] C
[51] **Int.Cl. E21B 33/12 (2006.01)**
[25] EN
[54] **DOWNHOLE TOOLS CONTAINING DUCTILE CEMENTING MATERIALS**
[54] **OUTILS EN PROFONDEUR DE FORAGE CONTENANT DES MATERIAUX DE CIMENTATION DUCTILES**
[72] DOLOG, ROSTYSLAV, US
[72] MAZYAR, OLEG A., US
[72] FLORES, JUAN CARLOS, US
[72] KHABASHESKU, VALERY N., US
[73] BAKER HUGHES, A GE COMPANY, LLC, US
[85] 2019-03-12
[86] 2017-08-10 (PCT/US2017/046278)
[87] (WO2018/048568)
[30] US (15/262,643) 2016-09-12

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[11] **3,036,737**
[13] C
[51] **Int.Cl. G06Q 20/00 (2012.01)**
[25] EN
[54] **SELF-SERVICE PAYMENT METHOD, SERVER, AND TERMINAL**
[54] **PROCEDE DE PAIEMENT EN LIBRE-SERVICE, SERVEUR ET TERMINAL**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2019-03-13
[86] 2015-10-27 (PCT/CN2015/092967)
[87] (WO2017/070845)

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[11] **3,037,551**
[13] C
[51] **Int.Cl. H02K 11/00 (2016.01) H02K 3/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SUPPRESSING SURFACE DISCHARGES ON CONDUCTIVE WINDINGS OF AN ELECTRIC MACHINE**
[54] **SYSTEME ET METHODE DE SUPPRESSION DES DECHARGES DE SURFACE SUR LES ENROULEMENTS CONDUCTEURS D'UNE MACHINE ELECTRIQUE**
[72] YIN, WEIJUN, US
[72] ZHANG, LILI, US
[73] GENERAL ELECTRIC COMPANY, US
[86] (3037551)
[87] (3037551)
[22] 2019-03-21
[30] US (15/933,398) 2018-03-23

[11] **3,038,943**
[13] C
[51] **Int.Cl. B60F 5/00 (2006.01) B60H 1/24 (2006.01) B62D 21/00 (2006.01) B62D 21/18 (2006.01)**
[25] EN
[54] **UTILITY VEHICLE WITH HVAC DUCT**
[54] **VEHICULE UTILITAIRE DOTE D'UN CONDUIT DE CHAUFFAGE, VENTILATION ET CLIMATISATION (CVC)**
[72] SCHOUNARD, KYLE J., US
[72] BARBREY, WILLIAM L., US
[72] PETERSON, SHAWN D., US
[72] WEBER, DANIEL S., US
[72] FRIE, DEREK M., US
[73] POLARIS INDUSTRIES INC., US
[86] (3038943)
[87] (3038943)
[22] 2019-04-03
[30] US (62/655384) 2018-04-10

[11] **3,040,573**
[13] C
[51] **Int.Cl. A47D 13/02 (2006.01) A45F 3/04 (2006.01) A45F 3/14 (2006.01)**
[25] EN
[54] **CHILD CARRIER**
[54] **PORTE-BEBE**
[72] FAN, MEIFENG, CN
[73] WONDERLAND SWITZERLAND AG, CH
[86] (3040573)
[87] (3040573)
[22] 2019-04-16
[30] CN (201810355370.5) 2018-04-19
[30] CN (201810549110.1) 2018-05-31

[11] **3,041,113**
[13] C
[51] **Int.Cl. C07C 279/08 (2006.01) A61K 31/155 (2006.01) A61K 51/04 (2006.01) C07C 217/58 (2006.01) C07C 255/55 (2006.01)**
[25] EN
[54] **COMPOSITIONS, METHODS, AND SYSTEMS FOR THE SYNTHESIS AND USE OF IMAGING AGENTS**
[54] **COMPOSITIONS, PROCEDES ET SYSTEMES POUR LA SYNTHESE ET UTILISATION D'AGENTS D'IMAGERIE**
[72] PUROHIT, AJAY, US
[72] BENITES, PEDRO, US
[72] LAZEWATSKY, JOEL, US
[72] LEE, VERONICA, US
[72] CESATI, RICHARD R., III, US
[72] LOOBY, RICHARD, US
[72] CHEESMAN, EDWARD H., US
[72] RADEKE, HEIKE S., US
[73] LANTHEUS MEDICAL IMAGING, INC., US
[86] (3041113)
[87] (3041113)
[22] 2011-05-11
[62] 2,798,488
[30] US (61/333618) 2010-05-11
[30] US (61/405524) 2010-10-21
[30] US (61/405571) 2010-10-21

[11] **3,041,186**
[13] C
[51] **Int.Cl. G01B 11/00 (2006.01) G01B 7/00 (2006.01) G01B 7/004 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR DETERMINING A POSITION OF A MOVABLE OBJECT, AND SYSTEM INCLUDING THE APPARATUS**
[54] **PROCEDE ET DISPOSITIF POUR DETERMINER UNE POSITION D'UN OBJET MOBILE AINSI QUE SYSTEME COMPRENANT LE DISPOSITIF**
[72] PSIUK, RAFAEL, DE
[72] HARTMANN, MARKUS, DE
[72] DRAGER, TOBIAS, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2019-04-18
[86] 2017-08-29 (PCT/EP2017/071673)
[87] (WO2018/077513)
[30] DE (10 2016 120 250.9) 2016-10-24

[11] **3,043,706**
[13] C
[51] **Int.Cl. B62D 21/00 (2006.01) B60J 1/00 (2006.01) B60J 5/02 (2006.01) B60J 5/10 (2006.01) B60J 7/11 (2006.01) B60R 5/00 (2006.01) B62D 25/20 (2006.01)**
[25] EN
[54] **AUTOMOTIVE VEHICLE BODY**
[54] **CARROSSERIE DE VEHICULE AUTOMOBILE**
[72] BOLLINGER, ROBERT, US
[73] BOLLINGER MOTORS, LLC, US
[86] (3043706)
[87] (3043706)
[22] 2019-05-17
[30] US (15/984,863) 2018-05-21

[11] **3,043,720**
[13] C
[51] **Int.Cl. B25J 9/02 (2006.01) B25J 9/10 (2006.01) B25J 9/18 (2006.01) G05D 3/12 (2006.01) F02C 7/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTROLLING A ROBOTIC ARM**
[54] **SYSTEME ET PROCEDE DE COMMANDE D'UN BRAS ROBOTIQUE**
[72] GRAHAM, ANDREW CRISPIN, GB
[72] ROBERTS, HERBERT CHIDSEY, US
[72] DIWINSKY, DAVID SCOTT, US
[72] FOXALL, JULIAN MATTHEW, GB
[73] GENERAL ELECTRIC COMPANY, US
[86] (3043720)
[87] (3043720)
[22] 2019-05-17
[30] US (15/986,952) 2018-05-23

[11] **3,043,721**
[13] C
[51] **Int.Cl. B25J 18/00 (2006.01) B25J 18/06 (2006.01)**
[25] EN
[54] **ROBOTIC ARM ASSEMBLY CONSTRUCTION**
[54] **CONSTRUCTION D'ASSEMBLAGE DE BRAS ROBOTIQUE**
[72] GRAHAM, ANDREW CRISPIN, GB
[72] DIWINSKY, DAVID SCOTT, US
[73] GENERAL ELECTRIC COMPANY, US
[86] (3043721)
[87] (3043721)
[22] 2019-05-17
[30] US (15/986,978) 2018-05-23

[11] **3,045,115**
[13] C
[51] **Int.Cl. B65G 47/22 (2006.01) B65G 47/256 (2006.01) B65G 47/82 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING SINGULATION OF OBJECTS FOR PROCESSING**
[54] **SYSTEMES ET PROCEDE PERMETTANT D'ASSURER UNE SEPARATION D'OBJETS DESTINES A UN TRAITEMENT**
[72] WAGNER, THOMAS, US
[72] AHEARN, KEVIN, US
[72] COHEN, BENJAMIN, US
[72] DAWSON-HAGGERTY, MICHAEL, US
[72] GEYER, CHRISTOPHER, US
[72] KOLETSCHKA, THOMAS, US
[72] MARONEY, KYLE, US
[72] MASON, MATTHEW T., US
[72] PRICE, GENE TEMPLE, US
[72] ROMANO, JOSEPH, US
[72] SMITH, DANIEL, US
[72] SRINIVASA, SIDDHARTHA, US
[72] VELAGAPUDI, PRASANNA, US
[72] ALLEN, THOMAS, US
[73] BERKSHIRE GREY, INC., US
[85] 2019-05-27
[86] 2017-11-28 (PCT/US2017/063382)
[87] (WO2018/098460)
[30] US (62/426,913) 2016-11-28

[11] **3,047,744**
[13] C
[51] **Int.Cl. A01K 61/55 (2017.01) A01K 61/54 (2017.01) A01K 63/00 (2017.01) B63B 27/00 (2006.01) B63B 27/14 (2006.01)**
[25] EN
[54] **OYSTER AQUACULTURE METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL POUR L`OSTREICULTURE**
[72] DOCKER, PHILIP IAN, CA
[72] PORTER, ERNIE, CA
[73] DOCKER, PHILIP IAN, CA
[73] PORTER, ERNIE, CA
[86] (3047744)
[87] (3047744)
[22] 2019-06-21

[11] **3,048,314**
[13] C
[51] **Int.Cl. A01F 15/08 (2006.01) A01F 15/07 (2006.01)**
[25] EN
[54] **BALE WRAPPING APPARATUS**
[54] **APPAREIL D`ENRUBANNAGE**
[72] DESROCHERS, PATRICE, CA
[72] BRETON, JACQUES, CA
[72] GIGUERE, ALEXANDRE, CA
[72] GAGNON-BOUCHARD, MICHAEL, CA
[72] SOUCY-GAUTHIER, RAPHAEL, CA
[73] GROUPE ANDERSON INC., CA
[86] (3048314)
[87] (3048314)
[22] 2019-06-28
[30] US (62/692.117) 2018-06-29

[11] **3,050,146**
[13] C
[51] **Int.Cl. A61K 36/00 (2006.01) A61K 36/734 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **TRADITIONAL CHINESE MEDICINE HERB COMPOSITION, MAKING THEREOF, AND APPLICATION THEREOF**
[54] **COMPOSITION D'HERBE DE MEDECINE CHINOISE TRADITIONNELLE, SA FABRICATION ET SON APPLICATION**
[72] ZHOU, JUNJIE, CN
[72] YANG, LI, CN
[72] ZHAN, CHANGSEN, CN
[72] YU, JIEJING, CN
[72] SHEN, DANPING, CN
[72] DING, LILI, CN
[72] WANG, ZHENGTAO, CN
[73] SHANGHAI HUTCHISON PHARMACEUTICALS LIMITED, CN
[73] SHANGHAI UNIVERSITY OF TRADITIONAL CHINESE MEDICINE, CN
[85] 2019-07-17
[86] 2018-08-13 (PCT/CN2018/100211)
[87] (WO2020/010664)
[30] CN (2018107487666) 2018-07-10

[11] **3,050,159**
[13] C
[51] **Int.Cl. G06F 17/00 (2019.01) G06F 3/0486 (2013.01)**
[25] EN
[54] **ARTIFICIAL INTELLIGENCE (AI) BASED AUTOMATIC RULE GENERATION**
[54] **GENERATION AUTOMATIQUE DE REGLES BASEE SUR L`INTELLIGENCE ARTIFICIELLE (IA)**
[72] SONI, SOUJANYA, IN
[72] SHIVARAM, MADHURA, IN
[72] KALIKI, AISHWARYA, IN
[73] ACCENTURE GLOBAL SOLUTIONS LIMITED, GB
[86] (3050159)
[87] (3050159)
[22] 2019-07-19
[30] US (16/105,470) 2018-08-20

[11] **3,050,825**
[13] C
[51] **Int.Cl. G01V 5/04 (2006.01) E21B 47/007 (2012.01) E21B 47/00 (2012.01) E21B 47/09 (2012.01) G01V 5/10 (2006.01)**
[25] EN
[54] **WELL RANGING APPARATUS, SYSTEMS, AND METHODS**
[54] **APPAREILS, SYSTEMES ET METHODES DETERMINATION DE PORTEE DE PUITS**
[72] WU, HSU-HSIANG, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[86] (3050825)
[87] (3050825)
[22] 2015-08-04
[62] 2,954,657
[30] US (62/035,877) 2014-08-11
[30] US (62/037,440) 2014-08-14
[30] US (62/078,732) 2014-11-12

[11] **3,051,447**
[13] C
[51] **Int.Cl. H02J 7/00 (2006.01) G01R 11/56 (2006.01)**
[25] EN
[54] **BATTERY LEASING AND WIRELESS POWER TRANSFER FOR PASSENGER RAIL**
[54] **LOCATION DE BATTERIE ET TRANSFERT D'ENERGIE SANS FIL POUR RAIL DE PASSAGER**
[72] COOK, DAVID, US
[73] CLEAN TRAIN PROPULSION, US
[85] 2019-07-24
[86] 2017-11-21 (PCT/US2017/062912)
[87] (WO2018/094421)
[30] US (62/424,914) 2016-11-21

[11] **3,052,490**
[13] C
[51] **Int.Cl. C12N 15/10 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MASSIVELY PARALLEL COMBINATORIAL ANALYSIS OF SINGLE CELLS**
[54] **SYSTEMES ET PROCEDES D'ANALYSE COMBINATOIRE MASSIVEMENT PARALLELE DE CELLULES UNIQUES**
[72] JOHNSON, DAVID SCOTT, US
[72] ADLER, ADAM SHULTZ, US
[72] SPINDLER, MATTHEW JAMES, US
[72] MIZRAHI, RENA AVIVA, US
[73] GIGAGEN, INC., US
[85] 2019-08-01
[86] 2018-03-13 (PCT/US2018/022256)
[87] (WO2018/170013)
[30] US (62/470,836) 2017-03-13

[11] **3,052,546**
[13] C
[51] **Int.Cl. F16M 11/04 (2006.01) F16M 11/16 (2006.01) F16M 11/22 (2006.01) F16M 13/02 (2006.01) G09F 7/18 (2006.01)**
[25] EN
[54] **MOUNTS**
[54] **FIXATIONS**
[72] VINTON, ROGER ALAN, GB
[72] MCARDELL, ROGER NICHOLAS, GB
[73] VINTON, ROGER ALAN, GB
[73] MCARDELL, ROGER NICHOLAS, GB
[85] 2019-08-02
[86] 2018-02-05 (PCT/EP2018/052828)
[87] (WO2018/141971)
[30] GB (1701947.2) 2017-02-06

[11] **3,052,657**
[13] C
[51] **Int.Cl. H04N 21/2343 (2011.01) H04N 21/845 (2011.01) H04N 19/124 (2014.01) H04N 19/147 (2014.01) H04N 19/154 (2014.01) H04N 19/179 (2014.01) H04N 19/192 (2014.01) H04N 19/59 (2014.01)**
[25] EN
[54] **ITERATIVE TECHNIQUES FOR ENCODING VIDEO CONTENT**
[54] **TECHNIQUES ITERATIVES DE CODAGE DE CONTENU VIDEO**
[72] KATSAVOUNIDIS, IOANNIS, US
[73] NETFLIX, INC., US
[85] 2019-08-02
[86] 2018-02-23 (PCT/US2018/019576)
[87] (WO2018/156997)
[30] US (62/462,873) 2017-02-23
[30] US (62/534,170) 2017-07-18
[30] US (62/550,517) 2017-08-25
[30] US (15/902,976) 2018-02-22

[11] **3,052,892**
[13] C
[51] **Int.Cl. B32B 3/08 (2006.01) B33Y 80/00 (2015.01) A43B 1/00 (2006.01) A43B 7/12 (2006.01) A43B 23/02 (2006.01) B32B 7/02 (2019.01) B32B 7/04 (2019.01) B32B 27/00 (2006.01) B32B 37/00 (2006.01)**
[25] EN
[54] **LAYERED PRODUCT WITH FUNCTIONAL MEMBRANE, FOOTWEAR COMPRISING SUCH LAYERED PRODUCT, AND MANUFACTURING METHOD**
[54] **PRODUIT FEUILLETE AVEC MEMBRANE FONCTIONNELLE, CHAUSSURE COMPORTANT UN TEL PRODUIT FEUILLETE, ET PROCEDE DE FABRICATION**
[72] KIEDERLE, GUNTER, DE
[72] NABERNIK, STANE, SI
[72] MUTH, MAXIMILAN, DE
[73] W. L. GORE & ASSOCIATES GMBH, DE
[85] 2019-08-07
[86] 2017-02-23 (PCT/EP2017/000256)
[87] (WO2018/153423)

[11] **3,053,316**
[13] C
[51] **Int.Cl. H04L 9/32 (2006.01) H04L 67/55 (2022.01) H04L 9/08 (2006.01)**
[25] EN
[54] **METHOD FOR PROVIDING SIMPLIFIED ACCOUNT REGISTRATION SERVICE AND USER AUTHENTICATION SERVICE, AND AUTHENTICATION SERVER USING SAME**
[54] **PROCEDE POUR FOURNIR UN SERVICE D'ENREGISTREMENT DE COMPTE SIMPLIFIE ET SERVICE D'AUTHENTIFICATION D'UTILISATEUR, ET SERVEUR D'AUTHENTIFICATION L'UTILISANT**
[72] UHR, JOON SUN, KR
[72] HONG, JAY WU, KR
[72] HYUN, SANG HOON, KR
[72] LEE, JU MIN, KR
[73] COINPLUG, INC., KR
[85] 2019-08-12
[86] 2018-01-19 (PCT/KR2018/000915)
[87] (WO2018/155822)
[30] KR (10-2017-0023149) 2017-02-21

[11] **3,053,509**
[13] C
[51] **Int.Cl. B60R 16/023 (2006.01) H02G 3/16 (2006.01)**
[25] EN
[54] **POWER DISTRIBUTION MODULE FOR USE IN A VEHICLE**
[54] **MODULE DE DISTRIBUTION D'ENERGIE DESTINE A ETRE UTILISE DANS UN VEHICULE**
[72] ABDALLA, IBRAHEM, CA
[73] MOTOR COACH INDUSTRIES LIMITED, CA
[73] MOTOR COACH INDUSTRIES, INC., US
[85] 2019-08-14
[86] 2018-02-16 (PCT/US2018/000083)
[87] (WO2018/151866)
[30] US (15/434,997) 2017-02-16

[11] **3,053,862**
[13] C
[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **REFERENCE SIGNAL SENDING METHOD, REFERENCE SIGNAL RECEIVING METHOD, NETWORK DEVICE, AND TERMINAL DEVICE**
[54] **PROCEDE D'EMISSION ET DE RECEPTION DE SIGNAL DE REFERENCE, DISPOSITIF RESEAU ET DISPOSITIF TERMINAL**
[72] WU, LU, CN
[72] LIU, YONG, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-08-16
[86] 2018-04-23 (PCT/CN2018/084044)
[87] (WO2018/196707)
[30] CN (201710295299.1) 2017-04-28

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[11] **3,054,244**
[13] C
[51] **Int.Cl. G01C 11/06 (2006.01) G06T 7/246 (2017.01) G06T 7/70 (2017.01) G01C 21/12 (2006.01)**
[25] EN
[54] **DISTRIBUTED DEVICE MAPPING**
[54] **MAPPAGE DE DISPOSITIF DISTRIBUE**
[72] ONDRUSKA, PETER, GB
[72] PLATINSKY, LUKAS, GB
[73] BLUE VISION LABS UK LIMITED, GB
[85] 2019-08-21
[86] 2018-04-18 (PCT/GB2018/051023)
[87] (WO2018/193254)
[30] GB (1706129.2) 2017-04-18
[30] US (62/486,761) 2017-04-18
[30] GB (1804193.9) 2018-03-15

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[11] **3,056,202**
[13] C
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 38/17 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61K 45/06 (2006.01)**
[25] EN
[54] **ANTI-DR5 ANTIBODY AND USE THEREOF**
[54] **ANTICORPS ANTI-DR5 ET UTILISATION ASSOCIEE**
[72] DOH, HYOUNMIE, KR
[72] LEE, DONGSOP, KR
[72] LEE, HANYOUNG, KR
[72] KIM, YOOJIN, KR
[72] HAN, KYUNGMI, KR
[72] JUNG, EUNEE, KR
[72] KIM, DONGHYEON, KR
[72] SONG, DONGSUP, KR
[72] SHIN, KUM-JOO, KR
[72] WOO, SOYON, KR
[73] DONG-A ST CO., LTD., KR
[85] 2019-09-11
[86] 2018-02-08 (PCT/KR2018/001711)
[87] (WO2018/174408)
[30] KR (10-2017-0035623) 2017-03-21

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[11] **3,056,336**
[13] C
[51] **Int.Cl. B60R 9/00 (2006.01) B60P 3/14 (2006.01) B60R 11/06 (2006.01)**
[25] EN
[54] **MOUNTING SYSTEM WITH PIVOT LOCKING FEATURES**
[54] **SYSTEME D`INSTALLATION DOTE DE FONCTIONS DE BLOCAGE DU PIVOT**
[72] QUINTUS, JAMES GERARD, US
[73] UNDERCOVER, INC., US
[86] (3056336)
[87] (3056336)
[22] 2019-09-23
[30] US (16/172,452) 2018-10-26

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[11] **3,056,694**
[13] C
[51] **Int.Cl. G06T 7/136 (2017.01)**
[25] EN
[54] **DETERMINING A CLINICAL TARGET VOLUME**
[54] **DETERMINATION D'UN VOLUME CIBLE CLINIQUE**
[72] WITTE, JENS, DE
[73] BRAINLAB AG, DE
[85] 2019-09-16
[86] 2017-05-18 (PCT/EP2017/061985)
[87] (WO2018/210422)

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[11] **3,056,834**
[13] C
[51] **Int.Cl. G01D 21/00 (2006.01) G01S 19/14 (2010.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR COLLECTING GEOSPATIAL OBJECT DATA WITH MEDIATED REALITY**
[54] **SYSTEME ET METHODE DE COLLECTE DE DONNEES GEOSPATIALES AU MOYEN DE REALITE ELECTRONIQUE**
[72] PESTOV, ALEXANDRE, CA
[73] VGIS INC., CA
[86] (3056834)
[87] (3056834)
[22] 2019-09-26

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[11] **3,056,964**
[13] C
[51] **Int.Cl. F42B 1/02 (2006.01) E21B 43/117 (2006.01)**
[25] EN
[54] **SHAPED CHARGE WITH SELF-CONTAINED AND COMPRESSED EXPLOSIVE INITIATION PELLET**
[54] **CHARGE PROFILEE AVEC PASTILLE D'AMORCE EXPLOSIVE AUTONOME ET COMPRIMEE**
[72] LOEHKEN, JOERN OLAF, DE
[72] MCNELIS, LIAM, DE
[73] DYNAENERGETICS EUROPE GMBH, DE
[85] 2019-09-18
[86] 2018-03-12 (PCT/EP2018/056107)
[87] (WO2018/177733)
[30] US (62/477,482) 2017-03-28

[11] **3,059,059**
[13] C
[51] **Int.Cl. B01D 53/22 (2006.01) B01D 53/86 (2006.01) C01B 17/04 (2006.01)**
[25] EN
[54] **ENHANCEMENT OF CLAUS TAIL GAS TREATMENT BY SULFUR DIOXIDE-SELECTIVE MEMBRANE TECHNOLOGY**
[54] **AMELIORATION DU TRAITEMENT DE GAZ RESIDUAIRE DE CLAUS PAR TECHNOLOGIE A MEMBRANE SELECTIVE AU DIOXYDE DE SOUFRE**
[72] BALLAGUET, JEAN-PIERRE R., SA
[72] VAIDYA, MILIND M., SA
[72] CHARRY-PRADA, IRAN D., SA
[72] DUVAL, SEBASTIEN A., SA
[73] SAUDI ARABIAN OIL COMPANY, SA
[85] 2019-10-03
[86] 2018-03-09 (PCT/US2018/021676)
[87] (WO2018/165512)
[30] US (15/455,847) 2017-03-10

[11] **3,060,807**
[13] C
[51] **Int.Cl. E02D 15/04 (2006.01) E04C 5/16 (2006.01)**
[25] EN
[54] **HOLLOW REBAR FOR POST-GROUTING THE BASE OF REINFORCED CONCRETE DRILLED SHAFTS**
[54] **BARRE D`ARMATURE CREUSE POUR POST-INJECTION DE COULIS DE CIMENT DE LA BASE DE PIEUX FORES EN BETON ARME**
[72] ASCHENBROICH, HORST K., CA
[73] ASCHENBROICH, HORST K., CA
[86] (3060807)
[87] (3060807)
[22] 2019-11-01
[30] US (16/193718) 2018-11-16

[11] **3,061,344**
[13] C
[51] **Int.Cl. G06F 3/048 (2013.01) G06Q 10/10 (2012.01) G06Q 30/02 (2012.01) H04W 4/029 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MANAGING COMMUNICATION SYSTEM**
[54] **SYSTEME ET PROCEDE DE GESTION DE SYSTEME DE COMMUNICATION**
[72] LEBEDEV, SERGEY, US
[72] KOVALENKO, ALEKSEY, US
[73] GENESYS TELECOMMUNICATIONS LABORATORIES, INC., US
[85] 2019-10-23
[86] 2019-03-27 (PCT/US2019/024246)
[87] (WO2019/191206)
[30] US (15/938,918) 2018-03-28

[11] **3,062,047**
[13] C
[51] **Int.Cl. C04B 41/87 (2006.01) C23C 4/18 (2006.01) C23C 14/58 (2006.01)**
[25] EN
[54] **COATING SYSTEMS INCLUDING INFILTRATION COATINGS AND REACTIVE PHASE SPRAY FORMULATION COATINGS**
[54] **SYSTEMES DE REVETEMENT COMPRENANT DES REVETEMENTS D`INFILTRATION ET DES REVETEMENTS DE FORMULATION DE PULVERISATION A PHASE REACTIVE**
[72] KESHAVAN, HRISHIKESH, US
[72] BEWLAY, BERNARD PATRICK, US
[72] SANCHEZ, JOSE, US
[72] WALLACE, MARGEAUX, US
[72] PRITCHARD, BYRON, US
[72] KULKARNI, AMBARISH, US
[73] GENERAL ELECTRIC COMPANY, US
[86] (3062047)
[87] (3062047)
[22] 2019-11-20
[30] US (16/208,605) 2018-12-04

[11] **3,062,500**
[13] C
[51] **Int.Cl. G01N 33/53 (2006.01) G01N 1/28 (2006.01)**
[25] EN
[54] **METHODS OF DETECTING LEUKEMIA/ LYMPHOMA AND INDUCTION OF THE SAME**
[54] **PROCEDES DE DETECTION DE LEUCEMIE/LYMPHOME ET LEUR INDUCTION**
[72] TEBBI, CAMERON K., US
[73] TEBBI, CAMERON K., US
[86] (3062500)
[87] (3062500)
[22] 2010-12-20
[62] 2,821,673

[11] **3,063,603**
[13] C
[51] **Int.Cl. B26D 1/36 (2006.01) B26D 1/00 (2006.01) B26D 3/28 (2006.01) B26D 7/26 (2006.01)**
[25] EN
[54] **MODULAR UNITS, CLAMPING ASSEMBLIES, AND SLICING MACHINES EQUIPPED THEREWITH**
[54] **UNITES MODULAIRES, ENSEMBLES DE SERRAGE, ET MACHINES A TRANCHER EQUIPEES DE CEUX-CI**
[72] GEREG, DUSTIN JOSEPH, US
[72] JACKO, MICHAEL SCOT, US
[73] URSCHEL LABORATORIES, INC., US
[85] 2019-11-13
[86] 2018-05-11 (PCT/US2018/032365)
[87] (WO2018/213130)
[30] US (62/506,667) 2017-05-16

[11] **3,064,851**
[13] C
[51] **Int.Cl. A61M 16/06 (2006.01) A61M 16/08 (2006.01) A61M 16/10 (2006.01) B01D 53/02 (2006.01) B01D 53/04 (2006.01) B01D 53/30 (2006.01)**
[25] EN
[54] **CONFIGURABLE OXYGEN CONCENTRATOR AND RELATED METHOD**
[54] **CONCENTRATEUR D'OXYGENE CONFIGURABLE ET PROCEDE ASSOCIE**
[72] GALBRAITH, STEPHEN DOUGLAS, US
[72] RAUKER, ROBERT M., US
[73] SEPARATION DESIGN GROUP, LLC, US
[73] BELLUSCURA LLC, US
[85] 2019-11-22
[86] 2018-06-01 (PCT/US2018/035642)
[87] (WO2018/226532)
[30] US (62/515,859) 2017-06-06
[30] US (62/556,472) 2017-09-10
[30] US (62/660,533) 2018-04-20

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[11] **3,065,652**
[13] C
[51] **Int.Cl. B29C 48/76 (2019.01)**
[25] EN
[54] **PROCESS FOR REMOVING VOLATILE COMPONENTS FROM AN OLEFIN POLYMER AND ARTICLE OBTAINED**
[54] **PROCEDE D'ELIMINATION DE COMPOSANTS VOLATILS D'UN POLYMERE D'OLEFINE ET ARTICLE OBTENU**
[72] HRISTOV, VELICHKO, AT
[72] AL-HAJ ALI, MOHAMMAD, FI
[73] BOREALIS AG, AT
[85] 2019-11-29
[86] 2018-05-25 (PCT/EP2018/063781)
[87] (WO2018/219805)
[30] EP (17173186.2) 2017-05-29

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[11] **3,067,840**
[13] C
[51] **Int.Cl. E21B 47/01 (2012.01) E21B 23/00 (2006.01)**
[25] EN
[54] **SENSOR DEPLOYMENT SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DEPLOIEMENT DE CAPTEUR**
[72] RATCLIFFE, JAMES DAVID, GB
[72] GILL, TIMOTHY MICHAEL, GB
[72] HARRIS, NEIL GEOFFREY, GB
[72] HITCHCOCK, IAN, GB
[72] SHAMBROOK, PAUL, GB
[73] SONDEX WIRELINE LIMITED, GB
[85] 2019-12-18
[86] 2018-06-20 (PCT/US2018/038590)
[87] (WO2018/237070)
[30] US (62/522,367) 2017-06-20

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[11] **3,068,451**
[13] C
[51] **Int.Cl. B65D 41/04 (2006.01) B65D 1/02 (2006.01) B65D 41/17 (2006.01) B65D 51/18 (2006.01)**
[25] EN
[54] **CONTAINER AND CAP ASSEMBLY**
[54] **RECIPIENT ET ENSEMBLE CAPUCHON**
[72] BYRD, RICHARD, US
[72] LYONS, MICHAEL, US
[73] ELC MANAGEMENT LLC, US
[85] 2019-12-23
[86] 2018-06-19 (PCT/US2018/038267)
[87] (WO2018/236858)
[30] US (15/631,147) 2017-06-23

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[11] **3,069,476**
[13] C
[51] **Int.Cl. F04B 17/04 (2006.01) A61H 9/00 (2006.01) A61H 19/00 (2006.01) A61H 21/00 (2006.01) H01F 5/00 (2006.01) H01F 7/02 (2006.01)**
[25] EN
[54] **FLUIDIC METHODS AND DEVICES**
[54] **PROCEDES ET DISPOSITIFS FLUIDIQUES**
[72] MURISON, BRUCE, CA
[73] OBOTICS INC., CA
[86] (3069476)
[87] (3069476)
[22] 2013-09-26
[62] 2,975,661
[30] US (61/705,809) 2012-09-26

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[11] **3,069,921**
[13] C
[51] **Int.Cl. A61K 31/352 (2006.01) A61K 31/44 (2006.01) A61K 31/51 (2006.01) A61K 31/525 (2006.01) A61K 31/70 (2006.01) C07D 311/30 (2006.01)**
[25] EN
[54] **METHODS OF TREATING AUTOIMMUNE MICROVASCULAR DISORDERS**
[54] **METHODES DE TRAITEMENT DE TROUBLES MICROVASCULAIRES AUTO-IMMUNS**
[72] LEVY, ROBERT M., US
[73] PRIMUS PHARMACEUTICALS, INC., US
[85] 2020-01-13
[86] 2018-07-18 (PCT/US2018/042573)
[87] (WO2019/018455)
[30] US (62/534,237) 2017-07-19

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[11] **3,070,959**
[13] C
[51] **Int.Cl. C09K 8/035 (2006.01) C09K 8/34 (2006.01) C09K 8/36 (2006.01)**
[25] EN
[54] **ECOFRIENDLY EMULSIFIER SYNTHESIS FROM ESTERIFIED WASTE VEGETABLE OIL FOR WELLBORE DRILLING FLUIDS**
[54] **SYNTHESE D'EMULSIFIANT RESPECTUEUSE DE L'ENVIRONNEMENT A PARTIR D'HUILE VEGETALE USAGEE ESTERIFIEE POUR FLUIDES DE FORAGE DE PUITS DE FORAGE**
[72] RAMASAMY, JOTHIBASU, SA
[72] AMANULLAH, MD, SA
[73] SAUDI ARABIAN OIL COMPANY, SA
[85] 2020-01-23
[86] 2018-07-25 (PCT/US2018/043675)
[87] (WO2019/023335)
[30] US (62/537,572) 2017-07-27
[30] US (16/042,723) 2018-07-23

[11] **3,072,126**
[13] C
[51] **Int.Cl. C04B 7/345 (2006.01) C04B 28/18 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING BINDERS HARDENING BY HYDRATION AND CARBONATION**
[54] **PROCEDE DE FABRICATION DE LIANTS DURCISSANT PAR HYDRATATION ET CARBONATATION**
[72] SKOCEK, JAN, DE
[72] ZAJAC, MACIEJ, DE
[72] BOLTE, GERD, DE
[72] BEN HAHA, MOHSEN, DE
[73] HEIDELBERGCEMENT AG, DE
[85] 2020-02-05
[86] 2018-10-02 (PCT/EP2018/076798)
[87] (WO2019/072640)
[30] EP (17195454.8) 2017-10-09

[11] **3,073,150**
[13] C
[51] **Int.Cl. F04B 53/16 (2006.01) F04B 53/04 (2006.01) F04B 53/10 (2006.01)**
[25] EN
[54] **PUMP BODY ASSEMBLY, PUMP, SPRAYING SYSTEM, AND UNMANNED AERIAL VEHICLE**
[54] **ENSEMBLE DE CORPS DE POMPE, POMPE, SYSTEME DE PULVERISATION ET VEHICULE AERIEN SANS PILOTE**
[72] XIAO, DINGFENG, CN
[72] CHEN, ZHANG, CN
[72] HE, JIANBING, CN
[72] ZHENG, WEN, CN
[73] GUANGZHOU XAIRCRAFT TECHNOLOGY CO., LTD., CN
[85] 2020-02-14
[86] 2018-08-13 (PCT/CN2018/100287)
[87] (WO2019/034020)
[30] CN (201710703608.4) 2017-08-16

[11] **3,073,290**
[13] C
[51] **Int.Cl. G01W 1/10 (2006.01)**
[25] EN
[54] **INDICATOR INTERPOLATION TO PREDICT A WEATHER STATE**
[54] **INTERPOLATION INDICATRICE POUR PREDIRE UNE CONDITION METEOROLOGIQUE**
[72] MASHHOORI, ALI, CA
[73] FARMERS EDGE INC., CA
[85] 2020-02-18
[86] 2018-09-12 (PCT/CA2018/051127)
[87] (WO2019/051590)
[30] US (62/558,643) 2017-09-14

[11] **3,074,774**
[13] C
[51] **Int.Cl. F24T 10/30 (2018.01) F04F 1/20 (2006.01) F04F 5/00 (2006.01) F04F 5/10 (2006.01) F25B 30/06 (2006.01)**
[25] EN
[54] **JET PUMP APPARATUS AND METHODS FOR STANDING COLUMN WELL SYSTEMS AND DEPLOYMENT THEREOF**
[54] **APPAREIL DE POMPE A JET ET PROCEDES POUR SYSTEMES DE PUITS A COLONNE PERMANENTE ET DEPLOIEMENT DE CEUX-CI**
[72] NGUYEN, ALAIN, CA
[72] BASHIRI, HAMED, CA
[73] HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE MINISTER OF NATURAL RESOURCES CANADA, CA
[86] (3074774)
[87] (3074774)
[22] 2020-03-05
[30] US (62/815,775) 2019-03-08

[11] **3,075,328**
[13] C
[51] **Int.Cl. G08C 17/02 (2006.01) H01M 10/0525 (2010.01) H01M 10/48 (2006.01) H02J 7/00 (2006.01) H04Q 9/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MONITORING AND REMOTELY CONTROLLING A STATE OF CHARGE OF AT LEAST ONE BATTERY PACK**
[54] **SYSTEME ET PROCEDE POUR LA SURVEILLANCE ET LA COMMANDE A DISTANCE D'UN ETAT DE CHARGE D'AU MOINS UNE BATTERIE**
[72] THANNHUBER, MARKUS, DE
[73] EINHELL GERMANY AG, DE
[85] 2020-03-09
[86] 2018-09-25 (PCT/EP2018/075957)
[87] (WO2019/063541)
[30] DE (10 2017 122 734.2) 2017-09-29

[11] **3,077,386**
[13] C
[51] **Int.Cl. B42D 25/346 (2014.01) B42D 25/24 (2014.01) B42D 25/305 (2014.01) B42D 25/351 (2014.01) B42D 25/355 (2014.01) B42D 13/00 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN SECURITY SHEETS COMPRISING SECURITY ELEMENTS**
[54] **PERFECTIONNEMENTS APPORTES A DES FEUILLES DE SECURITE COMPRENANT DES ELEMENTS DE SECURITE**
[72] SUGDON, MATTHEW, GB
[72] QUAINTON, SIMON, GB
[72] MELZER, ARNDT, DE
[73] DE LA RUE INTERNATIONAL LIMITED, GB
[73] MELZER MASCHINENBAU GMBH, DE
[85] 2020-03-30
[86] 2018-09-24 (PCT/EP2018/075834)
[87] (WO2019/068498)
[30] GB (1716160.5) 2017-10-04

[11] **3,077,555**
[13] C
[51] **Int.Cl. G01N 29/04 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR EFFICIENTLY REVIEWING WELD SCAN DATA BY A WELD INSPECTOR**
[54] **SYSTEME ET METHODE POUR EXAMINER EFFICACEMENT LES DONNEES DU BALAYAGE D`UNE SOUDURE PAR UN INSPECTEUR DE SOUDURE**
[72] DAVIS, JOHN MARK, US
[72] COBBS, ARCHIBALD LEACH, US
[72] DAVIS, SAMUEL MATTHEW, US
[72] HANSEN, CHARLES ALLAN, US
[73] VERIPHASE, INC., US
[86] (3077555)
[87] (3077555)
[22] 2020-03-31

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[11] **3,078,326**
[13] C
[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
[73] ARCELORMITTAL, LU
[85] 2020-04-02
[86] 2018-12-11 (PCT/IB2018/059853)
[87] (WO2019/116211)
[30] IB (PCT/IB2017/001537) 2017-12-11

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[11] **3,084,150**
[13] C
[51] **Int.Cl. G06F 16/9038 (2019.01) H04N 21/458 (2011.01) G06F 16/438 (2019.01)**
[25] EN
[54] **RANKING SEARCH RESULTS**
[54] **CLASSEMENT DE RESULTATS DE RECHERCHE**
[72] SUSLOV, SERGEI, US
[73] COMCAST CABLE COMMUNICATIONS, LLC, US
[86] (3084150)
[87] (3084150)
[22] 2011-05-31
[62] 2,742,061
[30] US (61/350,185) 2010-06-01
[30] US (13/115,641) 2011-05-25

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[11] **3,087,454**
[13] C
[51] **Int.Cl. B60K 1/04 (2019.01)**
[25] EN
[54] **LOCK MECHANISM, LOCK SYSTEM, QUICK EXCHANGE BRACKET ASSEMBLY AND ELECTRONIC VEHICLE**
[54] **MECANISME DE VERROUILLAGE, SYSTEME DE VERROUILLAGE, ENSEMBLE SUPPORT D'ECHANGE RAPIDE ET VEHICULE ELECTRONIQUE**
[72] ZHANG, JIANPING, CN
[72] HUANG, CHUNHUA, CN
[72] LAN, ZHIBO, CN
[73] SHANGHAI DIANBA NEW ENERGY TECHNOLOGY CO., LTD., CN
[73] AULTON NEW ENERGY AUTOMOTIVE TECHNOLOGY GROUP, CN
[85] 2020-06-26
[86] 2018-12-29 (PCT/CN2018/125688)
[87] (WO2019/129288)
[30] CN (201711486906.9) 2017-12-29
[30] CN (201711482898.0) 2017-12-29

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[11] **3,101,140**
[13] C
[51] **Int.Cl. B27B 29/00 (2006.01)**
[25] EN
[54] **LOG DOG AND ADJUSTABLE LOG DOG SET BAR ASSEMBLY**
[54] **GRIFFE DE SERRAGE ET ENSEMBLE DE BARRE DE REGLAGE POUR GRIFFE DE SERRAGE REGLABLE**
[72] CABRIT, SEBASTIEN, CA
[73] NORWOOD INDUSTRIES INC., CA
[86] (3101140)
[87] (3101140)
[22] 2020-11-30

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[11] **3,104,501**
[13] C
[51] **Int.Cl. A47L 11/30 (2006.01) A47L 5/30 (2006.01) A47L 7/00 (2006.01) A47L 9/00 (2006.01) A47L 9/28 (2006.01) A47L 11/34 (2006.01)**
[25] EN
[54] **SURFACE CLEANING APPARATUS**
[54] **APPAREIL DE NETTOYAGE DE SURFACE**
[72] RESCH, JACOB, US
[72] BOLES, JACOB S., US
[73] BISSELL INC., US
[86] (3104501)
[87] (3104501)
[22] 2020-01-07
[62] 3,066,796
[30] US (62/789,661) 2019-01-08

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[11] **3,105,572**
[13] C
[51] **Int.Cl. G01S 19/13 (2010.01) G01S 19/34 (2010.01) H04W 4/80 (2018.01) G08B 23/00 (2006.01) H04B 7/15 (2006.01)**
[25] EN
[54] **TRACKING DEVICE AND SYSTEM**
[54] **DISPOSITIF ET SYSTEME DE SUIVI**
[72] SMITH, RYAN, CA
[72] GUTIERREZ, SALOMON, CA
[72] RIOPEL, JASON, CA
[73] SMITH, RYAN, CA
[73] GUTIERREZ, SALOMON, CA
[73] RIOPEL, JASON, CA
[86] (3105572)
[87] (3105572)
[22] 2021-01-13

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[11] **3,106,896**
[13] C
[51] **Int.Cl. A61G 9/00 (2006.01)**
[25] EN
[54] **BEDPAN ASSEMBLY WITH LINER ATTACHMENTS**
[54] **ENSEMBLE BASSIN HYGIENIQUE DOTE DE FIXATIONS DE DOUBLURE**
[72] MARSHALL, MICHELLE, US
[73] NEOWE RESEARCH AND DEVELOPMENT, INC., US
[85] 2021-01-18
[86] 2019-07-18 (PCT/US2019/042395)
[87] (WO2020/018786)
[30] US (62/699,783) 2018-07-18
[30] US (62/810,031) 2019-02-25

[11] **3,109,407**
[13] C
[51] **Int.Cl. E21B 33/13 (2006.01) E21B 29/08 (2006.01) E21B 43/10 (2006.01)**
[25] EN
[54] **DUEL END FIRING EXPLOSIVE COLUMN TOOLS AND METHODS FOR SELECTIVELY EXPANDING A WALL OF A TUBULAR**
[54] **OUTILS DE COLONNE A DOUBLE EXTREMITE DE MISE A FEU D'EXPLOSIF ET PROCEDES D'EXPANSION SELECTIVE D'UNE PAROI DE MATERIEL TUBULAIRE**
[72] RAIRIGH, JAMES G., US
[73] RAIRIGH, JAMES G., US
[85] 2021-02-09
[86] 2019-08-15 (PCT/US2019/046692)
[87] (WO2020/037143)
[30] US (62/764,857) 2018-08-16

[11] **3,111,709**
[13] C
[51] **Int.Cl. A24B 15/28 (2006.01) A24B 15/16 (2020.01)**
[25] EN
[54] **COMPOSITION**
[54] **COMPOSITION**
[72] NARASIMHAN, ASHOK S., GB
[72] MCCAGUE, RAYMOND, GB
[72] HYDE, NICHOLAS, GB
[72] JACKSON, WILLIAM, GB
[73] ZANOPRIMA LIFESCIENCES LIMITED, GB
[85] 2021-03-09
[86] 2019-10-23 (PCT/EP2019/078957)
[87] (WO2020/084024)
[30] EP (18202355.6) 2018-10-24
[30] EP (19175946.3) 2019-05-22

[11] **3,117,719**
[13] C
[51] **Int.Cl. B62D 55/065 (2006.01) B66F 19/00 (2006.01)**
[25] EN
[54] **OMNIWHEEL TRACK SYSTEM AND PLATFORM USING THE SAME**
[54] **SYSTEME DE PISTE A ROUES OMNIDIRECTIONNELLES ET PLATEFORME UTILISANT CELUI-CI**
[72] ROY, RAPHAEL, CA
[72] BOITEAU, BENJAMIN, CA
[72] ROUSSEL, VINCENT, CA
[72] LABBE, VINCENT, CA
[73] GESTION INOGEC INC., CA
[85] 2021-04-23
[86] 2019-10-25 (PCT/CA2019/051513)
[87] (WO2020/082185)
[30] US (62/750,581) 2018-10-25
[30] US (62/858,037) 2019-06-06

[11] **3,121,651**
[13] C
[51] **Int.Cl. G10L 19/04 (2013.01)**
[25] EN
[54] **MODEL BASED PREDICTION IN A CRITICALLY SAMPLED FILTERBANK**
[54] **PREDICTION MODELISEE DANS UN BANC DE FILTRES A ECHANTILLONNAGE CRITIQUE**
[72] VILLEMOES, LARS, SE
[73] DOLBY INTERNATIONAL AB, NL
[86] (3121651)
[87] (3121651)
[22] 2014-01-07
[62] 3,092,138
[30] US (61/750052) 2013-01-08
[30] US (61/875528) 2013-09-09

[11] **3,121,801**
[13] C
[51] **Int.Cl. B65G 47/53 (2006.01) B65G 13/02 (2006.01) B65G 15/50 (2006.01) B65G 39/00 (2006.01) B65G 47/54 (2006.01) B65G 47/64 (2006.01)**
[25] EN
[54] **LEVEL RIGHT ANGLE TRANSFER MODULE**
[54] **MODULE DE TRANSFERT D'ANGLE DROIT DE NIVEAU**
[72] KAROL, TOM, US
[72] KHAN, IKRAM, US
[72] CARR, DARIAN, US
[72] STEELE, RICHARD, US
[73] CORNERSTONE AUTOMATION SYSTEMS, LLC, US
[85] 2021-06-01
[86] 2019-12-13 (PCT/US2019/066365)
[87] (WO2020/124027)
[30] US (62/779,214) 2018-12-13
[30] US (16/714,261) 2019-12-13

[11] **3,121,806**
[13] C
[51] **Int.Cl. B65G 1/133 (2006.01) B65G 1/04 (2006.01) B65G 67/28 (2006.01)**
[25] EN
[54] **COLLAPSIBLE PRODUCT MOVER**
[54] **DISPOSITIF DE DEPLACEMENT DE PRODUITS PLIABLE**
[72] KAROL, TOM, US
[72] STEELE, RICHARD, US
[72] CARR, DARIAN, US
[72] KHAN, IKRAM, US
[72] O'BRIEN, BEN, US
[72] BELLAR, JASON, US
[73] CORNERSTONE AUTOMATION SYSTEMS, LLC, US
[85] 2021-06-01
[86] 2019-12-13 (PCT/US2019/066390)
[87] (WO2020/124042)
[30] US (62/779,218) 2018-12-13
[30] US (16/714,513) 2019-12-13

[11] **3,122,878**
[13] C
[51] **Int.Cl. E04B 2/88 (2006.01) E04G 21/14 (2006.01) F16B 1/00 (2006.01) F16B 5/00 (2006.01) F16S 1/02 (2006.01)**
[25] EN
[54] **ALIGNMENT ASSEMBLY FOR PANELS**
[54] **ENSEMBLE D'ALIGNEMENT POUR PANNEAUX**
[72] STRICKLAND, MICHAEL R., CA
[73] INVENT TO BUILD INC., CA
[85] 2021-06-08
[86] 2020-01-24 (PCT/CA2020/050089)
[87] (WO2020/150836)
[30] US (62/796,466) 2019-01-24

Canadian Applications Open to Public Inspection

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2 janvier 2022 au 8 janvier 2022

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[21] **3,085,252**
[13] A1
[51] **Int.Cl. C07K 19/00 (2006.01) A61K 47/68 (2017.01) A61P 3/00 (2006.01) A61P 9/00 (2006.01) C07K 14/50 (2006.01) C07K 14/575 (2006.01) C07K 14/605 (2006.01) C07K 16/00 (2006.01) C12N 15/62 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **DUAL-FUNCTION PROTEIN FOR LIPID AND BLOOD GLUCOSE REGULATION**
[54] **PROTEINE A DOUBLE FONCTION POUR LA REGULATION DE LA GLYCEMIE ET DES LIPIDES**
[72] DONG, ZHAO, CN
[72] ZHOU, CHI, CN
[72] FENG, XIONG, CN
[72] ZHANG, JIYU, CN
[72] JIA, SHIXIANG, CN
[72] LI, QIANG, CN
[71] AMPSOURCE BIOTECH (SHANGHAI) INC., CN
[22] 2020-07-02
[41] 2022-01-02

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[21] **3,085,254**
[13] A1
[51] **Int.Cl. G01N 15/02 (2006.01) G01N 21/71 (2006.01)**
[25] EN
[54] **LASER-INDUCED BREAKDOWN SPECTROSCOPY FOR DETERMINING A PROPERTY OF AN OIL SANDS ORE SAMPLE**
[54] **SPECTROSCOPIE PAR CLAQUAGE LASER POUR DETERMINER UNE CARACTERISTIQUE D'UN ECHANTILLON DE MINERAI DE SABLES BITUMINEUX**
[72] HARHIRA, AISSA, CA
[72] PAPROSKI, RICHARD, CA
[72] EL HADDAD, JOSETTE, CA
[72] SABSABI, MOHAMAD, CA
[72] BLOUIN, ALAIN, CA
[71] SYNCRUDE CANADA LTD., CA
[71] NATIONAL RESEACH COUNCIL OF CANADA, CA
[22] 2020-07-02
[41] 2022-01-02

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[21] **3,085,256**
[13] A1
[51] **Int.Cl. G01R 19/00 (2006.01) G01R 15/20 (2006.01) H02H 9/04 (2006.01)**
[25] EN
[54] **A DEVICE BASED ON A HALL EFFECT ELEMENT FOR DETECTING LIGHTNING-INDUCED TRANSIENT VOLTAGE SURGES IN COMMUNICATION AND SIGNALLING LOOPS**
[54] **DISPOSITIF AXE SUR UN ELEMENT D'EFFET HALL POUR DETECTER LES SURTENSIONS TRANSITOIRES PROVOQUEES PAR LA FOUDRE DANS LES BOUCLES DE COMMUNICATION ET DE SIGNALEMENT**
[72] JARONCZYK, CEZARY CJ, CA
[71] JARONCZYK, CEZARY CJ, CA
[22] 2020-07-02
[41] 2022-01-02

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[21] **3,085,258**
[13] A1
[51] **Int.Cl. B65D 90/00 (2006.01) B08B 9/08 (2006.01)**
[25] EN
[54] **A TANK TOOL FOR A TANK HAVING ONE OR MORE FLUIDS AND PROCESSES PERFORMED USING THE TANK TOOL**
[54] **OUTIL POUR UN RESERVOIR CONTENANT UN OU PLUSIEURS FLUIDES ET PROCEDES REALISES AU MOYEN DE L'OUTIL DE RESERVOIR**
[72] GIBBS, PAUL, US
[71] GIBBS, PAUL, US
[22] 2020-07-02
[41] 2022-01-02

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[21] **3,085,262**
[13] A1
[51] **Int.Cl. E03F 5/16 (2006.01) B01D 17/028 (2006.01) C02F 1/40 (2006.01)**
[25] EN
[54] **AN AUXILIARY BAFFLE FOR A GREASE INTERCEPTOR AND A GREASE INTERCEPTOR INCORPORATING THE SAME**
[54] **CHICANE AUXILIAIRE POUR UN SEPARATEUR DE GRAISSE, ET SEPARATEUR DE GRAISSE L'INTEGRANT**
[72] MEHER, JACK R., CA
[72] BEAULIEU, RACHEL C. E., CA
[72] MANTYLA, JAMES B., CA
[71] CANPLAS INDUSTRIES LTD., CA
[22] 2020-07-02
[41] 2022-01-02

[21] **3,085,278**
[13] A1
[51] **Int.Cl. A63B 69/00 (2006.01)**
[25] EN
[54] **HOCKEY GOALIE AND PLAYER ANGLE TRAINING SYSTEM**
[54] **SYSTEME D'ENTRAINEMENT AUX ANGLES POUR LES GARDIENS DE BUT ET LES JOUEURS DE HOCKEY**
[72] LIESER, RYAN, CA
[71] LIESER, RYAN, CA
[22] 2020-07-02
[41] 2022-01-02

[21] **3,085,287**
[13] A1
[51] **Int.Cl. F16L 59/14 (2006.01) F16L 11/20 (2006.01) F16L 59/06 (2006.01) F16L 59/12 (2006.01)**
[25] EN
[54] **GAS INSULATED TUBING**
[54] **TUBAGE ISOLE PAR GAZ**
[72] SAYED, AMR MOHAMED, CA
[71] SUNCOR ENERGY INC., CA
[22] 2020-07-02
[41] 2022-01-02

[21] **3,085,579**
[13] A1
[51] **Int.Cl. A62D 3/176 (2007.01) B01J 19/12 (2006.01) C02F 1/32 (2006.01)**
[25] EN
[54] **DECONTAMINATION REACTOR FOR FLUID PURIFICATION**
[54] **REACTEUR DE DECONTAMINATION POUR L'EPURATION DE FLUIDE**
[72] NEITZ, DEAN R., CA
[72] SCHUETZ, REINHARD, CA
[71] TI-DOX PATENT LTD., CA
[22] 2020-07-03
[41] 2022-01-03

[21] **3,085,665**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2012.01) G06Q 30/02 (2012.01) G06Q 30/00 (2012.01) G06Q 50/00 (2012.01)**
[25] EN
[54] **SUSTAINABILITY MANAGEMENT SYSTEM**
[54] **SYSTEME DE GESTION DE LA DURABILITE**
[72] SAXENA, ADITYA, CA
[71] SAXENA, ADITYA, CA
[22] 2020-07-04
[41] 2022-01-04

[21] **3,085,698**
[13] A1
[51] **Int.Cl. H02S 20/22 (2014.01) H02S 30/00 (2014.01) B44F 9/00 (2006.01) E04D 13/18 (2018.01) G02B 1/11 (2015.01) H01L 31/02 (2006.01)**
[25] EN
[54] **BUILDING-INTEGRATED PHOTOVOLTAIC SYSTEM**
[54] **SYSTEME PHOTOVOLTAIQUE INTEGRE AU BATIMENT**
[72] HADIZADEH, DANIAL, CA
[71] MITREX INC., CA
[22] 2020-07-06
[41] 2022-01-06

[21] **3,085,707**
[13] A1
[51] **Int.Cl. H04L 12/16 (2006.01) H04L 9/14 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DEDICATED STORAGE, THROUGH A SECURE INTERNET CONNECTION, IN A REMOTE LOCATION**
[54] **SYSTEME ET METHODE DE STOCKAGE DEDIE AU MOYEN D'UNE CONNEXION INTERNET SECURISEE DANS UN LIEU ELOIGNE**
[72] HOFFMAN, JEFFREY ROBERT, US
[72] KUNZ, THOMAS EUGENE, US
[72] GRIBBIN, LANCE, US
[71] THE ANTI-CLOUD CORPORATION, US
[22] 2020-07-06
[41] 2022-01-06

[21] **3,085,724**
[13] A1
[51] **Int.Cl. A45F 3/16 (2006.01) A47K 10/32 (2006.01) B65D 83/00 (2006.01)**
[25] EN
[54] **WET-WIPE DISPENSING WATER BOTTLE**
[54] **BOUTEILLE D'EAU DISTRIBUTRICE DE SERVIETTES HUMIDES**
[72] WATSON, ROBERT, CA
[71] WATSON, ROBERT, CA
[22] 2020-07-06
[41] 2022-01-06

[21] **3,085,792**
[13] A1
[51] **Int.Cl. A61F 5/14 (2006.01)**
[25] EN
[54] **ORTHOSIS WITH TEXTURED SURFACE**
[54] **ORTHESE A SURFACE TEXTUREE**
[72] ROBB, KELLY, CA
[71] ROBB, KELLY, CA
[22] 2020-07-03
[41] 2022-01-03

[21] **3,085,831**
[13] A1
[51] **Int.Cl. A42B 1/24 (2021.01) A42B 1/004 (2021.01)**
[25] EN
[54] **A HAT WITH A REMOVABLE AND REPLACEABLE MAGNETIC POMPOM**
[54] **CHAPEAU COMPORTANT UN POMPON AMOVIBLE ET REMPLACABLE**
[72] LAFOSSE, ARNAUD AL, US
[71] LAFOSSE, ARNAUD AL, US
[22] 2020-07-07
[41] 2022-01-07

[21] **3,085,871**
[13] A1
[51] **Int.Cl. A47L 13/20 (2006.01)**
[25] EN
[54] **A MOP**
[54] **BALAI A LAVER**
[72] ADEM, DAWIT, CA
[71] ADEM, DAWIT, CA
[22] 2020-07-07
[41] 2022-01-07

[21] **3,085,882**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2012.01)**
[25] EN
[54] **PROACTIVE AGGREGATED HAZARD MANAGEMENT**
[54] **GESTION PROACTIVE DES DANGERS REGROUPES**
[72] CLARKE, MAURICE C., CA
[71] CLARKE, MAURICE C., CA
[22] 2020-07-06
[41] 2022-01-06

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[21] **3,085,884**
[13] A1
[51] **Int.Cl. A01G 9/14 (2006.01) A01G 31/00 (2018.01) A01G 31/06 (2006.01)**
[25] EN
[54] **VERTICAL FARM WITH REVOLVING CAROUSEL**
[54] **FERME VERTICALE A CARROUSEL**
[72] MIZERIT, BRANKO, CA
[71] MIZERIT, BRANKO, CA
[22] 2020-07-06
[41] 2022-01-06

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[21] **3,085,887**
[13] A1
[51] **Int.Cl. B60B 19/00 (2006.01) B60G 99/00 (2010.01) B60G 17/00 (2006.01) B60S 9/00 (2006.01)**
[25] EN
[54] **WHEEL ASSEMBLIES, APPARATUSES, AND RELATED METHODS FOR A KNEELING VEHICLE OR TRAILER CHASSIS**
[54] **ASSEMBLAGES DE ROUES, APPAREILS ET METHODES CONNEXES D'UN CHASSIS DE VEHICULE A AGENOUILLEMENT OU DE REMORQUE**
[72] FROLAND, ANDREW P., CA
[71] FROLAND, ANDREW P., CA
[22] 2020-07-06
[41] 2022-01-06

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[21] **3,085,894**
[13] A1
[51] **Int.Cl. A47K 5/12 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND APPARATUS FOR DISPENSING A HAND CLEANING LIQUID**
[54] **SYSTEMES, METHODES ET APPAREILS POUR DISTRIBUER UN LIQUIDE DE NETTOYANT POUR LES MAINS**
[72] DHESI, RAJWINDER K., CA
[71] DHESI, RAJWINDER K., CA
[22] 2020-07-06
[41] 2022-01-06

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[21] **3,085,911**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2012.01) G16H 10/20 (2018.01) G16H 40/20 (2018.01) G06F 40/20 (2020.01) G06F 17/40 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD OF DATA COLLECTION AND PERFORMANCE ANALYSIS IN A DENTAL OFFICE**
[54] **SYSTEME ET METHODE DE COLLECTE DE DONNEES ET D'ANALYSE DU RENDEMENT DANS UN BUREAU DE DENTISTE**
[72] ERGUS, KAREN A., CA
[71] ERGUS, KAREN A., CA
[22] 2020-07-06
[41] 2022-01-06

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[21] **3,086,124**
[13] A1
[51] **Int.Cl. H02N 11/00 (2006.01)**
[25] EN
[54] **OVERUNITY GENERATOR**
[54] **GENERATEUR DE SUR-UNITE**
[72] MOLSON, GEORGE P., CA
[71] MOLSON, GEORGE P., CA
[22] 2020-07-08
[41] 2022-01-08

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[21] **3,086,133**
[13] A1
[51] **Int.Cl. E04G 21/16 (2006.01) B25H 1/00 (2006.01) F16M 13/00 (2006.01)**
[25] EN
[54] **BATTER BOARD STICK**
[54] **BATON DE CHAISE**
[72] JONES, NATHAN, CA
[71] JONES, NATHAN, CA
[22] 2020-07-08
[41] 2022-01-08

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[21] **3,086,134**
[13] A1
[51] **Int.Cl. B60D 1/42 (2006.01) B60D 1/48 (2006.01)**
[25] EN
[54] **CONNECTOR SYSTEM FOR MOBILE MACHINERY**
[54] **SYSTEME DE CONNECTEUR POUR DES MACHINES MOBILES**
[72] MOLLICK, PETER J., US
[71] MOLLICK, PETER J., US
[22] 2020-07-08
[41] 2022-01-08

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[21] **3,086,141**
[13] A1
[51] **Int.Cl. B60P 7/08 (2006.01) F16G 11/00 (2006.01)**
[25] EN
[54] **TIE DOWN ANCHOR FOR PICKUP TRUCK**
[54] **DISPOSITIF D'ARRIMAGE POUR CAMIONNETTE**
[72] GOEBEL, STEVE, US
[71] BESTOP BULLRING, LLC, US
[22] 2020-07-09
[41] 2022-01-06
[30] US (16921902) 2020-07-06

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[21] **3,086,144**
[13] A1
[51] **Int.Cl. F16L 59/14 (2006.01) E04B 1/74 (2006.01) E04B 1/94 (2006.01) F16L 59/12 (2006.01)**
[25] EN
[54] **JACKETED INSULATION WITH EMBEDDED STEEL MESH**
[54] **ISOLATION CHEMISEE A MAILLAGE D`ACIER ENCASTRE**
[72] WHITTY, LARRY M., CA
[71] WHITTY, LARRY M., CA
[22] 2020-07-08
[41] 2022-01-08

[21] **3,086,346**
[13] A1
[51] **Int.Cl. C04B 26/02 (2006.01) B28C 5/00 (2006.01) C04B 18/20 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING SUBGRADE UTILITY VAULTS, LIDS AND TRENCHES USING RECYCLED POLYSTYRENE**
[54] **METHODE DE FABRICATION DE CHAMBRE DE SERVICE EN COUCHE DE FORME, DE COUVERCLES ET DE TRANCHEES AU MOYEN DE POLYSTYRENE RECYCLE**
[72] LEBLANC, CHARLES, CA
[71] OLDCASTLE INFRASTRUCTURE, INC., US
[22] 2020-07-09
[41] 2022-01-07
[30] US (63/049,014) 2020-07-07

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[21] **3,086,704**
[13] A1
[51] **Int.Cl. A41C 3/06 (2006.01)**
[25] EN
[54] **A REVERSIBLY WEARABLE WINGED BRA**
[54] **SOUTIEN-GORGE REVERSIBLE**
[72] KARON, HYLTON, CA
[71] COCONUT GROVE PADS, INC., CA
[22] 2020-07-13
[41] 2022-01-07
[30] US (16/922,359) 2020-07-07

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[21] **3,086,905**
[13] A1
[51] **Int.Cl. G01R 31/34 (2020.01) H02P 25/24 (2006.01)**
[25] EN
[54] **SYSTEM AND METHODS OF FAILURE PREDICTION AND PREVENTION FOR ROTATING ELECTRICAL MACHINERY**
[54] **SYSTEME ET METHODES DE PREVISION ET DE PREVENTION DES DEFAILLANCES DE MACHINES ELECTRIQUES ROTATIVES**
[72] BADKOUBEH, AMIR, CA
[71] AB COGNITIVE SYSTEMS INC., CA
[22] 2020-07-15
[41] 2022-01-02
[30] US (16/920,169) 2020-07-02

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[21] **3,088,936**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23L 13/00 (2016.01) A23L 19/00 (2016.01) A01H 6/34 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/08 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **CUCUMBER VARIETY NUN 83067 CUL**
[54] **CONCOMBRE DE VARIETE NUN 83067 CUL**
[72] SWINKELS, ROBERT, NL
[71] NUNHEMS B.V., NL
[22] 2020-08-04
[41] 2022-01-02
[30] US (16/919542) 2020-07-02

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[21] **3,099,595**
[13] A1
[51] **Int.Cl. A47B 97/00 (2006.01) A47B 96/04 (2006.01) F16P 1/02 (2006.01)**
[25] EN
[54] **MODULAR COUNTERTOP SHIELD**
[54] **PROTECTION MODULAIRE DE COMPTOIR**
[72] ROSE, BRENT LORENZ, US
[72] METTLER, DEAN, US
[71] EXTANG CORPORATION, US
[22] 2020-11-18
[41] 2022-01-08
[30] US (16/923,500) 2020-07-08

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[21] **3,102,673**
[13] A1
[51] **Int.Cl. A24C 5/00 (2020.01) A24C 5/36 (2006.01)**
[25] EN
[54] **SELF-CLEANING CIGARETTE MANUFACTURING MACHINE**
[54] **MACHINE DE FABRICATION DE CIGARETTES AUTONETTOYANTE**
[72] MUNAWAR, SAJID, US
[72] MUNAWAR, RASHAD, US
[71] MUNAWAR, SAJID, US
[22] 2020-12-14
[41] 2022-01-06
[30] US (16/921618) 2020-07-06

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[21] **3,108,014**
[13] A1
[51] **Int.Cl. A61F 5/042 (2006.01) A47C 7/38 (2006.01) A47G 9/10 (2006.01) A61F 5/048 (2006.01)**
[25] EN
[54] **INFLATABLE NECK TRACTION DEVICE**
[54] **DISPOSITIF DE MOUVEMENT DU COU GONFLABLE**
[72] HO, HOI MING MICHAEL, CN
[71] HO, HOI MING MICHAEL, CN
[22] 2021-02-03
[41] 2022-01-03
[30] CN (202010631822.5) 2020-07-03
[30] CN (202011467755.4) 2020-12-14

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[21] **3,108,463**
[13] A1
[51] **Int.Cl. A61F 5/01 (2006.01) A61F 5/34 (2006.01) A61N 1/18 (2006.01)**
[25] EN
[54] **BODY JOINT SUPPORT DEVICE WITH INFLATABLE AIRBAG, ELECTRODE OR BOTH**
[54] **DISPOSITIF DE SUPPORT DE JOINT DE CORPS AVEC COUSSIN GONFLABLE, UNE ELECTRODE OU LES DEUX**
[72] HO, HOI MING MICHAEL, HK
[71] HO, HOI MING MICHAEL, HK
[22] 2021-02-09
[41] 2022-01-03
[30] CN (202010631822.5) 2020-07-03

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[21] **3,110,989**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01) A47G 29/30 (2006.01) E05G 1/08 (2006.01)**
[25] EN
[54] **SYSTEM FOR PARCEL TRANSPORT AND TRACKING OPERATED RESPONSIVE TO DATA BEARING RECORDS**
[54] **SYSTEME DE TRANSPORT DE COLIS ET SUIVI EXPLOITE EN REPONSE A DES DOSSIERS CONTENANT DES DONNEES**
[72] REDFERN, DARREN, CA
[72] ESTILL, JIM, CA
[71] SHIPPERBEE, INC., CA
[22] 2021-03-03
[41] 2022-01-07
[30] US (63/048,737) 2020-07-07

[21] **3,110,992**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01) A47G 29/30 (2006.01) E05G 1/08 (2006.01)**
[25] EN
[54] **SYSTEM FOR PARCEL TRANSPORT AND TRACKING OPERATED RESPONSIVE TO DATA BEARING RECORDS**
[54] **SYSTEME DE TRANSPORT DE COLIS ET SUIVI EXPLOITE EN REPONSE A DES DOSSIERS CONTENANT DES DONNEES**
[72] REDFERN, DARREN, CA
[72] ESTILL, JIM, CA
[71] SHIPPERBEE, INC., CA
[22] 2021-03-03
[41] 2022-01-07
[30] US (63/048,712) 2020-07-07

[21] **3,115,628**
[13] A1
[51] **Int.Cl. G09F 3/02 (2006.01) C09J 7/20 (2018.01)**
[25] EN
[54] **LABEL SHEET ASSEMBLY WITH PUNCTURE SURFACE FEATURES**
[54] **ASSEMBLAGE DE FEUILLE D'ETIQUETTES AVEC CARACTERISTIQUES DE SURFACE DE PERFORATION**
[72] SHURTLIFFE, LAURA, CA
[72] CAPOBIANCO, ANGELO, CA
[71] CCL LABEL, INC., US
[22] 2021-04-20
[41] 2022-01-02
[30] US (63/047,357) 2020-07-02

[21] **3,116,430**
[13] A1
[51] **Int.Cl. E02F 3/88 (2006.01) E02F 3/92 (2006.01)**
[25] EN
[54] **HYDRO EXCAVATION REMOTE DIG SYSTEM**
[54] **SYSTEME ELOIGNE D'EXCAVATION A L'EAU**
[72] BRONERSKY, BART, US
[71] BRONERSKY, BART, US
[22] 2021-04-28
[41] 2022-01-06
[30] US (16921668) 2020-07-06

[21] **3,117,067**
[13] A1
[51] **Int.Cl. B65D 5/50 (2006.01) B65D 5/16 (2006.01) B65D 85/88 (2006.01)**
[25] EN
[54] **VISIBILITY PACKAGING FOR ENERGY STORAGE ELEMENTS**
[54] **EMBALLAGE DE VISIBILITE POUR DES ELEMENTS DE STOCKAGE D'ENERGIE**
[72] HESSEL, OTTO, DE
[72] KOHNLEIN, DIETMAR, DE
[72] REGNER, WERNER, DE
[71] VARTA MICROBATTERY GMBH, DE
[22] 2021-05-03
[41] 2022-01-02
[30] EP (20183715.0) 2020-07-02

[21] **3,117,810**
[13] A1
[51] **Int.Cl. B67D 3/00 (2006.01) A01K 7/00 (2006.01) C02F 1/28 (2006.01) A01K 31/00 (2006.01)**
[25] EN
[54] **FLUID DISPENSER**
[54] **DISTRIBUTEUR DE FLUIDE**
[72] MRAVIK, RICHARD, CA
[71] MRAVIK, RICHARD, CA
[22] 2021-05-11
[41] 2022-01-02
[30] US (63/047,653) 2020-07-02

[21] **3,118,347**
[13] A1
[51] **Int.Cl. G02C 1/08 (2006.01) G02C 5/14 (2006.01)**
[25] EN
[54] **EYEGLASSES WITH INTERCHANGEABLE LENSES**
[54] **LUNETTES A LENTILLES INTERCHANGEABLES**
[72] DONA, CHRISTIAN, IT
[72] LAZZARO, FRANCESCO, IT
[71] SAFILO - SOCIETA AZIONARIA FABBRICA ITALIANA LAVORAZIONE OCCHIALI S.P.A., IT
[22] 2021-05-12
[41] 2022-01-08
[30] IT (102020000016537) 2020-07-08

[21] **3,118,781**
[13] A1
[51] **Int.Cl. F16D 3/06 (2006.01) F16D 1/112 (2006.01) F16N 1/00 (2006.01)**
[25] EN
[54] **INNER SPLINE WITH TOP LAND DRAINAGE HOLE**
[54] **CANNELURE INTERIEURE AVEC TROU D`ECOULEMENT EN SOMMET**
[72] HARVEY, DANIEL, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-05-14
[41] 2022-01-07
[30] US (16/923,048) 2020-07-07

[21] **3,119,020**
[13] A1
[51] **Int.Cl. G01N 23/04 (2018.01) B64F 5/60 (2017.01)**
[25] EN
[54] **SYSTEM AND METHODS FOR GENERATING AN INSPECTION IMAGE OF AN OBJECT FROM RADIOGRAPHIC IMAGING**
[54] **SYSTEME ET METHODES DE GENERATION D'UNE IMAGE D'INSPECTION D'UN OBJET A PARTIR D'IMAGERIE RADIOGRAPHIQUE**
[72] BYERS, JUSTIN, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-05-18
[41] 2022-01-02
[30] US (16/919,773) 2020-07-02

[21] **3,119,278**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 50/30 (2012.01) A47G 29/30 (2006.01) E05B 47/00 (2006.01) E05G 1/02 (2006.01) E05G 1/026 (2006.01)**
[25] EN
[54] **SYSTEM FOR PARCEL TRANSPORT AND TRACKING OPERATED RESPONSIVE TO DATA BEARING RECORDS**
[54] **SYSTEME DE TRANSPORT DE COLIS ET SUIVI EXPLOITE EN REPONSE A DES DOSSIERS CONTENANT DES DONNEES**
[72] ESTILL, JIM, CA
[72] MCLEAN, PAUL, CA
[71] SHIPPERBEE, INC., CA
[22] 2021-05-20
[41] 2022-01-02
[30] US (63/047,591) 2020-07-02

[21] **3,119,642**
[13] A1
[51] **Int.Cl. G06K 19/073 (2006.01) H04W 4/02 (2018.01) G06Q 20/34 (2012.01) G06Q 20/38 (2012.01) H04W 12/63 (2021.01)**
[25] EN
[54] **SECURITY DEVICES, SYSTEMS, AND METHODS FOR DYNAMIC TRANSACTION CARDS**
[54] **DISPOSITIFS DE SECURITE, SYSTEMES ET METHODES POUR DES CARTES DE TRANSACTION DYNAMIQUES**
[72] ZARAKAS, JAMES, US
[72] JOHNSON, MOLLY, US
[72] VUKICH, ADAM, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2021-05-26
[41] 2022-01-02
[30] US (16/919,615) 2020-07-02

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[21] **3,120,315**
[13] A1
[51] **Int.Cl. G06T 19/00 (2011.01) G06T 7/80 (2017.01) G06T 5/50 (2006.01)**
[25] EN
[54] **TECHNIQUES FOR FACIAL APPEARANCE CAPTURE**
[54] **TECHNIQUES DE CAPTURE DE L'APPARENCE DU VISAGE**
[72] GOTARDO, PAULO URNAU, US
[72] GHOSH, ABHIJEET, US
[72] BRADLEY, DEREK EDWARD, US
[72] BEELER, DOMINIK THABO, US
[72] RIVIERE, JEREMY, US
[71] DISNEY ENTERPRISES, INC., US
[22] 2021-06-01
[41] 2022-01-02
[30] US (16/920,344) 2020-07-02

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[21] **3,120,587**
[13] A1
[51] **Int.Cl. B01D 3/16 (2006.01) B01D 3/32 (2006.01)**
[25] EN
[54] **EMERGENCY DISTILLATION COLUMN AND USE THEREFOF**
[54] **COLONNE DE DISTILLATION D'URGENCE ET UTILISATION CONNEXE**
[72] GALLO, FRANCESCO, IT
[72] PELIS, OSCAR, IT
[72] QUAGLIA, ALLESSANDRO, IT
[72] ROLDI, ALDO, IT
[71] ITELYUM REGENERATION S.R.L., IT
[22] 2021-06-02
[41] 2022-01-03
[30] IT (102020000016126) 2020-07-03

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[21] **3,120,598**
[13] A1
[51] **Int.Cl. A01K 15/04 (2006.01) A01K 27/00 (2006.01) G08C 17/02 (2006.01) H01Q 7/00 (2006.01) H04B 1/16 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND APPARATUS FOR ESTABLISHING KEEP OUT ZONES WITHIN WIRELESS CONTAINMENT REGIONS**
[54] **SYSTEMES, METHODES ET APPAREIL POUR ETABLIR DES ZONES INTERDITES A L'INTERIEUR DE REGIONS DE CONFINEMENT SANS FIL**
[72] SELTZER, RICHARD, US
[72] GERIG, DUANE A., US
[71] RADIO SYSTEMS CORPORATION, US
[22] 2021-06-02
[41] 2022-01-04
[30] US (16/920,692) 2020-07-04

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[21] **3,121,529**
[13] A1
[51] **Int.Cl. B08B 9/023 (2006.01) E01H 5/10 (2006.01)**
[25] EN
[54] **CLEARING DEVICE FOR REMOVAL OF SNOW OR ICE FROM A PIPE**
[54] **DISPOSITIF DE NETTOYAGE POUR ELIMINER LA NEIGE OU LA GLACE SUR UN TUYAU**
[72] MCLEOD, JAMES, CA
[71] MCLEOD, JAMES, CA
[22] 2021-06-08
[41] 2022-01-07
[30] US (63/048,775) 2020-07-07

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[21] **3,121,984**
[13] A1
[51] **Int.Cl. A47G 9/10 (2006.01) A47C 16/00 (2006.01)**
[25] EN
[54] **ADJUSTABLE INFLATABLE NECK SUPPORT DEVICE AND METHOD FOR MANUFACTURING THE SAME**
[54] **DISPOSITIF DE SUPPORT DE COU GONFLABLE AJUSTABLE ET METHODE DE FABRICATION**
[72] HO, HOI MING MICHAEL, CN
[71] HO, HOI MING MICHAEL, CN
[22] 2021-06-11
[41] 2022-01-03
[30] CN (202010631822.5) 2020-07-03
[30] CN (202011467755.4) 2020-12-14
[30] CN (202110625030.1) 2021-06-04
[30] CA (3,108,014) 2021-02-03

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[21] **3,122,356**
[13] A1
[51] **Int.Cl. F21V 15/04 (2006.01) F21V 15/01 (2006.01) F21V 17/00 (2006.01) F21V 25/00 (2006.01)**
[25] FR
[54] **INDUSTRIAL LIGHTING DEVICE**
[54] **DISPOSITIF D'ECLAIRAGE INDUSTRIEL**
[72] MAZEAUD, GUILLAUME, GB
[72] MCKINLEY, JACK, GB
[71] TPL VISION UK LTD, GB
[22] 2021-06-15
[41] 2022-01-02
[30] FR (2007025) 2020-07-02

[21] **3,122,816**
[13] A1
[51] **Int.Cl. A61B 17/068 (2006.01) A61B 17/072 (2006.01) A61L 31/10 (2006.01)**
[25] EN
[54] **SURGICAL STAPLING DEVICE WITH COMPRESSIBLE STAPLE CARTRIDGE**
[54] **AGRAFEUSE CHIRURGICALE DOTEE D'UNE CARTOUCHE D'AGRAFES COMPRIMABLE**
[72] STRASSNER, HALEY, US
[72] PILLE, MALLORY, US
[72] KNAPP, ROBERT, US
[71] COVIDIEN LP, US
[22] 2021-06-18
[41] 2022-01-02
[30] US (16/919,391) 2020-07-02

[21] **3,122,822**
[13] A1
[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/01 (2006.01)**
[25] EN
[54] **MEDICAL ASSEMBLY INCLUDING FORCE-LIMITING DEVICE**
[54] **ASSEMBLAGE MEDICAL COMPRENANT UN DISPOSITIF LIMITATEUR DE FORCE**
[72] BALKOVEC, CHRISTIAN, CA
[72] DAVIES, GARETH, CA
[72] DICICCO, MATTHEW, CA
[72] MORIYAMA, EDUARDO, CA
[71] BAYLIS MEDICAL COMPANY INC., CA
[22] 2021-06-21
[41] 2022-01-06
[30] US (63/048,415) 2020-07-06

[21] **3,122,824**
[13] A1
[51] **Int.Cl. E06B 9/32 (2006.01) E06B 9/307 (2006.01)**
[25] EN
[54] **MOTORIZED SLAT ANGLE ADJUSTMENT MECHANISM FOR WINDOW BLINDS**
[54] **MECANISME D'AJUSTEMENT MOTORISE DE L'ANGLE DE PALETTE DES STORES DE FENETRE**
[72] JACKSON, NICHOLAS, US
[72] SERVIES, NICHOLAS, US
[71] HOME DEPOT INTERNATIONAL, INC., US
[22] 2021-06-18
[41] 2022-01-03
[30] US (16/920,554) 2020-07-03

[21] **3,122,835**
[13] A1
[51] **Int.Cl. F24F 13/08 (2006.01) F04D 29/70 (2006.01) F21S 8/02 (2006.01)**
[25] EN
[54] **FLUSH-MOUNT FAN GRILLE**
[54] **GRILLE DE VENTILATEUR INSTALLE A RAS DE BORD**
[72] PETERSON, JARED, US
[72] REVERS, RYAN A., US
[72] SINUR, RICHARD R., US
[71] BROAN-NUTONE LLC, US
[22] 2021-06-22
[41] 2022-01-02
[30] US (63/047,332) 2020-07-02
[30] US (17/349,199) 2021-06-16

[21] **3,122,874**
[13] A1
[51] **Int.Cl. A44B 11/20 (2006.01) G03B 17/00 (2021.01)**
[25] EN
[54] **FIXATION SYSTEM OF A STRAP TO A CAMERA INCLUDING A BUCKLE AND A BUTTON**
[54] **SYSTEME DE FIXATION D`UNE LANGUETTE A UNE CAMERA COMPRENANT UNE BOUCLE ET UN BOUTON**
[72] RUCKMAN, ANTON, AU
[72] PICCARDO, JOSEFINA, AU
[72] GIBSON, CHRISTIAN, AU
[71] GOBE CORP UK LTD, GB
[22] 2021-06-18
[41] 2022-01-08
[30] EP (20184774.6) 2020-07-08

[21] **3,122,965**
[13] A1
[51] **Int.Cl. H04L 12/16 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ASSOCIATING WEBSITE VISITORS WITH A STICKY DYNAMIC INTERNET PROTOCOL (IP) ADDRESS**
[54] **SYSTEMES ET METHODES POUR ASSOCIER DES VISITEURS DE SITE WEB A UNE ADRESSE IP DYNAMIQUE COLLANTE**
[72] ANDERSON, RUSSELL SCOTT, US
[71] COX AUTOMOTIVE, INC., US
[22] 2021-06-23
[41] 2022-01-08
[30] US (63/049.502) 2020-07-08

[21] **3,122,979**
[13] A1
[51] **Int.Cl. B62D 55/20 (2006.01) B62D 55/08 (2006.01) B62D 55/26 (2006.01)**
[25] EN
[54] **CATERPILLAR TRACK OF WORK MACHINE**
[54] **CHENILLE DE MACHINE DE TRAVAIL**
[72] NISULA, ESA, FI
[71] NISULA FOREST OY, FI
[22] 2021-06-23
[41] 2022-01-06
[30] FI (20205728) 2020-07-06

[21] **3,123,133**
[13] A1
[51] **Int.Cl. A01D 57/03 (2006.01) A01D 47/00 (2006.01)**
[25] EN
[54] **REEL ASSEMBLY WITH REMOVABLE TINES AND METHOD OF USE**
[54] **ASSEMBLAGE DE DEVIDOIR AVEC DENTS AMOVIBLES ET METHODE D'UTILISATION**
[72] MOSSMAN, MICHAEL W., US
[71] DEERE & COMPANY, US
[22] 2021-06-23
[41] 2022-01-02
[30] US (16/919,651) 2020-07-02

[21] **3,123,247**
[13] A1
[51] **Int.Cl. B25F 5/00 (2006.01) B25F 5/02 (2006.01)**
[25] EN
[54] **TOOL CARRYING APPARATUS**
[54] **APPAREIL DE TRANSPORT D'OUTILS**
[72] ST-JACQUES, PAUL, CA
[71] ST-JACQUES, PAUL, CA
[22] 2021-06-24
[41] 2022-01-06
[30] US (17/304,553) 2021-06-23
[30] US (63/048,635) 2020-07-06

[21] **3,123,253**
[13] A1
[51] **Int.Cl. G06N 3/08 (2006.01)**
[25] EN
[54] **TRAINING A STUDENT NEURAL NETWORK TO MIMIC A MENTOR NEURAL NETWORK WITH INPUTS THAT MAXIMIZE STUDENT-TO-MENTOR DISAGREEMENT**
[54] **ENTRAINEMENT D`UN RESEAU NEURONAL MENTORE POUR IMITER UN RESEAU NEURONAL MENTOR AVEC DES ENTREES MAXIMISANT LES DESACCORDS MENTORE-MENTOR**
[72] DAVID, ELI, IL
[72] RUBIN, ERI, IL
[71] DEEPCUBE LTD., IL
[22] 2021-06-25
[41] 2022-01-08
[30] US (16/923,913) 2020-07-08

[21] **3,123,267**
[13] A1
[51] **Int.Cl. G08B 13/196 (2006.01) H04N 7/18 (2006.01) H04R 1/08 (2006.01)**
[25] EN
[54] **CONTROL DEVICE, NON-TRANSITORY STORAGE MEDIUM, AND CONTROL SYSTEM**
[54] **DISPOSITIF DE COMMANDE, SUPPORT DE STOCKAGE NON TRANSITOIRE ET SYSTEME DE COMMANDE**
[72] KOMAMINE, SATOSHI, JP
[72] HASEGAWA, HIDEO, JP
[71] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP
[22] 2021-06-25
[41] 2022-01-03
[30] JP (2020-115830) 2020-07-03

[21] **3,123,421**
[13] A1
[51] **Int.Cl. B61H 13/00 (2006.01) B61H 13/34 (2006.01)**
[25] EN
[54] **BRAKE CONTROL SYSTEM**
[54] **SYSTEME DE CONTROLE DES FREINS**
[72] WOLF, CHARLES L., US
[72] HAAS, CARL L., US
[71] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
[22] 2021-06-22
[41] 2022-01-08
[30] US (63/049,449) 2020-07-08
[30] US (17/347,161) 2021-06-14

[21] **3,123,438**
[13] A1
[51] **Int.Cl. H04W 28/16 (2009.01) H04W 24/02 (2009.01) H04B 17/318 (2015.01)**
[25] FR
[54] **METHOD FOR CONFIGURING AT LEAST ONE RADIO RESOURCE OF A COMMUNICATION NETWORK, NODE DEVICE AND COMMUNICATION NETWORK**
[54] **PROCEDE DE CONFIGURATION D'AU MOINS UNE RESSOURCE RADIO D'UN RESEAU DE COMMUNICATION, DISPOSITIF NOEUD, ET RESEAU DE COMMUNICATION**
[72] REUCHE, ANTHONY, FR
[71] SAGEMCOM BROADBAND SAS, FR
[22] 2021-06-29
[41] 2022-01-02
[30] FR (2007010) 2020-07-02

[21] **3,123,442**
[13] A1
[51] **Int.Cl. F16B 5/02 (2006.01) B64F 5/10 (2017.01) B64C 1/06 (2006.01) B64C 3/26 (2006.01) F16B 37/04 (2006.01)**
[25] EN
[54] **FASTENING SYSTEM FOR AIRCRAFT STRUCTURES**
[54] **SYSTEME D'ATTACHE POUR DES STRUCTURES D'AERONEF**
[72] BLOCK, SAMUEL L., US
[72] DAVIES, JOHN A., US
[72] SCHROEDER, IAN E., US
[71] THE BOEING COMPANY, US
[22] 2021-06-25
[41] 2022-01-02
[30] US (63/047,723) 2020-07-02
[30] US (17/331,379) 2021-05-26

[21] **3,123,469**
[13] A1
[51] **Int.Cl. B29C 65/18 (2006.01)**
[25] EN
[54] **ROTARY WELDING DEVICE AND RELATED METHOD**
[54] **DISPOSITIF DE SOUDAGE ROTATIF ET METHODE CONNEXE**
[72] DUCHINI, ANDREA, IT
[72] FUSAR POLI, ALDO, IT
[72] PIANTONI, MATTEO, IT
[72] RESMINI, GABRIELE, IT
[72] ROSANI, MARCO, IT
[72] SPATTI, MAURIZIO, IT
[71] GDM S.P.A., IT
[22] 2021-06-28
[41] 2022-01-06
[30] IT (102020000016210) 2020-07-06

[21] **3,123,536**
[13] A1
[51] **Int.Cl. B02C 18/00 (2006.01) E03F 5/22 (2006.01) F04D 7/04 (2006.01)**
[25] EN
[54] **GRINDER ACCESORY FOR PUMP**
[54] **ACCESSOIRE BROYEUR POUR POMPE**
[72] NEER, KIRK, US
[72] CRABTREE, ALEX, US
[71] CRANE PUMPS & SYSTEMS, INC., US
[22] 2021-06-29
[41] 2022-01-02
[30] US (16/920,087) 2020-07-02

[21] **3,123,553**
[13] A1
[51] **Int.Cl. A01N 65/03 (2009.01) A01N 59/00 (2006.01) A01P 21/00 (2006.01) C05D 9/00 (2006.01) C05F 11/00 (2006.01)**
[25] FR
[54] **BIOSTIMULANT COMPOSITION**
[54] **COMPSITION BIOSTIMULANTE**
[72] NIESNER, PIERRE, LU
[72] NIESNER, JEAN-MARTIN, FR
[71] PN S.A., LU
[22] 2021-06-29
[41] 2022-01-07
[30] EP (20184531.0) 2020-07-07

[21] **3,123,563**
[13] A1
[51] **Int.Cl. E21B 19/14 (2006.01) E21B 7/24 (2006.01) E21B 19/06 (2006.01)**
[25] EN
[54] **SONIC TOOLING HANDLING APPARATUS WITH PIPE TONG AND METHOD**
[54] **APPAREIL DE MANIPULATION D'OUTILLAGE SONIQUE, PINCE A TUBES ET METHODE**
[72] KNOLLE, MARK, US
[72] SPROUT, EDWIN, US
[71] TERRA SONIC INTERNATIONAL, LLC, US
[22] 2021-06-30
[41] 2022-01-02
[30] US (63/047337) 2020-07-02
[30] US (63/091004) 2020-10-13

[21] **3,123,566**
[13] A1
[51] **Int.Cl. H04L 9/30 (2006.01) H04L 9/32 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PUBLISHING DNS RECORDS OF A DOMAIN INCLUDING EITHER SIGNED OR UNSIGNED RECORDS**
[54] **SYSTEME ET METHODE POUR PUBLIER LES DOSSIERS DNS SIGNES OU NON SIGNES D'UN DOMAINE**
[72] ELAND, HOWARD, US
[72] GALVIN, JAMES, US
[71] AFILIAS LIMITED, IE
[22] 2021-06-30
[41] 2022-01-02
[30] US (16/920,076) 2020-07-02

[21] **3,123,570**
[13] A1
[51] **Int.Cl. A01N 57/20 (2006.01) A01N 37/02 (2006.01) A01N 43/50 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **HERBICIDAL COMPOSITIONS AND RELATED METHODS**
[54] **COMPOSITIONS HERBICIDES ET METHODES CONNEXES**
[72] CORBETT, JERRY L., US
[72] WOOD, THOMAS C., US
[71] BELCHIM CROP PROTECTION USA, LLC, US
[22] 2021-06-30
[41] 2022-01-03
[30] US (62/705,548) 2020-07-03

[21] **3,123,657**
[13] A1
[51] **Int.Cl. B23P 6/00 (2006.01)**
[25] EN
[54] **METHOD OF REPAIRING A COMBUSTOR LINER OF A GAS TURBINE ENGINE**
[54] **METHODE DE REPARATION D'UNE CHEMISE DE CHAMBRE DE COMBUSTION D'UNE TURBINE A GAZ**
[72] RAHMAN, MIZANUR, CA
[72] DROUIN LABERGE, CLEMENT, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-06-29
[41] 2022-01-06
[30] US (16/920,868) 2020-07-06

[21] **3,123,669**
[13] A1
[51] **Int.Cl. E04H 15/62 (2006.01)**
[25] EN
[54] **TENT PEG AND PROCESSING METHOD THEREOF**
[54] **PIQUET DE TENTE ET PROCEDE DE FABRICATION**
[72] XIAN, MINJIN, CN
[72] HU, YUEYUN, CN
[71] GUANGZHOU CLASSIC & FRESH CRAFTS CO., LIMITED, CN
[22] 2021-06-30
[41] 2022-01-06
[30] CN (202010638833.6) 2020-07-06

[21] **3,123,673**
[13] A1
[51] **Int.Cl. G16H 40/20 (2018.01) G16H 40/40 (2018.01)**
[25] EN
[54] **DYNAMIC SCHEDULING OF THE DISTRIBUTION OF MEDICAL EQUIPMENT**
[54] **PLANIFICATION DYNAMIQUE DE LA DISTRIBUTION D'EQUIPEMENT MEDICAL**
[72] KURESHI, IBAD, GB
[72] RAINBIRD, JENNY, GB
[72] FERGADIOTOU, IOANNA, GR
[72] MYGIAKIS, ANTONIOS, GR
[72] O'SULLIVAN, PATRICK J., IE
[71] INLECOM SYSTEMS LIMITED, GB
[22] 2021-07-01
[41] 2022-01-02
[30] FR (FR2007032) 2020-07-02

[21] **3,123,674**
[13] A1
[51] **Int.Cl. G01N 11/04 (2006.01)**
[25] EN
[54] **RHEOLOGY DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE DE RHEOLOGIE**
[72] KHORSHIDIAN, HOSSEIN, CA
[72] MAMMADOV, ELVIN, CA
[72] AFSHARI, SAIED, CA
[72] ALIZADEH, AHMAD, CA
[71] OPLA ENERGY LTD., CA
[22] 2021-07-01
[41] 2022-01-02
[30] US (63/047,634) 2020-07-02

[21] **3,123,676**
[13] A1
[51] **Int.Cl. H02M 5/40 (2006.01) H02M 3/04 (2006.01) H02P 31/00 (2006.01)**
[25] EN
[54] **POWER SUPPLY SYSTEM**
[54] **SYSTEME D'ALIMENTATION ELECTRIQUE**
[72] BLUME. SEBASTIAN, AT
[72] NESIC, STEFAN, AT
[72] VUKOVIC, DJORDJE, AT
[71] B&R INDUSTRIAL AUTOMATION GMBH, AT
[22] 2021-07-02
[41] 2022-01-03
[30] AT (A50569/2020) 2020-07-03

[21] **3,123,680**
[13] A1
[51] **Int.Cl. F24D 19/00 (2006.01) F23D 14/12 (2006.01) F24H 9/06 (2006.01)**
[25] EN
[54] **SYSTEM FOR CONTROLLING THERMAL EXPANSION IN A TUBE HEATER**
[54] **SYSTEME DE CONTROLE DE LA DILATATION THERMIQUE DANS UN CHAUFFE-TUBES**
[72] FILE, GJERGJI, CA
[72] TEPSIC, ALEKSANDAR, CA
[72] MERRITT, KEVIN, CA
[71] SUPERIOR RADIANT PRODUCTS LTD., CA
[22] 2021-07-02
[41] 2022-01-07
[30] US (63/048,876) 2020-07-07

[21] **3,123,681**
[13] A1
[51] **Int.Cl. F21V 23/06 (2006.01) H05B 47/11 (2020.01) H05B 47/115 (2020.01) H05B 47/175 (2020.01) H05B 47/19 (2020.01) F21V 33/00 (2006.01) H01R 13/73 (2006.01)**
[25] EN
[54] **SOLID-STATE LIGHTING FIXTURES WITH SOCKET CONNECTIONS FOR ACCESSORIES AND ACCESSORIES FOR USE THEREWITH**
[54] **APPAREILS D'ECLAIRAGE A SEMICONDUCTEURS COMPRENANT DES CONNEXIONS DE DOUILLE POUR DES ACCESSOIRES, ET ACCESSOIRES CONNEXES**
[72] RAGHAVAN, RAMESH, US
[72] CHAMI, AYMEN, US
[72] CLOHOSEY, ERIC, US
[72] ENTREKIN, STEPHEN ANDREW, US
[72] DAI, XIAOMING, CN
[71] MAXLITE, INC., US
[22] 2021-07-02
[41] 2022-01-06
[30] US (17/215,852) 2021-03-29
[30] US (63/048,373) 2020-07-06

[21] **3,123,682**
[13] A1
[51] **Int.Cl. E04F 11/16 (2006.01) E04F 11/025 (2006.01) E04F 11/104 (2006.01)**
[25] EN
[54] **RETURNED STAIR TREAD HAVING MOISTURE COMPENSATING JOINT AND METHOD FOR MAKING THE SAME**
[54] **PLAN DE MARCHE RETOURNE AYANT UN JOINT DE COMPENSATION POUR L'HUMIDITE ET METHODE DE FABRICATION**
[72] YOUNG, ROBERT JEFFREY, US
[71] YOUNG, ROBERT JEFFREY, US
[22] 2021-07-02
[41] 2022-01-02
[30] US (63/047,690) 2020-07-02

[21] **3,123,684**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/686 (2018.01) G16B 20/00 (2019.01) G16B 25/10 (2019.01)**
[25] EN
[54] **NON-INVASIVE PRENATAL TESTING AT EARLY STAGE OF PREGNANCY**
[54] **TEST PRENATAL NON INVASIF AUX DEBUTS DE LA GROSSESSE**
[72] LANDRY, BRIAN, US
[72] NI, ALEXANDER, US
[71] BILLIONTOONE, INC., US
[22] 2021-07-05
[41] 2022-01-07
[30] US (16/923,005) 2020-07-07

[21] **3,123,685**
[13] A1
[51] **Int.Cl. H04L 9/32 (2006.01) G16Y 10/05 (2020.01) G16Y 30/00 (2020.01) H04L 69/40 (2022.01)**
[25] EN
[54] **TERMINAL, SERVER, INTERNET OF THINGS DATA TRANSMISSION METHOD, AND DATA TRANSMISSION SYSTEM**
[54] **TERMINAL, SERVEUR, METHODE DE TRANSMISSION DE DONNEES DANS L'INTERNET DES OBJETS ET SYSTEME DE TRANSMISSION DE DONNEES**
[72] YANG, ZHONG-YUAN, CN
[72] WU, DI, CN
[72] YAO, YUAN, CN
[72] WANG, GAO-DONG, CN
[71] FJ DYNAMICS CO., LTD., CN
[22] 2021-07-05
[41] 2022-01-06
[30] CN (202010641133.2) 2020-07-06

[21] **3,123,701**
[13] A1
[51] **Int.Cl. B21D 53/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FORMING A FULL ENGAGEMENT MALE LOCK IN A DUCTLINE**
[54] **SYSTEME ET METHODE POUR FORMER UN VERROU MALE A ENGAGEMENT COMPLET DANS UNE LIGNE DE TUYAUX**
[72] KRIVANEK, DAVID, US
[72] COON, TIMOTHY AARON, US
[71] MESTEK MACHINERY, INC., US
[22] 2021-06-29
[41] 2022-01-06
[30] US (62/705,571) 2020-07-06

[21] **3,123,731**
[13] A1
[51] **Int.Cl. B60J 11/04 (2006.01)**
[25] EN
[54] **DISASSEMBABLE ROOF FRAMING STRUCTURE FOR USE ON CAMPING TRAILERS, MOTOR-HOMES AND THE LIKES**
[54] **CHARPENTE DE TOITURE DESASSEMBLABLE A UTILISER SUR DES TENTES-REMORQUES, DES CARAVANES AUTOMOBILES, ETC.**
[72] NADEAU, DANIEL, CA
[71] NADEAU, DANIEL, CA
[22] 2021-07-05
[41] 2022-01-07
[30] GB (2010453.5) 2020-07-07

[21] **3,123,776**
[13] A1
[51] **Int.Cl. A01C 7/20 (2006.01) G01F 23/20 (2006.01)**
[25] EN
[54] **MEASUREMENT OF SEEDER CART TANK CONTENTS**
[54] **MESURE DU CONTENU DU RESERVOIR D'UN CHARIOT-SEMOIR**
[72] HARMON, ANDREW W., US
[72] SCHOENY, JACOB G., US
[72] GRAHAM, WILLIAM D., US
[72] NIMBALKAR, ANANT DNYANOBA, IN
[72] KSHIRSAGAR, VIKAS V., IN
[72] JAWALE, VINIT, IN
[72] RAJ, ANAND, IN
[72] DEVSHETWAR, NILKANTH, IN
[71] DEERE & COMPANY, US
[22] 2021-07-02
[41] 2022-01-03
[30] IN (202021028378) 2020-07-03

[21] **3,123,793**
[13] A1
[51] **Int.Cl. H01M 8/0236 (2016.01) H01M 8/1246 (2016.01) C25B 13/07 (2021.01) C25B 1/04 (2021.01)**
[25] EN
[54] **ELECTROCHEMICAL CELL AND ELECTROCHEMICAL CELL STACK**
[54] **CELLULE ELECTROCHIMIQUE ET ASSEMBLAGE DE CELLULES ELECTROCHIMIQUES**
[72] OSADA, NORIKAZU, JP
[72] KAMEDA, TSUNEJI, JP
[71] TOSHIBA ENERGY SYSTEMS & SOLUTIONS CORPORATION, JP
[22] 2021-07-02
[41] 2022-01-02
[30] JP (2020-114580) 2020-07-02

[21] **3,123,807**
[13] A1
[51] **Int.Cl. G06F 11/00 (2006.01) G06N 20/00 (2019.01)**
[25] EN
[54] **MAZE-DRIVEN SELF-DIAGNOSTICS USING REINFORCEMENT LEARNING**
[54] **DIAGNOSTIC AUTONOME FONDE SUR LA METHODE DU LABYRINTHE UTILISANT L'APPRENTISSAGE DE RENFORCEMENT**
[72] CHEN, CHUNZHI, CA
[72] ZHENG, GUO RONG, CA
[72] ARMSTRONG, KENNETH, CA
[71] MITEL CLOUD SERVICES, INC., US
[22] 2021-07-05
[41] 2022-01-06
[30] US (16/921148) 2020-07-06

[21] **3,123,817**
[13] A1
[51] **Int.Cl. G06F 8/61 (2018.01) G06Q 30/00 (2012.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR AUTOMATIC INSTALLATION OF SOFTWARE APPLICATIONS FOR ONLINE STORES**
[54] **METHODES ET SYSTEMES POUR L`INSTALLATION AUTOMATIQUE D`APPLICATIONS POUR DES MAGASINS VIRTUELS**
[72] CAMERON, DAVID, CA
[71] SHOPIFY INC., CA
[22] 2021-07-06
[41] 2022-01-08
[30] US (16/923,814) 2020-07-08

[21] **3,123,865**
[13] A1
[51] **Int.Cl. H02G 3/14 (2006.01) B44C 1/00 (2006.01) E04F 19/08 (2006.01)**
[25] EN
[54] **ELECTRICAL FLOOR BOX COVER**
[54] **COUVRE-BOITE DE PARQUET ELECTRIQUE**
[72] KADOKO, JONAH, US
[72] BRITTON, CHARLES C., US
[72] MARTIN, MICHAEL D., US
[71] ABB SCHWEIZ AG, CH
[22] 2021-07-06
[41] 2022-01-08
[30] US (16/923,800) 2020-07-08

[21] **3,123,878**
[13] A1
[51] **Int.Cl. B25C 1/00 (2006.01) B25C 1/04 (2006.01) B25C 5/13 (2006.01)**
[25] EN
[54] **POWERED FASTENER DRIVER**
[54] **POSE-ATTACHES ELECTRIQUES**
[72] KNIGHT, TYLER H., US
[72] CLARK, AUSTIN, US
[71] TECHTRONIC CORDLESS GP, US
[22] 2021-07-06
[41] 2022-01-07
[30] US (63/048,868) 2020-07-07

[21] **3,123,892**
[13] A1
[51] **Int.Cl. C08L 75/04 (2006.01) C08G 18/24 (2006.01) C09D 175/04 (2006.01)**
[25] EN
[54] **POLYURETHANE WITH HIGH HEAT TOLERANCE AND OTHER DESIRABLE PROPERTIES INCLUDING TRANSPARENCY, SURFACE SMOOTHNESS, DESIRABLE ADHESIVENESS, RESISTANCE TO IMPACT DAMAGE, SCRATCHES AND MOISTURE, AND METHOD AND USE THEREOF**
[54] **POLYURETHANNE AYANT UNE GRANDE TOLERANCE A LA CHALEUR ET D`AUTRES CARACTERISTIQUES DESIRABLES, DONT LA TRANSPARENCE, UNE SURFACE LISSE, UNE ADHESIVITE SOUHAITABLE, UNE RESISTANCE AUX DOMMAGES PAR CHOC, AUX EGRATIGNURES ET A L`HUMIDITE, ET METHODE ET UTILISATION CONNEXE**
[72] YANG, QI, CA
[72] HEIDARZADEH, NINA, CA
[71] VIVAVAX INC., CA
[22] 2021-07-06
[41] 2022-01-07
[30] US (63/048,809) 2020-07-07

[21] **3,123,898**
[13] A1
[51] **Int.Cl. H02G 3/08 (2006.01)**
[25] EN
[54] **MULTI-GANG ADJUSTABLE MUD RING ASSEMBLIES**
[54] **ASSEMBLAGES D'ANNEAUX DE BOUE AJUSTABLES A TRAINS MULTIPLES**
[72] BERISTANY,VICTOR, US
[72] KORCZ, KRZYSZTOF WOJCIECH, US
[71] HUBBELL INCORPORATED, US
[22] 2021-07-06
[41] 2022-01-06
[30] US (63/048,508) 2020-07-06

[21] **3,123,901**
[13] A1
[51] **Int.Cl. H02G 3/08 (2006.01)**
[25] EN
[54] **ROUND ADJUSTABLE MUD RING ASSEMBLY**
[54] **ASSEMBLAGE D'ANNEAU DE BOUE AJUSTABLE ROND**
[72] BERISTANY, VICTOR, US
[72] KORCZ, KRZYSZTOF WOJCIECH, US
[71] HUBBELL INCORPORATED, US
[22] 2021-07-06
[41] 2022-01-06
[30] US (63/048,511) 2020-07-06

[21] **3,123,913**
[13] A1
[51] **Int.Cl. G09B 5/00 (2006.01) G09B 19/00 (2006.01) G06N 20/00 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR VIRTUAL ONLINE ASSESSMENT OF MEDICAL TRAINING AND COMPETENCY**
[54] **SYSTEME ET METHODE D'EVALUATION VIRTUELLE EN LIGNE DE L'INSTRUCTION MEDICALE ET DE LA COMPETENCE**
[72] QAYUMI, ABDUL KARIM, CA
[71] QAYUMI, ABDUL KARIM, CA
[22] 2021-07-05
[41] 2022-01-03
[30] US (63/048,012) 2020-07-03

[21] **3,123,919**
[13] A1
[51] **Int.Cl. A61C 17/10 (2006.01) A61B 1/24 (2006.01)**
[25] EN
[54] **IMPROVED CHEEK RETRACTOR DEVICE**
[54] **DISPOSITIF ECARTEUR AMELIORE POUR LES JOUES**
[72] ELIE, STEPHAN, CA
[71] ELIE, STEPHAN, CA
[22] 2021-07-07
[41] 2022-01-08
[30] US (63/049.327) 2020-07-08

[21] **3,123,921**
[13] A1
[51] **Int.Cl. G06Q 30/06 (2012.01) G06Q 20/20 (2012.01)**
[25] EN
[54] **MULTIMEDIA POINT-OF-SALE NETWORK SYSTEM AND METHOD THEREFOR**
[54] **SYSTEME DE RESEAU DE POINT DE VENTE MULTIMEDIA ET METHODE CONNEXE**
[72] MADDALO, SABATINO, CA
[72] ANDERSON, PAULETTE, CA
[71] MADDALO, SABATINO, CA
[71] ANDERSON, PAULETTE, CA
[22] 2021-07-07
[41] 2022-01-07
[30] US (63/048,903) 2020-07-07

[21] **3,123,923**
[13] A1
[51] **Int.Cl. E05B 67/38 (2006.01) E05B 71/00 (2006.01)**
[25] EN
[54] **BICYCLE U-LOCK HOLDER**
[54] **SUPPORT A CADENAS EN U DE BICYCLETTE**
[72] AZIN, DANIEL, CA
[71] WALLEY LEATHER INC., CA
[22] 2021-07-07
[41] 2022-01-08
[30] US (63/049,346) 2020-07-08

[21] **3,123,924**
[13] A1
[51] **Int.Cl. A47L 11/292 (2006.01) A47L 11/282 (2006.01) A47L 11/30 (2006.01) A47L 11/34 (2006.01)**
[25] EN
[54] **SURFACE CLEANING APPARATUS**
[54] **APPAREIL DE NETTOYAGE DE SURFACE**
[72] DEJONGE, MITCHELL J., US
[72] CLIFFORD, SETH ROBERT, US
[71] BISSELL INC., US
[22] 2021-07-06
[41] 2022-01-07
[30] US (16/922,665) 2020-07-07

[21] **3,123,946**
[13] A1
[51] **Int.Cl. E04D 13/00 (2006.01) C08K 11/00 (2006.01) C08L 75/04 (2006.01) C09K 17/30 (2006.01) E04D 7/00 (2006.01)**
[25] EN
[54] **ROOF SLOPING SYSTEM**
[54] **SYSTEME DE PENTE DE TOIT**
[72] MCGUIRE, JON, US
[72] GEYER, JULIE A., US
[72] SMITH, JASON D., US
[72] MCDERMOTT, MATTHEW, US
[72] RUS, MELISSA, US
[71] VIKING PRODUCTS GROUP, INC, US
[22] 2021-07-06
[41] 2022-01-07
[30] US (63/048,814) 2020-07-07

[21] **3,123,968**
[13] A1
[51] **Int.Cl. A01K 85/00 (2006.01)**
[25] EN
[54] **ARTIFICIAL FISHING LURE**
[54] **APPAT DE PECHE ARTIFICIEL**
[72] PISKORSKI, PIOTR, PL
[71] SALMO SP. Z O.O., PL
[22] 2021-07-06
[41] 2022-01-06
[30] US (16/921,601) 2020-07-06

[21] **3,124,027**
[13] A1
[51] **Int.Cl. G16Z 99/00 (2019.01) G06T 19/00 (2011.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MODELLING INTERACTIONS OF PHYSICAL ASSETS WITHIN A WORKSPACE**
[54] **SYSTEMES ET METHODES DE MODELISATION DES INTERACTIONS DES BIENS PHYSIQUES DANS UN ESPACE DE TRAVAIL**
[72] BAQAI, KAMRAN ATHAR, CA
[71] DIGITALOGIA CANADA INC., CA
[22] 2021-07-07
[41] 2022-01-07
[30] US (63/049028) 2020-07-07

[21] **3,124,093**
[13] A1
[51] **Int.Cl. A61K 47/40 (2006.01) A61K 31/525 (2006.01) A61K 33/32 (2006.01) A61K 36/38 (2006.01) A61K 36/752 (2006.01) A61K 47/32 (2006.01) A61P 17/10 (2006.01) A61P 31/02 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING SKIN CONDITIONS, ACNE FORM LESIONS, AND ACNE**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT D`AFFECTIONS CUTANEES, DE L`ACNE ET DES LESIONS CAUSEES PAR L`ACNE**
[72] KOVACS, BRUCE, US
[71] LAPKO INC. DBA AFECTA PHARMACEUTICALS, US
[22] 2021-07-07
[41] 2022-01-07
[30] US (63/048993) 2020-07-07

[21] **3,124,094**
[13] A1
[51] **Int.Cl. A47J 37/07 (2006.01) F24C 1/06 (2021.01) F24C 7/00 (2006.01) F24C 15/00 (2006.01)**
[25] EN
[54] **ELECTRIC KAMADO GRILL**
[54] **KAMADO ELECTRIQUE**
[72] BAUER, NICK, US
[72] SAMARAS, GEORGE, US
[71] EMPIRE COMFORT SYSTEMS, INC., US
[22] 2021-07-07
[41] 2022-01-07
[30] US (63/048,949) 2020-07-07

[21] **3,124,142**
[13] A1
[51] **Int.Cl. B60J 5/06 (2006.01)**
[25] EN
[54] **DOOR ASSEMBLY FOR DELIVERY VEHICLE**
[54] **ASSEMBLAGE DE PORTE POUR VEHICULE DE LIVRAISON**
[72] SCHMIDT, PAUL, US
[72] WOLFRATH, MITCHELL, US
[72] KAUNISTO, RONALD, US
[72] KRAMER, JAMES, US
[72] ERVIN, MARK, US
[72] BARRON, TY, US
[72] EISENBERG, DREW, US
[72] ANDREWS, BEN, US
[72] MINGER, ROBERT, US
[72] HOLLIDAY, WES, US
[72] MCGRAW, DAVE, US
[72] DRACH, ANDREW, US
[72] QUIGLEY, THOMAS, US
[71] OSHKOSH CORPORATION, US
[22] 2021-07-07
[41] 2022-01-08
[30] US (63/049,374) 2020-07-08
[30] US (63/049,377) 2020-07-08
[30] US (63/049,438) 2020-07-08
[30] US (63/049,444) 2020-07-08
[30] US (63/049,446) 2020-07-08
[30] US (63/049,456) 2020-07-08

[21] **3,124,147**
[13] A1
[51] **Int.Cl. B60J 1/00 (2006.01) B60R 99/00 (2009.01)**
[25] EN
[54] **VISIBILITY ENHANCEMENTS FOR DELIVERY VEHICLE**
[54] **AMELIORATIONS DE VISIBILITE POUR VEHICULE DE LIVRAISON**
[72] ANDREWS, BENJAMIN, US
[72] HOLLIDAY, WES, US
[72] NETT, DAN, US
[72] RANTANEN, ANNETTE, US
[72] SCHMIDT, PAUL, US
[72] WINTER, NICK, US
[72] WOLFRATH, MITCHELL, US
[71] OSHKOSH CORPORATION, US
[22] 2021-07-07
[41] 2022-01-08
[30] US (63/049,374) 2020-07-08
[30] US (63/049,377) 2020-07-08
[30] US (63/049,438) 2020-07-08
[30] US (63/049,444) 2020-07-08
[30] US (63/049,446) 2020-07-08
[30] US (63/049,456) 2020-07-08

[21] **3,124,155**
[13] A1
[51] **Int.Cl. B60N 2/24 (2006.01) B60N 2/04 (2006.01)**
[25] EN
[54] **REPOSITIONABLE SEAT FOR DELIVERY VEHICLE**
[54] **SIEGE REPOSITIONNABLE POUR VEHICULE DE LIVRAISON**
[72] WINTER, NICK, US
[71] OSHKOSH CORPORATION, US
[22] 2021-07-07
[41] 2022-01-08
[30] US (63/049,374) 2020-07-08
[30] US (63/049,377) 2020-07-08
[30] US (63/049,438) 2020-07-08
[30] US (63/049,444) 2020-07-08
[30] US (63/049,446) 2020-07-08
[30] US (63/049,456) 2020-07-08

[21] **3,124,163**
[13] A1
[51] **Int.Cl. B60P 7/06 (2006.01) B60R 11/00 (2006.01) B62D 33/04 (2006.01)**
[25] EN
[54] **CARGO SHELF FOR DELIVERY VEHICLE**
[54] **ETAGERE A MARCHANDISES POUR VEHICULE DE LIVRAISON**
[72] EISENBERG, DREW, US
[72] ANDREWS, BENJAMIN, US
[71] OSHKOSH CORPORATION, US
[22] 2021-07-07
[41] 2022-01-08
[30] US (63/049,374) 2020-07-08
[30] US (63/049,377) 2020-07-08
[30] US (63/049,438) 2020-07-08
[30] US (63/049,444) 2020-07-08
[30] US (63/049,446) 2020-07-08
[30] US (63/049,456) 2020-07-08

[21] **3,124,175**
[13] A1
[51] **Int.Cl. B60J 1/12 (2006.01) B60J 10/70 (2016.01)**
[25] EN
[54] **WINDOW ASSEMBLY FOR DELIVERY VEHICLE**
[54] **ASSEMBLAGE DE FENETRE POUR VEHICULE DE LIVRAISON**
[72] SCHMIDT, PAUL, US
[72] WOLFRATH, MITCHELL, US
[72] KAUNISTO, RONALD, US
[72] KRAMER, JAMES, US
[71] OSHKOSH CORPORATION, US
[22] 2021-07-07
[41] 2022-01-08
[30] US (63/049,374) 2020-07-08
[30] US (63/049,377) 2020-07-08
[30] US (63/049,438) 2020-07-08
[30] US (63/049,444) 2020-07-08
[30] US (63/049,446) 2020-07-08
[30] US (63/049,456) 2020-07-08

[21] **3,124,181**
[13] A1
[51] **Int.Cl. E05B 83/00 (2014.01) E05B 79/00 (2014.01) E05B 85/00 (2014.01) B60J 5/00 (2006.01)**
[25] EN
[54] **DOOR LOCK ASSEMLY FOR DELIVERY VEHICLE**
[54] **ASSEMBLAGE DE SERRURE DE PORTE POUR VEHICULE DE LIVRAISON**
[72] KLAAMEYER, JACOB, US
[72] MEILAHN, TIM, US
[72] CIMERMANCIC, TODD, US
[71] OSHKOSH CORPORATION, US
[22] 2021-07-07
[41] 2022-01-08
[30] US (63/049,374) 2020-07-08
[30] US (63/049,377) 2020-07-08
[30] US (63/049,438) 2020-07-08
[30] US (63/049,444) 2020-07-08
[30] US (63/049,446) 2020-07-08
[30] US (63/049,456) 2020-07-08

[21] **3,126,500**
[13] A1
[51] **Int.Cl. A61B 5/08 (2006.01) G16H 50/20 (2018.01) G16H 50/30 (2018.01) A61B 8/00 (2006.01) A61K 31/07 (2006.01) A61K 31/56 (2006.01) A61K 31/58 (2006.01) A61K 38/17 (2006.01) A61K 38/30 (2006.01) A61P 11/00 (2006.01)**
[25] EN
[54] **METHOD OF PROGNOSIS OF BRONCHOPULMONARY DYSPLASIA IN PREMATURE INFANTS**
[54] **METHODE DE PRONOSTIC DE LA DYSPLASIE BRONCHO-PULMONAIRE CHEZ LES ENFANTS PREMATURES**
[72] DE LUCA, DANIELE, FR
[72] LOI, BARBARA, FR
[72] YOUSEF, NADYA, FR
[71] ASSISTANCE PUBLIQUE-HOPITAUX DE PARIS, FR
[22] 2021-07-30
[41] 2022-01-08
[30] EP (20305784.9) 2020-07-08

[21] **3,134,995**
[13] A1
[51] **Int.Cl. A61B 17/068 (2006.01) A61B 17/072 (2006.01)**
[25] EN
[54] **SURGICAL STAPLING DEVICE**
[54] **AGRAFEUSE CHIRURGICALE**
[72] DIAZ-CHIOSA, OLESEA, US
[71] COVIDIEN LP, US
[22] 2021-06-18
[41] 2022-01-02
[30] US (16/919,168) 2020-07-02

[21] **3,135,230**
[13] A1
[51] **Int.Cl. C02F 3/10 (2006.01) B01J 8/00 (2006.01) C02F 3/00 (2006.01) C02F 11/00 (2006.01)**
[25] EN
[54] **METHODES ET APPAREILS POUR LE NETTOYAGE DU GARNISSAGE D'UN BIOREACTEUR**
[54] **METHODES ET APPAREILS POUR LE NETTOYAGE DU GARNISSAGE D'UN BIOREACTEUR**
[72] ROBITAILLE, NICOLAS, CA
[72] MALENFANT, MARC-ANDRE, CA
[72] MICHAUD, GILLES, CA
[72] ST-PIERRE, JEAN, CA
[72] LAURIN, PASCAL, CA
[71] PREMIER TECH TECHNOLOGIES LIMITEE, CA
[22] 2021-10-20
[41] 2022-01-03

[21] **3,135,261**
[13] A1
[51] **Int.Cl. A47G 9/08 (2006.01) A61M 21/02 (2006.01)**
[25] EN
[54] **BODY COMPRESSION SLEEPWEAR WITH A LEG OPENING**
[54] **VETEMENT POUR DORMIR A COMPRESSION DU CORPS ET COMPORTANT UNE OUVERTURE POUR LES JAMBES**
[72] MUNDT, MATTHEW J., US
[71] MUNDT, MATTHEW J., US
[22] 2021-10-21
[41] 2022-01-03
[30] US (17/142,396) 2021-01-06

[21] **3,135,662**
[13] A1
[51] **Int.Cl. B65D 55/10 (2006.01) B65D 43/16 (2006.01) B65D 50/06 (2006.01)**
[25] EN
[54] **SAFETY CONTAINER**
[54] **CONTENANT DE SECURITE**
[72] WARNER, NANCY, US
[72] BUCK, JEREMIAH, US
[71] ASSURPACK LLC, US
[22] 2021-10-22
[41] 2022-01-04
[30] US (17/237,126) 2021-04-22

PCT Applications Entering the National Phase

Demandes PCT entrant en phase nationale

[21] **3,090,137**
[13] A1
[51] **Int.Cl. A61N 1/36 (2006.01) A41D 13/05 (2006.01) A61N 1/02 (2006.01)**
[25] EN
[54] **A SET THERAPEUTIC DRESS BASED ON ELECTRIC CELLULAR STIMULATION WITH ELECTRIC PULSES OF LOW VOLTAGE**
[54] **PANSEMENT THERAPEUTIQUE FIXE FONDE SUR LA STIMULATION ELECTRIQUE CELLULAIRE AU MOYEN D`IMPULSIONS ELECTRIQUES BASSE TENSION**
[72] OROUJI, REZA, IR
[71] OROUJI, REZA, IR
[85] 2020-08-14
[86] 2020-07-06 (PCT/IB2020/056334)
[87] (3090137)

---

[21] **3,100,528**
[13] A1
[51] **Int.Cl. A47J 43/04 (2006.01) A47J 27/00 (2006.01) A47J 36/00 (2006.01) F24C 7/00 (2006.01)**
[25] EN
[54] **INDUCTION RANGE HAVING AUTOMATIC DOUBLE SIDE ROASTING FUNCTION**
[54] **POELE A INDUCTION AYANT UNE FONCTION DE ROTISSAGE DOUBLE FACE AUTOMATIQUE**
[72] LEE, MYUNG OCK, KR
[72] KIM, SANG WOO, KR
[71] PEACEWORLD.CO., LTD, KR
[85] 2020-11-24
[86] 2020-07-09 (PCT/KR2020/009025)
[87] (3100528)
[30] KR (10-2020-0082082) 2020-07-03

---

[21] **3,134,112**
[13] A1
[51] **Int.Cl. C07K 7/18 (2006.01) C07K 7/06 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **SYNTHETIC PEPTIDE BRAP AND APPLICATION IN PREPARATION OF ANTI-INFLAMMATORY DRUG FOR COVID-19 THEREOF**
[54] **PEPTIDE ANTAGONISTE DE RECEPTEUR DE LA BRADYKININE SYNTHETIQUE ET APPLICATION EN PREPARATION D`UN MEDICAMENT ANTIINFLAMMATOIRE CONTRE LA COVID-19**
[72] ZHANG, WANQIN, CN
[72] LI, YINTIAN, CN
[72] JI, XUEWEN, CN
[72] ZHAO, LIMEI, CN
[71] TAIAN CITY QIHANG BIOTECHNOLOGY CO., CN
[85] 2021-10-12
[86] 2020-07-07 (PCT/CN2020/100629)
[87] (3134112)

---

[21] **3,137,518**
[13] A1
[51] **Int.Cl. C09K 8/62 (2006.01) C09K 8/80 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **FORMING MINERAL IN FRACTURES IN A GEOLOGICAL FORMATION**
[54] **FORMATION DE MINERAUX DANS DES FRACTURES D'UNE FORMATION GEOLOGIQUE**
[72] SCHIPPER, DESMOND, US
[72] HULL, KATHERINE LEIGH, US
[72] HAQUE, MOHAMMAD HAMIDUL, US
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2021-10-20
[86] 2020-04-22 (PCT/US2020/029324)
[87] (WO2020/219548)
[30] US (16/392,420) 2019-04-23

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[21] **3,138,999**
[13] A1
[51] **Int.Cl. A61B 1/303 (2006.01) A61B 1/00 (2006.01) A61B 1/32 (2006.01)**
[25] EN
[54] **VAGINAL SPECULUM**
[54] **SPECULUM VAGINAL**
[72] HEGENBERGER, MALENE, DK
[71] HEGENBERGERSPECULUM APS, DK
[85] 2021-11-03
[86] 2020-05-07 (PCT/EP2020/062707)
[87] (WO2020/225360)
[30] GB (1906562.2) 2019-05-09

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[21] **3,139,706**
[13] A1
[51] **Int.Cl. G06F 8/34 (2018.01) G06N 3/04 (2006.01)**
[25] EN
[54] **VISUAL PROGRAMMING FOR DEEP LEARNING**
[54] **PROGRAMMATION VISUELLE POUR APPRENTISSAGE PROFOND**
[72] LIN, HAOXIANG, US
[72] CHEN, CHENG, US
[72] YANG, MAO, US
[72] LIU, SHUGUANG, US
[71] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2021-11-08
[86] 2020-05-06 (PCT/US2020/031544)
[87] (WO2020/263421)
[30] CN (201910578856.X) 2019-06-28

[21] **3,141,142**
[13] A1
[51] **Int.Cl. C03C 21/00 (2006.01) C08G 18/28 (2006.01) C08G 18/32 (2006.01) C08G 18/38 (2006.01) C08G 18/66 (2006.01) C08G 18/72 (2006.01) C08G 18/75 (2006.01) C09J 11/06 (2006.01) C09J 175/04 (2006.01) C09K 9/02 (2006.01) G02B 5/23 (2006.01) G02C 7/10 (2006.01)**
[25] EN
[54] **PHOTOCHROMIC OPTICAL ARTICLE AND METHOD FOR MANUFACTURING SAME**
[54] **ARTICLE OPTIQUE PHOTOCHROMIQUE ET PROCEDE POUR SA FABRICATION**
[72] MORI, KATSUHIRO, JP
[72] NOGUCHI, TAKAO, JP
[72] MOMODA, JUNJI, JP
[71] TOKUYAMA CORPORATION, JP
[85] 2021-10-01
[86] 2020-04-03 (PCT/JP2020/015374)
[87] (WO2020/204176)
[30] JP (2019-071587) 2019-04-03
[30] JP (2019-237232) 2019-12-26
[30] JP (2019-237233) 2019-12-26

[21] **3,141,434**
[13] A1
[51] **Int.Cl. C04B 7/32 (2006.01) C04B 7/44 (2006.01) C04B 28/06 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A BINDER**
[54] **PROCEDE DE PRODUCTION D'UN LIANT**
[72] BROOKS, STEPHEN ALAN, GB
[72] OBERSTE-PADTBERG, RUDIGER, DE
[72] SIEKSMEIER, JORG, DE
[72] MOTZET, HUBERT, DE
[72] POMBERG, MICHAEL, DE
[71] ARDEX GROUP GMBH, DE
[85] 2021-11-20
[86] 2020-12-11 (PCT/EP2020/085745)
[87] (WO2021/180351)
[30] GB (2003674.5) 2020-03-13

[21] **3,142,391**
[13] A1
[51] **Int.Cl. C07C 271/02 (2006.01) C01B 21/082 (2006.01) C01B 21/12 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING A SOLUTION OF AMMONIUM CARBAMATE**
[54] **PROCEDE DE PRODUCTION D'UNE SOLUTION DE CARBAMATE D'AMMONIUM**
[72] BARAK, AYALA, IL
[71] A.Y. LABORATORIES LTD., IL
[85] 2021-12-01
[86] 2020-06-24 (PCT/IL2020/050701)
[87] (WO2021/005588)
[30] US (62/871,412) 2019-07-08

[21] **3,142,393**
[13] A1
[51] **Int.Cl. F04D 29/16 (2006.01) F04D 29/38 (2006.01) F04D 29/52 (2006.01)**
[25] EN
[54] **FAN WITH IMPROVED DUCT**
[54] **VENTILATEUR A CONDUIT AMELIORE**
[72] MOSIEWICZ, ROBERTO EDUARDO, IT
[71] R.E.M. HOLDING S.R.L., IT
[85] 2021-12-01
[86] 2020-05-07 (PCT/IB2020/054312)
[87] (WO2020/245674)
[30] IT (102019000007935) 2019-06-04

[21] **3,142,396**
[13] A1
[51] **Int.Cl. A01N 59/08 (2006.01) A01N 25/00 (2006.01) A01N 59/00 (2006.01) C02F 1/76 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A BIOCIDE**
[54] **PROCEDE DE PRODUCTION D'UN BIOCIDE**
[72] BARAK, AYALA, IL
[71] A.Y. LABORATORIES LTD., IL
[85] 2021-12-01
[86] 2020-06-17 (PCT/IL2020/050669)
[87] (WO2021/001816)
[30] US (62/869,273) 2019-07-01

[21] **3,142,404**
[13] A1
[51] **Int.Cl. A61K 38/08 (2019.01)**
[25] EN
[54] **KRAS G12V MUTANT BINDS TO JAK1, INHIBITORS, PHARMACEUTICAL COMPOSITIONS, AND METHODS RELATED THERETO**
[54] **MUTANT G12V DE KRAS SE LIANT A JAK1, INHIBITEURS, COMPOSITIONS PHARMACEUTIQUES ET PROCEDES ASSOCIES**
[72] FU, HAIAN, US
[72] MO, XIULEI, US
[72] TANG, CONG, US
[71] EMORY UNIVERSITY, US
[85] 2021-12-01
[86] 2020-06-08 (PCT/US2020/036607)
[87] (WO2020/247914)
[30] US (62/858,472) 2019-06-07

[21] **3,142,513**
[13] A1
[51] **Int.Cl. C07K 19/00 (2006.01) A61P 31/12 (2006.01) A61P 31/18 (2006.01) A61P 35/00 (2006.01) C07K 14/475 (2006.01) C07K 14/52 (2006.01) C07K 16/00 (2006.01) C12N 5/10 (2006.01) C12N 15/62 (2006.01) C12N 15/87 (2006.01)**
[25] EN
[54] **FLT3L-FC FUSION PROTEINS AND METHODS OF USE**
[54] **PROTEINES DE FUSION FLT3L-FC ET PROCEDES D'UTILISATION**
[72] AMBROGELLY, ALEXANDRE, US
[72] BACA, MANUEL, US
[72] CARR, BRIAN A., US
[72] CHU, HON MAN HAMLET, US
[72] HUNG, MAGDELEINE S., US
[72] KANWAR, MANU, US
[72] KUHNE, MICHELLE R., US
[72] REHDER, DOUGLAS S., US
[72] SCHENAUER, MATTHEW R., US
[72] WILSON, NICHOLAS S., US
[71] GILEAD SCIENCES, INC., US
[85] 2021-12-01
[86] 2020-06-23 (PCT/US2020/039143)
[87] (WO2020/263830)
[30] US (62/866,584) 2019-06-25

[21] **3,142,521**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/7088 (2006.01) A61P 7/06 (2006.01) C12N 9/22 (2006.01) C12N 15/10 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR EDITING BETA-GLOBIN FOR TREATMENT OF HEMAGLOBINOPATHIES**
[54] **COMPOSITIONS ET PROCEDES POUR L'EDITION DE BETA-GLOBINE POUR LE TRAITEMENT D'HEMOGLOBINOPATHIES**
[72] D'SOUZA, SANJAY, US
[72] WEST, JASON, US
[72] EUSTACE, BRENDA K., US
[72] MAHAJAN, SUDIPTA, US
[71] VERTEX PHARMACEUTICALS INCORPORATED, US
[85] 2021-12-01
[86] 2020-06-17 (PCT/US2020/038203)
[87] (WO2020/257325)
[30] US (62/862,539) 2019-06-17

[21] **3,142,527**
[13] A1
[51] **Int.Cl. C08J 3/205 (2006.01) C08K 3/013 (2018.01) B29B 7/74 (2006.01) C08L 9/00 (2006.01) C08L 9/06 (2006.01)**
[25] EN
[54] **METHODS OF PREPARING A COMPOSITE HAVING ELASTOMER AND FILLER**
[54] **PROCEDES DE PREPARATION D'UN COMPOSITE COMPORTANT UN ELASTOMERE ET UNE CHARGE**
[72] KUTSOVSKY, YAKOV E., US
[72] GREEN, MARTIN C., US
[72] ZHANG, PING, US
[72] DOSHI, DHAVAL A., US
[72] LI, JIAXI, US
[72] MORRIS, MICHAEL D., US
[72] HULT, BRIAN N., US
[72] DICKINSON, RALPH E., US
[72] YUROVSKAYA, IRINA S., US
[72] RUMPF, FREDERICK H., US
[72] CHOUDHARY, SATYAN, US
[72] ALI, HASSAN M., US
[72] NIKOVA, ANI T., US
[72] XIONG, JINCHENG, US
[71] BEYOND LOTUS LLC, US
[85] 2021-12-02
[86] 2020-06-04 (PCT/US2020/036168)
[87] (WO2020/247663)
[30] US (62/857,779) 2019-06-05

[21] **3,142,577**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **DEVICES AND SYSTEMS FOR DOCKING A HEART VALVE**
[54] **DISPOSITIFS ET SYSTEMES PERMETTANT D'ANCRER UNE VALVULE CARDIAQUE**
[72] ZAMANI, SHAHRAM, US
[72] GERARD, ROBERT JAMES, US
[72] RODRIGUEZ, ALISON LOUISE, US
[72] ROMERO, ANTHONY MICHAEL, US
[72] DESROSIERS, JOHN J., US
[72] ROSEN, IZAAK, US
[72] SCHAFFER, ANDREW PAUL, US
[72] GUPTA, AVINA, US
[72] O'DELL, TYLER DALE, US
[72] BAKER, YARA, US
[72] DUONG, UYEN, US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2021-12-02
[86] 2021-02-26 (PCT/US2021/019770)
[87] (WO2021/188278)
[30] US (62/991,687) 2020-03-19
[30] US (63/137,619) 2021-01-14

[21] **3,142,583**
[13] A1
[51] **Int.Cl. C01F 7/306 (2022.01) C01B 7/03 (2006.01)**
[25] EN
[54] **PROCESS AND PLANT FOR THERMAL DECOMPOSITION OF ALUMINIUM CHLORIDE HYDRATE INTO ALUMINIUM OXIDE**
[54] **PROCEDE ET INSTALLATION DE DECOMPOSITION THERMIQUE DE CHLORURE D'ALUMINIUM HYDRATE EN OXYDE D'ALUMINIUM**
[72] SCHNEIDER, GUNTER, DE
[72] STURM, PETER, DE
[72] VON GARNIER, AGNES, DE
[72] PERANDER, LINUS, NO
[71] METSO OUTOTEC (FINLAND) OY, FI
[85] 2021-12-03
[86] 2019-06-07 (PCT/EP2019/065025)
[87] (WO2020/244782)

[21] **3,142,587**
[13] A1
[51] **Int.Cl. B23Q 17/20 (2006.01)**
[25] EN
[54] **WORKPIECE TESTING METHOD AND WORKPIECE TESTING SYSTEM**
[54] **PROCEDE DE CONTROLE DE PIECES ET SYSTEME DE CONTROLE DE PIECES**
[72] HUFSCHMIED, RALPH, DE
[72] SAUSE, MARKUS, DE
[72] LINSCHEID, FLORIAN, DE
[71] HUFSCHMIED ZERSPANUNGSSYSTEME GMBH, DE
[71] UNIVERSITAT AUGSBURG, DE
[85] 2021-12-03
[86] 2020-05-04 (PCT/EP2020/062283)
[87] (WO2020/244859)
[30] DE (10 2019 003 921.1) 2019-06-05

[21] **3,142,592**
[13] A1
[51] **Int.Cl. B65G 1/137 (2006.01) B65G 1/04 (2006.01)**
[25] EN
[54] **STORAGE SYSTEM**
[54] **SYSTEME DE STOCKAGE**
[72] FAGERLAND, INGVAR, NO
[71] AUTOSTORE TECHNOLOGY AS, NO
[85] 2021-12-03
[86] 2020-05-07 (PCT/EP2020/062726)
[87] (WO2020/249331)
[30] NO (20190710) 2019-06-11

[21] **3,142,604**
[13] A1
[51] **Int.Cl. C08F 220/28 (2006.01) C08F 220/34 (2006.01) C08F 220/36 (2006.01) C08F 220/38 (2006.01)**
[25] EN
[54] **A POLYMER AND A COSMETIC COMPOSITION COMPRISING THE POLYMER**
[54] **POLYMERE ET COMPOSITION COSMETIQUE COMPRENANT LE POLYMERE**
[72] LAHORKAR, PRAFUL GULAB RAO, IN
[72] LIU, SHIYONG, CN
[72] PERUMAL, RAJKUMAR, IN
[72] SHI, SHENGYU, CN
[72] VAIDYA, ASHISH ANANT, IN
[72] YAO, CHENZHI, CN
[72] YANG, XIAOXIA, CN
[71] UNILEVER GLOBAL IP LIMITED, GB
[85] 2021-12-03
[86] 2020-05-26 (PCT/EP2020/064506)
[87] (WO2020/244960)
[30] CN (PCT/CN2019/090001) 2019-06-04
[30] EP (19183810.1) 2019-07-02

[21] **3,142,607**
[13] A1
[51] **Int.Cl. C08K 3/04 (2006.01) C08K 3/08 (2006.01) C08K 7/06 (2006.01) C08L 67/02 (2006.01) H01Q 17/00 (2006.01) H05K 9/00 (2006.01)**
[25] EN
[54] **ELECTROMAGNETIC WAVES ABSORBING MATERIAL**
[54] **MATERIAU ABSORBANT LES ONDES ELECTROMAGNETIQUES**
[72] GUBBELS, ERIK, DE
[72] HENNIG, INGOLF, DE
[72] SCHOEMER, MARTINA, DE
[72] EIBECK, PETER, DE
[71] BASF SE, DE
[85] 2021-12-03
[86] 2020-05-27 (PCT/EP2020/064697)
[87] (WO2020/244995)
[30] DE (10 2019 006 227.2) 2019-06-05

[21] **3,142,610**
[13] A1
[51] **Int.Cl. C07K 1/22 (2006.01) C07K 16/00 (2006.01) G01N 33/543 (2006.01) G01N 30/38 (2006.01)**
[25] EN
[54] **METHODS FOR PURIFYING ANTIBODIES**
[54] **PROCEDES DE PURIFICATION D'ANTICORPS**
[72] WATSON, NEIL ALAN, GB
[72] PHIPPEN, CURTIS WILLIAM, GB
[71] UCB BIOPHARMA SRL, BE
[85] 2021-12-03
[86] 2020-07-30 (PCT/EP2020/071533)
[87] (WO2021/023619)
[30] EP (19189841.0) 2019-08-02

[21] **3,142,612**
[13] A1
[51] **Int.Cl. B65D 90/58 (2006.01) B67D 3/04 (2006.01) F16K 1/20 (2006.01) F16K 27/02 (2006.01)**
[25] EN
[54] **VALVE SHAFT LOCKING MECHANISM**
[54] **VERROUILLAGE D'AXE DE VANNE**
[72] SCHNEIDER, SEBASTIAN, DE
[72] OBERMANN, ERNST, DE
[71] PROTECHNA S.A., CH
[85] 2021-12-03
[86] 2020-07-03 (PCT/EP2020/068852)
[87] (WO2021/004951)
[30] DE (10 2019 118 534.3) 2019-07-09

[21] **3,142,614**
[13] A1
[51] **Int.Cl. B65D 47/06 (2006.01) B65D 1/02 (2006.01) B65D 35/46 (2006.01) B65D 47/24 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR HANDLING A SEALING DEVICE**
[54] **DISPOSITIF ET PROCEDE POUR MANIPULER UN DISPOSITIF D'ETANCHEITE**
[72] KNUTSEN, RUNE KRISTIAN, NO
[72] GEBBINK, JEROEN GERRIT ANTON, NL
[71] SMARTSEAL AS, NO
[85] 2021-12-03
[86] 2020-06-29 (PCT/EP2020/068284)
[87] (WO2020/260706)
[30] NL (2023401) 2019-06-28

[21] **3,142,620**
[13] A1
[51] **Int.Cl. G08B 21/04 (2006.01)**
[25] EN
[54] **MONITORING A SUBJECT**
[54] **SURVEILLANCE D'UN SUJET**
[72] PIJL, MARTEN JEROEN, NL
[71] LIFELINE SYSTEMS COMPANY, US
[85] 2021-12-03
[86] 2020-06-18 (PCT/EP2020/066848)
[87] (WO2020/260108)
[30] EP (19182674.2) 2019-06-26

[21] **3,142,623**
[13] A1
[51] **Int.Cl. E04B 1/86 (2006.01)**
[25] EN
[54] **ACOUSTIC PANEL COMPRISING OFFSET GROOVES**
[54] **PANNEAU ACOUSTIQUE DOTE DE RAINURES DECALEES**
[72] BRAUN, ROGER, CH
[72] WYSS, JONATHAN, CH
[71] SWISS KRONO TEC AG, CH
[85] 2021-12-03
[86] 2020-06-09 (PCT/EP2020/065976)
[87] (WO2020/254155)
[30] EP (19180993.8) 2019-06-18

[21] **3,142,627**
[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/10 (2020.01) A24F 40/85 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION DEVICE**
[54] **DISPOSITIF POUR FOURNIR UN AEROSOL**
[72] WHIFFEN, ROBERT JOHN, CN
[72] ABI AOUN, WALID, GB
[72] CAMPBELL, JEREMY, GB
[72] DIMMICK, BARRY, GB
[72] ENGLAND, WILLIAM, GB
[72] MCGRATH, CONOR JOHN, GB
[72] OAKLEY, BARNABY, GB
[72] THOMAS, MICHAEL, GB
[72] WARREN, LUKE, GB
[72] QUARMBY, JACK, GB
[72] LEONI, CHARLES, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2021-12-03
[86] 2020-06-05 (PCT/EP2020/065737)
[87] (WO2020/249492)
[30] CN (PCT/CN2019/090590) 2019-06-10

[21] **3,142,628**
[13] A1
[51] **Int.Cl. C07K 14/005 (2006.01)**
[25] EN
[54] **METHOD OF PURIFYING A COMPOSITION COMPRISING A GROUP B ADENOVIRUS**
[54] **PROCEDE DE PURIFICATION D'UNE COMPOSITION COMPRENANT UN ADENOVIRUS DU GROUPE B**
[72] CLARKE, PETER, US
[72] ALVIS, SIMON, GB
[71] PSIOXUS THERAPEUTICS LIMITED, GB
[85] 2021-12-03
[86] 2020-06-24 (PCT/EP2020/067668)
[87] (WO2020/260374)
[30] GB (1909081.0) 2019-06-25

[21] **3,142,630**
[13] A1
[51] **Int.Cl. B64C 1/14 (2006.01) G05G 25/04 (2006.01)**
[25] FR
[54] **AIRCRAFT DOOR PROVIDED WITH A LEVER FOR EMERGENCY OPENING FROM OUTSIDE**
[54] **PORTE D'AERONEF MUNIE D'UN LEVIER D'OUVERTURE DE SECOURS PAR L'EXTERIEUR**
[72] ROUZADE, EMMANUEL, FR
[71] LATECOERE, FR
[85] 2021-12-03
[86] 2020-06-03 (PCT/EP2020/065333)
[87] (WO2020/245188)
[30] FR (FR1905935) 2019-06-05

[21] **3,142,637**
[13] A1
[51] **Int.Cl. H02G 15/06 (2006.01)**
[25] EN
[54] **POWER CABLE TERMINATION SYSTEM**
[54] **SYSTEME DE TERMINAISON DE CABLE D'ALIMENTATION**
[72] FALTH, FREDRIK, SE
[71] NKT HV CABLES AB, SE
[85] 2021-12-03
[86] 2020-06-04 (PCT/EP2020/065480)
[87] (WO2020/245269)
[30] EP (19179006.2) 2019-06-07

[21] **3,142,706**
[13] A1
[51] **Int.Cl. A61L 9/12 (2006.01) A01M 29/12 (2011.01) A01M 1/20 (2006.01) A01M 7/00 (2006.01) A61L 9/03 (2006.01)**
[25] FR
[54] **REMOVABLE ASSEMBLY FOR A DIFFUSING APPARATUS**
[54] **ENSEMBLE AMOVIBLE POUR UN APPAREIL DIFFUSEUR**
[72] PEREZ, YOANN, FR
[72] RIVIERE, PHILIPPE, FR
[72] PICHON, PHILIPPE, FR
[71] CAELIMP, FR
[85] 2021-12-06
[86] 2019-12-19 (PCT/FR2019/053207)
[87] (WO2020/254733)
[30] FR (PCT/FR2019/051490) 2019-06-18

[21] **3,142,708**
[13] A1
[51] **Int.Cl. F01D 25/16 (2006.01) F01D 9/04 (2006.01) F02C 7/06 (2006.01)**
[25] EN
[54] **ANNULAR COMPONENT FOR SUPPORTING A BEARING OF A TURBINE ENGINE**
[54] **PIECE ANNULAIRE DE SUPPORT D'UN PALIER POUR UNE TURBOMACHINE**
[72] JOSSE, ALBERT, FR
[72] VIVE, LOIS PIERRE DENIS, FR
[72] CASAUX-BIC, JEAN-MAURICE, FR
[72] LAMEIGNERE, YVAN LUDOVIC, FR
[71] SAFRAN HELICOPTER ENGINES, FR
[85] 2021-12-06
[86] 2020-06-04 (PCT/FR2020/050953)
[87] (WO2020/249887)
[30] FR (1906249) 2019-06-12

[21] **3,142,718**
[13] A1
[51] **Int.Cl. A47J 27/00 (2006.01) A47G 19/30 (2006.01) A47J 36/14 (2006.01) A47J 37/07 (2006.01) A47J 43/00 (2006.01)**
[25] EN
[54] **HANDLING DEVICE FOR ROASTED FOOD**
[54] **DISPOSITIF DE MANIPULATION D'ALIMENTS ROTIS**
[72] KUTTRUFF, BENNO, DE
[71] KUTTRUFF, BENNO, DE
[85] 2021-12-06
[86] 2020-06-05 (PCT/EP2020/065573)
[87] (WO2020/245328)
[30] DE (20 2019 103 217.0) 2019-06-07

[21] **3,142,719**
[13] A1
[51] **Int.Cl. G08B 21/04 (2006.01) G08B 29/26 (2006.01)**
[25] EN
[54] **EVALUATING MOVEMENT OF A SUBJECT**
[54] **EVALUATION DU MOUVEMENT D'UN SUJET**
[72] TEN KATE, WARNER RUDOLPH THEOPHILE, NL
[71] LIFELINE SYSTEMS COMPANY, US
[85] 2021-12-06
[86] 2020-06-16 (PCT/EP2020/066537)
[87] (WO2020/260059)
[30] EP (19182377.2) 2019-06-25

[21] **3,142,721**
[13] A1
[51] **Int.Cl. B65G 1/12 (2006.01) B65G 1/04 (2006.01) B65G 1/10 (2006.01)**
[25] FR
[54] **THREE-DIMENSIONAL, MODULAR SYSTEM FOR MOVING STANDARD ELEMENTS WITHIN A THREE-DIMENSIONAL STRUCTURE OF THE GRID TYPE**
[54] **SYSTEME DE DEPLACEMENT MODULAIRE TRIDIMENSIONNEL D'ELEMENTS STANDARD AU SEIN D'UNE STRUCTURE TRIDIMENSIONNELLE DE TYPE MAILLAGE**
[72] PEREZ, SAMUEL, FR
[72] LEVY, JONATHAN, FR
[71] GALAM ROBOTICS, FR
[85] 2021-12-06
[86] 2020-06-26 (PCT/EP2020/068108)
[87] (WO2020/260639)
[30] FR (FR1907047) 2019-06-27

[21] **3,142,724**
[13] A1
[51] **Int.Cl. G01N 15/14 (2006.01)**
[25] EN
[54] **DETERMINING ORE CHARACTERISTICS**
[54] **DETERMINATION DE CARACTERISTIQUES DE MINERAI**
[72] HUNT, THOMAS PETER, US
[72] TREAT, NEIL DAVID, US
[72] DAVIS, KAREN, US
[72] GONCHARUK, ARTEM, US
[72] SAHNEY, VIKRAM NEAL, US
[71] X DEVELOPMENT LLC, US
[85] 2021-12-03
[86] 2020-06-04 (PCT/US2020/036065)
[87] (WO2020/247588)
[30] US (62/857,592) 2019-06-05

[21] **3,142,725**
[13] A1
[51] **Int.Cl. A61K 9/127 (2006.01) C12N 15/113 (2010.01) A61K 48/00 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **SYNTHETIC LIPIDS FOR MRNA DELIVERY**
[54] **LIPIDES SYNTHETIQUES POUR LA LIBERATION D'ARNM**
[72] XU, QIAOBING, US
[72] WANG, MING, GB
[71] TRUSTEES OF TUFTS COLLEGE, US
[85] 2021-12-03
[86] 2020-06-04 (PCT/US2020/036085)
[87] (WO2020/247604)
[30] US (62/857,111) 2019-06-04

[21] **3,142,726**
[13] A1
[51] **Int.Cl. G06K 9/62 (2022.01) G06N 3/02 (2006.01) G06N 3/08 (2006.01)**
[25] EN
[54] **IMAGE CLASSIFICATION SYSTEM**
[54] **SYSTEME DE CLASSIFICATION D'IMAGES**
[72] WEN, LI, US
[72] HUO, ZHANPENG, US
[72] JIANG, JINGYA, US
[71] EXPEDIA, INC., US
[85] 2021-12-03
[86] 2020-06-04 (PCT/US2020/036092)
[87] (WO2020/251831)
[30] US (16/440,859) 2019-06-13

[21] **3,142,727**
[13] A1
[51] **Int.Cl. G01N 33/52 (2006.01) G01N 33/58 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **USING MASS SPECTROMETRY TO IDENTIFY ENDOMETRIOSIS TISSUE**
[54] **UTILISATION DE LA SPECTROMETRIE DE MASSE POUR IDENTIFIER UN TISSU D'ENDOMETRIOSE**
[72] SCHIAVINATO EBERLIN, LIVIA, US
[72] BREEN, MICHAEL T., US
[72] ZHANG, JIALING, US
[72] FEIDER, CLARA L., US
[72] LIN, JOHN, US
[72] MILNER, THOMAS, US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2021-12-03
[86] 2020-06-05 (PCT/US2020/036351)
[87] (WO2020/247769)
[30] US (62/858,300) 2019-06-06

[21] **3,142,728**
[13] A1
[51] **Int.Cl. G01V 99/00 (2009.01) E21B 41/00 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **FRACTURING-FLUID FORMULA WORKFLOW**
[54] **FLUX DE TRAVAIL DE FORMULE DE FLUIDE DE FRACTURATION**
[72] XU, CHICHENG, US
[72] LI, LEIMING, US
[72] HAN, YANHUI, US
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2021-12-03
[86] 2020-06-04 (PCT/US2020/036112)
[87] (WO2020/247621)
[30] US (16/433,735) 2019-06-06

[21] **3,142,729**
[13] A1
[51] **Int.Cl. H01H 31/02 (2006.01) H01H 9/08 (2006.01) H01H 19/04 (2006.01) H01H 19/08 (2006.01) H01H 19/10 (2006.01) H01H 33/02 (2006.01)**
[25] EN
[54] **SUPPORT FOR ELECTRICAL SWITCH**
[54] **SUPPORT POUR INTERRUPTEUR ELECTRIQUE**
[72] SWING, DONALD FLETCHER, III, US
[71] HUBBELL INCORPORATED, US
[85] 2021-12-03
[86] 2020-06-04 (PCT/US2020/036164)
[87] (WO2020/247660)
[30] US (62/857,064) 2019-06-04
[30] US (62/881,675) 2019-08-01

[21] **3,142,730**
[13] A1
[51] **Int.Cl. A61K 8/73 (2006.01) A61K 8/64 (2006.01) A61Q 19/08 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR MICROFLILLNG THE SKIN WITH HYALURONIC ACID USING MICROCHANNEL TECHNOLOGY**
[54] **PROCEDES ET COMPOSITIONS POUR LE MICRO-REMPLISSAGE DE LA PEAU AVEC DE L'ACIDE HYALURONIQUE A L'AIDE DE LA TECHNOLOGIE DES MICROCANAUX**
[72] CHANG, SOBIN, US
[71] AQUAVIT PHARMACEUTICALS, INC., US
[85] 2021-12-03
[86] 2020-06-04 (PCT/US2020/036195)
[87] (WO2020/247683)
[30] US (62/856,740) 2019-06-04

[21] **3,142,731**
[13] A1
[51] **Int.Cl. G01N 23/223 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DIAGNOSTICS FOR BIOLOGICAL DISORDERS ASSOCIATED WITH PERIODIC VARIATIONS IN METAL METABOLISM**
[54] **SYSTEMES ET METHODES DE DIAGNOSTIC DE TROUBLES BIOLOGIQUES ASSOCIES A DES VARIATIONS PERIODIQUES DU METABOLISME DES METAUX**
[72] ARORA, MANISH, US
[72] CURTIN, PAUL, US
[72] AUSTIN, CHRISTINE, US
[71] ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI, US
[85] 2021-12-03
[86] 2020-06-05 (PCT/US2020/036368)
[87] (WO2020/247781)
[30] US (62/858,260) 2019-06-06

[21] **3,142,732**
[13] A1
[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/00 (2006.01) A61B 17/06 (2006.01) A61B 17/42 (2006.01) A61F 2/00 (2006.01) A61F 2/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PARAURETHRAL SUPPORT RESTORATION TO TREAT STRESS INCONTINENCE**
[54] **SYSTEME ET PROCEDE DE RESTAURATION DE SUPPORT PARA-URETRAL POUR TRAITER L'INCONTINENCE DE STRESS**
[72] DAVILA, GUILLERMO, US
[71] DAVILA, GUILLERMO, US
[85] 2021-12-03
[86] 2020-06-05 (PCT/US2020/036266)
[87] (WO2020/247717)
[30] US (62/857,918) 2019-06-06

[21] **3,142,733**
[13] A1
[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 35/17 (2015.01) G01N 15/14 (2006.01) G01N 33/50 (2006.01) G01N 33/569 (2006.01)**
[25] EN
[54] **METHODS FOR MANUFACTURING T CELLS BY DIRECT SORTING AND COMPOSITIONS THEREOF**
[54] **METHODES DE FABRICATION DE LYMPHOCYTES T PAR TRI DIRECT ET COMPOSITIONS ASSOCIEES**
[72] ALPERT, AMIR, US
[72] MAURER, DOMINIK, DE
[72] SMITH, ANASTASIYA, US
[72] WAGNER, CLAUDIA, DE
[72] MOHAMED, ALI, US
[71] IMMATICS US, INC., US
[71] IMMATICS BIOTECHNOLOGIES GMBH, DE
[85] 2021-12-03
[86] 2020-06-05 (PCT/US2020/036398)
[87] (WO2020/247802)
[30] US (62/858,167) 2019-06-06
[30] DE (10 2019 129 341.3) 2019-10-30

[21] **3,142,734**
[13] A1
[51] **Int.Cl. F16B 33/02 (2006.01) G02B 7/04 (2021.01) G02B 7/06 (2021.01) G02B 7/12 (2021.01) G02B 23/16 (2006.01) G02B 23/18 (2006.01)**
[25] EN
[54] **DIOPTER ADJUSTMENT MECHANISM**
[54] **MECANISME D'AJUSTEMENT DIOPTRIQUE**
[72] MCDERMOT, CONNOR, US
[72] COLLINS, ALEC, US
[71] SHELTERED WINGS, INC. D/B/A VORTEX OPTICS, US
[85] 2021-12-03
[86] 2020-06-05 (PCT/US2020/036279)
[87] (WO2021/011110)
[30] US (62/857,518) 2019-06-05

[21] **3,142,735**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **ANTIGEN-BINDING PROTEIN CONSTRUCTS AND USES THEREOF**
[54] **CONSTRUCTIONS PROTEIQUES DE LIAISON A L'ANTIGENE ET UTILISATIONS DE CELLES-CI**
[72] NICHOLS, ALEXANDER J., US
[72] FISKE, BRIAN P., US
[72] GERA, NIMISH, US
[71] MYTHIC THERAPEUTICS, INC., US
[85] 2021-12-03
[86] 2020-06-05 (PCT/US2020/036435)
[87] (WO2020/247827)
[30] US (62/858,310) 2019-06-06
[30] US (62/897,965) 2019-09-09

[21] **3,142,736**
[13] A1
[51] **Int.Cl. A47L 11/284 (2006.01) A47L 9/04 (2006.01) A47L 11/294 (2006.01) A47L 11/30 (2006.01)**
[25] EN
[54] **ROBOTIC CLEANER**
[54] **APPAREIL DE NETTOYAGE ROBOTIQUE**
[72] SUTTER, CATRIONA C. A., US
[72] HARTING, DAVID, US
[72] MATHIEU, MARGARET, US
[72] HEMAN-ACKAH, MARIAN, US
[72] PETRO, DOUGLAS, US
[72] HOFFMAN, TREVOR, US
[72] WOODROW, CHAD, US
[71] SHARKNINJA OPERATING LLC, US
[85] 2021-12-03
[86] 2020-06-05 (PCT/US2020/036294)
[87] (WO2020/247732)
[30] US (62/857,535) 2019-06-05

[21] **3,142,737**
[13] A1
[51] **Int.Cl. C08G 77/38 (2006.01) C08G 77/42 (2006.01) C09D 183/10 (2006.01)**
[25] EN
[54] **TWO-STAGE HEAVIES REMOVAL IN LNG PROCESSING**
[54] **ELIMINATION DE COMPOSANTS LOURDS EN DEUX ETAPES DANS UN TRAITEMENT DE GNL**
[72] CHAN, JINGHUA, US
[72] DAVIES, PAUL R., US
[72] MA, QI, US
[72] CALDERON, MICHAEL J., US
[72] EMBRY, DALE L., US
[71] CONOCOPHILLIPS COMPANY, US
[85] 2021-12-03
[86] 2020-06-05 (PCT/US2020/036340)
[87] (WO2020/247762)
[30] US (62/857,683) 2019-06-05

[21] **3,142,738**
[13] A1
[51] **Int.Cl. A61K 38/20 (2006.01) A61K 47/68 (2017.01)**
[25] EN
[54] **FUSIONS OF MUTANT INTERLEUKIN-2 POLYPEPTIDES WITH ANTIGEN BINDING MOLECULES FOR MODULATING IMMUNE CELL FUNCTION**
[54] **FUSIONS DE POLYPEPTIDES D'INTERLEUKINE-2 MUTANTS AVEC DES MOLECULES DE LIAISON A L'ANTIGENE POUR MODULER LA FONCTION DE CELLULES IMMUNITAIRES**
[72] DJURETIC, IVANA, US
[72] YEUNG, YIK ANDY, US
[71] ASHER BIOTHERAPEUTICS, INC., US
[85] 2021-12-03
[86] 2020-06-05 (PCT/US2020/036454)
[87] (WO2020/247843)
[30] US (62/857,726) 2019-06-05

[21] **3,142,739**
[13] A1
[51] **Int.Cl. A42B 1/24 (2021.01) A42B 1/248 (2021.01) A42B 1/00 (2021.01) G09F 3/02 (2006.01) G09F 21/02 (2006.01)**
[25] EN
[54] **ATTACHMENT FOR CAPS**
[54] **FIXATION DESTINEE A DES CAPUCHONS**
[72] ELDRIDGE, MATTHEW RYAN, US
[71] SNAPS VENTURES INC., US
[85] 2021-12-03
[86] 2020-06-03 (PCT/US2020/036006)
[87] (WO2020/247554)
[30] US (62/857,267) 2019-06-04
[30] US (62/933,332) 2019-11-08
[30] US (62/980,138) 2020-02-21

[21] **3,142,740**
[13] A1
[51] **Int.Cl. A61K 39/145 (2006.01) C07K 14/11 (2006.01)**
[25] EN
[54] **INFLUENZA VIRUS BACKBONE**
[54] **SQUELETTE DE VIRUS DE LA GRIPPE**
[72] HATTA, YASUKO, US
[72] MOSER, MICHAEL J., US
[72] BILSEL, PAMUK, US
[71] FLUGEN, INC., US
[85] 2021-12-03
[86] 2020-06-05 (PCT/US2020/036455)
[87] (WO2020/247844)
[30] US (62/858,737) 2019-06-07

[21] **3,142,742**
[13] A1
[51] **Int.Cl. G06Q 50/34 (2012.01) G07F 17/32 (2006.01)**
[25] EN
[54] **PRE-PRINTED AND PRE-SELECTED LOTTERY TICKETS FOR POINT-OF-SALE PURCHASE**
[54] **BILLETS DE LOTERIE PRE-IMPRIMES ET PRESELECTIONNES POUR UN ACHAT EN POINT DE VENTE**
[72] GOTLIEB, RICHARD ALAN, US
[71] BLACKHAWK NETWORK, INC., US
[85] 2021-12-03
[86] 2020-06-05 (PCT/US2020/036500)
[87] (WO2020/247877)
[30] US (62/858,227) 2019-06-06

[21] **3,142,743**
[13] A1
[51] **Int.Cl. B08B 9/08 (2006.01) B08B 9/093 (2006.01) B60S 3/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CLEANING AND MAINTENANCE OF TANKS**
[54] **SYSTEMES ET PROCEDES DE NETTOYAGE ET DE MAINTENANCE DE RESERVOIRS**
[72] COLE, MATTHEW, US
[72] CAPPELLO, MICHAEL, US
[72] KOEHAN, GRANT, US
[72] STAUDER, MARK, US
[72] ARCHULETA, RICHARD THOMAS, US
[71] VEOLIA NUCLEAR SOLUTIONS, INC., US
[85] 2020-12-30
[86] 2019-07-02 (PCT/US2019/040397)
[87] (WO2020/010142)
[30] US (62/693,309) 2018-07-02
[30] US (62/806,781) 2019-02-16

[21] **3,142,746**
[13] A1
[51] **Int.Cl. H04N 1/32 (2006.01)**
[25] EN
[54] **MEDIA PROVENANCE CERTIFICATION VIA FRAGILE WATERMARKING**
[54] **CERTIFICATION DE LA PROVENANCE D'UN MEDIA PAR TATOUAGE NUMERIQUE FRAGILE**
[72] MALVAR, HENRIQUE S., US
[72] ENGLAND, PAUL, US
[72] HORVITZ, ERIC J., US
[71] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2021-12-03
[86] 2020-06-09 (PCT/US2020/036716)
[87] (WO2021/011116)
[30] US (62/873,791) 2019-07-12
[30] US (16/792,989) 2020-02-18

[21] **3,142,747**
[13] A1
[51] **Int.Cl. G06F 11/00 (2006.01) G06F 21/50 (2013.01) G06F 21/00 (2013.01)**
[25] EN
[54] **SOFTWARE APPLICATION FOR CONTINUALLY ASSESSING, PROCESSING, AND REMEDIATING CYBER-RISK IN REAL TIME**
[54] **APPLICATION LOGICIELLE POUR EVALUER, TRAITER ET REMEDIER EN CONTINU A UN CYBER-RISQUE EN TEMPS REEL**
[72] ENGLE, JEFFREY J., US
[72] NECLERIO, THOMAS R., US
[72] POSADA, ARIEL, US
[71] CONQUEST TECHNOLOGY SERVICES CORP, US
[85] 2021-12-03
[86] 2020-06-10 (PCT/US2020/036967)
[87] (WO2020/252001)
[30] US (62/859,414) 2019-06-10
[30] US (16/897,779) 2020-06-10

[21] **3,142,748**
[13] A1
[51] **Int.Cl. A61K 31/47 (2006.01) C07D 215/22 (2006.01) C07D 401/12 (2006.01)**
[25] EN
[54] **MODULATORS OF INTEGRATED STRESS RESPONSE PATHWAY**
[54] **MODULATEURS DE LA VOIE DE REPONSE INTEGREE AU STRESS**
[72] DELGADO OYARZO, LUZ MARINA, CL
[72] URETA DIAZ, GONZALO ANDRES, CL
[72] PUJALA, BRAHMAM, US
[72] PANPATIL, DAYANAND, US
[72] BERNALES, SEBASTIAN, US
[71] PRAXIS BIOTECH LLC, US
[85] 2021-12-03
[86] 2020-06-11 (PCT/US2020/037311)
[87] (WO2020/252207)
[30] US (62/860,683) 2019-06-12

[21] **3,142,755**
[13] A1
[51] **Int.Cl. A61K 31/5377 (2006.01) A61K 31/57 (2006.01) A61P 11/00 (2006.01)**
[25] EN
[54] **COMPOSITION COMPRISING A THERAPEUTIC AGENT AND A RESPIRATORY STIMULANT AND METHODS FOR THE USE THEREOF**
[54] **COMPOSITION COMPRENANT UN AGENT THERAPEUTIQUE ET UN STIMULANT RESPIRATOIRE, ET PROCEDE D'UTILISATION ASSOCIE**
[72] HSU, JOHN, US
[71] HSU, JOHN, US
[85] 2021-12-06
[86] 2018-09-03 (PCT/US2018/049303)
[87] (WO2019/236121)
[30] US (16/001,711) 2018-06-06

[21] **3,142,757**
[13] A1
[51] **Int.Cl. B60T 13/66 (2006.01) B60T 8/17 (2006.01) B60T 8/88 (2006.01) B60T 17/22 (2006.01) F16D 66/00 (2006.01) F16D 66/02 (2006.01)**
[25] EN
[54] **BRAKE EQUIPMENT WEAR MONITORING FOR REMAINING USEFUL LIFE**
[54] **SURVEILLANCE D'USURE D'EQUIPEMENT DE FREIN EN CE QUI CONCERNE UNE DUREE DE VIE UTILE RESTANTE**
[72] CALL, DERICK, US
[71] NEW YORK AIR BRAKE LLC, US
[85] 2021-12-06
[86] 2019-06-07 (PCT/US2019/035935)
[87] (WO2020/246982)
[30] US (16/434,227) 2019-06-07

[21] **3,142,758**
[13] A1
[51] **Int.Cl. A61K 9/16 (2006.01) A61P 1/00 (2006.01) A61P 11/00 (2006.01) A61P 11/06 (2006.01) A61P 11/08 (2006.01) A61P 19/04 (2006.01) A61P 37/04 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **CARRIER-BASED FORMULATIONS AND RELATED METHODS**
[54] **FORMULATIONS A BASE DE SUPPORTS ET PROCEDES ASSOCIES**
[72] MILLER, DANFORTH P., US
[72] TARARA, THOMAS E., US
[72] WEERS, JEFFRY G., US
[71] RESPIRA THERAPEUTICS,INC., US
[85] 2021-12-06
[86] 2020-06-10 (PCT/US2020/036944)
[87] (WO2020/251983)
[30] US (62/859,423) 2019-06-10

[21] **3,142,759**
[13] A1
[51] **Int.Cl. A61K 35/586 (2015.01) A61K 35/60 (2006.01) A61K 36/8962 (2006.01)**
[25] EN
[54] **SAKE REPLICAS PRODUCED FROM INDIVIDUAL COMPONENTS**
[54] **REPLIQUES DE SAKE PRODUITES A PARTIR DE COMPOSANTS INDIVIDUELS**
[72] DECOLONGON, JOSHUA CANARIA, US
[72] CHUA, MARDONN CARL, US
[72] BESWICK, ETHAN CHARLES, US
[72] LUNDQUIST, JOSHUA, US
[72] JASTRZEMBSKI, JILLIAN ANGELA, US
[72] SILVA, LESLIE P., US
[71] AVA FOOD LABS, INC., US
[85] 2021-12-06
[86] 2020-06-12 (PCT/US2020/037525)
[87] (WO2020/252334)
[30] US (62/861,146) 2019-06-13

[21] **3,142,760**
[13] A1
[51] **Int.Cl. G01M 3/24 (2006.01) G01M 5/00 (2006.01) G01N 29/04 (2006.01) G01N 29/44 (2006.01) G01N 29/46 (2006.01)**
[25] EN
[54] **DETECTION DEVICE FOR A FLUID CONDUIT OR FLUID DISPENSING DEVICE**
[54] **DISPOSITIF DE DETECTION POUR CONDUIT DE FLUIDE OU DISPOSITIF DE DISTRIBUTION DE FLUIDE**
[72] KRYWYJ, DANIEL MILNE, US
[72] PRSHA, JEFFREY A., US
[71] ORBIS INTELLIGENT SYSTEMS, INC., US
[85] 2021-12-06
[86] 2020-06-05 (PCT/US2020/070126)
[87] (WO2020/247984)
[30] US (62/858,516) 2019-06-07
[30] US (62/866,574) 2019-06-25

[21] **3,142,772**
[13] A1
[51] **Int.Cl. C11D 1/62 (2006.01) C11D 3/37 (2006.01) C11D 3/50 (2006.01) C11D 17/04 (2006.01) D06M 13/463 (2006.01) D06M 23/12 (2006.01)**
[25] EN
[54] **FABRIC CARE COMPOSITIONS COMPRISING ACRYLATE ENCAPSULATES**
[54] **COMPOSITIONS DE TRAITEMENT DE TISSU COMPRENANT DES PRODUITS D'ENCAPSULATION DE (METH)ACRYLATE**
[72] JOOS, CONNY ERNA ALICE, BE
[72] SMETS, JOHAN, BE
[72] DECLERCQ, MARC JOHAN, BE
[72] VERSTRAETE, PIERRE DANIEL, BE
[72] FENG, LINSHENG, US
[72] CHAKAR, FADI SELIM, US
[72] BOBNOCK, ROBERT STANLEY, US
[71] THE PROCTOR & GAMBLE COMPANY, US
[85] 2021-12-03
[86] 2020-06-25 (PCT/US2020/070182)
[87] (WO2020/264566)
[30] US (62/867,280) 2019-06-27

[21] **3,142,774**
[13] A1
[51] **Int.Cl. E21B 47/125 (2012.01) H01R 13/05 (2006.01)**
[25] EN
[54] **HIGH PRESSURE DUAL ELECTRICAL COLLET ASSEMBLY FOR OIL AND GAS APPLICATIONS**
[54] **ENSEMBLE A DEUX DOUILLES DE SERRAGE ELECTRIQUES HAUTE PRESSION POUR DES APPLICATIONS PETROLIERES ET GAZIERES**
[72] GISSLER, ROBERT WILLIAM, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-12-03
[86] 2020-08-28 (PCT/US2020/048382)
[87] (WO2021/066971)
[30] US (62/908,279) 2019-09-30

[21] **3,142,775**
[13] A1
[51] **Int.Cl. A47C 19/20 (2006.01) A47C 17/32 (2006.01) A47C 17/38 (2006.01) A47C 17/46 (2006.01) A47C 17/48 (2006.01) A47C 17/50 (2006.01) A47C 17/70 (2006.01) A47C 17/80 (2006.01) A47C 19/12 (2006.01) B60P 3/39 (2006.01)**
[25] EN
[54] **SLEEPER BUNK SYSTEM**
[54] **SYSTEME DE COUCHETTE DE VOITURE-LITS**
[72] OSORIO, JULIAN, US
[72] LUCACIU, DAMIAN, US
[72] GREEN, STEPHEN, US
[72] BOULTON, TERENCE H., US
[71] CONSOLIDATED METCO, INC., US
[85] 2021-12-03
[86] 2020-06-25 (PCT/US2020/039511)
[87] (WO2020/264087)
[30] US (62/866,608) 2019-06-25
[30] US (62/894,551) 2019-08-30

[21] **3,142,777**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY WITH SEMAPHORIN-4D BLOCKADE (SEMA4D) AND DC1 THERAPY**
[54] **POLYTHERAPIE COMPRENANT LE BLOCAGE DE LA SEMAPHORINE-4 D (SEMA4D) ET THERAPIE PAR DC1**
[72] CZERNIECKI, BRIAN, US
[72] KODUMUDI, KRITHIKA, US
[72] EVANS, ELIZABETH, US
[71] VACCINEX, INC., US
[71] H. LEE MOFFITT CANCER CENTER AND RESEARCH INSTITUTE, INC. (A FLORIDA NON-PROFIT CORPORATION), US
[85] 2021-12-06
[86] 2020-06-19 (PCT/US2020/038719)
[87] (WO2020/257640)
[30] US (62/865,027) 2019-06-21

[21] **3,142,778**
[13] A1
[51] **Int.Cl. G06T 7/11 (2017.01) G06T 7/90 (2017.01) G06T 11/00 (2006.01)**
[25] EN
[54] **VISUALIZING WOOD STAINING**
[54] **VISUALISATION DE TEINTE DU BOIS**
[72] VLOT, MARGOT JULIA, NL
[72] SPIERS, PETER MARK, GB
[72] KIRCHNER, ERIC JACOB JAN, NL
[71] AKZO NOBEL COATINGS INTERNATIONAL B.V., NL
[85] 2021-12-06
[86] 2020-06-29 (PCT/EP2020/068237)
[87] (WO2021/001310)
[30] EP (19183999.2) 2019-07-02

[21] **3,142,779**
[13] A1
[51] **Int.Cl. G01C 21/34 (2006.01) H04W 4/44 (2018.01) G07C 5/00 (2006.01) G07C 5/08 (2006.01) G08G 1/0968 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR GENERATING FUELING INSTRUCTIONS FOR A VEHICLE**
[54] **PROCEDE ET SYSTEME DE GENERATION D'INSTRUCTIONS DE RAVITAILLEMENT EN CARBURANT POUR UN VEHICULE**
[72] KENNEDY, JOHN, C., US
[72] KOPCHINSKY, SCOTT, US
[72] SON, DON, US
[72] STUART, EMILY, US
[71] PLATFORM SCIENCE, INC., US
[85] 2021-12-03
[86] 2020-06-25 (PCT/US2020/039639)
[87] (WO2020/264173)
[30] US (62/867,845) 2019-06-27

[21] **3,142,781**
[13] A1
[51] **Int.Cl. A61K 31/19 (2006.01) A61P 17/00 (2006.01) A61P 21/00 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR ALTERING SENESCENCE ASSOCIATED SECRETORY PHENOTYPE**
[54] **PROCEDES ET COMPOSITIONS POUR MODIFIER UN PHENOTYPE SECRETOIRE ASSOCIE A LA SENESCENCE**
[72] KENNEDY, BRIAN, US
[72] LITHGOW, GORDON, US
[72] SHAHMIRZADI, AZAR, US
[72] WILEY, CHRISTOPHER, US
[71] BUCK INSTITUTE FOR RESEARCH ON AGING, US
[85] 2021-12-03
[86] 2020-06-10 (PCT/US2020/036974)
[87] (WO2020/252005)
[30] US (62/859,623) 2019-06-10

[21] **3,142,782**
[13] A1
[51] **Int.Cl. A61H 39/08 (2006.01)**
[25] EN
[54] **DEVICE FOR ACUPUNCTURE AND MOXIBUSTION THERAPY AND USES THEREOF**
[54] **DISPOSITIF POUR THERAPIE D'ACUPONCTURE ET DE MOXIBUSTION ET SES UTILISATIONS**
[72] ZHANG, XUNHUA, CN
[71] ZHANG, XUNHUA, CN
[85] 2021-12-06
[86] 2020-06-06 (PCT/IB2020/055343)
[87] (WO2020/245804)
[30] US (62/858,072) 2019-06-06
[30] CN (202010222365.4) 2020-03-26

[21] **3,142,784**
[13] A1
[51] **Int.Cl. C09K 8/28 (2006.01) C09K 8/52 (2006.01) C09K 8/524 (2006.01) E21B 37/06 (2006.01)**
[25] EN
[54] **WAX DEPOSIT REMOVAL USING AQUEOUS SURFACTANT**
[54] **ELIMINATION DE DEPOT DE CIRE A L'AIDE D'UN TENSIOACTIF AQUEUX**
[72] WU, YAQUIN, US
[72] XU, YING, US
[72] BLUMER, DAVID, US
[71] CONOCOPHILIPS COMPANY, US
[85] 2021-12-03
[86] 2020-07-06 (PCT/US2020/040871)
[87] (WO2021/003476)
[30] US (62/870,762) 2019-07-04

[21] **3,142,785**
[13] A1
[51] **Int.Cl. C02F 1/42 (2006.01) C02F 1/28 (2006.01) C02F 1/62 (2006.01) C02F 9/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND APPARATUSES FOR TREATING WATER**
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT DE L'EAU**
[72] DARCY, MICHAEL JAMES, CA
[71] M.A.R.S. BIO-MED PROCESSES INC., CA
[85] 2021-12-06
[86] 2020-06-05 (PCT/IB2020/055336)
[87] (WO2020/245801)
[30] US (62/857,981) 2019-06-06
[30] US (62/911,510) 2019-10-07

[21] **3,142,786**
[13] A1
[51] **Int.Cl. A61B 3/12 (2006.01) A61B 3/14 (2006.01) A61B 8/10 (2006.01)**
[25] EN
[54] **OPHTHALMOLOGIC TESTING SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE TEST OPHTALMIQUE**
[72] KHAN, ZESHAN ALI, US
[72] SUSANIBAR, STEVE, US
[71] XENON-VR, INC., US
[85] 2021-12-03
[86] 2020-07-30 (PCT/US2020/044230)
[87] (WO2021/022028)
[30] US (62/881,120) 2019-07-31

[21] **3,142,787**
[13] A1
[51] **Int.Cl. A61K 8/64 (2006.01) A61K 38/00 (2006.01) A61K 38/07 (2006.01) A61Q 19/08 (2006.01) C07K 5/103 (2006.01)**
[25] EN
[54] **BIOACTIVE PEPTIDES AND COMPOSITIONS COMPRISING THEM**
[54] **PEPTIDES BIOACTIFS ET COMPOSITIONS LES COMPRENANT**
[72] ERRANTE, FOSCA, IT
[72] GIOVANNELLI, LISA, IT
[72] PAPINI, ANNA MARIA, IT
[72] ROVERO, PAOLO, IT
[71] ESPIKEM S.R.L., IT
[71] UNIVERSITA' DEGLI STUDI DI FIRENZE, IT
[85] 2021-12-06
[86] 2020-06-05 (PCT/IB2020/055291)
[87] (WO2020/245772)
[30] IT (102019000008364) 2019-06-07

[21] **3,142,788**
[13] A1
[51] **Int.Cl. A61F 2/00 (2006.01) A61B 50/30 (2016.01) A61F 2/24 (2006.01)**
[25] EN
[54] **PROSTHETIC HEART VALVE PACKAGING**
[54] **CONDITIONNEMENT DE VALVULE CARDIAQUE PROTHETIQUES**
[72] CHEN, HARVEY H., US
[72] HOWANEC, MYRON JR., US
[72] POZZO, ROBERT JR., US
[72] CORTE, CURT G., US
[72] WASSON, LAURA ELIZABETH, US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2021-12-03
[86] 2020-08-03 (PCT/US2020/044701)
[87] (WO2021/026051)
[30] US (62/882,415) 2019-08-02

[21] **3,142,790**
[13] A1
[51] **Int.Cl. G01G 5/00 (2006.01) G01G 5/04 (2006.01) G01G 19/02 (2006.01) G01G 23/37 (2006.01) G01G 23/38 (2006.01)**
[25] EN
[54] **WEIGH-IN-MOTION SYSTEM WITH CHANNEL DATA**
[54] **SYSTEME DE PESAGE EN MOUVEMENT A L'AIDE DE DONNEES DE CANAL**
[72] PEARSON, DARREN, AU
[71] RINSTRUM PTY., LTD., AU
[85] 2021-12-06
[86] 2020-06-05 (PCT/IB2020/000445)
[87] (WO2020/245657)
[30] US (62/857,943) 2019-06-06

[21] **3,142,791**
[13] A1
[51] **Int.Cl. A61M 29/02 (2006.01)**
[25] EN
[54] **BALLOON FOR EXPANDING AN ORIFICE**
[54] **BALLONNET SERVANT A LA DILATATION D'UN ORIFICE**
[72] JAMES, ANDREW E., AU
[71] IPH001 PTY LTD, AU
[85] 2021-12-06
[86] 2020-06-12 (PCT/AU2020/050597)
[87] (WO2020/248021)
[30] AU (2019902063) 2019-06-13

[21] **3,142,793**
[13] A1
[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/28 (2006.01) A61M 1/36 (2006.01) G01N 27/06 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MEASURING ELECTRICAL CHARACTERISTIC OF MEDICAL FLUIDS**
[54] **SYSTEMES ET PROCEDES DE MESURE DES CARACTERISTIQUES ELECTRIQUES DE FLUIDES MEDICAUX**
[72] AMES, PHILIP SCOTT, US
[72] MOSS, JON F., US
[72] JENSEN, LYNN E., US
[72] HOOVER, MARY, US
[72] BARRETT, SPENCER, US
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2021-12-06
[86] 2020-04-21 (PCT/US2020/029153)
[87] (WO2020/251659)
[30] US (62/860,046) 2019-06-11

[21] **3,142,794**
[13] A1
[51] **Int.Cl. E01D 15/133 (2006.01) E01C 9/08 (2006.01) E01C 15/00 (2006.01) E01D 15/12 (2006.01) E04G 1/15 (2006.01) E04G 5/08 (2006.01)**
[25] EN
[54] **MODULAR FOUNDATION SYSTEM FOR PLATFORM ASSEMBLIES**
[54] **SYSTEME DE FONDATION MODULAIRE POUR ENSEMBLES DE PLATEFORME**
[72] SMART, DYLAN, CA
[72] ERDMAN, DEREK, CA
[72] TOM, STEVENSON, CA
[72] DIXON, STEPHEN, CA
[71] MULTY HOME LP, CA
[85] 2021-12-06
[86] 2020-06-04 (PCT/CA2020/050773)
[87] (WO2020/243837)
[30] CA (3,045,095) 2019-06-04
[30] CA (PCT/CA2019/050774) 2019-06-04
[30] US (16/431,719) 2019-06-04
[30] CA (3,062,958) 2019-11-28

[21] **3,142,795**
[13] A1
[51] **Int.Cl. B29C 70/40 (2006.01) B29B 17/00 (2006.01)**
[25] EN
[54] **UNCURED PREPREG RECYCLING METHODOLOGY**
[54] **PROCEDE DE RECYCLAGE DE PREIMPREGNE NON DURCI**
[72] SMITH, ADAM, CA
[72] HUBERT, PASCAL, CA
[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING / MCGILL UNIVERSITY, CA
[85] 2021-12-06
[86] 2020-06-05 (PCT/CA2020/050781)
[87] (WO2020/243845)
[30] US (62/857,471) 2019-06-05

[21] **3,142,797**
[13] A1
[51] **Int.Cl. A61L 31/08 (2006.01) A01N 33/00 (2006.01) A01N 33/12 (2006.01) A01N 33/20 (2006.01) A01N 41/06 (2006.01) A61L 17/00 (2006.01) A61L 17/14 (2006.01) A61L 27/34 (2006.01) A61L 27/54 (2006.01) A61L 29/08 (2006.01) A61L 29/16 (2006.01) A61L 31/10 (2006.01) A61L 31/16 (2006.01) C08F 220/38 (2006.01) C08J 3/24 (2006.01) C08J 7/04 (2020.01) C09D 5/00 (2006.01) C09D 133/14 (2006.01) C09D 183/04 (2006.01)**
[25] EN
[54] **BIOFOULING RESISTANT COATINGS AND METHODS OF MAKING AND USING THE SAME**
[54] **REVETEMENTS RESISTANT A L'ENCRASSEMENT BIOLOGIQUE ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**
[72] MCVERRY, BRIAN T., US
[72] RAO, ETHAN, US
[72] KANER, RICHARD B., US
[72] HE, NA, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[71] SILQ TECHNOLOGIES CORPORATION, US
[85] 2021-12-06
[86] 2020-06-04 (PCT/US2020/036121)
[87] (WO2020/247629)
[30] US (62/857,725) 2019-06-05

[21] **3,142,799**
[13] A1
[51] **Int.Cl. F26B 1/00 (2006.01) F26B 15/12 (2006.01)**
[25] EN
[54] **DRYING APPARATUS BASED ON PERISTALTIC PROPELLING**
[54] **APPAREIL DE SECHAGE A PROPULSION PERISTALTIQUE**
[72] ZHENG, CHAOZHI, CN
[71] AMCON (FUJIAN) ENVIRONMENT PROTECTION EQUIPMENT CO., LTD., CN
[85] 2021-12-06
[86] 2019-08-14 (PCT/CN2019/100586)
[87] (WO2021/026817)

[21] **3,142,800**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/465 (2006.01)**
[25] EN
[54] **NICOTINE POUCH COMPOSITION AND POUCH COMPRISING SUCH**
[54] **COMPOSITION DE SACHET DE NICOTINE ET SACHET COMPRENANT UNE TELLE COMPOSITION**
[72] STAHL, MY LY LAO, DK
[72] BRUUN, HEIDI ZIEGLER, DK
[72] NIELSEN, BRUNO PROVSTGAARD, DK
[72] JAKOBSEN, BINE HARE, DK
[71] NCP NEXTGEN A/S, DK
[85] 2021-12-06
[86] 2020-06-05 (PCT/DK2020/050159)
[87] (WO2020/244721)
[30] DK (PA 2019 00698) 2019-06-07
[30] DK (PA 2019 70610) 2019-09-30
[30] DK (PA 2019 70612) 2019-09-30
[30] DK (PA 2019 70611) 2019-09-30

[21] **3,142,801**
[13] A1
[51] **Int.Cl. A61C 9/00 (2006.01)**
[25] EN
[54] **INTRAORAL 3D SCANNER EMPLOYING MULTIPLE MINIATURE CAMERAS AND MULTIPLE MINIATURE PATTERN PROJECTORS**
[54] **DISPOSITIF DE BALAYAGE 3D INTRABUCCAL EMPLOYANT DE MULTIPLES CAMERAS MINIATURES ET DE MULTIPLES PROJECTEURS DE MOTIF MINIATURES**
[72] SAPHIER, OFER, IL
[72] LEVY, TAL, IL
[72] PELEG, GAL, IL
[72] DAFNA, ELIRAN, IL
[72] OZEROV, SERGEI, RU
[72] VERKER, TAL, IL
[72] MAKMEL, NIR, IL
[72] ATIYA, YOSSEF, IL
[71] ALIGN TECHNOLOGY, INC., US
[85] 2021-12-06
[86] 2020-06-24 (PCT/US2020/039438)
[87] (WO2020/264035)
[30] US (62/865,878) 2019-06-24
[30] US (62/953,060) 2019-12-23
[30] US (16/910,042) 2020-06-23

[21] **3,142,805**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01) A61M 25/00 (2006.01)**
[25] EN
[54] **APPARATUS FOR MONITORING VALVE EXPANSION**
[54] **APPAREIL DE SUIVI DE L'EXPANSION D'UNE VALVE**
[72] SCHWARCZ, ELAZAR LEVI, IL
[72] COHEN, OREN, IL
[72] WITZMAN, OFIR, IL
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2021-12-06
[86] 2021-02-18 (PCT/US2021/018450)
[87] (WO2021/168031)
[30] US (62/978,193) 2020-02-18

[21] **3,142,806**
[13] A1
[51] **Int.Cl. H04W 12/06 (2021.01) H04W 4/33 (2018.01) H04W 4/38 (2018.01) H04L 9/32 (2006.01)**
[25] EN
[54] **SECURE BUILDING SERVICES NETWORK**
[54] **RESEAU DE SERVICES DE BATIMENT SECURISE**
[72] TRIKHA, NITESH, US
[72] BROWN, STEPHEN CLARK, US
[72] SHRIVASTAVA, DHAIRYA, US
[71] VIEW, INC., US
[85] 2021-12-06
[86] 2020-06-04 (PCT/US2020/070123)
[87] (WO2020/247981)
[30] US (62/858,634) 2019-06-07

[21] **3,142,807**
[13] A1
[51] **Int.Cl. G01F 1/66 (2022.01) G01F 1/68 (2006.01) G01F 15/06 (2022.01) G01M 3/24 (2006.01) G01N 29/04 (2006.01) G01N 29/44 (2006.01) G01N 29/46 (2006.01)**
[25] EN
[54] **DETECTION DEVICES**
[54] **DISPOSITIFS DE DETECTION**
[72] KRYWYJ, DANIEL MILNE, US
[72] PRSHA, JEFFREY A., US
[71] ORBIS INTELLIGENT SYSTEMS, INC., US
[85] 2021-12-06
[86] 2020-06-04 (PCT/US2020/070124)
[87] (WO2020/247982)
[30] US (62/858,516) 2019-06-07

[21] **3,142,809**
[13] A1
[51] **Int.Cl. G16H 10/60 (2018.01) G16H 10/00 (2018.01) G16H 10/65 (2018.01) G16H 20/00 (2018.01) G16H 20/10 (2018.01)**
[25] EN
[54] **ELECTRONIC HEALTHCARE RECORD DATA BLOCKCHAIN SYSTEM**
[54] **SYSTEME DE CHAINE DE BLOCS DE DONNEES DE DOSSIER DE SOINS DE SANTE ELECTRONIQUE**
[72] AUSTRING, RONALD RAYMOND, AG
[72] HILL, SR., KENNETH A., US
[72] CROSSLIN, BRAD T., US
[72] FERGUSON, III, CLINTON S., US
[71] ELECTRONIC HEALTH RECORD DATA, INC., US
[85] 2021-12-06
[86] 2020-06-19 (PCT/US2020/038781)
[87] (WO2020/257677)
[30] US (62/863,637) 2019-06-19
[30] US (62/863,355) 2019-06-19
[30] US (16/906,946) 2020-06-19

[21] **3,142,819**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/465 (2006.01)**
[25] EN
[54] **NICOTINE POUCH COMPOSITION**
[54] **COMPOSITION DE SACHET DE NICOTINE**
[72] STAHL, MY LY LAO, DK
[72] BRUUN, HEIDI ZIEGLER, DK
[72] NIELSEN, BRUNO PROVSTGAARD, DK
[72] NEERGAARD, JESPER, DK
[72] JAKOBSEN, BINE HARE, DK
[71] NCP NEXTGEN A/S, DK
[85] 2021-12-06
[86] 2020-06-05 (PCT/DK2020/050160)
[87] (WO2020/244722)
[30] DK (PA 2019 00698) 2019-06-07
[30] DK (PA 2019 70610) 2019-09-30
[30] DK (PA 2019 70612) 2019-09-30
[30] DK (PA 2019 70611) 2019-09-30

[21] **3,142,820**
[13] A1
[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/465 (2006.01) A61K 47/26 (2006.01) A61P 25/34 (2006.01)**
[25] EN
[54] **ORAL POUCHED PRODUCT**
[54] **PRODUIT EN SACHET DESTINE A ETRE ADMINISTRE PAR VOIE ORALE**
[72] STAHL, MY LY LAO, DK
[72] BRUUN, HEIDI ZIEGLER, DK
[72] NIELSEN, BRUNO PROVSTGAARD, DK
[72] NEERGAARD, JESPER, DK
[72] JAKOBSEN, BINE HARE, DK
[71] NCP NEXTGEN A/S, DK
[85] 2021-12-06
[86] 2020-06-05 (PCT/DK2020/050161)
[87] (WO2020/244723)
[30] DK (PA 2019 00698) 2019-06-07
[30] DK (PA 2019 70610) 2019-09-30
[30] DK (PA 2019 70612) 2019-09-30
[30] DK (PA 2019 70611) 2019-09-30

[21] **3,142,821**
[13] A1
[51] **Int.Cl. A61K 9/70 (2006.01) A24B 13/00 (2006.01) A24B 15/10 (2006.01) A24B 15/30 (2006.01) A61K 31/465 (2006.01) A61K 47/26 (2006.01) A61P 25/34 (2006.01)**
[25] EN
[54] **POUCHED PRODUCT WITH LIQUID FLAVOR COMPOSITION**
[54] **PRODUIT EN SACHET AVEC COMPOSITION D'AROME LIQUIDE**
[72] STAHL, MY LY LAO, DK
[72] BRUUN, HEIDI ZIEGLER, DK
[72] NIELSEN, BRUNO PROVSTGAARD, DK
[72] NEERGAARD, JESPER, DK
[72] JAKOBSEN, BINE HARE, DK
[71] NCP NEXTGEN A/S, DK
[85] 2021-12-06
[86] 2020-06-05 (PCT/DK2020/050162)
[87] (WO2020/244724)
[30] DK (PA 2019 00698) 2019-06-07
[30] DK (PA 2019 70610) 2019-09-30
[30] DK (PA 2019 70612) 2019-09-30
[30] DK (PA 2019 70611) 2019-09-30

[21] **3,142,822**
[13] A1
[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/10 (2006.01) A61K 9/00 (2006.01) A61K 31/465 (2006.01)**
[25] EN
[54] **NICOTINE POUCH PRODUCT**
[54] **PRODUIT A BASE DE NICOTINE EN SACHET**
[72] STAHL, MY LY LAO, DK
[72] BRUUN, HEIDI ZIEGLER, DK
[72] NIELSEN, BRUNO PROVSTGAARD, DK
[72] JAKOBSEN, BINE HARE, DK
[71] NCP NEXTGEN A/S, DK
[85] 2021-12-06
[86] 2020-06-05 (PCT/DK2020/050163)
[87] (WO2020/244725)
[30] DK (PA 2019 00698) 2019-06-07
[30] DK (PA 2019 70610) 2019-09-30
[30] DK (PA 2019 70612) 2019-09-30
[30] DK (PA 2019 70611) 2019-09-30

[21] **3,142,824**
[13] A1
[51] **Int.Cl. A61K 31/198 (2006.01) A23L 33/175 (2016.01) A23L 33/18 (2016.01) A23L 33/185 (2016.01) A23L 33/19 (2016.01) A61K 38/00 (2006.01) A61P 3/02 (2006.01) A61P 21/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS USING ONE OR MORE AUTOPHAGY-INDUCING AMINO ACIDS TO POTENTIATE MUSCULOSKELETAL EFFECT OF ONE OR MORE ANABOLIC AMINO ACIDS**
[54] **COMPOSITIONS ET PROCEDES UTILISANT UN OU PLUSIEURS ACIDES AMINES INDUISANT L'AUTOPHAGIE POUR POTENTIALISER L'EFFET MUSCULO-SQUELETTIQUE D'UN OU PLUSIEURS ACIDES AMINES ANABOLISANT S**
[72] FEIGE, JEROME, CH
[72] GUT, PHILIPP, CH
[72] CIVILETTO, GABRIELE, CH
[72] REGARD BOUTRY, CLAIRE, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2021-12-06
[86] 2020-06-04 (PCT/EP2020/065534)
[87] (WO2020/245299)
[30] US (62/858,496) 2019-06-07

[21] **3,142,825**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/519 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **METHODS OF TREATING CANCER USING PRMT5 INHIBITORS**
[54] **METHODES DE TRAITEMENT DU CANCER A L'AIDE D'INHIBITEURS DE PRMT5**
[72] QUINN, HILLARY JOY MILLAR, US
[72] PACKMAN, KATHRYN ELIZABETH, US
[72] HADDISH-BERHANE, NAHOR, US
[72] MANNENS, GEERT S.J., BE
[72] ZHOU, JUNGUO, US
[72] GREWAY, ANTHONY T., US
[72] BREHMER, DIRK, BE
[72] GUO, YUE, US
[72] WU, TONGFEI, BE
[72] XIE, HONG, US
[72] LAURING, JOSH, US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2021-12-06
[86] 2020-06-05 (PCT/EP2020/065639)
[87] (WO2020/245365)
[30] US (62/858,076) 2019-06-06
[30] EP (19193850.5) 2019-08-27

[21] **3,142,826**
[13] A1
[51] **Int.Cl. B65D 5/52 (2006.01) B65D 5/66 (2006.01)**
[25] EN
[54] **A CONTAINER AND CORRESPONDING METHOD**
[54] **CONTENANT ET PROCEDE CORRESPONDANT**
[72] CRUICE, ANTHONY, GB
[72] COX, AINSLEY, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2021-12-06
[86] 2020-06-15 (PCT/GB2020/051437)
[87] (WO2020/254787)
[30] GB (1908931.7) 2019-06-21

[21] **3,142,827**
[13] A1
[51] **Int.Cl. A24F 40/465 (2020.01) H02M 7/00 (2006.01) H02M 7/48 (2007.01) H05B 6/10 (2006.01) H05K 1/02 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **APPARATUS FOR AN AEROSOL GENERATING DEVICE**
[54] **APPAREIL POUR UN DISPOSITIF DE GENERATION D'AEROSOL**
[72] LOPEZ, VICTOR CLAVEZ, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2021-12-06
[86] 2020-06-25 (PCT/GB2020/051542)
[87] (WO2020/260883)
[30] GB (1909385.5) 2019-06-28

[21] **3,142,828**
[13] A1
[51] **Int.Cl. A24F 40/465 (2020.01) A24F 40/50 (2020.01) A24F 40/57 (2020.01) H02M 7/48 (2007.01) H05B 6/06 (2006.01) H05B 6/10 (2006.01)**
[25] EN
[54] **APPARATUS FOR AN AEROSOL GENERATING DEVICE**
[54] **APPAREIL POUR DISPOSITIF DE GENERATION D'AEROSOL**
[72] WHITE, JULIAN, GB
[72] HORROD, MARTIN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2021-12-06
[86] 2020-06-25 (PCT/GB2020/051543)
[87] (WO2020/260884)
[30] GB (1909384.8) 2019-06-28

[21] **3,142,829**
[13] A1
[51] **Int.Cl. A24F 40/465 (2020.01) A24F 40/50 (2020.01) H02M 7/48 (2007.01) H05B 6/06 (2006.01) H05B 6/10 (2006.01)**
[25] EN
[54] **APPARATUS FOR AN AEROSOL GENERATING DEVICE**
[54] **APPAREIL POUR UN DISPOSITIF DE GENERATION D'AEROSOL**
[72] HORROD, MARTIN, GB
[72] LOPEZ, VICTOR CLAVEZ, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2021-12-06
[86] 2020-06-25 (PCT/GB2020/051544)
[87] (WO2020/260885)
[30] GB (1909380.6) 2019-06-28

[21] **3,142,830**
[13] A1
[51] **Int.Cl. A24F 40/465 (2020.01) A24F 40/51 (2020.01) H02M 7/48 (2007.01) H05B 6/06 (2006.01) H05B 6/10 (2006.01)**
[25] EN
[54] **APPARATUS FOR AN AEROSOL GENERATING DEVICE**
[54] **APPAREIL POUR UN DISPOSITIF GENERATEUR D'AEROSOL**
[72] HORROD, MARTIN, GB
[72] WHITE, JULIAN, GB
[72] LOPEZ, VICTOR CLAVEZ, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2021-12-06
[86] 2020-06-25 (PCT/GB2020/051545)
[87] (WO2020/260886)
[30] GB (1909377.2) 2019-06-28

[21] **3,142,831**
[13] A1
[51] **Int.Cl. A61K 31/522 (2006.01) A61K 9/107 (2006.01) A61P 31/22 (2006.01)**
[25] EN
[54] **TOPICAL ACYCLOVIR FORMULATIONS AND USES THEREOF**
[54] **FORMULATIONS D'ACYCLOVIR TOPIQUE ET LEURS UTILISATIONS**
[72] SHARP, MATTHEW J., US
[71] PROPELLA THERAPEUTICS, INC., US
[85] 2021-12-06
[86] 2020-06-12 (PCT/US2020/037421)
[87] (WO2020/252252)
[30] US (62/861,637) 2019-06-14

[21] **3,142,832**
[13] A1
[51] **Int.Cl. B22F 12/45 (2021.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B29C 64/153 (2017.01) B22F 10/25 (2021.01) B22F 12/53 (2021.01) B22F 9/04 (2006.01) B28B 19/00 (2006.01) C01G 9/00 (2006.01) C01G 23/00 (2006.01) C04B 35/626 (2006.01) C04B 35/64 (2006.01)**
[25] EN
[54] **NOVEL ADDITIVE NANOMANUFACTURING SYSTEM AND METHOD**
[54] **NOUVEAUX SYSTEME ET PROCEDE DE NANOFABRICATION ADDITIVE**
[72] MAHJOURI-SAMANI, MASOUD, US
[72] SHAMSAEI, NIMA, US
[71] AUBURN UNIVERSITY, US
[85] 2021-12-03
[86] 2020-06-12 (PCT/US2020/037413)
[87] (WO2020/252247)
[30] US (62/860,467) 2019-06-12

[21] **3,142,833**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 14/21 (2006.01) C07K 14/705 (2006.01) C07K 16/46 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **MONOCLONAL ANTIBODIES THAT BIND EGFRVIII AND THEIR USE**
[54] **ANTICORPS MONOCLONAUX SE LIANT A EGFRVIII ET LEURS UTILISATIONS**
[72] FITZGERALD, DAVID JOSEPH, US
[72] HO, ERIC CHUN HEI, US
[72] ANTIGNANI, ANTONELLA, US
[72] SARNOVSKY, ROBERT JOSEPH, US
[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[85] 2021-12-06
[86] 2020-07-01 (PCT/US2020/040544)
[87] (WO2021/003297)
[30] US (62/869,956) 2019-07-02

[21] **3,142,834**
[13] A1
[51] **Int.Cl. G16H 10/60 (2018.01) G16H 20/10 (2018.01) G16H 50/70 (2018.01) G16H 80/00 (2018.01)**
[25] EN
[54] **ELECTRONIC HEALTH RECORD DATA BLOCKCHAIN SYSTEM AND PROCESS**
[54] **SYSTEME ET PROCEDE DE CHAINE DE BLOCS DE DONNEES DE DOSSIER MEDICAL ELECTRONIQUE**
[72] AUSTRING, RONALD RAYMOND, AG
[72] HILL, SR., KENNETH A., US
[72] CROSSLIN, BRAD T., US
[72] FERGUSON, III, CLINTON S., US
[71] ELECTRONIC HEALTH RECORD DATA, INC., US
[85] 2021-12-06
[86] 2020-06-19 (PCT/US2020/038731)
[87] (WO2020/257647)
[30] US (62/863,637) 2019-06-19
[30] US (62/863,655) 2019-06-19
[30] US (16/906,710) 2020-06-19

[21] **3,142,835**
[13] A1
[51] **Int.Cl. A61F 2/90 (2013.01) A61F 2/07 (2013.01) A61F 2/848 (2013.01) A61F 2/856 (2013.01) A61F 2/04 (2013.01)**
[25] EN
[54] **COVERED ENDOPROSTHESIS WITH IMPROVED BRANCH ACCESS**
[54] **ENDOPROTHESE COUVERTE A ACCES RAMIFIE AMELIORE**
[72] FOLAN, MARTYN G., IE
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2021-12-03
[86] 2020-06-16 (PCT/US2020/037873)
[87] (WO2020/257155)
[30] US (62/862,599) 2019-06-17

[21] **3,142,837**
[13] A1
[51] **Int.Cl. A61B 17/16 (2006.01) A61F 2/46 (2006.01)**
[25] EN
[54] **IMPLANT REMOVAL TOOL**
[54] **OUTIL DE RETRAIT D'IMPLANT**
[72] RIVERA, JOSE S., JR., US
[71] RIVERA, JOSE S., JR., US
[85] 2021-12-06
[86] 2020-04-10 (PCT/US2020/027692)
[87] (WO2020/247064)
[30] US (16/431,879) 2019-06-05

[21] **3,142,838**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/28 (2006.01) C12N 5/00 (2006.01)**
[25] EN
[54] **ANTI-LRRC25 COMPOSITIONS AND METHODS FOR MODULATING MYELOID CELL INFLAMMATORY PHENOTYPES AND USES THEREOF**
[54] **COMPOSITIONS ANTI-LRRC25 ET PROCEDES DE MODULATION DES PHENOTYPES INFLAMMATOIRES DES CELLULES MYELOIDES ET UTILISATIONS ASSOCIEES**
[72] NOVOBRANTSEVA, TATIANA I., US
[72] FELDMAN, IGOR, US
[72] SAZINSKY, STEPHEN L., US
[72] WAHLE, JOSEPH A., US
[72] O'NUALLAIN, BRIAN, US
[71] VERSEAU THERAPEUTICS, INC., US
[85] 2021-12-03
[86] 2020-06-17 (PCT/US2020/038115)
[87] (WO2020/263650)
[30] US (62/867,593) 2019-06-27

[21] **3,142,840**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/18 (2006.01) C07K 16/36 (2006.01) C07K 16/40 (2006.01)**
[25] EN
[54] **ANTI-CD53 COMPOSITIONS AND METHODS FOR MODULATING MYELOID CELL INFLAMMATORY PHENOTYPES AND USES THEREOF**
[54] **COMPOSITIONS ANTI-CD53 ET PROCEDES DE MODULATION DE PHENOTYPES INFLAMMATOIRES DE CELLULES MYELOIDES ET LEURS UTILISATIONS**
[72] NOVOBRANTSEVA, TATIANA I., US
[72] FELDMAN, IGOR, US
[72] SAZINSKY, STEPHEN L., US
[72] WAHLE, JOSEPH A., US
[71] VERSEAU THERAPEUTICS, INC., US
[85] 2021-12-03
[86] 2020-06-17 (PCT/US2020/038116)
[87] (WO2020/263651)
[30] US (62/867,602) 2019-06-27

[21] **3,142,841**
[13] A1
[51] **Int.Cl. H04B 10/00 (2013.01) H04B 10/27 (2013.01) H04B 10/40 (2013.01) H04J 14/00 (2006.01) H04J 14/02 (2006.01) H04Q 11/00 (2006.01)**
[25] EN
[54] **OUT-OF-BAND COMMUNICATION CHANNEL FOR SUBCARRIER-BASED OPTICAL COMMUNICATION SYSTEMS**
[54] **CANAL DE COMMUNICATION HORS BANDE POUR SYSTEMES DE COMMUNICATION OPTIQUE BASES SUR DES SOUS-PORTEUSES**
[72] HAND, STEVEN J., US
[71] INFINERA CORPORATION, US
[85] 2021-12-06
[86] 2020-06-04 (PCT/US2020/036209)
[87] (WO2020/247692)
[30] US (62/857,128) 2019-06-04
[30] US (62/937,060) 2019-11-18

[21] **3,142,842**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/12 (2006.01) A61K 31/185 (2006.01) A61K 45/06 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING CENTRAL NERVOUS SYSTEM DISORDERS**
[54] **COMPOSITIONS ET METHODES POUR TRAITER DES TROUBLES DU SYSTEME NERVEUX CENTRAL**
[72] TAN, HOCK SENG, US
[72] DERBY, MICHAEL, US
[72] ROME, ZACHARY, US
[71] PAXMEDICA, INC., US
[85] 2021-12-06
[86] 2020-05-02 (PCT/US2020/031217)
[87] (WO2020/247127)
[30] US (62/858,621) 2019-06-07

[21] **3,142,843**
[13] A1
[51] **Int.Cl. H04L 12/46 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DISTRIBUTING SD-WAN POLICIES**
[54] **SYSTEMES ET PROCEDES DE DISTRIBUTION DE POLITIQUES SD-WAN**
[72] OLOFSSON, STEFAN, AE
[72] WIJNANDS, IJSBRAND, BE
[72] BOSCH, HENDRIKUS, G.P., NL
[72] NAPPER, JEFFREY, NL
[72] GUPTA, ANUBHAV, US
[71] CISCO TECHNOLOGY, INC., US
[85] 2021-12-06
[86] 2020-05-28 (PCT/US2020/034781)
[87] (WO2020/247224)
[30] US (62/858,136) 2019-06-06
[30] US (16/574,963) 2019-09-18

[21] **3,142,844**
[13] A1
[51] **Int.Cl. F24S 20/20 (2018.01) F24S 70/10 (2018.01) F24S 70/16 (2018.01) F24S 70/20 (2018.01) F24S 70/60 (2018.01)**
[25] FR
[54] **HYBRID RADIATION ABSORBER FOR SOLAR POWER PLANT, AND METHOD FOR PREPARING SUCH AN ABSORBER**
[54] **ABSORBEUR HYBRIDE DE RAYONNEMENTS POUR CENTRALE SOLAIRE, ET PROCEDE DE PREPARATION D'UN TEL ABSORBEUR**
[72] PARE, SYLVAIN, FR
[71] NEWS, FR
[85] 2021-12-07
[86] 2020-05-26 (PCT/FR2020/050882)
[87] (WO2020/249885)
[30] FR (1906299) 2019-06-13

[21] **3,142,845**
[13] A1
[51] **Int.Cl. F24S 20/20 (2018.01) F24S 23/00 (2018.01) C01B 3/04 (2006.01) C01B 13/02 (2006.01)**
[25] FR
[54] **DEVICE FOR HYPER-CONCENTRATION AND LONG-DISTANCE FIBRE OPTIC TRANSPORT OF SOLAR ENERGY, AND ASSOCIATED METHOD FOR PRODUCING AN H2/O2 MIXTURE BY THERMOPHOTOLYSIS**
[54] **DISPOSITIF D'HYPER CONCENTRATION ET TRANSPORT D'ENERGIE SOLAIRE DISTANT PAR FIBRE OPTIQUE ASSOCIE A UN PROCEDE DE PRODUCTION D'UN MELANGE H2/O2 PAR THERMOPHOTOLYSE**
[72] PARE, SYLVAIN, FR
[71] NEWS, FR
[85] 2021-12-07
[86] 2020-05-26 (PCT/FR2020/050880)
[87] (WO2020/249883)
[30] FR (1906296) 2019-06-13

[21] **3,142,846**
[13] A1
[51] **Int.Cl. F24S 23/70 (2018.01) F24S 10/40 (2018.01) F24S 23/77 (2018.01) F24S 23/79 (2018.01)**
[25] FR
[54] **HIGHLY EFFICIENT LOW-COST STATIC PLANAR SOLAR ENERGY CONCENTRATOR**
[54] **CONCENTRATEUR D'ENERGIE SOLAIRE PLAN STATIQUE TRES HAUT RENDEMENT ET FAIBLE COUT**
[72] PARE, SYLVAIN, FR
[71] NEWS, FR
[85] 2021-12-07
[86] 2020-05-26 (PCT/FR2020/050879)
[87] (WO2020/249882)
[30] FR (FR1906295) 2019-06-13

[21] **3,142,847**
[13] A1
[51] **Int.Cl. C08F 290/06 (2006.01) C09D 7/65 (2018.01) C08F 220/12 (2006.01) C09D 131/02 (2006.01) C09D 131/04 (2006.01)**
[25] FR
[54] **AQUEOUS COATING COMPOSITION**
[54] **COMPOSITION AQUEUSE DE REVETEMENT**
[72] CORFIAS ZUCCALLI, CATHERINE, FR
[72] PARRENIN, LAURIE, FR
[72] SUAU, JEAN-MARC, FR
[71] COATEX, FR
[85] 2021-12-07
[86] 2020-07-15 (PCT/FR2020/000205)
[87] (WO2021/009418)
[30] FR (FR1908124) 2019-07-18

[21] **3,142,849**
[13] A1
[51] **Int.Cl. F16B 43/00 (2006.01)**
[25] EN
[54] **CORROSION-RESISTANT SCREW-SECURING DISK**
[54] **DISQUE DE FIXATION DE VIS RESISTANT A LA CORROSION**
[72] VOLBORTH, THOMAS, DE
[71] TECKENTRUP GMBH & CO. KG, DE
[85] 2021-12-07
[86] 2021-02-26 (PCT/EP2021/054845)
[87] (WO2021/190857)
[30] EP (20165955.4) 2020-03-26

[21] **3,142,850**
[13] A1
[51] **Int.Cl. B64G 1/22 (2006.01) B64G 1/64 (2006.01)**
[25] EN
[54] **MULTIPLE HOLD DOWN AND SEPARATION DEVICE FOR SPACECRAFT, AND METHODS TO REMOVE A SPACECRAFT FROM A DISPENSER OF A LAUNCHER AND TO INSTALL A MULTIPLE HOLD DOWN AND SEPARATION DEVICE FOR SPACECRAFT**
[54] **DISPOSITIF DE FIXATION ET DE SEPARATION MULTIPLE POUR VAISSEAUX SPATIAUX, ET PROCEDE POUR SEPARER UN VAISSEAU SPATIAL D'UN DISPOSITIF DISTRIBUTEUR D'UN LANCEUR ET INSTALLER UN DIS POSITIF DE FIXATION ET DE SEPARATION MULTIPLE POUR VAISSEAUX SPATIAUX**
[72] GRANDE SAEZ, EUGENIO, ES
[71] AIRBUS DEFENCE AND SPACE, S.A., ES
[85] 2021-12-07
[86] 2019-06-12 (PCT/ES2019/070412)
[87] (WO2020/249831)

[21] **3,142,852**
[13] A1
[51] **Int.Cl. C12Q 1/18 (2006.01) G01N 33/94 (2006.01)**
[25] EN
[54] **METHODS FOR DETERMINING THE CONCENTRATION OF A CARBAPENEM ANTIBIOTIC IN A BIOLOGICAL SAMPLE**
[54] **PROCEDES DE DETERMINATION DE LA CONCENTRATION D'UN ANTIBIOTIQUE DE TYPE CARBAPENEME DANS UN ECHANTILLON BIOLOGIQUE**
[72] JORIS, BERNARD, BE
[72] AMOROSO, ANA, BE
[72] VERLAINE, OLIVIER, BE
[71] UNIVERSITE DE LIEGE, BE
[85] 2021-12-07
[86] 2020-08-21 (PCT/EP2020/073473)
[87] (WO2021/032876)
[30] EP (19193190.6) 2019-08-22

[21] **3,142,854**
[13] A1
[51] **Int.Cl. A61K 31/4425 (2006.01) A61K 31/198 (2006.01) A61K 31/405 (2006.01) A61K 38/00 (2006.01) A61P 21/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS USING TRIGONELLINE AND HIGH PROTEIN FOR PREVENTING OR TREATING CONDITIONS OR DISORDERS IN SKELETAL MUSCLE**
[54] **COMPOSITIONS ET PROCEDES D'UTILISATION DE TRIGONELLINE ET TENEUR ELEVEE EN PROTEINE POUR PREVENIR OU TRAITER LES ETATS OU LES TROUBLES AU NIVEAU DU MUSCLE SQUELETTIQUE**
[72] FEIGE, JEROME, CH
[72] MEMBREZ, MATHIEU, CH
[72] SORRENTINO, VINCENZO, CH
[72] CHRISTEN, STEFAN, CH
[72] GINER, MARIA PILAR, CH
[72] MOCO, SOFIA, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2021-12-07
[86] 2020-07-03 (PCT/EP2020/068773)
[87] (WO2021/004913)
[30] EP (19184815.9) 2019-07-05

[21] **3,142,855**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) A61K 9/00 (2006.01) A61K 31/00 (2006.01) A61K 31/198 (2006.01) A61K 31/7084 (2006.01) A61K 38/06 (2006.01) A61K 38/44 (2006.01) A61K 39/00 (2006.01) A61K 45/06 (2006.01) A61K 47/18 (2017.01) A61K 47/42 (2017.01)**
[25] EN
[54] **IMPROVED VACCINE FORMULATIONS**
[54] **FORMULATIONS VACCINALES AMELIOREES**
[72] SAINT-REMY, JEAN-MARIE, BE
[71] EQUALY S.A., LU
[85] 2021-12-07
[86] 2020-06-29 (PCT/EP2020/068270)
[87] (WO2020/260699)
[30] EP (19182807.8) 2019-06-27

[21] **3,142,857**
[13] A1
[51] **Int.Cl. C09K 8/524 (2006.01) C10L 1/14 (2006.01) C10L 10/16 (2006.01)**
[25] EN
[54] **WAX INHIBITORS WITH IMPROVED FLOWABILITY**
[54] **INHIBITEURS DE CIRE A FLUIDITE AMELIOREE**
[72] FEUSTEL, MICHAEL, DE
[72] KRULL, MATTHIAS, DE
[71] CLARIANT INTERNATIONAL LTD, CH
[85] 2021-12-07
[86] 2020-06-18 (PCT/EP2020/066851)
[87] (WO2021/018467)
[30] EP (19188740.5) 2019-07-29

[21] **3,142,858**
[13] A1
[51] **Int.Cl. E21B 17/042 (2006.01)**
[25] EN
[54] **TORQUE SHOULDER FOR TUBULAR GOODS CONNECTION**
[54] **EPAULEMENT DE COUPLE POUR RACCORDEMENT D'ARTICLES TUBULAIRES**
[72] GIRALDO, LUCAS, AR
[72] BRAVO, RICHARD EDGARD, AR
[72] ROSSI, MIGUEL ANGEL, AR
[72] MAZZAFERRO, GASTON MAURO, AR
[71] TENARIS CONNECTIONS B.V., NL
[85] 2021-12-07
[86] 2020-06-17 (PCT/EP2020/066674)
[87] (WO2020/254349)
[30] US (62/862,485) 2019-06-17
[30] NL (2023877) 2019-09-23

[21] **3,142,859**
[13] A1
[51] **Int.Cl. A61K 31/155 (2006.01) A61K 31/69 (2006.01) A61K 49/00 (2006.01) A61P 11/00 (2006.01) C07F 5/02 (2006.01)**
[25] EN
[54] **NOVEL ARGINASE INHIBITORS**
[54] **NOUVEAUX INHIBITEURS D'ARGINASE**
[72] KURHADE, SANTOSH, NL
[72] DOMLING, ALEXANDER, NL
[71] RIJKSUNIVERSITEIT GRONINGEN, NL
[85] 2021-12-07
[86] 2020-06-15 (PCT/EP2020/066507)
[87] (WO2020/249821)
[30] EP (19180260.2) 2019-06-14

[21] **3,142,860**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A23L 33/105 (2016.01) A61K 9/28 (2006.01) A61K 9/48 (2006.01) A61K 36/28 (2006.01) A61K 36/287 (2006.01) A61K 36/45 (2006.01) A61K 36/63 (2006.01) A61K 36/67 (2006.01) A61K 45/06 (2006.01)**
[25] FR
[54] **PLANT EXTRACT MIXTURE FOR USE IN THE PREVENTION AND/OR TREATMENT OF CHRONIC INFLAMMATORY BOWEL DISEASES**
[54] **MELANGE D'EXTRAITS DE PLANTES POUR SON UTILISATION DANS LA PREVENTION ET/OU LE TRAITEMENT DES MALADIES CHRONIQUES INFLAMMATOIRES DE L'INTESTIN**
[72] PELTIER, SEBASTIEN, FR
[72] SIRVENT, PASCAL, FR
[72] OTERO, YOLANDA, FR
[71] VALBIOTIS, FR
[85] 2021-12-07
[86] 2020-06-11 (PCT/EP2020/066164)
[87] (WO2020/249657)
[30] FR (FR1906165) 2019-06-11

[21] **3,142,865**
[13] A1
[51] **Int.Cl. G06N 10/00 (2022.01) G06N 5/00 (2006.01)**
[25] EN
[54] **METHOD OF COMPUTING A SOLUTION TO A COMPUTATIONAL PROBLEM USING A QUANTUM SYSTEM AND APPARATUS FOR COMPUTING SOLUTIONS TO COMPUTATIONAL PROBLEMS**
[54] **PROCEDE DE CALCUL D'UNE SOLUTION A UN PROBLEME DE CALCUL A L'AIDE D'UN SYSTEME QUANTIQUE ET APPAREIL POUR CALCULER DES SOLUTIONS A DES PROBLEMES DE CALCUL**
[72] LECHNER, WOLFGANG, AT
[72] HARTMANN, ANDREAS, AT
[71] PARITY QUANTUM COMPUTING GMBH, AT
[85] 2021-11-25
[86] 2019-06-25 (PCT/EP2019/066916)
[87] (WO2020/259813)

[21] **3,142,866**
[13] A1
[51] **Int.Cl. A61K 51/08 (2006.01)**
[25] EN
[54] **COMPOUNDS AND METHODS OF USE**
[54] **COMPOSES ET PROCEDES D'UTILISATION**
[72] PORTAL, CHRISTOPHE FREDERIC, GB
[71] EDINBURGH MOLECULAR IMAGING LIMITED, GB
[85] 2021-11-29
[86] 2020-06-15 (PCT/GB2020/051442)
[87] (WO2020/249980)
[30] GB (1908573.7) 2019-06-14
[30] GB (2004360.0) 2020-03-26

[21] **3,142,867**
[13] A1
[51] **Int.Cl. G01N 21/64 (2006.01) C12Q 1/18 (2006.01) G01N 21/62 (2006.01) G01N 33/48 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **MICROSCOPY FOR RAPID ANTIBIOTIC SUSCEPTIBILITY TEST USING MEMBRANE FLUORESCENCE STAINING AND SPECTRAL INTENSITY RATIO**
[54] **MICROSCOPIE POUR UN TEST RAPIDE DE SENSIBILITE AUX ANTIBIOTIQUES UTILISANT UNE COLORATION PAR FLUORESCENCE DE MEMBRANE ET UN RAPPORT D'INTENSITE SPECTRALE**
[72] BEN-DAVID, MOSHE, IL
[71] POCARED DIAGNOSTICS LTD., IL
[85] 2021-12-06
[86] 2020-06-04 (PCT/IB2020/055286)
[87] (WO2020/250094)
[30] US (62/859,890) 2019-06-11
[30] US (16/890,050) 2020-06-02

[21] **3,142,868**
[13] A1
[51] **Int.Cl. B29C 45/76 (2006.01)**
[25] EN
[54] **CONTROL DEVICE OF INJECTION MOLDING MACHINE AND METHOD OF SETTING MOLD CLAMPING FORCE**
[54] **DISPOSITIF DE COMMANDE DE MACHINE DE MOULAGE PAR INJECTION ET PROCEDE DE REGLAGE DE FORCE DE SERRAGE DE MOULE**
[72] OKAMOTO, AKIO, JP
[72] ARIMA, YUUICHIROU, JP
[72] MIYAMOTO, KAZUAKI, JP
[72] FUKUDA, YUUICHIROU, JP
[72] SHIMIZU, FUMIHIKO, JP
[71] UBE MACHINERY CORPORATION, LTD., JP
[85] 2021-12-06
[86] 2020-05-08 (PCT/JP2020/018614)
[87] (WO2021/014715)
[30] JP (2019-136571) 2019-07-25

[21] **3,142,869**
[13] A1
[51] **Int.Cl. G03G 15/04 (2006.01) G03G 21/16 (2006.01)**
[25] EN
[54] **DRUM UNIT, DRIVE TRANSMISSION UNIT, CARTRIDGE AND ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS**
[54] **UNITE DE TAMBOUR, UNITE DE TRANSMISSION D'ENTRAINEMENT, CARTOUCHE ET DISPOSITIF DE FORMATION D'IMAGE PHOTOGRAPHIQUE ELECTRONIQUE**
[72] FUJIWARA, AKIHIRO, JP
[72] MURAKAMI, RYUTA, JP
[71] CANON KABUSHIKI KAISHA, JP
[85] 2021-12-06
[86] 2020-06-09 (PCT/JP2020/023319)
[87] (WO2020/251052)
[30] JP (2019-109671) 2019-06-12

[21] **3,142,870**
[13] A1
[51] **Int.Cl. C05G 3/00 (2020.01) C05B 3/00 (2006.01)**
[25] EN
[54] **CALCIUM PHOSPHATE COATED WITH HUMIC ACID OR PHENOLIC POLYMER AND USES THEREOF**
[54] **PHOSPHATE DE CALCIUM ENROBE D'ACIDE HUMIQUE OU DE POLYMERE PHENOLIQUE ET SES UTILISATIONS**
[72] JEON, JONG-ROK, KR
[72] YOON, HO YOUNG, KR
[72] ADAMIANO, ALESSIO, IT
[72] IAFISCO, MICHELE, IT
[71] INDUSTRY-ACADEMIC COOPERATION FOUNDATION GYEONGSANG NATIONAL UNIVERSITY, KR
[71] CONSIGLIO NAZIONALE DELLE RICHERCHE, IT
[85] 2021-12-06
[86] 2019-06-07 (PCT/KR2019/006906)
[87] (WO2020/246650)

[21] **3,142,871**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01) A61K 38/17 (2006.01) A61P 43/00 (2006.01) C07K 7/08 (2006.01) C12N 5/00 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **BIOACTIVE AGENTS AND METHODS RELATED THERETO**
[54] **AGENTS BIOACTIFS ET PROCEDES ASSOCIES**
[72] DEMPSEY, SANDI GRAINNE, NZ
[72] MAY, BARNABY CHARLES HOUGH, NZ
[72] DAY, DARREN JOHN, NZ
[71] AROA BIOSURGERY LIMITED, NZ
[85] 2021-12-06
[86] 2020-06-05 (PCT/NZ2020/050058)
[87] (WO2020/246900)
[30] US (62/857,900) 2019-06-06
[30] US (63/014,530) 2020-04-23

[21] **3,142,872**
[13] A1
[51] **Int.Cl. E04B 1/70 (2006.01) F24F 3/14 (2006.01)**
[25] EN
[54] **APPARATUS FOR DRYING A WATER DAMAGED FLOOR STRUCTURE**
[54] **APPAREIL DE SECHAGE D'UNE STRUCTURE DE SOL ENDOMMAGEE PAR L'EAU**
[72] AHSBERG, JOHAN, SE
[71] REDDO FLOOR SOLUTIONS AB, SE
[85] 2021-12-06
[86] 2020-06-08 (PCT/SE2020/050573)
[87] (WO2020/251451)
[30] SE (1950687-2) 2019-06-10

[21] **3,142,873**
[13] A1
[51] **Int.Cl. E04B 1/70 (2006.01) F24F 3/14 (2006.01)**
[25] EN
[54] **APPARATUS FOR DRYING A WATER DAMAGED FLOOR STRUCTURE**
[54] **APPAREIL DE SECHAGE D'UNE STRUCTURE DE SOL ENDOMMAGEE PAR L'EAU**
[72] AHSBERG, JOHAN, SE
[71] REDDO FLOOR SOLUTIONS AB, SE
[85] 2021-12-06
[86] 2020-06-08 (PCT/SE2020/050574)
[87] (WO2020/251452)
[30] SE (1950686-4) 2019-06-10

[21] **3,142,874**
[13] A1
[51] **Int.Cl. E04B 1/70 (2006.01) E04G 23/02 (2006.01)**
[25] EN
[54] **METHOD AND ARRANGEMENT IN A FLOOR STRUCTURE DRYING PROCESS**
[54] **PROCEDE ET AGENCEMENT DANS UN PROCESSUS DE SECHAGE DE STRUCTURE DE PLANCHER**
[72] AHSBERG, JOHAN, SE
[71] REDDO FLOOR SOLUTIONS AB, SE
[85] 2021-12-06
[86] 2020-06-08 (PCT/SE2020/050575)
[87] (WO2020/251453)
[30] SE (1950685-6) 2019-06-10

[21] **3,142,875**
[13] A1
[51] **Int.Cl. H04W 12/06 (2021.01) H04W 84/12 (2009.01) B60R 16/023 (2006.01)**
[25] EN
[54] **SECURE WIRELESS NETWORKS FOR VEHICLES**
[54] **RESEAUX SANS FIL SECURISES POUR VEHICULES**
[72] KENNEDY, JOHN C., US
[72] KOPCHINSKY, SCOTT, US
[72] SON, DON, US
[72] FIELDS, JACOB, US
[71] PLATFORM SCIENCE, INC., US
[85] 2021-12-06
[86] 2020-04-07 (PCT/US2020/027032)
[87] (WO2020/263380)
[30] US (16/450,959) 2019-06-24

[21] **3,142,876**
[13] A1
[51] **Int.Cl. A61K 31/401 (2006.01) A61K 31/4184 (2006.01) A61K 45/06 (2006.01) A61P 9/12 (2006.01) A61P 13/12 (2006.01)**
[25] EN
[54] **TELMISARTAN FOR THE TREATMENT OF CHRONIC KIDNEY DISEASE IN DOGS**
[54] **TELMISARTAN POUR LE TRAITEMENT D'UNE MALADIE RENALE CHRONIQUE CHEZ LES CHIENS**
[72] TRAAS, ANNE MICHELLE, US
[72] ERICKSON COLEMAN AMANDA, US
[72] FERREIRA DE MOURA LOURENCO, BIANCA NATALIA, US
[72] CREEVY, KATE ELIZABETH, US
[72] BROWN, SCOTT ALAN, US
[71] BOEHRINGER INGELHEIM VETMEDICA GMBH, DE
[71] UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC., US
[85] 2021-12-06
[86] 2020-04-30 (PCT/US2020/030579)
[87] (WO2021/006941)
[30] US (62/871,752) 2019-07-09

[21] **3,142,877**
[13] A1
[51] **Int.Cl. A61K 31/4184 (2006.01) A61K 31/401 (2006.01) A61K 45/06 (2006.01) A61P 9/12 (2006.01)**
[25] EN
[54] **TELMISARTAN FOR THE TREATMENT OF HYPERTENSION IN DOGS**
[54] **TELMISARTAN POUR LE TRAITEMENT DE L'HYPERTENSION CHEZ LES CHIENS**
[72] TRAAS, ANNE MICHELLE, US
[72] COLEMAN, AMANDA ERICKSON, US
[72] FERREIRA DE MOURA LOURENCO, BIANCA NATALIA, US
[72] CREEVY, KATE, ELIZABETH, US
[72] BROWN, SCOTT ALAN, US
[71] BOEHRINGER INGELHEIM VETMEDICA GMBH, DE
[71] UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC., US
[85] 2021-12-06
[86] 2020-04-30 (PCT/US2020/030581)
[87] (WO2021/006942)
[30] US (62/871,749) 2019-07-09

[21] **3,142,878**
[13] A1
[51] **Int.Cl. C09K 8/22 (2006.01) C07C 217/08 (2006.01) C09K 8/18 (2006.01)**
[25] EN
[54] **SYNERGISTIC PERFORMANCE OF AMINE BLENDS IN SHALE CONTROL**
[54] **PERFORMANCE SYNERGIQUE DE MELANGES D'AMINES DANS LE CONTROLE DE SCHISTES**
[72] LEWIS, DAVID C., US
[72] CLEMENTS, JOHN, US
[72] MACHAC, JAMES, US
[71] HUNTSMAN PETROCHEMICAL LLC, US
[85] 2021-12-06
[86] 2020-05-14 (PCT/US2020/032887)
[87] (WO2020/256863)
[30] US (62/863,326) 2019-06-19

[21] **3,142,879**
[13] A1
[51] **Int.Cl. B64C 39/02 (2006.01) F24F 8/95 (2021.01) B01D 53/047 (2006.01) B01D 53/22 (2006.01) B64D 47/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR REMOVING GREENHOUSE GASES AND AIR POLLUTANTS FROM THE ATMOSPHERE**
[54] **PROCEDE ET APPAREIL POUR ELIMINER LES GAZ A EFFET DE SERRE ET LES POLLUANTS DE L'AIR DE L'ATMOSPHERE**
[72] THAKKAR, HARSHUL, US
[71] THAKKAR, HARSHUL, US
[85] 2021-12-06
[86] 2020-05-22 (PCT/US2020/034200)
[87] (WO2020/256889)
[30] US (62/858,605) 2019-06-07
[30] US (62/880,642) 2019-07-30

[21] **3,142,880**
[13] A1
[51] **Int.Cl. H02H 9/04 (2006.01) H02H 9/08 (2006.01)**
[25] EN
[54] **ELECTRICAL ENERGY SAVING SYSTEM**
[54] **SYSTEME D'ECONOMIE D'ENERGIE ELECTRIQUE**
[72] JOHNSON, JERRY B., US
[72] JOHNSON, ANDREW B., US
[71] INNOVATIVE ENERGY SOLUTIONS & SERVICES, INC., US
[85] 2021-12-06
[86] 2020-06-05 (PCT/US2020/036231)
[87] (WO2020/247700)
[30] US (16/434,449) 2019-06-07

[21] **3,142,881**
[13] A1
[51] **Int.Cl. A61L 27/34 (2006.01) A61L 27/36 (2006.01) A61L 31/10 (2006.01)**
[25] EN
[54] **COATED POLYMERIC MATERIAL**
[54] **MATERIAU POLYMERE REVETU**
[72] XU, HUI, US
[72] HUANG, LI TING, US
[72] STEC, ERIC, US
[72] POMERLEAU, MING F., US
[71] LIFECELL CORPORATION, US
[85] 2021-12-06
[86] 2020-06-05 (PCT/US2020/036427)
[87] (WO2020/247822)
[30] US (62/858,740) 2019-06-07

[21] **3,142,882**
[13] A1
[51] **Int.Cl. C07C 227/40 (2006.01) C07C 229/08 (2006.01) C07C 229/16 (2006.01)**
[25] EN
[54] **IMPROVED METHOD OF SYNTHESIS AND PURIFICATION OF CITRULLINE**
[54] **PROCEDE AMELIORE DE SYNTHESE ET DE PURIFICATION DE LA CITRULLINE**
[72] BULL, JAMES ALAN, DE
[72] FISCHER, HOLGER CHRISTIAN, DE
[72] KAISER, KARL JUERGEN, DE
[72] MONNOT-CHASE, BETTE, US
[71] ASKLEPION PHARMACEUTICALS, LLC, US
[85] 2021-12-06
[86] 2020-06-05 (PCT/US2020/036468)
[87] (WO2020/247853)
[30] US (62/857,612) 2019-06-05

[21] **3,142,883**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) C12N 9/22 (2006.01)**
[25] EN
[54] **ENGINEERED CASX SYSTEMS**
[54] **SYSTEMES CASX MODIFIES**
[72] OAKES, BENJAMIN, US
[72] HIGGINS, SEAN, US
[72] SPINNER, HANNAH, US
[72] DENNY, SARAH, US
[72] STAAHL, BRETT T., US
[72] TAYLOR, KIAN, US
[72] BANEY, KATHERINE, US
[72] COLIN, ISABEL, US
[72] ADIL, MAROOF, US
[71] SCRIBE THERAPEUTICS INC., US
[85] 2021-12-06
[86] 2020-06-05 (PCT/US2020/036505)
[87] (WO2020/247882)
[30] US (62/858,750) 2019-06-07
[30] US (62/944,892) 2019-12-06
[30] US (63/030,838) 2020-05-27

[21] **3,142,884**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTIGEN-BINDING PROTEIN CONSTRUCTS AND USES THEREOF**
[54] **CONSTRUCTIONS DE PROTEINES DE LIAISON A L'ANTIGENE ET UTILISATIONS ASSOCIEES**
[72] NICHOLS, ALEXANDER J., US
[72] FISKE, BRIAN P., US
[72] GERA, NIMISH, US
[71] MYTHIC THERAPEUTICS, INC., US
[85] 2021-12-06
[86] 2020-06-05 (PCT/US2020/036495)
[87] (WO2020/247873)
[30] US (62/858,932) 2019-06-07
[30] US (62/888,384) 2019-08-16

[21] **3,142,885**
[13] A1
[51] **Int.Cl. A61K 31/137 (2006.01) A61K 45/06 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **METHODS AND FORMULATIONS FOR TREATING VISION DISORDERS**
[54] **METHODES ET COMPOSITIONS DE TRAITEMENT DE TROUBLES DE LA VUE**
[72] WOODWARD, DAVID F., US
[72] WANG, WEIZHEN, US
[71] JENIVISION INC., US
[85] 2021-12-06
[86] 2020-06-09 (PCT/US2020/036775)
[87] (WO2020/251926)
[30] US (62/859,682) 2019-06-10

[21] **3,142,886**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTIGEN-BINDING PROTEIN CONSTRUCTS AND USES THEREOF**
[54] **CONSTRUCTIONS DE PROTEINE DE LIAISON A L'ANTIGENE ET UTILISATIONS DE CELLES-CI**
[72] NICHOLS, ALEXANDER J., US
[72] FISKE, BRIAN P., US
[72] GERA, NIMISH, US
[71] MYTHIC THERAPEUTICS, INC., US
[85] 2021-12-06
[86] 2020-06-05 (PCT/US2020/036501)
[87] (WO2020/247878)
[30] US (62/858,284) 2019-06-06
[30] US (62/902,776) 2019-09-19
[30] US (62/904,333) 2019-09-23
[30] US (62/931,005) 2019-11-05

[21] **3,142,887**
[13] A1
[51] **Int.Cl. A61K 31/55 (2006.01) A61P 35/00 (2006.01) C07D 223/16 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07H 15/00 (2006.01)**
[25] EN
[54] **AMINOBENZAZEPINE COMPOUNDS, IMMUNOCONJUGATES, AND USES THEREOF**
[54] **COMPOSES D'AMINOBENZAZEPINE, IMMUNOCONJUGUES ET LEURS UTILISATIONS**
[72] ACKERMAN, SHELLEY ERIN, US
[72] ALONSO, MICHAEL N., US
[72] KUDIRKA, ROMAS, US
[72] LEE, ARTHUR, US
[72] SAFINA, BRIAN, US
[72] ZHOU, MATTHEW, US
[71] BOLT BIOTHERAPEUTICS, INC., US
[85] 2021-12-06
[86] 2020-06-12 (PCT/US2020/037477)
[87] (WO2020/252294)
[30] US (62/861,139) 2019-06-13
[30] US (62/963,884) 2020-01-21

[21] **3,142,888**
[13] A1
[51] **Int.Cl. G16B 30/20 (2019.01)**
[25] EN
[54] **TECHNIQUES FOR PROTEIN IDENTIFICATION USING MACHINE LEARNING AND RELATED SYSTEMS AND METHODS**
[54] **TECHNIQUES D'IDENTIFICATION DE PROTEINE UTILISANT L'APPRENTISSAGE MACHINE, ET SYSTEMES ET PROCEDES ASSOCIES**
[72] ZHANG, ZHIZHUO, US
[72] RASHID, SABRINA, US
[72] PARRY, BRADLEY ROBERT, US
[72] MEYER, MICHAEL, US
[72] REED, BRIAN, US
[71] QUANTUM-SI INCORPORATED, US
[85] 2021-12-06
[86] 2020-06-12 (PCT/US2020/037541)
[87] (WO2020/252345)
[30] US (62/860,750) 2019-06-12

[21] **3,142,890**
[13] A1
[51] **Int.Cl. C07D 253/02 (2006.01) A61K 31/53 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR THE MODULATION OF PROPROTEIN CONVERTASE SUBTILISIN/KEXIN TYPE 9 (PCSK9)**
[54] **COMPOSES POUR LA MODULATION DE LA PROPROTEINE CONVERTASE SUBTILISINE/KEXINE DE TYPE 9 (PCSK9)**
[72] BOWERS, SIMEON, US
[72] KARBARZ, MARK, US
[72] ZHU, JIANG, US
[72] BARTA, THOMAS E., US
[72] BOURNE, JONATHAN WILLIAM, US
[72] PANDEY, ANJALI, US
[71] SRX CARDIO, LLC, US
[85] 2021-12-06
[86] 2020-06-12 (PCT/US2020/037591)
[87] (WO2020/252383)
[30] US (62/861,902) 2019-06-14

[21] **3,142,891**
[13] A1
[51] **Int.Cl. A61B 34/20 (2016.01) G06T 7/55 (2017.01) G06T 7/80 (2017.01) H04N 13/243 (2018.01)**
[25] EN
[54] **CAMERA SYSTEM**
[54] **SYSTEME DE CAMERAS**
[72] SCHAFFELHOFER, STEFAN, AT
[71] CORTEXPLORE GMBH, AT
[85] 2021-12-07
[86] 2020-06-25 (PCT/AT2020/060253)
[87] (WO2020/257839)
[30] AT (A50573/2019) 2019-06-26

[21] **3,142,892**
[13] A1
[51] **Int.Cl. G06Q 30/00 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING AUTHENTICITY, INTEGRITY, AND NON-REPUDIATION TO ADVERTISING TECHNOLOGY**
[54] **SYSTEMES ET PROCEDES PERMETTANT DE FOURNIR UNE AUTHENTICITE, UNE INTEGRITE ET UNE NON REPUDIATION A UNE TECHNOLOGIE DE PUBLICITE**
[72] PRENDERGAST, NELSON HUNTER, US
[72] BROWN, AARON, US
[71] ADLEDGER, INC., US
[85] 2021-12-06
[86] 2020-06-15 (PCT/US2020/037748)
[87] (WO2020/252460)
[30] US (62/861,452) 2019-06-14

[21] **3,142,893**
[13] A1
[51] **Int.Cl. G01T 1/28 (2006.01) H01J 1/32 (2006.01) H01J 43/10 (2006.01)**
[25] EN
[54] **DETECTOR COMPRISING TRANSMISSION SECONDARY ELECTRON EMMISSION MEANS**
[54] **DETECTEUR COMPRENANT UN MOYEN D'EMISSION D'ELECTRONS SECONDAIRES DE TRANSMISSION**
[72] JUREK, RUSSELL, AU
[72] HUNTER, KEVIN, AU
[72] JONES, ANTONY, AU
[72] WAKHLE, ADITYA, AU
[71] ADAPTAS SOLUTIONS PTY LTD, AU
[85] 2021-12-07
[86] 2020-06-05 (PCT/AU2020/050581)
[87] (WO2020/243795)
[30] AU (2019901981) 2019-06-07

[21] **3,142,894**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01)**
[25] EN
[54] **HEART VALVE DEPLOYMENT AID**
[54] **AIDE AU DEPLOIEMENT D'UNE VALVULE CARDIAQUE**
[72] PINTOR, RAFAEL, US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2021-12-06
[86] 2020-07-22 (PCT/US2020/043126)
[87] (WO2021/025863)
[30] US (62/883,013) 2019-08-05

[21] **3,142,895**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01)**
[25] EN
[54] **FLEX SENSORS FOR MEASURING REAL-TIME VALVE DIAMETER DURING PROCEDURE**
[54] **CAPTEURS DE FLEXION POUR MESURER UN DIAMETRE DE VALVE EN TEMPS REEL PENDANT UNE PROCEDURE**
[72] SCHWARCZ, ELAZAR LEVI, IL
[72] COHEN, OREN, IL
[72] DVORSKY, ANATOLY, IL
[72] SIROTE, NATANEL SIMCHA, IL
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2021-12-06
[86] 2020-12-03 (PCT/US2020/062989)
[87] (WO2021/113431)
[30] US (62/945,010) 2019-12-06

[21] **3,142,896**
[13] A1
[51] **Int.Cl. A61F 2/962 (2013.01) A61F 2/95 (2013.01) A61F 2/966 (2013.01)**
[25] EN
[54] **EXPANDABLE SHEATH FOR INTRODUCING AN ENDOVASCULAR DELIVERY DEVICE INTO A BODY**
[54] **GAINE EXPANSIBLE POUR L'INTRODUCTION D'UN DISPOSITIF D'ADMINISTRATION ENDOVASCULAIRE DANS UN CORPS**
[72] TRAN, SONNY, US
[72] LEE, JEONG SOO, US
[72] SALEH, NASSER WILLIAM, US
[72] TAMIR, ILAN, US
[72] SCHERB, DANIEL J., US
[72] FINE, MAXWELL HARRISON, US
[72] GOWDAR, ALPANA KIRAN, US
[72] TRAN, TRI D., US
[72] AVERY, NEAL H., US
[72] GHANBARI, SARAH, US
[72] TRINH, UY D., US
[72] MAK, SOVANPHEAP, US
[72] BULMAN, ERIK, US
[72] MERCADO, RAYMOND, US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2021-12-06
[86] 2021-02-25 (PCT/US2021/019514)
[87] (WO2021/173745)
[30] US (62/982,253) 2020-02-27
[30] US (63/109,171) 2020-11-03

[21] **3,142,898**
[13] A1
[51] **Int.Cl. H04W 36/00 (2009.01)**
[25] EN
[54] **TERMINAL CAPABILITY IDENTIFIER OPERATION METHOD AND COMMUNICATIONS DEVICE**
[54] **PROCEDE DE FONCTIONNEMENT D'IDENTIFICATION DE CAPACITE DE TERMINAL ET DISPOSITIF DE COMMUNICATION**
[72] KE, XIAOWAN, CN
[71] VIVO MOBILE COMMUNICATION CO., LTD., CN
[85] 2021-12-07
[86] 2020-06-28 (PCT/CN2020/098540)
[87] (WO2020/259684)
[30] CN (201910578775.X) 2019-06-28

[21] **3,142,899**
[13] A1
[51] **Int.Cl. A61K 31/47 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **TREATMENT FOR SYNUCLEINOPATHIES**
[54] **TRAITEMENT DE SYNUCLEINOPATHIES**
[72] DAMLE, NITIN KRISHNAJI, IN
[72] GOLDFINE, ANDREW MICHAEL, US
[72] MANDHANE, SANJAYKUMAR NANDLAL, IN
[71] SUN PHARMA ADVANCED RESEARCH COMPANY LTD., IN
[85] 2021-12-07
[86] 2020-06-09 (PCT/IB2020/055425)
[87] (WO2020/250133)
[30] IN (201921023164) 2019-06-11

[21] **3,142,900**
[13] A1
[51] **Int.Cl. H05B 6/06 (2006.01) E21B 36/04 (2006.01) E21B 43/24 (2006.01)**
[25] EN
[54] **SIGNAL GENERATORS FOR ELECTROMAGNETIC HEATING AND SYSTEMS AND METHODS OF PROVIDING THEREOF**
[54] **GENERATEURS DE SIGNAUX POUR CHAUFFAGE ELECTROMAGNETIQUE ET SYSTEMES ET PROCEDES DE FOURNITURE DE CEUX-CI**
[72] NIELSEN, JORGEN S., CA
[72] OKONIEWSKI, MICHAL M., CA
[71] ACCELEWARE LTD., CA
[85] 2021-09-22
[86] 2020-03-16 (PCT/CA2020/050348)
[87] (WO2020/191481)
[30] US (62/823,299) 2019-03-25

[21] **3,142,901**
[13] A1
[51] **Int.Cl. C09K 21/14 (2006.01) A62D 1/00 (2006.01)**
[25] EN
[54] **A FIRE-RETARDANT COMPOSITION, PROCESS OF PREPARATION AND KIT THEREOF**
[54] **COMPOSITION IGNIFUGE, SON PROCEDE DE PREPARATION ET KIT ASSOCIE**
[72] MUDALIAR, CHANDRASEKHAR, IN
[72] SHARMA, MANEESH, IN
[72] KINI, PRASHANT VASANT, IN
[71] UPL LIMITED, IN
[85] 2021-12-07
[86] 2020-06-15 (PCT/IB2020/055565)
[87] (WO2020/254936)
[30] IN (201921024496) 2019-06-20

[21] **3,142,902**
[13] A1
[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61P 29/00 (2006.01) C07D 403/04 (2006.01) C07D 405/04 (2006.01) C07D 405/14 (2006.01) C07D 409/04 (2006.01) C07D 409/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **2,3-DIHYDROQUINAZOLIN COMPOUNDS AS NAV1.8 INHIBITORS**
[54] **COMPOSES 2,3-DIHYDROQUINAZOLINE EN TANT QU'INHIBITEURS DE NAV1.8**
[72] WASHBURN, DAVID G., US
[72] HOANG, TRAM H., US
[72] MILLER, WILLIAM H., US
[72] GUANG, JIE, US
[72] ELBAN, MARK, US
[72] DAVIS, RODERICK S., US
[72] HO, MING-HSUN, US
[72] ROMANO, JOSEPH J., US
[72] VIMAL, MYTHILY, GB
[72] YING, MABEN, US
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB
[85] 2021-12-07
[86] 2020-06-23 (PCT/IB2020/055921)
[87] (WO2020/261114)
[30] US (62/867,714) 2019-06-27
[30] US (62/896,698) 2019-09-06

[21] **3,142,903**
[13] A1
[51] **Int.Cl. G01N 15/04 (2006.01) C12M 1/04 (2006.01) C12M 1/36 (2006.01)**
[25] EN
[54] **CENTRIFUGAL MICROFLUIDIC CHIP, KIT AND SYSTEM FOR ON-CHIP GAS SUPPLY**
[54] **PUCE MICROFLUIDIQUE CENTRIFUGE, KIT ET SYSTEME D'ALIMENTATION EN GAZ SUR PUCE**
[72] MALIC, LIDIJA, CA
[72] VERES, TEODOR, CA
[72] CLIME, LIVIU, CA
[72] DAOUD, JAMAL, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[85] 2021-12-07
[86] 2020-06-26 (PCT/IB2020/056095)
[87] (WO2020/261229)
[30] US (62/867,931) 2019-06-28

[21] **3,142,904**
[13] A1
[51] **Int.Cl. A61K 31/167 (2006.01) A61K 31/4162 (2006.01) A61K 31/42 (2006.01) A61K 31/4439 (2006.01) A61K 31/454 (2006.01) A61K 31/46 (2006.01) A61K 31/496 (2006.01) A61K 31/55 (2006.01) A61K 31/575 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **TREATMENT COMPRISING FXR AGONISTS**
[54] **TRAITEMENT COMPRENANT DES AGONISTES DE FXR**
[72] BREES, DOMINIQUE, CH
[72] LOPEZ, PATRICIA, CH
[71] NOVARTIS AG, CH
[85] 2021-12-07
[86] 2020-07-21 (PCT/IB2020/056834)
[87] (WO2021/014349)
[30] US (62/877,448) 2019-07-23
[30] US (62/901,568) 2019-09-17

[21] **3,142,905**
[13] A1
[51] **Int.Cl. A61K 31/46 (2006.01) A61K 31/7048 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **COMBINATION TREATMENT OF LIVER DISEASES USING FXR AGONISTS**
[54] **TRAITEMENT COMBINE DE MALADIES HEPATIQUES A L'AIDE D'AGONISTES DE FXR**
[72] BREES, DOMINIQUE, CH
[72] LOPEZ, PATRICIA, CH
[71] NOVARTIS AG, CH
[85] 2021-12-07
[86] 2020-07-21 (PCT/IB2020/056837)
[87] (WO2021/014350)
[30] US (62/877,452) 2019-07-23
[30] US (62/901,427) 2019-09-17
[30] US (62/980,773) 2020-02-24

[21] **3,142,906**
[13] A1
[51] **Int.Cl. A61B 17/04 (2006.01) A61F 2/24 (2006.01)**
[25] EN
[54] **ANNULOPLASTY AND TISSUE ANCHOR TECHNOLOGIES**
[54] **TECHNOLOGIES D'ANCRAGE D'ANNULOPLASTIE ET DE TISSU**
[72] KASHER, YUVAL, IL
[72] GALON, AVIV, IL
[72] PEER, AMIT, IL
[72] COHEN, OR, IL
[72] BRAUON, HAIM, IL
[72] SHEPS, TAL, IL
[72] SHARON, ASSAF, IL
[72] TENNENBAUM, GAD, IL
[72] HERMAN, YARON, IL
[72] SHOHAM, TOMER, IL
[72] BENSHAHAR, TAL, IL
[72] HALABI, IDO, IL
[72] PLUT, ROMAN, IL
[71] VALTECH CARDIO, LTD., IL
[85] 2021-12-07
[86] 2020-10-27 (PCT/IB2020/060044)
[87] (WO2021/084407)
[30] US (62/927,624) 2019-10-29
[30] US (62/949,392) 2019-12-17

[21] **3,142,907**
[13] A1
[51] **Int.Cl. D21F 1/00 (2006.01) B29C 53/12 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR PRODUCING HELICAL COILS**
[54] **PROCEDE ET DISPOSITIF POUR LA FABRICATION DE FILAMENTS HELICOIDAUX**
[72] LANGELLOTI, FRANCO, DE
[72] LEO, MARTIN, DE
[72] BACHMANN, WOLFGANG, DE
[72] NUSS, LOTHAR, DE
[71] LEO FEINWERKTECHNIK GMBH & CO. KG, DE
[85] 2021-12-07
[86] 2020-05-25 (PCT/EP2020/064462)
[87] (WO2020/244955)
[30] DE (10 2019 115 591.6) 2019-06-07

[21] **3,142,908**
[13] A1
[51] **Int.Cl. C12N 1/20 (2006.01) A61K 35/747 (2015.01) A61K 38/16 (2006.01) C07K 14/335 (2006.01)**
[25] EN
[54] **NOVEL LACTIC ACID BACTERIA STRAIN - ANTIBACTERIAL PEPTIDES PRODUCED BY SAID STRAIN AND RELATED PHARMACEUTICAL COMPOSITIONS**
[54] **NOUVEAUX PEPTIDES ANTIBACTERIENS DE SOUCHE D'ACIDE LACTIQUE PRODUITS PAR LADITE SOUCHE ET COMPOSITIONS PHARMACEUTIQUES ASSOCIEES**
[72] BOUKHERROUB, RABAH, FR
[72] DRIDER, DJAMEL, FR
[72] HAZIME, NOURA, FR
[72] BELGUESMIA, YANATH, FR
[72] BENDJEDDOU, KAMEL, DZ
[71] UNIVERSITE DE LILLE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] YNCREA HAUTS DE FRANCE, FR
[71] UNIVERSITE DU LITTORAL COTE D'OPALE, FR
[71] UNIVERSITE D'ARTOIS, FR
[71] UNIVERSITE POLYTECHNIQUE DES HAUTS DE FRANCE, FR
[71] CENTRALE LILLE INSTITUT, FR
[85] 2021-12-07
[86] 2020-06-03 (PCT/EP2020/065376)
[87] (WO2020/245216)
[30] EP (19178926.2) 2019-06-07

[21] **3,142,909**
[13] A1
[51] **Int.Cl. A01K 67/033 (2006.01) B09B 3/00 (2022.01) C05F 17/00 (2020.01)**
[25] EN
[54] **INSECT-BASED BIOWASTE PROCESSING APPARATUS**
[54] **APPAREIL DE TRAITEMENT DE DECHETS BIOLOGIQUES A BASE D'INSECTES**
[72] BAR, YANIV, IL
[71] YB INSECT FARMING LTD, IL
[85] 2021-12-07
[86] 2020-06-15 (PCT/IL2020/050661)
[87] (WO2020/255121)
[30] IL (267413) 2019-06-17

[21] **3,142,910**
[13] A1
[51] **Int.Cl. E21B 47/001 (2012.01) E21B 47/003 (2012.01) E21B 47/005 (2012.01) E21B 47/007 (2012.01) E02D 27/52 (2006.01) E21B 33/035 (2006.01) E21B 47/022 (2012.01) E21B 47/026 (2006.01) E21B 47/08 (2012.01)**
[25] EN
[54] **WELL ASSEMBLY MONITORING**
[54] **SURVEILLANCE D'ENSEMBLE PUITS**
[72] REINAS, LORENTS, NO
[71] EQUINOR ENERGY AS, NO
[85] 2021-12-07
[86] 2020-06-08 (PCT/NO2020/050146)
[87] (WO2020/246898)
[30] GB (1908160.3) 2019-06-07

[21] **3,142,911**
[13] A1
[51] **Int.Cl. C07K 14/55 (2006.01) A61K 38/20 (2006.01) C12N 15/26 (2006.01)**
[25] EN
[54] **IL2 AGONISTS**
[54] **AGONISTES D'IL2**
[72] SAHIN, UGUR, DE
[72] FELLERMEIER-KOPF, SINA, DE
[72] MUIK, ALEXANDER, DE
[72] VORMEHR, MATHIAS, DE
[72] KRANZ, LENA MAREEN, DE
[71] BIONTECH SE, DE
[85] 2021-12-07
[86] 2020-06-23 (PCT/EP2020/067479)
[87] (WO2020/260270)
[30] EP (PCT/EP2019/066648) 2019-06-24

[21] **3,142,912**
[13] A1
[51] **Int.Cl. E04B 1/70 (2006.01) E04G 23/02 (2006.01)**
[25] EN
[54] **METHOD AND ARRANGEMENT FOR DRYING A WATER DAMAGED FLOOR STRUCTURE**
[54] **PROCEDE ET AGENCEMENT PERMETTANT DE SECHER UNE STRUCTURE DE SOL ENDOMMAGEE PAR L'EAU**
[72] AHSBERG, JOHAN, SE
[71] REDDO FLOOR SOLUTIONS AB, SE
[85] 2021-12-07
[86] 2020-06-08 (PCT/SE2020/050572)
[87] (WO2020/251450)
[30] SE (1950688-0) 2019-06-10

[21] **3,142,913**
[13] A1
[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01)**
[25] EN
[54] **TUMOUR INFILTRATING LYMPHOCYTE THERAPY AND USES THEREOF**
[54] **THERAPIE PAR LYMPHOCYTES INFILTRANT DES TUMEURS ET SES UTILISATIONS**
[72] PRICE, NICOLA KAYE, GB
[72] BRIDGEMAN, JOHN STEPHEN, GB
[71] INSTIL BIO (UK) LIMITED, GB
[85] 2021-12-07
[86] 2020-07-24 (PCT/GB2020/051790)
[87] (WO2021/014174)
[30] GB (1910605.3) 2019-07-24
[30] US (62/878,001) 2019-07-24

[21] **3,142,914**
[13] A1
[51] **Int.Cl. H04W 28/06 (2009.01) H04W 72/04 (2009.01) H04W 72/08 (2009.01)**
[25] EN
[54] **TERMINAL AND RADIO COMMUNICATION METHOD**
[54] **TERMINAL ET PROCEDE DE COMMUNICATION RADIOELECTRIQUE**
[72] MATSUMURA, YUKI, JP
[72] YOSHIOKA, SHOHEI, JP
[72] NAGATA, SATOSHI, JP
[71] NTT DOCOMO, INC., JP
[85] 2021-12-07
[86] 2019-06-10 (PCT/JP2019/022999)
[87] (WO2020/250289)

[21] **3,142,915**
[13] A1
[51] **Int.Cl. A01M 1/02 (2006.01) A01M 1/10 (2006.01) G01V 8/12 (2006.01)**
[25] EN
[54] **A DEVICE FOR DETERMINING BEDBUG ACTIVITY AND A METHOD FOR DETECTION OF BEDBUGS**
[54] **DISPOSITIF DE DETERMINATION D'UNE ACTIVITE DE PUNAISES DE LIT ET PROCEDE DE DETECTION DE PUNAISES DE LIT**
[72] BUIS, LEOBERT WILLIAM, SE
[71] IOT TELLTALES AB, SE
[85] 2021-12-07
[86] 2020-06-24 (PCT/SE2020/050655)
[87] (WO2020/263167)
[30] SE (1930231-4) 2019-06-28

[21] **3,142,916**
[13] A1
[51] **Int.Cl. B65D 3/14 (2006.01) B31B 50/25 (2017.01) B31B 50/72 (2017.01) B31F 1/08 (2006.01) B65B 1/04 (2006.01)**
[25] EN
[54] **METHOD OF PRODUCING A PACKAGING CONTAINER AND A PACKAGING CONTAINER**
[54] **PROCEDE DE PRODUCTION D'UN CONTENANT D'EMBALLAGE ET CONTENANT D'EMBALLAGE**
[72] ANDERSSON, RICKARD, SE
[71] AR PACKAGING SYSTEMS AB, SE
[85] 2021-12-07
[86] 2020-07-01 (PCT/SE2020/050691)
[87] (WO2021/002797)
[30] SE (1950831-6) 2019-07-02

[21] **3,142,917**
[13] A1
[51] **Int.Cl. G01N 33/18 (2006.01) G01N 1/20 (2006.01)**
[25] EN
[54] **LOW FLOW-THROUGH VIAL**
[54] **FLACON A FAIBLE DEBIT**
[72] SWANSON, LUKAS, US
[71] BL TECHNOLOGIES, INC., US
[85] 2021-12-07
[86] 2019-06-26 (PCT/US2019/039172)
[87] (WO2020/263238)

[21] **3,142,918**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A23K 20/153 (2016.01) A23L 33/13 (2016.01) A61K 31/7088 (2006.01) A61K 31/712 (2006.01) A61K 31/7125 (2006.01) A61K 48/00 (2006.01) A61P 3/10 (2006.01) A61P 7/00 (2006.01) A61P 9/00 (2006.01) A61P 9/04 (2006.01) A61P 9/10 (2006.01) A61P 13/12 (2006.01) A61P 19/02 (2006.01) A61P 19/08 (2006.01) A61P 21/02 (2006.01) A61P 21/04 (2006.01) A61P 29/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **NUCLEIC ACID DRUG SUPPRESSING PRODUCTION OF MYOSTATIN GENE MRNA**
[54] **MEDICAMENT A BASE D'ACIDE NUCLEIQUE SUPPRIMANT LA PRODUCTION DE L'ARNM DU GENE DE LA MYOSTATINE**
[72] MATSUO, MASAFUMI, JP
[72] MAETA, KAZUHIRO, JP
[71] KNC LABORATORIES CO., LTD., JP
[71] KOBE GAKUIN EDUCATIONAL FOUNDATION, JP
[85] 2021-12-07
[86] 2020-06-18 (PCT/JP2020/023917)
[87] (WO2020/262184)
[30] JP (2019-118446) 2019-06-26

[21] **3,142,919**
[13] A1
[51] **Int.Cl. C12P 19/14 (2006.01) C08B 30/20 (2006.01) C08B 33/02 (2006.01) C08B 35/02 (2006.01) C12P 19/16 (2006.01) C12P 19/18 (2006.01) C12P 19/22 (2006.01)**
[25] EN
[54] **STARCH-DERIVED CLATHRATE-FORMING COMPOSITIONS**
[54] **COMPOSITIONS FORMANT DES CLATHRATES DERIVEES DE L'AMIDON**
[72] NICKEL, GARY B., PA
[71] NICKEL, GARY B., PA
[85] 2021-12-07
[86] 2019-08-15 (PCT/US2019/046671)
[87] (WO2020/251603)
[30] US (62/861,426) 2019-06-14

[21] **3,142,920**
[13] A1
[51] **Int.Cl. E21B 33/16 (2006.01) E21B 33/134 (2006.01) E21B 33/14 (2006.01) E21B 34/06 (2006.01) E21B 34/10 (2006.01) E21B 34/12 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DOWNHOLE TOOLS**
[54] **PROCEDES ET SYSTEMES POUR OUTILS DE FOND DE TROU**
[72] SARAYA, MOHAMED, US
[71] VERTICE OIL TOOLS, US
[71] SARAYA, MOHAMED, US
[85] 2021-12-07
[86] 2019-09-14 (PCT/US2019/051198)
[87] (WO2021/021221)
[30] US (16/523,692) 2019-07-26

[21] **3,142,921**
[13] A1
[51] **Int.Cl. A61F 9/00 (2006.01) A61F 9/007 (2006.01)**
[25] EN
[54] **IMPLANTABLE BIOLOGIC STENT AND SYSTEM FOR BIOLOGIC MATERIAL SHAPING AND PREPARATION IN THE TREATMENT OF GLAUCOMA**
[54] **STENT BIOLOGIQUE IMPLANTABLE ET SYSTEME DE MISE EN FORME ET DE PREPARATION DE MATERIAU BIOLOGIQUE DANS LE TRAITEMENT DU GLAUCOME**
[72] IANCHULEV, TSONTCHO, US
[71] IANTREK, INC., US
[85] 2021-12-07
[86] 2020-01-30 (PCT/US2020/015935)
[87] (WO2020/251629)
[30] US (62/861,900) 2019-06-14
[30] US (62/897,570) 2019-09-09
[30] US (62/943,106) 2019-12-03

[21] **3,142,922**
[13] A1
[51] **Int.Cl. G01N 21/64 (2006.01) G02B 6/34 (2006.01)**
[25] EN
[54] **SLICED GRATING COUPLER WITH INCREASED BEAM ALIGNMENT SENSITIVITY**
[54] **COUPLEUR DE RESEAU TRANCHE A SENSIBILITE D'ALIGNEMENT DE FAISCEAU ACCRUE**
[72] SCHMID, GERARD, US
[72] PRESTON, KYLE, US
[72] STEWMAN, SHANNON, US
[71] QUANTUM-SI INCORPORATED, US
[85] 2021-12-07
[86] 2020-04-29 (PCT/US2020/030345)
[87] (WO2020/251690)
[30] US (62/861,832) 2019-06-14

[21] **3,142,923**
[13] A1
[51] **Int.Cl. A61L 27/52 (2006.01) A61L 27/18 (2006.01) A61L 27/20 (2006.01) A61L 27/22 (2006.01) C07K 14/78 (2006.01)**
[25] EN
[54] **METHODS FOR IMPROVING THE TISSUE SEALING PROPERTIES OF HYDROGELS AND THE USE THEREOF**
[54] **PROCEDES D'AMELIORATION DES PROPRIETES DE SCELLEMENT TISSULAIRE D'HYDROGELS ET LEUR UTILISATION**
[72] SHEIKHI, AMIR, US
[72] ANNABI, NASIM, US
[72] KHADEMHOSSEINI, ALIREZA, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2021-12-07
[86] 2020-05-20 (PCT/US2020/033775)
[87] (WO2020/236917)
[30] US (62/850,368) 2019-05-20

[21] **3,142,924**
[13] A1
[51] **Int.Cl. G01S 7/52 (2006.01) G01S 7/534 (2006.01) G01S 7/536 (2006.01) G01S 15/42 (2006.01) G01S 15/52 (2006.01) G01S 15/58 (2006.01) G01S 15/62 (2006.01) G01S 15/66 (2006.01) G01S 15/88 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETERMINING A DEPTH OF AN OBJECT**
[54] **PROCEDES ET SYSTEMES POUR DETERMINER UNE PROFONDEUR D'UN OBJET**
[72] WOOD, THOMAS E., US
[72] SHORT, JOHN R., US
[71] RAYTHEON COMPANY, US
[85] 2021-12-07
[86] 2020-05-27 (PCT/US2020/034632)
[87] (WO2021/034366)
[30] US (16/534,038) 2019-08-07

[21] **3,142,925**
[13] A1
[51] **Int.Cl. A61K 31/712 (2006.01) C12N 15/113 (2010.01) A61P 21/04 (2006.01) A61P 43/00 (2006.01) C12N 5/10 (2006.01)**
[25] EN
[54] **ANTISENSE OLIGONUCLEOTIDE CAPABLE OF ALTERING SPLICING OF DUX4 PRE-MRNA**
[54] **OLIGONUCLEOTIDE ANTISENS PERMETTANT DE MODIFIER L'EPISSAGE PRE-ARNM DE DUX4**
[72] KOIZUMI, MAKOTO, JP
[72] NAKAMURA, AKIFUMI, JP
[72] KATAGIRI, TAKAHIRO, JP
[72] MITSUHASHI, HIROAKI, JP
[71] DAIICHI SANKYO COMPANY, LIMITED, JP
[71] TOKAI UNIVERSITY EDUCATIONAL SYSTEM, JP
[85] 2021-12-07
[86] 2020-07-10 (PCT/JP2020/026950)
[87] (WO2021/010301)
[30] JP (2019-129735) 2019-07-12

[21] **3,142,926**
[13] A1
[51] **Int.Cl. A47K 10/38 (2006.01) B65H 19/10 (2006.01)**
[25] EN
[54] **LOADING AND TRANSFER SYSTEM/ASSEMBLY FOR SHEET MATERIAL DISPENSERS**
[54] **SYSTEME/ENSEMBLE DE CHARGEMENT ET DE TRANSFERT POUR DISTRIBUTEURS DE MATERIAU EN FEUILLE**
[72] OSBORNE, CHARLES AGNEW, JR., US
[71] OSBORNE, CHARLES AGNEW, JR., US
[85] 2021-12-07
[86] 2020-06-05 (PCT/US2020/036257)
[87] (WO2020/251841)
[30] US (62/861,425) 2019-06-14

[21] **3,142,927**
[13] A1
[51] **Int.Cl. B64D 5/00 (2006.01) B64C 37/02 (2006.01) B64C 39/02 (2006.01) B64D 1/00 (2006.01) B64D 3/00 (2006.01) B66F 19/00 (2006.01)**
[25] EN
[54] **SUSPENDED AERIAL VEHICLE SYSTEM WITH THRUSTER STABILIZATION**
[54] **SYSTEME DE VEHICULE AERIEN SUSPENDU AVEC STABILISATION DE MICROPROPULSEUR**
[72] USMAN, IRFAN-UR-RAB, US
[71] KYTE DINAMICS, INC., US
[85] 2021-12-07
[86] 2020-06-05 (PCT/US2020/036492)
[87] (WO2020/247870)
[30] US (62/858,330) 2019-06-07

[21] **3,142,928**
[13] A1
[51] **Int.Cl. E21B 43/267 (2006.01) C09K 8/80 (2006.01)**
[25] EN
[54] **DECREASING PROPPANT EMBEDMENT WITH AMINE-FUNCTIONALIZED POLYSACCHARIDES**
[54] **REDUCTION DE L'ENFONCEMENT D'AGENT DE SOUTENEMENT AVEC DES POLYSACCHARIDES A FONCTION AMINE**
[72] LANDIS, CHARLES R., US
[72] ALMOND, STEPHEN WILLIAM, US
[71] INTEGRITY BIO-CHEMICALS, LLC, US
[85] 2021-12-07
[86] 2020-06-09 (PCT/US2020/036791)
[87] (WO2020/251935)
[30] US (62/859,400) 2019-06-10

[21] **3,142,929**
[13] A1
[51] **Int.Cl. E21B 43/26 (2006.01) E21B 34/02 (2006.01) E21B 43/267 (2006.01)**
[25] EN
[54] **HOT SWAPPABLE FRACKING PUMP SYSTEM**
[54] **SYSTEME DE POMPE DE FRACTURATION REMPLACABLE A CHAUD**
[72] JOHNSON, AUSTIN C., US
[72] MARVEL, TIM, US
[72] SCHULTZ, KYLE, US
[71] DOWNING WELLHEAD EQUIPMENT, LLC, US
[85] 2021-12-07
[86] 2020-06-10 (PCT/US2020/036991)
[87] (WO2020/252017)
[30] US (16/436,189) 2019-06-10

[21] **3,142,930**
[13] A1
[51] **Int.Cl. B01J 3/00 (2006.01) B01J 19/24 (2006.01)**
[25] EN
[54] **APPARATUS FOR SUPERCRITICAL WATER GASIFICATION**
[54] **APPAREIL DE GAZEIFICATION D'EAU SUPERCRITIQUE**
[72] BAUDHUIN, THOMAS J., US
[71] BAUDHUIN, THOMAS J., US
[85] 2021-12-07
[86] 2020-06-09 (PCT/US2020/036799)
[87] (WO2020/251939)
[30] US (62/859,227) 2019-06-10

[21] **3,142,931**
[13] A1
[51] **Int.Cl. A61K 31/137 (2006.01)**
[25] EN
[54] **SWELL 1 MODULATORS FOR TREATMENT OF NON-ALCOHOLIC FATTY LIVER DISEASE, IMMUNE DEFICIENCIES, MALE INFERTILITY AND VASCULAR DISEASES**
[54] **MODULATEURS DE SWELL1 POUR LE TRAITEMENT D'UNE STEATOSE HEPATIQUE NON ALCOOLIQUE, DE DEFICIENCES IMMUNITAIRES, D'UNE STERILITE MASCULINE ET DE MALADIES VASCULAIRES**
[72] SAH, RAJAN, US
[72] GUNASEKAR, SUSHEEL, US
[72] XIE, LITAO, US
[71] UNIVERSITY OF IOWA RESEARCH FOUNDATION, US
[85] 2021-12-07
[86] 2020-06-10 (PCT/US2020/036992)
[87] (WO2020/252018)
[30] US (62/859,606) 2019-06-10

[21] **3,142,932**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01) A61K 45/06 (2006.01) A61K 48/00 (2006.01) A61P 25/28 (2006.01) C12N 7/00 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **ADENO-ASSOCIATED VIRUS COMPOSITIONS FOR ARSA GENE TRANSFER AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS DE VIRUS ADENO-ASSOCIES POUR TRANSFERT DE GENE ARSA ET LEURS PROCEDES D'UTILISATION**
[72] ST. MARTIN, THIA BABOVAL, US
[72] SEYMOUR, ALBERT BARNES, US
[72] RUBIN, HILLARD, US
[71] HOMOLOGY MEDICINES, INC., US
[85] 2021-12-07
[86] 2020-06-09 (PCT/US2020/036846)
[87] (WO2020/251954)
[30] US (62/859,539) 2019-06-10
[30] US (62/866,374) 2019-06-25
[30] US (62/915,523) 2019-10-15
[30] US (62/960,487) 2020-01-13
[30] US (62/987,858) 2020-03-10
[30] US (63/010,970) 2020-04-16

[21] **3,142,933**
[13] A1
[51] **Int.Cl. G06Q 20/36 (2012.01) G06Q 20/06 (2012.01) G06Q 20/40 (2012.01)**
[25] EN
[54] **TOKENIZED ASSET BACKED BY GOVERNMENT BONDS AND IDENTITY AND RISK SCORING OF ASSOCIATED TOKEN TRANSACTIONS**
[54] **ACTIF EN JETON GARANTI PAR DES OBLIGATIONS DU GOUVERNEMENT ET NOTATION D'IDENTITE ET DE RISQUE POUR DES TRANSACTIONS DE JETONS ASSOCIEES**
[72] PASCHINI, MILES, US
[72] AGARWAL, NITIN, IN
[71] PASCHINI, MILES, US
[71] AGARWAL, NITIN, IN
[85] 2021-12-07
[86] 2020-06-10 (PCT/US2020/037016)
[87] (WO2020/252036)
[30] US (62/859,665) 2019-06-10

[21] **3,142,934**
[13] A1
[25] EN
[54] **DEVICE AND SYSTEM FOR REMOTE REGULATION AND MONITORING OF DRUG DELIVERY AND METHOD OF SAME**
[54] **DISPOSITIF ET SYSTEME DE REGULATION ET DE SURVEILLANCE A DISTANCE D'ADMINISTRATION DE MEDICAMENT ET PROCEDE ASSOCIE**
[72] BANOV, JACOB, US
[72] VERGA, ADAM, US
[72] LIUBOVICH, DANIEL, US
[72] KLEBER, BRANDON, US
[71] KBLV MEDICAL, LLC, US
[85] 2021-12-07
[86] 2020-06-09 (PCT/US2020/036858)
[87] (WO2020/251960)
[30] US (62/859,138) 2019-06-09

[21] **3,142,935**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS OF ASTROVIRUS REPLICONS**
[54] **PROCEDES ET COMPOSITIONS DE REPLICONS D'ASTROVIRUS**
[72] ERASMUS, JESSE, US
[71] INFECTIOUS DISEASE RESEARCH INSTITUTE, US
[85] 2021-12-07
[86] 2020-06-10 (PCT/US2020/037094)
[87] (WO2020/252093)
[30] US (62/859,683) 2019-06-10

[21] **3,142,937**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR ROUTING NETWORK TRAFFIC USING LABELS**
[54] **SYSTEMES ET PROCEDES DE ROUTAGE DE TRAFIC DE RESEAU UTILISANT DES ETIQUETTES**
[72] BOSCH, HENDRIKUS G.P., NL
[72] OLOFSSON, STEFAN, AE
[72] WIJNANDS, IJSBRAND, BE
[72] GUPTA, ANUBHAV, US
[72] NAPPER, JEFFREY, NL
[72] MULLENDER, SAPE JURRIEN, NL
[71] CISCO TECHNOLOGY, INC., US
[85] 2021-12-06
[86] 2020-05-29 (PCT/US2020/035045)
[87] (WO2020/247248)
[30] US (62/858,207) 2019-06-06
[30] US (62/858,245) 2019-06-06
[30] US (16/750,139) 2020-01-23

[21] **3,142,938**
[13] A1
[51] **Int.Cl. A61F 2/36 (2006.01) A61F 2/30 (2006.01) A61F 2/32 (2006.01) A61F 2/38 (2006.01)**
[25] EN
[54] **FEMORAL HEAD ARTHROPLASTY SYSTEM**
[54] **SYSTEME D'ARTHROPLASTIE DE LA TETE FEMORALE**
[72] KUO, ALFRED, US
[71] GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS, US
[85] 2021-12-07
[86] 2020-06-11 (PCT/US2020/037238)
[87] (WO2020/252166)
[30] US (62/860,549) 2019-06-12

[21] **3,142,939**
[13] A1
[51] **Int.Cl. G06Q 10/10 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR EXTERNAL SYSTEM INTEGRATION**
[54] **SYSTEMES ET PROCEDES D'INTEGRATION DE SYSTEME EXTERNE**
[72] CLARKE, FRED, US
[72] LADER, ANDREW, US
[71] LIVEPERSON, INC., US
[85] 2021-12-07
[86] 2020-06-10 (PCT/US2020/036990)
[87] (WO2020/252016)
[30] US (62/860,518) 2019-06-12

[21] **3,142,940**
[13] A1
[51] **Int.Cl. G06F 40/45 (2020.01) G06F 40/47 (2020.01)**
[25] EN
[54] **MACHINE-ASSISTED TRANSLATION FOR SUBTITLE LOCALIZATION**
[54] **TRADUCTION ASSISTEE PAR MACHINE POUR LA LOCALISATION DE SOUS-TITRES**
[72] BIHANI, BALLAV, US
[72] RICKARD, MATTHEW JAMES, US
[72] SEMENIAKIN, MARIANNA, US
[72] SHETTY, RANJITH KUMAR, US
[72] SMITH, ALLISON FILEMYR, US
[72] PEARSON, PATRICK BRENDON, US
[72] SHAH, SAMEER, US
[71] NETFLIX, INC., US
[85] 2021-12-07
[86] 2020-06-11 (PCT/US2020/037263)
[87] (WO2020/252182)
[30] US (16/442,403) 2019-06-14

[21] **3,142,942**
[13] A1
[51] **Int.Cl. A43B 13/12 (2006.01) B29D 35/08 (2010.01) A43B 13/02 (2022.01) A43B 13/14 (2006.01)**
[25] EN
[54] **FOOTWEAR ARTICLE WITH A PLATE AND METHOD FOR CUSTOMIZING SUCH A FOOTWEAR ARTICLE.**
[54] **ARTICLE CHAUSSANT DOTE D'UNE PLAQUE ET PROCEDE DE PERSONNALISATION D'UN TEL ARTICLE CHAUSSANT**
[72] LAVERTY, GREGOIRE, US
[71] THE NORTH FACE APPAREL CORP., US
[85] 2021-12-07
[86] 2020-06-12 (PCT/US2020/037396)
[87] (WO2020/252236)
[30] FR (FR1906427) 2019-06-14

[21] **3,142,943**
[13] A1
[51] **Int.Cl. G01V 9/00 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING PRESENCE OF RESERVOIRED HYDROCARBONS**
[54] **PROCEDE DE DETERMINATION DE LA PRESENCE D'HYDROCARBURES EN RESERVOIR**
[72] BAKSMATY, LESLIE OWURAKU, US
[72] RATNAKAR, RAM RATAN, US
[72] DINDORUK, BIROL, US
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2021-12-07
[86] 2020-06-12 (PCT/US2020/037411)
[87] (WO2020/252245)
[30] US (62/860,827) 2019-06-13
[30] EP (19185139.3) 2019-07-09

[21] **3,142,944**
[13] A1
[51] **Int.Cl. G01V 9/00 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING SUBSURFACE HYDROCARBON FLUID PROPERTIES OF RESERVOIRED HYDROCARBONS**
[54] **PROCEDE DE DETERMINATION DE PROPRIETES DE FLUIDE D'HYDROCARBURE SOUTERRAIN D'HYDROCARBURES EN RESERVOIR**
[72] BAKSMATY, LESLIE OWURAKU, US
[72] RATNAKAR, RAM RATAN, US
[72] DINDORUK, BIROL, US
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2021-12-07
[86] 2020-06-12 (PCT/US2020/037412)
[87] (WO2020/252246)
[30] US (62/860,847) 2019-06-13
[30] EP (19185152.6) 2019-07-09

[21] **3,142,946**
[13] A1
[51] **Int.Cl. G01V 9/00 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING PRESENCE OF RESERVOIRED HYDROCARBONS**
[54] **PROCEDE DE DETERMINATION DE LA PRESENCE D'UN RESERVOIR HYDROCARBURES**
[72] BAKSMATY, LESLIE OWURAKU, US
[72] RATNAKAR, RAM RATAN, US
[72] DINDORUK, BIROL, US
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2021-12-07
[86] 2020-06-12 (PCT/US2020/037415)
[87] (WO2020/252249)
[30] US (62/860,850) 2019-06-13
[30] EP (19185164.1) 2019-07-09

[21] **3,142,947**
[13] A1
[51] **Int.Cl. A61K 35/15 (2015.01) A61K 35/17 (2015.01) A61K 35/28 (2015.01)**
[25] EN
[54] **ENGINEERED OFF-THE-SHELF IMMUNE CELLS AND METHODS OF USE THEREOF**
[54] **CELLULES IMMUNITAIRES GENETIQUEMENT MODIFIEES PRETES A L'EMPLOI ET LEURS METHODES D'UTILISATION**
[72] YANG, LILI, US
[72] WANG, PIN, US
[72] KIM, YU JEONG, US
[72] YU, JIAJI, US
[72] LI, YANRUIDE, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[71] UNIVERSITY OF SOUTHERN CALIFORNIA, US
[85] 2021-12-07
[86] 2020-06-12 (PCT/US2020/037486)
[87] (WO2020/252303)
[30] US (62/860,613) 2019-06-12
[30] US (62/860,644) 2019-06-12
[30] US (62/860,667) 2019-06-12
[30] US (62/946,747) 2019-12-11
[30] US (62/946,788) 2019-12-11

[21] **3,142,948**
[13] A1
[51] **Int.Cl. A01K 67/027 (2006.01) C12N 15/09 (2006.01) C12N 15/11 (2006.01) C12N 15/63 (2006.01) C12N 15/67 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **ARTIFICIAL EXPRESSION CONSTRUCTS FOR SELECTIVELY MODULATING GENE EXPRESSION IN SELECTED NEURONAL CELL POPULATIONS**
[54] **PRODUITS DE RECOMBINAISON D'EXPRESSION ARTIFICIELS POUR LA MODULATION SELECTIVE DE L'EXPRESSION GENIQUE DANS DES POPULATION DE CELLULES NEURONALES SELECTIONNEES**
[72] TING, JONATHAN, US
[72] LEVI, BOAZ P., US
[72] TASIC, BOSILJKA, US
[72] MICH, JOHN K., US
[72] HESS, ERIK, US
[72] LEIN, EDWARD SEBASTIAN, US
[72] GRAYBUCK, LUCAS T., US
[72] DAIGLE, TANYA, US
[72] ZENG, HONGKUI, US
[71] ALLEN INSTITUTE, US
[85] 2021-08-14
[86] 2020-02-14 (PCT/US2020/018416)
[87] (WO2020/168279)
[30] US (62/806,686) 2019-02-15
[30] US (62/806,660) 2019-02-15
[30] US (62/874,859) 2019-07-16

[21] **3,142,949**
[13] A1
[51] **Int.Cl. A61K 9/127 (2006.01) A61K 47/24 (2006.01) A61K 47/28 (2006.01) A61K 48/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR BIOLOGICAL DELIVERY VEHICLES**
[54] **COMPOSITIONS ET PROCEDES POUR VEHICULES D'ADMINISTRATION BIOLOGIQUES**
[72] AHMAD, MUBHIJ, US
[72] DAY, TIMOTHY, US
[72] HAFEZ, ISMAIL, US
[72] MERRITT, JOHN, US
[71] DNALITE THERAPEUTICS, INC., US
[85] 2021-12-07
[86] 2020-06-12 (PCT/US2020/037579)
[87] (WO2020/252375)
[30] US (62/861,852) 2019-06-14
[30] US (62/948,095) 2019-12-13

[21] **3,142,950**
[13] A1
[51] **Int.Cl. A01H 5/10 (2018.01) C12Q 1/6827 (2018.01) C07K 14/415 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **POD SHATTER TOLERANCE IN BRASSICA PLANTS**
[54] **TOLERANCE A L'ECLATEMENT DE COSSE DANS DES PLANTES DE BRASSICA**
[72] ATWOOD, SARAH, US
[72] BRUGIERE, NORBERT, US
[72] FALAK, IGOR, US
[72] FENGLER, KEVIN A., US
[72] JETTY, SIVA S AMMIRAJU, US
[72] MYRVOLD, JONATHAN, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[85] 2021-12-07
[86] 2020-06-17 (PCT/US2020/038124)
[87] (WO2020/257273)
[30] US (62/863,551) 2019-06-19

[21] **3,142,951**
[13] A1
[51] **Int.Cl. G16H 20/70 (2018.01) G16H 40/60 (2018.01) G16H 50/20 (2018.01) G16H 50/30 (2018.01) G16H 80/00 (2018.01) A61B 5/00 (2006.01) A61P 1/00 (2006.01)**
[25] EN
[54] **ADAPTIVE INTERVENTIONS FOR GASTROINTESTINAL HEALTH CONDITIONS**
[54] **INTERVENTIONS ADAPTATIVES POUR DES AFFECTIONS MEDICALES GASTRO-INTESTINALES**
[72] OSER, MEGAN LEIGH, US
[72] PAULL, ROBERT BRADLEY, US
[72] LEVY, SIMON, US
[71] MAHANA THERAPEUTICS, INC., US
[85] 2021-12-07
[86] 2020-06-19 (PCT/US2020/038605)
[87] (WO2020/263694)

[21] **3,142,952**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) A61P 35/04 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **PDL1 POSITIVE NK CELL CANCER TREATMENT**
[54] **TRAITEMENT ANTICANCEREUX PAR CELLULES NK PD-L1 POSITIVES**
[72] YU, JIANHUA, US
[72] CALIGIURI, MICHAEL A., US
[72] DONG, WENJUAN, US
[71] CITY OF HOPE, US
[85] 2021-12-07
[86] 2020-06-24 (PCT/US2020/039449)
[87] (WO2020/264043)
[30] US (62/866,511) 2019-06-25

[21] **3,142,953**
[13] A1
[51] **Int.Cl. B01D 61/18 (2006.01) C01B 32/198 (2017.01) B01D 63/02 (2006.01) B01D 69/08 (2006.01) B01D 69/12 (2006.01) B01D 71/10 (2006.01) B01D 71/12 (2006.01) B01D 71/34 (2006.01) B01D 71/36 (2006.01) C02F 1/44 (2006.01)**
[25] EN
[54] **FILTRATION MEMBRANE AND METHOD OF PRODUCTION THEREOF**
[54] **MEMBRANE DE FILTRATION ET SON PROCEDE DE PRODUCTION**
[72] WEN, XINYUE, AU
[72] YOU, YI, AU
[72] JIN, XIAOHENG, AU
[72] BUSTAMANTE, HERIBERTO, AU
[72] JOSHI, RAKESH, AU
[71] NEWSOUTH INNOVATIONS PTY LIMITED, AU
[71] SYDNEY WATER CORPORATION, AU
[85] 2021-12-08
[86] 2020-06-11 (PCT/AU2020/050593)
[87] (WO2020/248017)
[30] AU (2019902045) 2019-06-12

[21] **3,142,954**
[13] A1
[51] **Int.Cl. C04B 16/02 (2006.01) B28C 5/40 (2006.01) C04B 28/02 (2006.01)**
[25] EN
[54] **CELLULOSE FIBRIL-ENHANCED REPAIR MORTARS**
[54] **MORTIERS DE REPARATION AMELIORES PAR FIBRILLES DE CELLULOSE**
[72] MINHAS, GURMINDER, CA
[72] GOURLAY, KEITH, CA
[72] ONUAGULUCHI, OBINNA, CA
[72] BANTHIA, NEMKUMAR, CA
[71] PERFORMANCE BIOFILAMENTS INC., CA
[85] 2021-12-08
[86] 2020-03-11 (PCT/CA2020/050379)
[87] (WO2021/012036)
[30] US (62/878,244) 2019-07-24

[21] **3,142,955**
[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01)**
[25] EN
[54] **CARTRIDGE FOR VAPOR-PHASE CANNABINOID REACTIONS WITHIN A DEVICE**
[54] **CARTOUCHE POUR REACTIONS DE CANNABINOIDES EN PHASE VAPEUR A L'INTERIEUR D'UN DISPOSITIF**
[72] ADAIR, CHRISTOPHER, CA
[72] GEILING, BEN, CA
[71] CANOPY GROWTH CORPORATION, CA
[85] 2021-12-08
[86] 2020-06-11 (PCT/CA2020/050802)
[87] (WO2020/248056)
[30] US (62/860,169) 2019-06-11

[21] **3,142,956**
[13] A1
[51] **Int.Cl. C07D 311/80 (2006.01) C07B 35/08 (2006.01)**
[25] EN
[54] **METHODS FOR PREPARING CANNABINOIDS BY HETEROGENEOUS-ACID-PROMOTED DOUBLE-BOND MIGRATION**
[54] **PROCEDES DE PREPARATION DE CANNABINOIDES PAR MIGRATION A DOUBLE LIAISON FAVORISEE PAR UN ACIDE HETEROGENE**
[72] ADAIR, CHRISTOPHER, CA
[72] GEILING, BEN, CA
[71] CANOPY GROWTH CORPORATION, CA
[85] 2021-12-08
[86] 2020-06-11 (PCT/CA2020/050803)
[87] (WO2020/248057)
[30] US (62/860,155) 2019-06-11

[21] **3,142,957**
[13] A1
[51] **Int.Cl. C07D 311/80 (2006.01) C07C 39/23 (2006.01)**
[25] EN
[54] **IMPROVED METHODS FOR CONVERTING CANNABIDIOL INTO DELTA8-TETRAHYDROCANNABINOL**
[54] **PROCEDES AMELIORES DE CONVERSION DE CANNABIDIOL EN DELTA 8-TETRAHYDROCANNABINOL**
[72] ADAIR, CHRISTOPHER, CA
[72] GEILING, BEN, CA
[72] HAGHDOOST MANJILI, MOHAMMADMEHDI, CA
[71] CANOPY GROWTH CORPORATION, CA
[85] 2021-12-08
[86] 2020-06-11 (PCT/CA2020/050804)
[87] (WO2020/248058)
[30] US (62/860,097) 2019-06-11

[21] **3,142,958**
[13] A1
[51] **Int.Cl. C22C 38/02 (2006.01) C21D 1/18 (2006.01) C22C 38/04 (2006.01)**
[25] EN
[54] **A METHOD OF HEAT TREATING A HIGH STRENGTH STEEL AND A PRODUCT OBTAINED THEREFROM**
[54] **PROCEDE DE TRAITEMENT THERMIQUE POUR ACIER A HAUTE RESISTANCE ET PRODUIT OBTENU A PARTIR DE CELUI-CI**
[72] YI, HONGLIANG, CN
[72] CHANG, ZHIYUAN, CN
[72] LIU, ZHAOYUAN, CN
[72] YANG, DAPENG, CN
[72] XIONG, XIAOCHUAN, CN
[71] IRONOVATION MATERIALS TECHNOLOGY CO., LTD., CN
[85] 2021-12-08
[86] 2019-10-18 (PCT/CN2019/111796)
[87] (WO2020/248459)
[30] CN (201910496707.9) 2019-06-10

[21] **3,142,959**
[13] A1
[51] **Int.Cl. A61G 3/06 (2006.01) B60P 1/43 (2006.01)**
[25] EN
[54] **RAMP ASSEMBLY WITH RAISED RAMP POSITION**
[54] **ENSEMBLE RAMPE A POSITION DE RAMPE SURELEVEE**
[72] SMITH, ADAM, US
[72] KLINE, JUSTIN M., US
[71] THE BRAUN CORPORATION, US
[85] 2021-12-07
[86] 2020-07-01 (PCT/US2020/040420)
[87] (WO2021/003216)
[30] US (62/870,089) 2019-07-03

[21] **3,142,960**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61K 9/08 (2006.01) A61K 31/426 (2006.01) A61P 35/00 (2006.01) C07D 277/56 (2006.01)**
[25] EN
[54] **A FORMULATION OF A CONJUGATE OF A TUBULYSIN ANALOG TO A CELL-BINDING MOLECULE**
[54] **FORMULATION D'UN CONJUGUE D'UN ANALOGUE DE TUBULYSINE A UNE MOLECULE DE LIAISON CELLULAIRE**
[72] ZHAO, ROBERT, US
[72] YANG, QINGLIANG, CN
[72] HUANG, YUANYUAN, CN
[72] GAI, SHUN, CN
[72] YE, HANGBO, CN
[72] ZHAO, LINYAO, CN
[72] GUO, HUIHUI, CN
[72] BAI, LU, CN
[72] LI, WENJUN, CN
[72] JIA, JUNXIANG, CN
[72] GUO, ZHIXIANG, CN
[72] ZHENG, JUN, CN
[72] CHEN, XIAOXIAO, CN
[72] KONG, XIANGFEI, CN
[72] LIN, CHEN, CN
[72] DU, YONG, CN
[72] ZHANG, YU, CN
[72] ZHOU, LEI, CN
[72] ZHANG, XIUZHEN, CN
[72] ZHENG, XIUHONG, CN
[72] CHEN, BINBIN, CN
[72] YANG, YANLEI, CN
[72] DAI, MENG, CN
[72] XU, YIFANG, CN
[72] FAN, ZHONGLIANG, CN
[72] ZHOU, XIAOMAI, CN
[72] JIANG, XINGYAN, CN
[72] CHEN, MIAOMIAO, CN
[72] ZHANG, LINGLI, CN
[72] LI, YANHUA, CN
[71] HANGZHOU DAC BIOTECH CO., LTD., CN
[85] 2021-12-08
[86] 2020-02-18 (PCT/CN2020/075709)
[87] (WO2020/258893)
[30] CN (PCT/CN2019/092614) 2019-06-24
[30] CN (PCT/CN2019/093946) 2019-06-29

[21] **3,142,961**
[13] A1
[51] **Int.Cl. E05F 15/635 (2015.01) E05F 15/662 (2015.01) B60J 5/06 (2006.01) F16H 19/04 (2006.01)**
[25] EN
[54] **MODIFIED DOOR OPERATION FOR A MOTORIZED VEHICLE**
[54] **FONCTIONNEMENT DE PORTE MODIFIE POUR UN VEHICULE MOTORISE**
[72] ZINDLER, MICHAEL T., US
[72] WOJDYLA, ADAM D., US
[72] BETTCHER III, ROBERT E., US
[72] STONER, JAMES, US
[72] BECK, JON, US
[71] THE BRAUN CORPORATION, US
[85] 2021-12-07
[86] 2020-07-01 (PCT/US2020/040426)
[87] (WO2021/003220)
[30] US (62/869,632) 2019-07-02

[21] **3,142,962**
[13] A1
[51] **Int.Cl. A23G 9/28 (2006.01)**
[25] EN
[54] **FITTING FOR EXTRUSION OF FROZEN FOOD PRODUCT**
[54] **ARMATURE POUR L'EXTRUSION D'UN PRODUIT ALIMENTAIRE CONGELE**
[72] MINARD, JAMES J., US
[72] MATZ, NATHAN A., US
[71] TAYLOR COMMERCIAL FOODSERVICE, LLC, US
[85] 2021-12-07
[86] 2020-07-06 (PCT/US2020/040861)
[87] (WO2021/007145)
[30] US (62/871,315) 2019-07-08

[21] **3,142,963**
[13] A1
[51] **Int.Cl. C07C 319/06 (2006.01) A61K 31/16 (2006.01) A61P 9/00 (2006.01) A61P 25/00 (2006.01) C07C 319/12 (2006.01) C07C 321/04 (2006.01)**
[25] EN
[54] **USE OF AMINOTHIOL COMPOUNDS AS CEREBRAL NERVE OR HEART PROTECTIVE AGENT**
[54] **UTILISATION DE COMPOSES AMINOTHIOL EN TANT QU'AGENTS DE PROTECTION DES NERFS CEREBRAUX OU DU COEUR**
[72] TIAN, HONGQI, CN
[72] LIU, YAHONG, CN
[71] SHANGHAI KECHOW PHARMA, INC., CN
[85] 2021-12-08
[86] 2020-06-13 (PCT/CN2020/095998)
[87] (WO2020/249120)
[30] CN (PCT/CN2019/091065) 2019-06-13

[21] **3,142,964**
[13] A1
[51] **Int.Cl. G10D 3/04 (2020.01) G10D 1/08 (2006.01)**
[25] EN
[54] **SADDLE AND BRIDGE FOR REDUCING LONGITUDINAL WAVES IN A STRING INSTRUMENT**
[54] **PONTET ET CHEVALET POUR REDUIRE LES ONDES LONGITUDINALES DANS UN INSTRUMENT A CORDES**
[72] POWERS, ANDREW TAYLOR, US
[71] TAYLOR-LISTUG, INC. D/B/A TAYLOR GUITARS, US
[85] 2021-12-07
[86] 2020-07-22 (PCT/US2020/043006)
[87] (WO2021/016313)

[21] **3,142,965**
[13] A1
[51] **Int.Cl. B60L 58/20 (2019.01) H02J 1/00 (2006.01) H02J 7/00 (2006.01) H02M 3/335 (2006.01)**
[25] EN
[54] **VEHICLE POWER SUPPLY SYSTEM, VEHICLE COMPRISING SUCH SYSTEM AND METHOD FOR RECHARGING A VEHICLE BATTERY**
[54] **SYSTEME D'ALIMENTATION ELECTRIQUE DE VEHICULE, VEHICULE COMPRENANT UN TEL SYSTEME ET PROCEDE DE RECHARGE D'UNE BATTERIE DE VEHICULE**
[72] WESTERLIND, HANS, SE
[72] NIEMCZYK, ROBERT, US
[72] ARTUR DU PLESSIS, GREGOIRE, FR
[72] BONNET, JEAN-DANIEL, US
[72] POTTS, BART, US
[72] SMITH, JOSHUA, US
[72] DE BRITO, DAVID, FR
[72] VALERO, MAXIME, FR
[71] VOLVO TRUCK CORPORATION, SE
[85] 2021-12-08
[86] 2019-06-26 (PCT/EP2019/067094)
[87] (WO2020/259835)

[21] **3,142,966**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **PROSTHETIC HEART VALVE HAVING AT LEAST TWO TYPES OF STRUTS**
[54] **VALVULE CARDIAQUE PROTHETIQUE AYANT AU MOINS DEUX TYPES D'ENTRETOISES**
[72] DVORSKY, ANATOLY, IL
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2021-12-07
[86] 2020-07-28 (PCT/US2020/043854)
[87] (WO2021/030044)
[30] US (62/886,281) 2019-08-13

[21] **3,142,967**
[13] A1
[51] **Int.Cl. A61K 38/09 (2006.01) A61K 9/19 (2006.01) A61K 31/185 (2006.01) F26B 5/06 (2006.01)**
[25] EN
[54] **A RECONSTITUTABLE TEVERELIX-TFA COMPOSITION**
[54] **COMPOSITION DE TEVERELIX-TFA RECONSTITUABLE**
[72] LARSEN, FINN, GB
[72] BOUTIGNON, FRANCOIS, FR
[72] POLAND, GUY, GB
[71] ANTEV LIMITED, GB
[85] 2021-12-08
[86] 2019-07-02 (PCT/EP2019/067718)
[87] (WO2020/007852)
[30] EP (18181931.9) 2018-07-05

[21] **3,142,968**
[13] A1
[51] **Int.Cl. A61M 25/02 (2006.01) A61M 25/01 (2006.01) A61M 25/10 (2013.01) G09B 9/00 (2006.01) G09B 23/28 (2006.01) A61M 25/04 (2006.01) A61M 25/09 (2006.01)**
[25] EN
[54] **CATHETER CLAMPING DEVICE**
[54] **DISPOSITIF DE SERRAGE DE CATHETER**
[72] WANG, JOHN X., US
[72] JANISH, BRYAN A., US
[72] THAN, ZOEY CANCILLA, US
[72] YOUNG, THADDEUS LEE, US
[72] RODGERS, KEMANI KWAME, US
[72] TRAN, LAWRENCE LUAN, US
[72] BARKS, ASHLEY KRYSTIN, US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2021-12-07
[86] 2020-07-30 (PCT/US2020/044207)
[87] (WO2021/030068)
[30] US (62/885,141) 2019-08-09

[21] **3,142,969**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **PROSTHETIC HEART VALVES**
[54] **VALVES CARDIAQUES PROTHETIQUES**
[72] NIR, NOAM, IL
[72] BUKIN, MICHAEL, IL
[72] YOHANAN, ZIV, IL
[72] LEVI, TAMIR S., IL
[72] SHERMAN, ELENA, IL
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2021-12-07
[86] 2020-08-10 (PCT/US2020/045577)
[87] (WO2021/030244)
[30] US (62/885,556) 2019-08-12

[21] **3,142,970**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01) A61B 90/20 (2016.01) A61B 90/50 (2016.01)**
[25] EN
[54] **HEART VALVE MANUFACTURING DEVICES AND METHODS**
[54] **DISPOSITIFS ET PROCEDES DE FABRICATION DE VALVES CARDIAQUES**
[72] ROBERTS, CLAY ADAM, US
[72] BACKER, STEVEN E., US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2021-12-07
[86] 2020-08-18 (PCT/US2020/046739)
[87] (WO2021/034794)
[30] US (62/888,986) 2019-08-19

[21] **3,142,971**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01)**
[25] EN
[54] **SYSTEMS FOR MONITORING FLUIDICS IN REAGENT CARTRIDGES AND RELATED METHODS**
[54] **SYSTEMES DE SURVEILLANCE DE FLUIDES DANS DES CARTOUCHES DE REACTIF ET PROCEDES ASSOCIES**
[72] COX-MURANAMI, WESLEY A., US
[72] MAR, CAMERON, US
[72] DELATTRE, CYRIL, US
[72] CRIVELLI, PAUL, US
[72] SHAH, KAMAL, US
[72] NORTON, KIRKPATRICK W., US
[71] ILLUMINA, INC., US
[85] 2021-12-07
[86] 2020-12-08 (PCT/US2020/063784)
[87] (WO2021/138002)
[30] US (62/955,160) 2019-12-30

[21] **3,142,972**
[13] A1
[51] **Int.Cl. A23K 10/14 (2016.01) A23K 10/30 (2016.01) A23K 50/00 (2016.01)**
[25] EN
[54] **NATURAL COMPOSITE MATERIALS DERIVED FROM SEAWEED AND METHODS OF MAKING THE SAME**
[54] **MATERIAUX COMPOSITES NATURELS DERIVES D'ALGUES MARINES ET LEURS PROCEDES DE FABRICATION**
[72] SUN, LIJUN, US
[71] HEALTHALL LABORATORY, INC., US
[85] 2021-12-07
[86] 2020-06-19 (PCT/US2020/070160)
[87] (WO2020/257825)
[30] US (62/865,051) 2019-06-21

[21] **3,142,973**
[13] A1
[51] **Int.Cl. A23K 10/14 (2016.01) A23K 10/30 (2016.01) A23K 50/00 (2016.01)**
[25] EN
[54] **NATURAL COMPOSITE MATERIALS DERIVED FROM SEAWEED AND METHODS OF MAKING THE SAME**
[54] **MATERIAUX COMPOSITES NATURELS DERIVES D'ALGUES ET LEURS PROCEDES DE FABRICATION**
[72] SUN, LIJUN, US
[71] HEALTHALL LABORATORY, INC., US
[85] 2021-12-07
[86] 2020-06-19 (PCT/US2020/070161)
[87] (WO2020/257826)
[30] US (62/865,061) 2019-06-21

[21] **3,142,974**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CANCER PROGNOSIS**
[54] **SYSTEME ET PROCEDE DE PRONOSTIC DE CANCER**
[72] GOLKARAM, MAHDI, US
[72] ZHANG, SHILE, US
[72] LIU, LI, US
[72] WISE, AARON, US
[72] YAO, JOYEE, US
[72] KAPLAN, SHANNON, US
[72] SO, ALEX, US
[72] SALMANS, MICHAEL, US
[72] VIJAYARAGHAVAN, RAAKHEE, US
[71] ILLUMINA, INC., US
[85] 2021-12-07
[86] 2021-02-10 (PCT/US2021/017472)
[87] (WO2021/163204)
[30] US (62/977,010) 2020-02-14

[21] **3,142,975**
[13] A1
[51] **Int.Cl. C07D 311/80 (2006.01) C07B 35/08 (2006.01) C07C 39/23 (2006.01)**
[25] EN
[54] **METHODS FOR PREPARING CANNABINOIDS BY BASE-PROMOTED DOUBLE-BOND MIGRATION**
[54] **PROCEDES DE PREPARATION DE CANNABINOIDES PAR MIGRATION A DOUBLE LIAISON ACTIVEE PAR LA BASE**
[72] ADAIR, CHRISTOPHER, CA
[72] GEILING, BEN, CA
[72] HAGHDOOST MANJILI, MOHAMMADMEHDI, CA
[71] CANOPY GROWTH CORPORATION, CA
[85] 2021-12-08
[86] 2020-06-11 (PCT/CA2020/050805)
[87] (WO2020/248059)
[30] US (62/860,172) 2019-06-11

[21] **3,142,976**
[13] A1
[51] **Int.Cl. C07D 311/80 (2006.01) C07C 39/23 (2006.01)**
[25] EN
[54] **IMPROVED METHODS FOR CONVERTING CANNABIDIOL INTO DELTA9-TETRAHYDROCANNABINOL UNDER PROTIC REACTION CONDITIONS**
[54] **PROCEDES AMELIORES DE CONVERSION DE CANNABIDIOL EN DELTA9-TETRAHYDROCANNABINOL DANS DES CONDITIONS DE REACTION PROTIQUES**
[72] ADAIR, CHRISTOPHER, CA
[72] GEILING, BEN, CA
[71] CANOPY GROWTH CORPORATION, CA
[85] 2021-12-08
[86] 2020-06-11 (PCT/CA2020/050806)
[87] (WO2020/248060)
[30] US (62/860,114) 2019-06-11

[21] **3,142,977**
[13] A1
[51] **Int.Cl. F24S 10/40 (2018.01) F24S 10/80 (2018.01) F24S 20/40 (2018.01) F24S 90/00 (2018.01)**
[25] FR
[54] **HYBRID SOLAR HIGH-EFFICIENCY THERMODYNAMIC DEVICE AND HYDROGEN-OXYGEN PAIR PRODUCING A PLURALITY OF ENERGIES**
[54] **DISPOSITIF THERMODYNAMIQUE HAUT RENDEMENT HYBRIDE SOLAIRE ET COUPLE HYDROGENE-OXYGENE PRODUISANT UNE PLURALITE D'ENERGIES**
[72] PARE, SYLVAIN, FR
[71] NEWS, FR
[85] 2021-12-08
[86] 2020-05-26 (PCT/FR2020/050881)
[87] (WO2020/249884)
[30] FR (1906298) 2019-06-13

[21] **3,142,979**
[13] A1
[51] **Int.Cl. H05K 1/02 (2006.01) H05K 7/14 (2006.01) H05K 9/00 (2006.01)**
[25] FR
[54] **REFERENCE ELECTRICAL POTENTIAL ASSEMBLY AND ATTACHMENT ASSEMBLY FOR PRINTED CIRCUIT**
[54] **ASSEMBLAGE DE FIXATION ET DE MISE AU POTENTIEL ELECTRIQUE DE REFERENCE POUR CIRCUIT IMPRIME**
[72] MOURIERAS, JULIEN, FR
[71] LATELEC, FR
[85] 2021-12-07
[86] 2020-06-08 (PCT/EP2020/025267)
[87] (WO2020/249257)
[30] FR (FR1906196) 2019-06-11

[21] **3,142,980**
[13] A1
[51] **Int.Cl. B01D 5/00 (2006.01) B01D 53/00 (2006.01) F25J 3/06 (2006.01)**
[25] EN
[54] **SEPARATING METHOD FOR ALTERNATIVE GAS MIXTURES FOR USE AS INSULATING MEDIA**
[54] **PROCEDE DE SEPARATION POUR DES MELANGES GAZEUX DE SUBSTITUTION POUR L'UTILISATION EN TANT QUE MILIEUX ISOLANTS**
[72] GLOMB, SEBASTIAN, DE
[72] GESTLE, MATHIAS, DE
[71] DILO ARMATUREN UND ANLAGEN GMBH, DE
[85] 2021-12-08
[86] 2020-05-18 (PCT/EP2020/063858)
[87] (WO2021/013403)
[30] DE (10 2019 119 741.4) 2019-07-22

[21] **3,142,981**
[13] A1
[51] **Int.Cl. A21D 8/04 (2006.01) A23L 33/00 (2016.01) A23L 33/135 (2016.01) A21D 8/00 (2006.01)**
[25] FR
[54] **CUTTABLE LIVE LEAVEN BLOCK**
[54] **BLOC DE LEVAIN VIVANT DECOUPABLE**
[72] BRYCKAERT, EMILIE, FR
[72] DELCHAMBRE, FLORENCE, FR
[72] SEMERIA, PAULINE, FR
[71] LESAFFRE ET COMPAGNIE, FR
[85] 2021-12-08
[86] 2020-06-13 (PCT/FR2020/051017)
[87] (WO2020/249917)
[30] FR (FR1906343) 2019-06-13

[21] **3,142,982**
[13] A1
[51] **Int.Cl. C07D 311/80 (2006.01) C07C 39/23 (2006.01)**
[25] EN
[54] **IMPROVED METHODS FOR CONVERTING CANNABIDIOL INTO DELTA9-TETRAHYDROCANNABINOL UNDER NEAT OR APROTIC REACTION CONDITIONS**
[54] **PROCEDES AMELIORES DE CONVERSION DE CANNABIDIOL EN DELTA9-TETRAHYDROCANNABINOL DANS DES CONDITIONS DE REACTION PURES OU APROTIQUES**
[72] ADAIR, CHRISTOPHER, CA
[72] GEILING, BEN, CA
[72] HAGHDOOST MANJILI, MOHAMMADMEHDI, CA
[71] CANOPY GROWTH CORPORATION, CA
[85] 2021-12-08
[86] 2020-06-11 (PCT/CA2020/050807)
[87] (WO2020/248061)
[30] US (62/860,130) 2019-06-11

[21] **3,142,983**
[13] A1
[51] **Int.Cl. C21D 1/09 (2006.01) B23K 26/082 (2014.01) B23K 26/352 (2014.01) B23K 26/00 (2014.01) B23K 26/06 (2014.01) C21D 1/34 (2006.01) C21D 1/38 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR HEATING USING AN ENERGY BEAM**
[54] **PROCEDE ET SYSTEME DE CHAUFFAGE AU MOYEN D'UN FAISCEAU D'ENERGIE**
[72] ALVAREZ, PIERA, ES
[72] GABILONDO, JOSE JUAN, ES
[71] ETXE-TAR, S.A., ES
[85] 2021-12-08
[86] 2020-05-28 (PCT/EP2020/064891)
[87] (WO2020/249404)
[30] EP (19382488.5) 2019-06-12

[21] **3,142,985**
[13] A1
[51] **Int.Cl. A23L 2/02 (2006.01) C12G 3/026 (2019.01) C12G 3/055 (2019.01) A23L 2/52 (2006.01) C12G 3/08 (2006.01)**
[25] EN
[54] **INFUSION OF EMULSIFIED HYDROPHOBIC ACTIVE INGREDIENTS INTO HIGH POLYPHENOLIC BEVERAGES**
[54] **INFUSION D'INGREDIENTS ACTIFS HYDROPHOBES EMULSIFIES DANS DES BOISSONS A HAUTE TENEUR EN POLYPHENOLS**
[72] HAN, CHUNXIAO, US
[71] VERTOSA INC., US
[85] 2021-12-07
[86] 2020-06-29 (PCT/US2020/040107)
[87] (WO2021/003091)
[30] US (62/870,228) 2019-07-03

[21] **3,142,987**
[13] A1
[51] **Int.Cl. A61N 5/10 (2006.01) G21F 1/08 (2006.01)**
[25] EN
[54] **RADIATION SHIELDS FOR BRACHYTHERAPY**
[54] **BLINDAGES ANTI-RAYONNEMENT POUR CURIETHERAPIE**
[72] ENGER, SHIRIN A., CA
[72] MORCOS, MARC, US
[72] FAMULARI, GABRIEL, CA
[72] SHOEMAKER, TRISTAN, US
[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING/MCGILL UNIVERSITY, CA
[85] 2021-12-08
[86] 2020-06-12 (PCT/CA2020/050821)
[87] (WO2020/248073)
[30] US (62/861,052) 2019-06-13

[21] **3,142,988**
[13] A1
[51] **Int.Cl. H01F 1/34 (2006.01) H01P 1/215 (2006.01) H01P 1/23 (2006.01) H01P 5/02 (2006.01) H03G 11/00 (2006.01) H01F 7/02 (2006.01)**
[25] EN
[54] **VERTICALLY MEANDERED FREQUENCY SELECTIVE LIMITER**
[54] **LIMITEUR SELECTIF DE FREQUENCE A MEANDRES VERTICAL**
[72] MORTON, MATTHEW A., US
[72] SORIC, JASON C., US
[72] SOLLNER, GERHARD, US
[71] RAYTHEON COMPANY, US
[85] 2021-12-07
[86] 2020-06-25 (PCT/US2020/039700)
[87] (WO2021/025802)
[30] US (16/530,056) 2019-08-02

[21] **3,142,989**
[13] A1
[51] **Int.Cl. A24F 40/465 (2020.01) A24F 40/42 (2020.01)**
[25] EN
[54] **AN AEROSOL GENERATING SYSTEM, AN AEROSOL GENERATING DEVICE AND AN AEROSOL GENERATING ARTICLE**
[54] **SYSTEME DE GENERATION D'AEROSOL, DISPOSITIF DE GENERATION D'AEROSOL ET ARTICLE DE GENERATION D'AEROSOL**
[72] GILL, MARK, GB
[71] JT INTERNATIONAL SA, CH
[85] 2021-12-08
[86] 2020-06-10 (PCT/EP2020/066148)
[87] (WO2020/249648)
[30] EP (19179942.8) 2019-06-13

[21] **3,142,990**
[13] A1
[51] **Int.Cl. A01N 33/12 (2006.01) A01N 59/26 (2006.01) A01P 3/00 (2006.01)**
[25] EN
[54] **SYNERGISTICALLY EFFECTIVE FUNGICIDE COMPOSITION COMPRISING CHOLINE PHOSPHONATE AND AT LEAST ONE ADDITIONAL FUNGICIDE**
[54] **COMPOSITION FONGICIDE A EFFET SYNERGIQUE COMPRENANT DU PHOSPHONATE DE CHOLINE ET AU MOINS UN FONGICIDE SUPPLEMENTAIRE**
[72] DE SAEGHER, JOHAN, BE
[72] RUELENS, PAUL, BE
[72] CAUCHY, PATRICE, BE
[71] BELCHIM CROP PROTECTION NV, BE
[85] 2021-12-08
[86] 2020-06-12 (PCT/EP2020/066310)
[87] (WO2020/249733)
[30] EP (19180366.7) 2019-06-14

[21] **3,142,993**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61K 31/519 (2006.01) A61P 11/00 (2006.01)**
[25] EN
[54] **PYRIDYL OR PYRIMIDYL MTOR KINASE INHIBITORS**
[54] **INHIBITEURS DE KINASE MTOR DE PYRIDYLE OU DE PYRIMIDYLE**
[72] BERTRAND, SOPHIE MARIE, GB
[72] HOBBS, HEATHER, GB
[72] NICOLLE, SIMON MARC, GB
[72] PAL, SANDEEP, GB
[72] PEACE, SIMON, GB
[72] PUENTE-FELIPE, MARGARITA, ES
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB
[85] 2021-12-08
[86] 2020-06-11 (PCT/EP2020/066155)
[87] (WO2020/249652)
[30] GB (1908536.4) 2019-06-13

[21] **3,142,996**
[13] A1
[51] **Int.Cl. A61K 31/437 (2006.01) A61P 25/00 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **SUBSTITUTED PYRAZOLO-PYRIDINE AMIDES AND THEIR USE AS GLUN2B RECEPTOR MODULATORS**
[54] **PYRAZOLO-PYRIDINE AMIDES SUBSTITUES ET LEUR UTILISATION EN TANT QUE MODULATEURS DU RECEPTEUR GLUN2B**
[72] HISCOX, AFTON, CA
[72] SOYODE-JOHNSON, AKINOLA, US
[72] STENNE, BRICE, US
[72] CHROVIAN, CHRISTA, US
[72] GELIN, CHRISTINE, US
[72] SAMANT, ANDREW, US
[72] LETAVIC, MICHAEL A., US
[72] DVORAK, CURT, US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2021-12-08
[86] 2020-06-12 (PCT/EP2020/066392)
[87] (WO2020/249792)
[30] US (62/861,656) 2019-06-14
[30] PK (350/2020) 2020-06-03
[30] AR (P20200101623) 2020-06-09

[21] **3,142,997**
[13] A1
[51] **Int.Cl. A23L 2/60 (2006.01) A23L 27/00 (2016.01) A23L 27/10 (2016.01) A23L 33/105 (2016.01) A23L 33/21 (2016.01)**
[25] EN
[54] **BOTANICAL SUGAR SUBSTITUTE**
[54] **SUCCEDANE DE SUCRE BOTANIQUE**
[72] BENESH, YOEL, IL
[72] DE PICCIOTTO, GIL, IL
[71] B.T. SWEET LTD, IL
[85] 2021-12-08
[86] 2020-06-10 (PCT/IL2020/050643)
[87] (WO2020/250224)
[30] US (62/859,745) 2019-06-11

[21] **3,142,998**
[13] A1
[51] **Int.Cl. A61K 31/498 (2006.01) A61P 25/00 (2006.01) A61P 31/00 (2006.01) C07D 413/06 (2006.01)**
[25] EN
[54] **PYRAZINE CARBAMATES AND THEIR USE AS GLUN2B RECEPTOR MODULATORS**
[54] **CARBAMATES DE PYRAZINE ET LEUR UTILISATION EN TANT QUE MODULATEURS DU RECEPTEUR GLUN2B**
[72] GELIN, CHRISTINE, US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2021-12-08
[86] 2020-06-12 (PCT/EP2020/066396)
[87] (WO2020/249796)
[30] US (62/861,642) 2019-06-14

[21] **3,143,000**
[13] A1
[51] **Int.Cl. C08L 75/04 (2006.01)**
[25] EN
[54] **POLYURETHANE COMPOSITION FOR THE MANUFACTURE OF FLOORS, ESPECIALLY FOR MARINE APPLICATIONS**
[54] **COMPOSITION DE POLYURETHANE POUR LA FABRICATION DE SOLS, EN PARTICULIER POUR DES APPLICATIONS MARINES**
[72] RAS, MARCEL, NL
[72] BORKENT, RONALD, NL
[72] NETTEKOVEN, OSCAR, NL
[71] SIKA TECHNOLOGY AG, CH
[85] 2021-12-08
[86] 2020-06-16 (PCT/EP2020/066635)
[87] (WO2020/260072)
[30] EP (19181957.2) 2019-06-24

[21] **3,143,001**
[13] A1
[51] **Int.Cl. G01N 29/04 (2006.01) G01N 29/265 (2006.01)**
[25] EN
[54] **DEVICE FOR INSPECTING WEDGE LOOSENESS OF ROTARY ELECTRIC MACHINE, SYSTEM FOR INSPECTING WEDGE LOOSENESS OF ROTARY ELECTRIC MACHINE, AND METHOD FOR INSPECTING WEDGE LOOSENESS OF RO TARY ELECTRIC MACHINE**
[54] **DISPOSITIF D'INSPECTION DE RELACHEMENT DE COIN D'UNE MACHINE ELECTRIQUE ROTATIVE, SYSTEME D'INSPECTION DE RELACHEMENT DE COIN D'UNE MACHINE ELECTRIQUE ROTATIVE ET PROCEDE D'INSPEC TION DE RELACHEMENT DE COIN D'UNE MACHINE ELECTRIQUE ROTATIVE**
[72] YANO, KOTA, JP
[72] YONEKURA, KOJI, JP
[72] KADOTA, NAOYA, JP
[72] DINH, DUYANH, JP
[71] MITSUBISHI ELECTRIC CORPORATION, JP
[85] 2021-12-08
[86] 2019-06-14 (PCT/JP2019/023703)
[87] (WO2020/250431)

[21] **3,143,003**
[13] A1
[51] **Int.Cl. C09K 5/10 (2006.01)**
[25] EN
[54] **SILICATE BASED HEAT TRANSFER FLUID, METHODS OF ITS PREPARATIONS AND USES THEREOF**
[54] **FLUIDE CALOPORTEUR A BASE DE SILICATE, PROCEDES DE PREPARATION ASSOCIES ET SES UTILISATIONS**
[72] CLAEYS, SANDRA, BE
[72] LIEVENS, SERGE, BE
[71] ARTECO N.V., BE
[85] 2021-12-08
[86] 2020-06-18 (PCT/EP2020/067008)
[87] (WO2020/254517)
[30] EP (19181336.9) 2019-06-19

[21] **3,143,004**
[13] A1
[51] **Int.Cl. B29B 17/04 (2006.01) B29C 48/00 (2019.01) B02C 7/02 (2006.01) B02C 18/00 (2006.01) B29C 31/04 (2006.01)**
[25] EN
[54] **METHOD FOR GRINDING PLASTIC WASTE AND METHOD FOR MANUFACUTRING SYNTHETIC RESIN MOLDED PRODUCT USING PLASTIC WASTE**
[54] **PROCEDE DE BROYAGE DE DECHETS PLASTIQUES ET PROCEDE DE FABRICATION DE PRODUIT MOULE EN RESINE SYNTHETIQUE UTILISANT DES DECHETS PLASTIQUES**
[72] KAMITE, MASAYUKI, JP
[71] TECHNIQUE CO., LTD., JP
[85] 2021-12-08
[86] 2019-07-12 (PCT/JP2019/027802)
[87] (WO2021/009815)

[21] **3,143,005**
[13] A1
[51] **Int.Cl. C08G 18/18 (2006.01) C08G 18/40 (2006.01) C08G 18/48 (2006.01) C08G 18/63 (2006.01) C08G 18/76 (2006.01)**
[25] EN
[54] **PROCESS FOR MAKING A FLEXIBLE POLYURETHANE FOAM HAVING A HARDNESS GRADIENT**
[54] **PROCEDE DE FABRICATION D'UNE MOUSSE DE POLYURETHANE SOUPLE AYANT UN GRADIENT DE DURETE**
[72] BRENNAN, MARK JOSEPH, BE
[72] HUANG, VINCENT CHINGCHUNG, CN
[72] TIAN, GEORGE ZHICHENG, CN
[72] VEYS, ALAIN GERMAIN MARC, DE
[72] UNVERDORBEN, MARIO, DE
[71] HUNTSMAN INTERNATIONAL LLC, US
[85] 2021-12-08
[86] 2020-06-19 (PCT/EP2020/067062)
[87] (WO2020/260145)
[30] EP (19182576.9) 2019-06-26

[21] **3,143,009**
[13] A1
[51] **Int.Cl. B23K 26/70 (2014.01) B23K 26/00 (2014.01) B23K 26/16 (2006.01) G01J 1/04 (2006.01)**
[25] EN
[54] **HOUSING AND HANDLING METHOD FOR PROCESSING DEVICE**
[54] **BOITIER ET PROCEDE DE MANIPULATION POUR DISPOSITIF DE TRAITEMENT**
[72] WAKISAKA TAISEI, JP
[72] SHIGEHARA YOSHINAO, JP
[72] HIRAYAMA KATSUHIRO, JP
[72] SHIONO YUKIO, JP
[71] HONDA MOTOR CO., LTD., JP
[85] 2021-12-08
[86] 2020-06-02 (PCT/JP2020/021819)
[87] (WO2020/250755)
[30] JP (2019-108436) 2019-06-11

[21] **3,143,013**
[13] A1
[51] **Int.Cl. B23K 35/368 (2006.01) B23K 35/30 (2006.01)**
[25] EN
[54] **FLUX-CORED WIRE FOR AR-CO2 MIXED GAS**
[54] **FIL FOURRE DESTINE A UN GAZ MIXTE AR-CO2**
[72] KON, SATOSHI, JP
[72] SAWAGUCHI, NAOYA, JP
[71] KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.), JP
[85] 2021-12-08
[86] 2020-06-24 (PCT/JP2020/024816)
[87] (WO2021/006040)
[30] JP (2019-127697) 2019-07-09

[21] **3,143,015**
[13] A1
[51] **Int.Cl. C08J 5/24 (2006.01) C08K 5/41 (2006.01) C08K 7/06 (2006.01) C08L 63/00 (2006.01) C08L 101/00 (2006.01)**
[25] EN
[54] **PREPREG AND FIBER-REINFORCED COMPOSITE MATERIAL**
[54] **PREIMPREGNE ET MATERIAU COMPOSITE RENFORCE DE FIBRES**
[72] KOCHI, SHINJI, JP
[72] KIDO, DAISUKE, JP
[72] KOMORIYA, AYA, JP
[71] TORAY INDUSTRIES, INC., JP
[85] 2021-12-08
[86] 2020-06-30 (PCT/JP2020/025662)
[87] (WO2021/006114)
[30] JP (2019-125901) 2019-07-05

[21] **3,143,018**
[13] A1
[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/14 (2006.01)**
[25] EN
[54] **AMMONIA DETECTION IN DIALYSIS SYSTEMS**
[54] **DETECTION D'AMMONIAC DANS DES SYSTEMES DE DIALYSE**
[72] MALLIPALLI, HARSHAVARDHANA REDDY, US
[72] JAMES, PHILIP SCOTT, US
[72] ZIMBRA, ETHAN LEE, US
[72] ADAMS, KERISSA, US
[72] DAYTON, TROY, US
[72] MOSS, JON F., US
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2021-12-08
[86] 2020-06-11 (PCT/US2020/037260)
[87] (WO2020/263585)
[30] US (16/455,276) 2019-06-27

[21] **3,143,020**
[13] A1
[51] **Int.Cl. G06F 9/451 (2018.01) G06F 16/332 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR COMMUNICATION SYSTEM INTENT ANALYSIS**
[54] **SYSTEMES ET PROCEDES POUR L'ANALYSE D'INTENTIONS D'UN SYSTEME DE COMMUNICATION**
[72] DUNN, MATTHEW, US
[72] BRADLEY, JOE, US
[72] ONU, LAURA, US
[71] LIVEPERSON, INC., US
[85] 2021-12-08
[86] 2020-06-11 (PCT/US2020/037264)
[87] (WO2020/252183)
[30] US (62/860,520) 2019-06-12

[21] **3,143,021**
[13] A1
[51] **Int.Cl. C08L 97/00 (2006.01)**
[25] EN
[54] **DEGRADABLE EXTRUDED NETTING MADE FROM POLYMER BLEND COMPOSITIONS**
[54] **FILET EXTRUDE DEGRADABLE REALISE A PARTIR DE COMPOSITIONS DE MELANGE DE POLYMERES**
[72] KIRK, JEFFREY DAVID, US
[71] SWM LUXEMBOURG, LU
[85] 2021-12-08
[86] 2020-06-12 (PCT/US2020/037388)
[87] (WO2020/252233)
[30] US (62/860,931) 2019-06-13

[21] **3,143,024**
[13] A1
[51] **Int.Cl. C07K 1/16 (2006.01) C07K 1/22 (2006.01) C07K 16/00 (2006.01)**
[25] EN
[54] **METHODS FOR REMOVING UNDESIRED COMPONENTS DURING MULTISTAGE CHROMATOGRAPHIC PROCESSES**
[54] **PROCEDES D'ELIMINATION DE COMPOSANTS INDESIRABLES PENDANT DES PROCESSUS CHROMATOGRAPHIQUES EN PLUSIEURS ETAPES**
[72] TRAN, TRAVIS, US
[72] TUSTIAN, ANDREW, US
[72] CHIBOROSKI, MARK, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2021-12-08
[86] 2020-06-12 (PCT/US2020/037433)
[87] (WO2020/252260)
[30] US (62/860,980) 2019-06-13

[21] **3,143,026**
[13] A1
[51] **Int.Cl. A61B 5/1455 (2006.01) A61B 5/145 (2006.01) G01J 3/12 (2006.01) G01N 21/47 (2006.01) G01N 33/49 (2006.01) G02B 5/02 (2006.01)**
[25] EN
[54] **SYSTEM FOR NON-INVASIVE MEASUREMENT OF AN ANALYTE IN A VEHICLE DRIVER**
[54] **SYSTEME DE MESURE NON INVASIVE D'UN ANALYTE CHEZ UN CONDUCTEUR DE VEHICULE**
[72] KOETH, JOHANNES, DE
[72] KOSLOWSKI, NICOLAS, DE
[71] AUTOMOTIVE COALITION FOR TRAFFIC SAFETY, INC., US
[85] 2021-12-08
[86] 2020-06-12 (PCT/US2020/037455)
[87] (WO2020/252276)
[30] US (62/860,413) 2019-06-12

[21] **3,143,027**
[13] A1
[51] **Int.Cl. C07K 14/44 (2006.01) C07K 16/20 (2006.01) G01N 33/569 (2006.01)**
[25] EN
[54] **NOVEL SECRETED ANTIGENS FOR DIAGNOSIS OF ACTIVE BABESIA MICROTI AND BABESIA DUNCANI INFECTION IN HUMANS AND ANIMALS**
[54] **NOUVEAUX ANTIGENES SECRETES POUR LE DIAGNOSTIC D'UNE INFECTION ACTIVE PAR BABESIA MICROTI ET BABESIA DUNCANI CHEZ L'HOMME ET L'ANIMAL**
[72] BEN MAMOUN, CHOUKRI, US
[71] YALE UNIVERSITY, US
[85] 2021-12-08
[86] 2020-06-12 (PCT/US2020/037500)
[87] (WO2020/252313)
[30] US (62/860,662) 2019-06-12
[30] US (62/937,645) 2019-11-19

[21] **3,143,030**
[13] A1
[51] **Int.Cl. A61K 41/00 (2020.01) A61N 5/06 (2006.01)**
[25] EN
[54] **METHODS OF TREATING CANCER BY TARGETING COLD TUMORS**
[54] **METHODES DE TRAITEMENT DU CANCER PAR CIBLAGE DE TUMEURS FROIDES**
[72] FOX, BRIAN, US
[72] ARONCHIK, IDA, US
[72] CHOW, TRACY, US
[72] FILVAROFF, ELLEN, US
[71] CELGENE CORPORATION, US
[85] 2021-12-08
[86] 2020-06-12 (PCT/US2020/037521)
[87] (WO2020/252331)
[30] US (62/861,094) 2019-06-13

[21] **3,143,031**
[13] A1
[51] **Int.Cl. A24F 23/04 (2006.01) A24C 5/02 (2006.01) A24C 5/40 (2006.01) A24C 5/42 (2006.01) A24F 15/00 (2020.01) A24F 15/02 (2006.01) A24F 17/00 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR STORING AND SUPPORTING A SMOKABLE SLEEVE**
[54] **DISPOSITIF ET PROCEDE DE STOCKAGE ET DE SUPPORT D'UN MANCHON A FUMER**
[72] AHMED, KAZI KASED LATIF, CA
[72] PATEL, RUSHABH, US
[72] SAAD, SAMEH, CA
[71] AIRE BRANDS LLC, US
[85] 2021-12-08
[86] 2020-06-12 (PCT/US2020/037531)
[87] (WO2020/252338)
[30] US (62/862,003) 2019-06-14

[21] **3,143,033**
[13] A1
[51] **Int.Cl. G06T 11/00 (2006.01) G06T 19/00 (2011.01)**
[25] EN
[54] **DATA SERIALIZATION EXTRUSION FOR CONVERTING TWO-DIMENSIONAL IMAGES TO THREE-DIMENSIONAL GEOMETRY**
[54] **EXTRUSION DE SERIALISATION DE DONNEES POUR CONVERTIR DES IMAGES BIDIMENSIONNELLES EN GEOMETRIE TRIDIMENSIONNELLE**
[72] BARKER, JEREMIAH TIMBERLINE, US
[71] BOOM INTERACTIVE INC., US
[85] 2021-12-08
[86] 2020-06-12 (PCT/US2020/037548)
[87] (WO2020/252352)
[30] US (62/860,461) 2019-06-12

[21] **3,143,034**
[13] A1
[51] **Int.Cl. C07K 14/55 (2006.01) A61K 38/20 (2006.01) C07K 14/715 (2006.01)**
[25] EN
[54] **NOVEL INTERLEUKIN-2 VARIANTS FOR THE TREATMENT OF CANCER**
[54] **NOUVEAUX VARIANTS D'INTERLEUKINES-2 POUR LE TRAITEMENT DU CANCER**
[72] LI, YUE-SHENG, US
[72] RUI, LINGYUN, US
[72] XU, JING, US
[71] CUGENE INC., US
[85] 2021-12-08
[86] 2020-06-13 (PCT/US2020/037644)
[87] (WO2020/252418)
[30] US (62/861,651) 2019-06-14
[30] US (62/947,806) 2019-12-13

[21] **3,143,036**
[13] A1
[51] **Int.Cl. A61K 35/744 (2015.01) A61K 35/745 (2015.01) A61K 35/74 (2015.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **SECRETED MICROBIAL EXTRACELLULAR VESICLES**
[54] **VESICULES EXTRACELLULAIRES MICROBIENNES SECRETEES**
[72] BALLOK, ALICIA, US
[72] BODMER, MARK, US
[72] BOSE, BAUNDAUNA, US
[72] CARLTON, SOFIA M.R., US
[72] CORMACK, TAYLOR A., US
[72] DAVITT, CHRISTOPHER J. H., US
[72] FRANCISCO-ANDERSON, LOISE, US
[72] GOODMAN, BRIAN, US
[72] ITANO, ANDREA, US
[72] OKAN, NIHAL, US
[72] PONICHTERA, HOLLY, US
[72] TROY, ERIN B., US
[72] ROMANO-CHERNAC, FABIAN B., US
[72] SIZOVA, MARIA, US
[71] EVELO BIOSCIENCES, INC., US
[85] 2021-12-08
[86] 2020-06-11 (PCT/US2020/037201)
[87] (WO2020/252144)
[30] US (62/860,029) 2019-06-11
[30] US (62/860,049) 2019-06-11
[30] US (62/979,545) 2020-02-21
[30] US (62/991,767) 2020-03-19

[21] **3,143,038**
[13] A1
[51] **Int.Cl. A61K 38/20 (2006.01) C07H 21/04 (2006.01) C12P 21/04 (2006.01) G01N 33/53 (2006.01) G01N 33/567 (2006.01)**
[25] EN
[54] **NOVEL INTERLEUKIN-2 VARIANTS AND BIFUNCTIONAL FUSION MOLECULES THEREOF**
[54] **NOUVEAUX VARIANTS D'INTERLEUKINE-2 ET LEURS MOLECULES DE FUSION BIFONCTIONNELLES**
[72] LI, YUE-SHENG, US
[72] RUI, LINGYUN, US
[72] XU, JING, US
[71] CUGENE INC., US
[85] 2021-12-08
[86] 2020-06-13 (PCT/US2020/037648)
[87] (WO2020/252421)
[30] US (62/861,484) 2019-06-14

[21] **3,143,039**
[13] A1
[51] **Int.Cl. A61K 47/64 (2017.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) G01N 33/563 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **CONDITIONALLY ACTIVE ANTI-EPCAM ANTIBODIES, ANTIBODY FRAGMENTS, THEIR IMMUNOCONJUGATES AND USES THEREOF**
[54] **ANTICORPS ANTI-EPCAM CONDITIONNELLEMENT ACTIFS, FRAGMENTS D'ANTICORPS, LEURS IMMUNOCONJUGUES ET UTILISATIONS ASSOCIEES**
[72] SHORT, JAY M., US
[72] FREY, GERHARD, US
[72] CHANG, HWAI WEN, US
[71] BIOATLA, INC., US
[85] 2021-12-08
[86] 2020-06-10 (PCT/US2020/037096)
[87] (WO2020/252095)
[30] US (62/860,092) 2019-06-11

[21] **3,143,040**
[13] A1
[51] **Int.Cl. G06F 16/182 (2019.01)**
[25] EN
[54] **DISTRIBUTED GLOBAL OBJECT STORAGE**
[54] **STOCKAGE OBJET GLOBAL DISTRIBUE**
[72] KASI, KISHORE, US
[72] PAPAPANAGIOTOU, IOANNIS, US
[72] MADAPPA, SHASHI SHEKAR, US
[72] ENUGULA, SRIDHAR, US
[72] JAYARAMAN, DEVA, US
[72] YELEVICH, VICTOR, US
[72] CHEN, SHUNFEI, US
[72] GINTER, CHRISTOPHER, US
[72] JOHANSSON, OLOF, US
[72] BIRARI, SHAILESH, US
[71] NETFLIX, INC., US
[85] 2021-12-08
[86] 2020-06-15 (PCT/US2020/037818)
[87] (WO2020/257129)
[30] US (62/862,608) 2019-06-17
[30] US (16/820,536) 2020-03-16

[21] **3,143,041**
[13] A1
[51] **Int.Cl. G06F 9/451 (2018.01) G06F 9/46 (2006.01) G06F 9/54 (2006.01) G06Q 40/00 (2012.01)**
[25] EN
[54] **ACCOUNTING PLATFORM FUNCTIONALITIES**
[54] **FONCTIONNALITES DE PLATEFORME DE COMPTABILITE**
[72] BAKER, STANFORD C., US
[72] KNEDLIK, DAVID L., US
[72] ABESAMIS, JOSEPH BRANDON, US
[72] ADAMS, TYLER, US
[71] FORD SQUARED TECHNOLOGIES LLC., US
[85] 2021-12-08
[86] 2020-06-10 (PCT/US2020/037070)
[87] (WO2020/252073)
[30] US (62/859,969) 2019-06-11

[21] **3,143,042**
[13] A1
[51] **Int.Cl. A61K 31/165 (2006.01) C07C 233/17 (2006.01)**
[25] EN
[54] **CAPSAICIN AND TRPV1 MODULATOR COMBINATIONS AND METHODS OF USE THEREOF**
[54] **COMBINAISONS DE CAPSAICINE ET DE MODULATEURS DE TRPV1 ET LEURS PROCEDES D'UTILISATION**
[72] FIENI, FRANCESCA, US
[71] PANO THERAPEUTICS, INC., US
[85] 2021-12-08
[86] 2020-06-10 (PCT/US2020/037029)
[87] (WO2020/252046)
[30] US (62/860,183) 2019-06-11

[21] **3,143,043**
[13] A1
[51] **Int.Cl. A61K 31/5383 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 498/22 (2006.01)**
[25] EN
[54] **POLYMORPHS OF A MACROCYCLIC KINASE INHIBITOR**
[54] **POLYMORPHES D'UN INHIBITEUR DE KINASES MACROCYCLIQUES**
[72] DENG, WEI, US
[72] ROGERS, EVAN W., US
[72] LU, YUELIE, US
[72] ZHANG, HAN, US
[72] LIU, JING, US
[71] TURNING POINT THERAPEUTICS, INC., US
[85] 2021-12-08
[86] 2020-06-16 (PCT/US2020/037892)
[87] (WO2020/257169)
[30] US (62/863,493) 2019-06-19
[30] US (62/959,940) 2020-01-11
[30] US (63/036,102) 2020-06-08

[21] **3,143,045**
[13] A1
[51] **Int.Cl. F16C 7/00 (2006.01) F16C 9/04 (2006.01)**
[25] EN
[54] **ROD END MADE OF THERMOPLASTIC FIBER-REINFORCED PLASTIC**
[54] **EXTREMITE DE TIGE REALISEE EN MATIERE PLASTIQUE THERMOPLASTIQUE RENFORCEE PAR DES FIBRES**
[72] FUNCK, RALPH, DE
[72] SCHIMMELPFENNIG, VOLKER, DE
[71] ALBANY ENGINEERED COMPOSITES, INC., US
[85] 2021-12-08
[86] 2020-06-22 (PCT/US2020/038945)
[87] (WO2020/263743)
[30] DE (10 2019 004 341.3) 2019-06-23

[21] **3,143,047**
[13] A1
[51] **Int.Cl. C07H 1/06 (2006.01) C07H 21/00 (2006.01)**
[25] EN
[54] **PURIFICATION METHODS FOR CARBOHYDRATE-LINKED OLIGONUCLEOTIDES**
[54] **PROCEDES DE PURIFICATION D'OLIGONUCLEOTIDES LIES A DES GLUCIDES**
[72] KAZARIAN, ARTACHES, US
[72] BARNHART, WESLEY, US
[71] AMGEN INC., US
[85] 2021-12-08
[86] 2020-06-24 (PCT/US2020/039462)
[87] (WO2020/264055)
[30] US (62/866,515) 2019-06-25

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,141,731**
[13] A1
[25] EN
[54] **METHODS AND MATERIALS FOR HEMATOENDOTHELIAL DIFFERENTIATION OF HUMAN PLURIPOTENT STEM CELLS UNDER DEFINED CONDITIONS**
[54] **METHODES ET MATERIAUX POUR LA DIFFERENCIATION DE CELLULES SOUCHES PLURIPOTENTES HUMAINES EN CELLULES ENDOTHELIALES ET HEMATOPOIETIQUES DANS DES CONDITIONS DEFINIES**
[72] SLUKVIN, IGOR, US
[72] UENISHI, GENE ICHIRO, US
[71] WISCONSIN ALUMNI RESEARCH FOUNDATION, US
[22] 2014-03-12
[41] 2014-10-09
[62] 2,905,786
[30] US (61/779,564) 2013-03-13

[21] **3,141,754**
[13] A1
[25] EN
[54] **ENHANCING DIAGNOSIS OF DISORDER THROUGH ARTIFICIAL INTELLIGENCE AND MOBILE HEALTH TECHNOLOGIES WITHOUT COMPROMISING ACCURACY**
[54] **AMELIORATION DU DIAGNOSTIC D'UN TROUBLE PAR INTELLIGENCE ARTIFICIELLE ET TECHNOLOGIES MOBILES DE SOINS SANS COMPROMISSION DE LA PRECISION**
[72] WALL, BENNIS, US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[22] 2012-10-23
[41] 2013-05-02
[62] 2,857,069
[30] US (61/550,695) 2011-10-24
[30] US (61/567,572) 2011-12-06
[30] US (61/682,110) 2012-08-10

[21] **3,141,784**
[13] A1
[51] **Int.Cl. F16S 5/00 (2006.01) B64C 1/40 (2006.01) B64C 7/02 (2006.01) B64D 29/00 (2006.01) B64D 33/04 (2006.01) F01D 25/26 (2006.01) F01D 25/30 (2006.01) F16S 1/10 (2006.01)**
[25] EN
[54] **SANDWICH STRUCTURE WITH SHEAR STIFFNESS BETWEEN SKINS AND COMPLIANCE IN THE THICKNESS DIRECTION**
[54] **STRUCTURE SANDWICH AFFICHANT RIGIDITE AU CISAILLEMENT ENTRE LES COUCHES ET SOUPLESSE DANS LA DIRECTION DE L'EPAISSEUR**
[72] GRIP, ROBERT E., US
[72] BROWN, JOHN J., US
[71] THE BOEING COMPANY, US
[22] 2013-01-02
[41] 2013-09-05
[62] 3,077,733
[30] US (13/412,593) 2012-03-05

[21] **3,141,830**
[13] A1
[25] EN
[54] **FLOOR PANEL AND METHODS FOR MANUFACTURING FLOOR PANELS**
[54]
[72] MEERSSEMAN, LAURENT, BE
[72] SEGAERT, MARTIN, BE
[72] THIERS, BERNARD, BE
[72] CLEMENT, BENJAMIN, BE
[72] MAESEN, CHRISTOPHE, BE
[71] FLOORING INDUSTRIES LIMITED, SARL, LU
[22] 2011-04-28
[41] 2011-11-17
[62] 3,054,721
[30] BE (BE2010/0283) 2010-05-10

[21] **3,141,840**
[13] A1
[25] EN
[54] **DETERMINING DOWNHOLE PROPERTIES WITH SENSOR ARRAY**
[54]
[72] FRIPP, MICHAEL LINLEY, US
[72] FROSELL, THOMAS JULES, US
[72] BALASUBRAMANIAN, ASWIN, US
[72] HOLDERMAN, LUKE WILLIAM, US
[72] MARCUCCIO, SUZI MARIE, US
[72] BHAT, GIREESH, US
[72] BROWN, CLINT ADAM, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[22] 2018-02-12
[41] 2018-09-07
[62] 3,052,651
[30] US (62/467,026) 2017-03-03
[30] US (62/467,029) 2017-03-03
[30] US (62/467,019) 2017-03-03
[30] US (62/467,013) 2017-03-03

[21] **3,141,894**
[13] A1
[51] **Int.Cl. C01B 32/184 (2017.01) C01B 32/182 (2017.01)**
[25] EN
[54] **PLASMA PROCESSES FOR PRODUCING GRAPHENE NANOSHEETS**
[54] **PROCEDES AU PLASMA POUR LA PRODUCTION DE NANOFEUILLES DE GRAPHENE**
[72] KROEGER, JENS, CA
[72] LAROUCHE, NICHOLAS, CA
[72] LAROUCHE, FREDERIC, CA
[71] RAYMOR INDUSTRIES INC., CA
[22] 2017-12-20
[41] 2018-06-28
[62] 3,045,189
[30] US (62/437,057) 2016-12-21
[30] US (62/512,520) 2017-05-30

[21] **3,141,963**
[13] A1
[25] EN
[54] **METHODS AND SYSTEMS FOR DISPLAYING STEREOSCOPY WITH A FREEFORM OPTICAL SYSTEM WITH ADDRESSABLE FOCUS FOR VIRTUAL AND AUGMENTED REALITY**
[54] **PROCEDES ET SYSTEMES D'AFFICHAGE STEREOSCOPIQUE A L'AIDE D'UN SYSTEME OPTIQUE A STRUCTURE LIBRE DOTE D'UN FOYER ADRESSABLE POUR LA REALITE VIRTUELLE ET AUGMENTEE**
[72] GAO, CHUNYU, US
[71] MAGIC LEAP, INC., US
[22] 2015-05-29
[41] 2015-12-03
[62] 2,950,425
[30] US (62/005,865) 2014-05-30

---

[21] **3,142,288**
[13] A1
[25] EN
[54] **TECHNIQUES FOR PREDICTING, DETECTING AND REDUCING ASPECIFIC PROTEIN INTERFERENCE IN ASSAYS INVOLVING IMMUNOGLOBULIN SINGLE VARIABLE DOMAINS**
[54]
[72] BAUMEISTER, JUDITH, BE
[72] BOUCHE, MARIE-PAULE LUCIENNE ARMANDA, BE
[72] BOUTTON, CARLO, BE
[72] BUYSE, MARIE-ANGE, BE
[72] SNOECK, VEERLE, BE
[72] STAELENS, STEPHANIE, BE
[71] ABLYNX NV, BE
[22] 2012-06-25
[41] 2012-12-27
[62] 2,837,998
[30] US (61/500,464) 2011-06-23
[30] US (61/500,360) 2011-06-23
[30] US (61/541,368) 2011-09-30
[30] EP (PCT/EP2011/067132) 2011-09-30
[30] US (13/435,567) 2012-03-30
[30] EP (PCT/EP2012/061304) 2012-06-14

---

[21] **3,142,597**
[13] A1
[51] **Int.Cl. G09F 7/18 (2006.01) G09F 9/30 (2006.01) G09F 21/04 (2006.01)**
[25] EN
[54] **ROOF MOUNTING APPARATUS AND SYSTEM FOR VEHICLE TOPPER**
[54] **APPAREIL ET SYSTEME DE MONTAGE DE TOIT POUR UN SURMONTOIR DE VEHICULE**
[72] HORNSBY, ERIC, US
[72] DUNN, WILLIAM, US
[72] BROWN, MIKE, US
[72] BENNETT, DOUG, US
[71] MANUFACTURING RESOURCES INTERNATIONAL, INC., US
[22] 2018-03-23
[41] 2018-09-27
[62] 3,057,321
[30] US (62/476,385) 2017-03-24
[30] US (62/571,631) 2017-10-12

---

[21] **3,142,814**
[13] A1
[25] EN
[54] **METHOD AND SYSTEM FOR DETECTING AND MONITORING EMISSIONS**
[54] **PROCEDE ET SYSTEME DE DETECTION ET DE SURVEILLANCE D'EMISSIONS**
[72] PRINCE, DENNIS SCOTT, CA
[72] BUTLER, TERRY DAN, CA
[71] AIRDAR INC., CA
[22] 2008-01-16
[41] 2008-07-24
[62] 2,675,173
[30] US (60/885,172) 2007-01-16

---

[21] **3,142,815**
[13] A1
[51] **Int.Cl. A01K 63/00 (2017.01) A01K 61/60 (2017.01) A01K 61/00 (2017.01) B63B 21/04 (2006.01) B63B 22/00 (2006.01)**
[25] EN
[54] **BUOYANCY SYSTEM FOR A FISH PEN**
[54] **SYSTEME DE FLOTTABILITE POUR COMPARTIMENT A POISSONS**
[72] NAESS, ANDERS, NO
[72] JOHNSEN, TROND OTTO, NO
[71] AKVADESIGN AS, NO
[22] 2017-03-01
[41] 2017-09-08
[62] 3,014,289
[30] NO (20160358) 2016-03-02

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