



Canadian  
Intellectual Property  
Office

An Agency of  
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du Canada

Un organisme  
d'Industrie Canada

ISSN-1712-4034

# The Patent

Office Record

# La Gazette

du Bureau des brevets



Vol. 148 No. 2 January 14, 2020

Vol. 148 No. 2 le 14 janvier 2020

Canada



# THE CANADIAN PATENT OFFICE RECORD

## LA GAZETTE DU BUREAU DES BREVETS

Johanne Bélisle  
Commissioner of Patents

Johanne Bélisle  
Commissaire aux brevets

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

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

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

L'Office de la propriété intellectuelle de Canada ne garantit pas l'exactitude de la présente publication et ne se rend responsable d'aucune erreur ou omission ou de leurs conséquences.

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## Notices

## Avis

### 1. Dates and Code Numerals Appearing in Patent Headings

#### Dates

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

#### Code Numerals

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

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

- [11] - Number of Patent document
- [13] - Kind-of-document code
- [21] - Number assigned to the Application
- [22] - Date of Filing Application or
- [22] - Date of filing of related divisional application
- [25] - Language in which the published application was originally filed
- [30] - Data relating to priority under the Paris Convention
  
- [41] - Open to Public Inspection Date
- [45] - Date of Issue
- [48] - Correction Date ( Re-Issued, Re-Examined )
- [51] - International Classification
- [52] - Domestic Classification
- [54] - Title of Invention
- [60] - Related by Supplementary Disclosure
- [62] - Related by Division
- [64] - Related by Reissue
- [71] - Name(s) of Applicant(s)
- [72] - Name(s) of Inventor(s)
- [73] - Name(s) of Grantee(s)
- [85] - National Entry Date
- [86] - PCT International Filing Data
- [87] - PCT International Publication data

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

#### Dates

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

#### Chiffres de code

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

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

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

## 2. Country Code

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

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

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

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

## 4. Orders for Patents by Class or Sub-Class

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

## 2. Code des pays

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

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

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

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

## 4. Commande de brevets par classe ou sous-classe

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

## 5. Advice on Making a Patent Application

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

## 6. Licensing of Patents

### Voluntary Licences

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

### Compulsory Licences

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

## 7. Patents Available for Licence or Sale

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

## 8. List of Patents Available for Licence or Sale

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

None

## 5. Conseils relatifs à la préparation de demandes de brevets

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

## 6. Octroi de licences en vertu des brevets

### Licences librement accordées

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

### Licences obligatoires

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

## 7. Brevets disponibles pour licence ou vente

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

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

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

Aucun

## 9. Applications Open to Public Inspection

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

## 10. Language of Published Documents

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

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

1. Transmittal Fee (Rule 14)	\$300
2. International Filing Fee	\$1730*
For each additional sheet over 30	\$20
3. International Search Fee	\$1600

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

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

## 9. Demandes mises à la disponibilité du public

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

## 10. Langue du document publié

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

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

1. Taxe de transmission (Règle 14)	300 \$
2. Taxe de dépôt internationale	1730 \$*
Pour chaque feuille au delà de 30	20 \$
3. Taxe de recherche internationale	1600 \$

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

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

## Notices

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

### 4. Late payment fee

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

### Preliminary Examination

5. Handling fee (Rule 57.2(a)) \$260

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

\* International fees will be reduced by:

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

## 12. PCT Notices

### Patent Cooperation Treaty (PCT)

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

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

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

or by "E-mail" ([publications.mail@wipo.int](mailto:publications.mail@wipo.int)) or visit their Web site ([www.wipo.int](http://www.wipo.int)).

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

### 4. Taxe pour paiement tardif

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

### Examen préliminaire

5. Taxe de traitement (Règle 57.2a) 260 \$

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

\* Les frais seront réduits de:

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

## 12. Avis PCT

### Traité de Coopération en matière de brevets (PCT)

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

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

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

ou par courriel ([publications.mail@wipo.int](mailto:publications.mail@wipo.int)) ou visiter leur site Web ([www.wipo.int](http://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

## Notices

Offices.

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

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

## 14. Correspondence Procedures

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

Web Link for MOPOP:

[http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/h\\_wr00720.html](http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/h_wr00720.html)

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

CIPO Web Link for correspondence procedures pertaining to Trademarks and Industrial Design:

<https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/wr00633.html>

Publication date: May 10, 2017

Amendment date: June 17, 2019

### On this page:

1. Physical Delivery of Correspondence and Written Communications to CIPO
2. Electronic Correspondence
3. Details Concerning the Electronic Formats Accepted
4. General Information
5. Time Period Extensions
6. Procedures in Case of an Unexpected Office Closure at CIPO

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

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

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

## 14. Procédures de correspondance

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

Lien Web pour le RPBB :

[http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/h\\_wr00720.html](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

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

Download the [Fee Payment Form](#).

### 1.1 Designated Establishments

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

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

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

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

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

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

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

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

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

### 1.1 Établissements désignés

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

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

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

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

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

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

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

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except statutory holiday

l'exception des jours fériés

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

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

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

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

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

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

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

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

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

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

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

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

### 1.2. Services Courrier recommandé<sup>MC</sup> et Xpresspost<sup>MC</sup> 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<sup>MC</sup> et Xpresspost<sup>MC</sup> de Postes Canada sont des établissements ou des

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

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

### 2. Electronic Correspondence

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

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

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

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

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

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

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

### 2. Correspondance électronique

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

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

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

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

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

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open for business.

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

### 2.1 Facsimile

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

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

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

(819) 934-3833

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

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

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

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

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

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

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

### 2.1 Correspondance par télécopieur

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

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

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

(819) 934-3833

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

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

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

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

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

## Notices

### Patents

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

### 2.2 Online

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

### Patents

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

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

### Canada as Receiving Office Under the PCT: PCT-SAFE

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

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

### Trademarks

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

### Brevets

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

### 2.2 En ligne

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

### Brevets

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

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

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

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

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

### Marques de commerce

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

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accessing the following pages:

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

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

### *Opposition proceedings before the Trademarks Opposition Board*

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

### *Section 45 proceedings before the Trademarks Opposition Board*

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

## Copyright

:

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

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

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

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

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

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

## Droits d'auteur

## Notices

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

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

## Industrial Designs

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

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

## Integrated Circuit Topographies

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

- [general correspondence relating to integrated circuit topographies](#).

### 2.3 Electronic medium

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

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

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

## Dessins industriels

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

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

## Topographies de circuits intégrés

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

- [correspondance générale relative aux topographies de circuits intégrés](#).

### 2.3 Supports électroniques

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

## Brevets

## Patents

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## Notices

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

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

### Electronic Media accepted by the Patent Office

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

### Trademarks and Industrial Design

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

## 3. Details Concerning the Electronic Formats Accepted

### Patents

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

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

When applicable, the Patent Office will accept files in the

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

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

### Supports électroniques acceptés par le Bureau des brevets

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

### Marques de commerce et dessins industriels

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

## 3. Précisions concernant les formats électroniques acceptés

### Brevets

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

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

## Avis

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

TIFF Format:

- TIFF CCITT Group 4, single or multi-page, black and white;
- Resolution of either 300 or 400 dpi;
- The dimensions of the scanned/stored images should match that of the paper requirements, namely 8 1/2" by 11" or A4.

PDF Format:

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

ASCII

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

## Trademarks

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

## Industrial Design

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

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

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

Format TIFF

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

Format PDF

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

ASCII

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

## Marques de commerce

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

## Dessins industriels

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

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

## Notices

### 4. General Information

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

### 5. Time Period Extensions

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

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

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

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

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

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

### 4. Renseignements généraux

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

### 5. Prorogation des délais

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

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

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

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

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

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

## Avis

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

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

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

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

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

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

### Time period extensions under the Copyright and Integrated Circuit Topography Acts

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

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

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

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

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

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

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

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

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

Selon l'article 26 de la Loi d'interprétation, lorsqu'une personne choisit de livrer un document à l'OPIC ou à un établissement désigné (y compris un bureau régional d'Innovation, Sciences et Développement économique Canada ou le service Courrier recommandé<sup>MC</sup>, ou par Xpresspost<sup>MC</sup> 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

## Notices

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

### Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

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

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

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

### Time period extensions under the Madrid Protocol and the Hague Agreement

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### 6. Procédures en cas de fermeture des bureaux

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

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

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

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

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

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

## Notices

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

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

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

#### Patents, Industrial Design, Copyright and Integrated Circuit Topography

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

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

#### Trademarks

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

### 8. Intellectual property acts, rules and regulations

- [Copyright Act](#)
- [Copyright Regulations](#)
- [Industrial Design Act](#)
- [Industrial Design Regulations](#)
- [Integrated Circuit Topography Act](#)
- [Integrated Circuit Topography Regulations](#)
- [Interpretation Act](#)
- [Patent Act](#)

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

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

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

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

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

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

#### Marques de commerce

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

### 8. Lois, règles et règlements sur la propriété intellectuelle

- [Loi sur le droit d'auteur](#)
- [Règlement sur le droit d'auteur](#)
- [Loi sur les dessins industriels](#)
- [Règlement sur les dessins industriels](#)
- [Loi sur les topographies de circuits intégrés](#)
- [Règlement sur les topographies de circuits intégrés](#)
- [Loi d'interprétation](#)
- [Loi sur les brevets](#)
- [Règles sur les brevets](#)

## Avis

- [Patent Rules](#)
- [Regulations under the PCT](#)
- [Trademarks Act](#)
- [Trademarks Regulations](#)

- [Règlement d'exécution du PCT](#)
- [Loi sur les marques de commerce](#)
- [Règlement sur les marques de commerce](#)

### **15. Canadian Applications Open to Public Inspection**

The *Canadian Patent Office Record* of January 14, 2020 contains applications open to public inspection from December 29, 2019 to January 4, 2020.

### **15. Demandes canadiennes mises à la disponibilité du public**

La *Gazette du bureau des brevets* du 14 janvier 2020 contient les demandes disponibles au public pour consultation pour la période du 29 décembre 2019 au 4 janvier 2020.

# Canadian Patents Issued

January 14, 2020

## Brevets canadiens délivrés

14 janvier 2020

---

[11] **2,514,328**  
[13] C

[51] **Int.Cl. A61K 39/385 (2006.01) A61K 39/095 (2006.01) A61K 39/116 (2006.01) A61K 39/295 (2006.01) A61K 39/39 (2006.01) A61P 31/04 (2006.01) A61P 37/04 (2006.01) C07K 14/22 (2006.01) C07K 14/285 (2006.01) C07K 14/315 (2006.01) C07K 14/34 (2006.01)**

[25] EN

[54] **INJECTABLE VACCINES AGAINST MULTIPLE MENINGOCOCCAL SEROGROUPS**

[54] **VACCINS INJECTABLES CONTRE LES MULTIPLES SEROGROUPES DU MENINGOCOQUE**

[72] COSTANTINO, PAOLO, IT

[73] NOVARTIS VACCINES AND DIAGNOSTICS S.R.L.,

[85] 2005-07-26

[86] 2004-01-30 (PCT/IB2004/000651)

[87] (WO2004/067030)

[30] GB (0302217.5) 2003-01-30

[30] GB (0323101.6) 2003-10-02

---

[11] **2,564,366**  
[13] C

[51] **Int.Cl. A61K 39/095 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **COMBINED MENINGOCOCCAL CONJUGATES WITH COMMON CARRIER PROTEIN**

[54] **CONJUGUES MENINGOCOCCIQUES COMBINES PRESENTANT UNE PROTEINE PORTEUSE COMMUNE**

[72] COSTANTINO, PAULO, IT

[73] NOVARTIS VACCINES AND DIAGNOSTICS S.R.L.,

[85] 2006-10-26

[86] 2005-04-29 (PCT/IB2005/001536)

[87] (WO2005/105141)

[30] GB (0409745.7) 2004-04-30

---

[11] **2,595,086**  
[13] C

[51] **Int.Cl. A01N 1/02 (2006.01) C07K 7/06 (2006.01) C07K 7/08 (2006.01) C12N 9/12 (2006.01)**

[25] EN

[54] **PERFUSION AND/OR PRESERVATION SOLUTION FOR ORGANS**

[54] **SOLUTION DE PERFUSION ET/OU DE CONSERVATION POUR ORGANES**

[72] YOUNG, LINDON H., US

[73] PHILADELPHIA COLLEGE OF OSTEOPATHIC MEDICINE,

[85] 2007-07-13

[86] 2006-01-13 (PCT/US2006/001266)

[87] (WO2006/076590)

[30] US (11/035,197) 2005-01-14

---

[11] **2,614,305**  
[13] C

[51] **Int.Cl. H04N 1/40 (2006.01)**

[25] EN

[54] **A METHOD AND A SYSTEM FOR PROCESSING PRINTED PRODUCTS**

[54] **PROCEDE ET SYSTEME DE TRAITEMENT DE PRODUITS IMPRIMES**

[72] DOBROVOLSKY, SASHA, US

[73] EPAC TECHNOLOGIES,

[85] 2008-01-04

[86] 2006-06-29 (PCT/US2006/025279)

[87] (WO2007/008434)

[30] US (11/175,676) 2005-07-06

---

[11] **2,642,438**  
[13] C

[51] **Int.Cl. A61M 15/08 (2006.01)**

[25] EN

[54] **DELIVERY DEVICE AND METHOD FOR DELIVERING SUBSTANCE TO THE MIDDLE MEATUS IN A NASAL CAVITY OF A SUBJECT**

[54] **DISPOSITIF DE DISTRIBUTION ET PROCEDE POUR DELIVRER UNE SUBSTANCE DANS LE MEAT MOYEN D'UNE CAVITE NASALE D'UN PATIENT**

[72] DJUPESLAND, PER GISLE, NO

[72] SHELDRAKE, COLIN DAVID, GB

[72] HAFNER, RODERICK PETER, GB

[73] OPTINOSE AS,

[85] 2008-08-14

[86] 2007-02-14 (PCT/GB2007/000516)

[87] (WO2007/093791)

[30] GB (0602980.5) 2006-02-14

---

[11] **2,655,560**  
[13] C

[51] **Int.Cl. B41M 3/00 (2006.01) B41M 3/14 (2006.01)**

[25] EN

[54] **METHOD FOR APPLYING A MICROPATTERN, DIE FORM AND OBJECT HAVING A MICROPATTERN**

[54] **METHODE D'APPLICATION DE MICROMOTIFS, FORME DE MATRICE ET OBJET PRESENTANT UN MICROMOTIF**

[72] DICHTL, MARIUS, DE

[73] GIESECKE & DEVRIENT CURRENCY TECHNOLOGY GMBH,

[85] 2008-12-17

[86] 2007-06-13 (PCT/EP2007/005200)

[87] (WO2008/000350)

[30] DE (10 2006 029 852.7) 2006-06-27

**Brevets canadiens délivrés  
14 janvier 2020**

[11] **2,660,691**  
[13] C

- [51] **Int.Cl. G01N 33/68 (2006.01)**  
[25] EN  
[54] **MEANS AND METHODS FOR ASSESSING THE RISK OF CARDIAC INTERVENTIONS BASED ON GDF-15**  
[54] **MOYENS ET PROCÉDES D'ÉVALUATION DU RISQUE D'INTERVENTIONS CARDIAQUES À PARTIR DU GÈNE GDF-15**  
[72] WOLLERT, KAI CHRISTOPH, DE  
[72] KEMPF, TIBOR, DE  
[72] WALLENTIN, LARS, SE  
[72] DREXLER, HELMUT, DE  
[73] MEDIZINISCHE HOCHSCHULE HANNOVER,  
[85] 2009-01-14  
[86] 2007-08-02 (PCT/EP2007/058007)  
[87] (WO2008/015254)  
[30] EP (06118464.4) 2006-08-04  
[30] EP (06121413.6) 2006-09-28  
[30] EP (07108854.6) 2007-05-24

[11] **2,688,259**  
[13] C

- [51] **Int.Cl. G01G 23/01 (2006.01) G01R 31/28 (2006.01)**  
[25] EN  
[54] **METHOD FOR MONITORING THE STATE OF A FORCE MEASURING DEVICE, FORCE MEASURING DEVICE AND FORCE MEASURING MODULE**  
[54] **PROCÉDE POUR SURVEILLER L'ÉTAT D'UN DISPOSITIF DYNAMOMETRIQUE, DISPOSITIF DYNAMOMETRIQUE ET MODULE DYNAMOMETRIQUE**  
[72] TRAUTWEILER, CHRISTOPH, CH  
[72] BLISS, DOUGLAS, US  
[73] METTLER-TOLEDO GMBH,  
[85] 2009-11-23  
[86] 2008-03-27 (PCT/EP2008/053622)  
[87] (WO2008/148589)  
[30] US (60/942,475) 2007-06-07

[11] **2,705,463**  
[13] E

- [51] **Int.Cl. C07F 9/09 (2006.01) A61K 31/661 (2006.01) A61K 31/665 (2006.01) A61P 29/00 (2006.01) C07F 9/6574 (2006.01)**  
[25] EN  
[54] **ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF**  
[54] **COMPOSES ANTI-INFLAMMATOIRES ET LEURS UTILISATIONS**  
[72] RIGAS, BASIL, US  
[73] RIGAS, BASIL,  
[85] 2010-05-07  
[86] 2008-08-11 (PCT/US2008/072788)  
[87] (WO2009/023631)  
[48] 2020-01-14  
[30] US (60/955,258) 2007-08-10  
[30] US (60/989,584) 2007-11-21

[11] **2,708,637**  
[13] C

- [51] **Int.Cl. G01N 33/558 (2006.01) G01N 33/53 (2006.01) C40B 30/04 (2006.01)**  
[25] EN  
[54] **CAPILLARY DRIVEN ASSAY DEVICE AND ITS MANUFACTURE**  
[54] **DISPOSITIF CAPILLAIRE D'ANALYSE ET SA FABRICATION**  
[72] MELIN, JONAS, SE  
[72] JOENSSON, CHRISTINA, SE  
[73] CRIMSON INTERNATIONAL ASSETS LLC,  
[86] (2708637)  
[87] (2708637)  
[22] 2010-06-28  
[30] SE (0950517-3) 2009-07-02  
[30] US (61/222,891) 2009-07-02

[11] **2,726,256**  
[13] C

- [51] **Int.Cl. C12N 15/12 (2006.01) A61K 38/17 (2006.01) C07K 14/47 (2006.01)**  
[25] EN  
[54] **VARIANT HHIPI PROTEIN AND METHODS AND USES THEREOF**  
[54] **VARIANT DE PROTEINE HHIPI ET PROCÉDES D'UTILISATION ASSOCIÉS**  
[72] BOSANAC, IVAN, US  
[72] HYMOWITZ, SARAH G., US  
[72] LAZARUS, ROBERT A., US  
[72] MAUN, HENRY R., US  
[72] SCALES, SUZANNA J., US  
[72] WEN, XIAOHUI, US  
[72] DE SAUVAGE, FREDERIC J., US  
[72] BAZAN, JOSE F., US  
[73] GENENTECH, INC.,  
[73] CURIS, INC.,  
[85] 2010-11-29  
[86] 2009-06-01 (PCT/US2009/045880)  
[87] (WO2009/146463)  
[30] US (61/057,762) 2008-05-30

[11] **2,727,052**  
[13] C

- [51] **Int.Cl. G01L 3/24 (2006.01) A61B 5/22 (2006.01)**  
[25] EN  
[54] **DEVICE AND METHOD FOR MEASUREMENT OF CYCLING POWER OUTPUT**  
[54] **DISPOSITIF ET PROCÉDE POUR MESURER LA PUISSANCE DE SORTIE D'UN CYCLISTE**  
[72] REDMOND, BARRY, IE  
[72] MELLOR, IAN PHILLIP, IE  
[73] SRAM, LLC,  
[85] 2010-12-06  
[86] 2009-06-08 (PCT/EP2009/004095)  
[87] (WO2010/000369)  
[30] IE (S2008/0470) 2008-06-09

Canadian Patents Issued  
January 14, 2020

---

[11] **2,729,159**  
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/6869 (2018.01)**

[25] EN

[54] **METHODS AND DEVICES FOR SINGLE-MOLECULE WHOLE GENOME ANALYSIS**

[54] **PROCEDES ET DISPOSITIF POUR ANALYSE MONO-MOLECULAIRE DE GENOME ENTIER**

[72] XIAO, MING, US

[72] DESHPANDE, PARIKSHIT A., US

[72] CAO, HAN, US

[72] AUSTIN, MICHAEL, US

[72] VIJAYAN, KANDASWAMY, US

[72] SHARONOV, ALEXEY Y., US

[72] BOYCE-JACINO, MICHAEL, US

[73] BIONANO GENOMICS, INC.,

[85] 2010-12-22

[86] 2009-06-30 (PCT/US2009/049244)

[87] (WO2010/002883)

[30] US (61/076,785) 2008-06-30

---

[11] **2,734,922**  
[13] C

[51] **Int.Cl. C12N 15/12 (2006.01) C12N 5/10 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING POLYNUCLEOTIDES COMPRISING HYBRID OSMO-RESPONSIVE TRANSCRIPTIONAL REGULATORY ELEMENTS AND METHODS FOR PRODUCING A PROTEIN UNDER CONDITIONS OF HYPEROSMOLARITY**

[54] **COMPOSITIONS RENFERMANT DES POLYNUCLEOTIDES COMPRENANT DES ELEMENTS HYBRIDES REGULATEURS TRANSCRIPTEURS REAGISSANT A L'OSMOSE ET METHODES DEPRODUCTION D'UNE PROTEINE DANS DES CONDITIONS D'HYPEROSMOLARITE**

[72] MALPHETTES, LAETITIA, US

[72] SNOWDEN, ANDREW, US

[72] YUK, INN H., US

[73] GENENTECH, INC.,

[85] 2011-02-21

[86] 2009-09-15 (PCT/US2009/057031)

[87] (WO2010/031074)

[30] US (61/097,149) 2008-09-15

---

[11] **2,734,942**  
[13] C

[51] **Int.Cl. A23B 4/005 (2006.01) A23B 4/015 (2006.01) A23L 3/30 (2006.01) A23L 3/3409 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR CLEANING AND/OR DISINFECTING A FOOD PRODUCT**

[54] **PROCEDE ET DISPOSITIF POUR NETTOYER ET/OU DESINFECTER UN PRODUIT ALIMENTAIRE**

[72] KREBS, NIELS, DK

[72] NONBOE, ULF, DK

[73] FORCE TECHNOLOGY,

[85] 2011-02-22

[86] 2009-08-24 (PCT/EP2009/060880)

[87] (WO2010/020696)

[30] DK (PA 2008 01146) 2008-08-22

---

[11] **2,736,263**  
[13] C

[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 9/68 (2006.01) A61P 33/10 (2006.01) A61P 33/14 (2006.01)**

[25] EN

[54] **SYSTEMIC TREATMENT OF BLOOD-SUCKING AND BLOOD-CONSUMING PARASITES BY ORAL ADMINISTRATION OF A PARASITICIDAL AGENT**

[54] **TRAITEMENT SYSTEMIQUE DE PARASITES SUCEURS DE SANG ET CONSOMMATEURS DE SANG PAR ADMINISTRATION ORALE D'UN AGENT PARASITICIDE**

[72] JOHNSON, ROLAND H., US

[72] HEPLER, DOUGLAS I., US

[72] PALMA, KATHLEEN G., US

[72] CAMPBELL, WILLIAM R., US

[73] BAYER B.V.,

[85] 2011-03-04

[86] 2009-09-30 (PCT/US2009/059111)

[87] (WO2010/039892)

[30] US (61/102,774) 2008-10-03

---

[11] **2,738,317**  
[13] C

[51] **Int.Cl. G01N 21/00 (2006.01) C12M 1/34 (2006.01) G01N 21/11 (2006.01) G01N 21/13 (2006.01) G01N 35/02 (2006.01) G01N 37/00 (2006.01) A61B 5/145 (2006.01)**

[25] EN

[54] **IMAGING ANALYZER FOR TESTING ANALYTES**

[54] **ANALYSEUR D'IMAGERIE POUR ESSAI D'ANALYTES**

[72] WALSH, BRUCE, US

[72] BLANTER, BORIS, US

[72] BARRA, MATTHEW, US

[72] CONNELLY, BRIAN, US

[72] YANTZ, GREG, US

[72] GERVASIO, PAUL, US

[72] STRAUS, DON, US

[73] FIRST LIGHT BIOSCIENCES, INC.,

[85] 2011-03-23

[86] 2009-09-24 (PCT/US2009/058274)

[87] (WO2010/036829)

[30] US (61/099,830) 2008-09-24

---

[11] **2,744,642**  
[13] C

[51] **Int.Cl. C07D 409/14 (2006.01) C08G 61/12 (2006.01) C08J 5/18 (2006.01) H01L 51/46 (2006.01)**

[25] EN

[54] **TETRAZINE MONOMERS AND COPOLYMERS FOR USE IN ORGANIC ELECTRONIC DEVICES**

[54] **MONOMERES ET COPOLYMERES DE TETRAZINE DESTINES A DES DISPOSITIFS ELECTRONIQUES ORGANIQUES**

[72] DING, JIANFU, CA

[72] LI, ZHAO, CA

[72] SONG, NAIHENG, CA

[73] NATIONAL RESEARCH COUNCIL OF CANADA,

[86] (2744642)

[87] (2744642)

[22] 2011-06-28

[30] US (61/361,637) 2010-07-06

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,747,535**  
[13] C

[51] **Int.Cl. C12N 15/09 (2006.01)**  
[25] EN  
[54] **METHOD FOR ASSEMBLY OF  
POLYNUCLEIC ACID  
SEQUENCES**  
[54] **PROCEDE D'ASSEMBLAGE DE  
SEQUENCES D'ACIDE  
POLYNUCLEIQUE**  
[72] CHE, AUSTIN, US  
[72] KNIGHT, TOM, US  
[72] CANTON, BARRY, US  
[72] KELLY, JASON, US  
[72] SHETTY, RESHMA, US  
[73] ITI SCOTLAND LIMITED,  
[85] 2011-06-17  
[86] 2009-12-18 (PCT/GB2009/002917)  
[87] (WO2010/070295)  
[30] US (61/203,200) 2008-12-18

---

[11] **2,748,785**  
[13] C

[51] **Int.Cl. H04N 21/431 (2011.01) H04N  
21/458 (2011.01) H04N 21/472  
(2011.01) H04N 5/262 (2006.01) H04N  
5/445 (2011.01)**  
[25] EN  
[54] **RE-ADDRESSABLE ALTERNATE  
CONTENT**  
[54] **CONTENU DE RECHANGE  
READRESSABLE**  
[72] HOLDEN, DANIAL E., US  
[73] COMCAST CABLE  
COMMUNICATIONS, LLC,  
[86] (2748785)  
[87] (2748785)  
[22] 2011-08-11  
[30] US (12/862,716) 2010-08-24

---

[11] **2,752,393**  
[13] C

[51] **Int.Cl. C07K 1/22 (2006.01)**  
[25] EN  
[54] **PURIFICATION OF  
IMMUNOGLOBULINS**  
[54] **PURIFICATION  
D'IMMUNOGLOBULINES**  
[72] GRONKE, ROBERT S., US  
[72] ZANONI, HECTOR, US  
[73] BIOGEN MA INC.,  
[85] 2011-08-11  
[86] 2010-03-04 (PCT/US2010/026219)  
[87] (WO2010/102114)  
[30] US (61/157,850) 2009-03-05

---

[11] **2,752,454**  
[13] C

[51] **Int.Cl. B01D 69/12 (2006.01) B01D  
61/18 (2006.01) B01D 67/00 (2006.01)**  
[25] EN  
[54] **SOLVENT AND ACID STABLE  
MEMBRANES AND METHODS OF  
MANUFACTURE THEREOF**  
[54] **MEMBRANES STABLES AUX  
SOLVANTS ET AUX ACIDES, ET  
PROCEDES DE FABRICATION  
ASSOCIES**  
[72] PERRY, MORDECHAI, IL  
[72] GINZBURG, VERA, IL  
[72] GINZBURG, BORIS, IL  
[72] LAPIDO, POLINA, IL  
[73] AMS TECHNOLOGIES INT. (2012)  
LTD,  
[85] 2011-07-12  
[86] 2010-01-13 (PCT/IL2010/000032)  
[87] (WO2010/082194)  
[30] US (61/193,962) 2009-01-13  
[30] US (61/144,459) 2009-01-14

---

[11] **2,756,630**  
[13] C

[51] **Int.Cl. A61B 5/06 (2006.01) A61B  
18/14 (2006.01) A61N 1/05 (2006.01)**  
[25] EN  
[54] **VISUALIZATION OF CATHETER-  
TISSUE CONTACT BY MAP  
DISTORTION**  
[54] **VISUALISATION DE LA SURFACE  
DE CONTACT CATHETER-TISSU  
PAR PROJECTION  
CARTOGRAPHIQUE**  
[72] ZINO, ELIAHU, IL  
[73] BIOSENSE WEBSTER (ISRAEL)  
LTD.,  
[86] (2756630)  
[87] (2756630)  
[22] 2011-11-01  
[30] US (12/939,259) 2010-11-04

---

[11] **2,763,598**  
[13] C

[51] **Int.Cl. H05B 37/02 (2006.01)**  
[25] EN  
[54] **MULTI-VOLTAGE AND MULTI-  
BRIGHTNESS LED LIGHTING  
DEVICES AND METHODS OF  
USING SAME**  
[54] **DISPOSITIFS D'ECLAIRAGE A  
LED, MULTI-TENSION ET  
MULTI-LUMINOSITE, ET  
PROCEDES POUR LEUR  
UTILISATION**  
[72] MISKIN, MICHAEL, US  
[72] KOTTRITSCH, ROBERT L., GB  
[73] LYNK LABS, INC.,  
[85] 2011-11-25  
[86] 2010-05-28 (PCT/US2010/001597)  
[87] (WO2010/138211)

---

[11] **2,765,640**  
[13] C

[51] **Int.Cl. G01B 7/06 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR USE  
IN DETERMINING THE  
THICKNESS OF A LAYER OF  
INTEREST IN A MULTI-LAYER  
STRUCTURE**  
[54] **SYSTEME ET PROCEDE  
SERVANT A DETERMINER  
L'EPaisseur D'UNE COUCHE  
DEFINIE AU SEIN D'UNE  
STRUCTURE MULTICOUCHE**  
[72] SAHA, ATANU, IN  
[72] ANAND, KRISHNAMURTHY, IN  
[72] SESHADRI, HARI NADATHUR, IN  
[72] GOURISHANKAR, KARTHICK  
VILAPAKKAM, IN  
[72] CAPPUCCINI, FILIPPO, IT  
[73] GENERAL ELECTRIC COMPANY,  
[86] (2765640)  
[87] (2765640)  
[22] 2012-01-26  
[30] US (13/021,328) 2011-02-04

**Canadian Patents Issued  
January 14, 2020**

---

[11] **2,765,671**  
[13] C

[51] **Int.Cl. H04W 64/00 (2009.01)**  
[25] EN  
[54] **TELECOMMUNICATIONS  
METHOD AND APPARATUS FOR  
FACILITATING POSITIONING  
MEASUREMENTS**  
[54] **PROCEDE ET APPAREIL DE  
TELECOMMUNICATIONS  
CONCUS POUR FACILITER DES  
MESURES DE POSITIONNEMENT**  
[72] KAZMI, MUHAMMAD, SE  
[72] LINDOFF, BENGT, SE  
[72] MULLER, WALTER, SE  
[73] OPTIS WIRELESS TECHNOLOGY,  
LLC,  
[85] 2011-12-15  
[86] 2009-06-22 (PCT/SE2009/050789)  
[87] (WO2010/147525)  
[30] US (12/488,303) 2009-06-19

---

[11] **2,769,044**  
[13] C

[51] **Int.Cl. E21B 43/12 (2006.01)**  
[25] EN  
[54] **FLUID INJECTION DEVICE**  
[54] **DISPOSITIF D'INJECTION DE  
FLUIDE**  
[72] BUTLAND, RICHARD DE VILLIERS,  
CA  
[73] ALBERTA FLUX SOLUTIONS LTD.,  
[86] (2769044)  
[87] (2769044)  
[22] 2012-02-03

---

[11] **2,771,835**  
[13] C

[51] **Int.Cl. C12N 15/115 (2010.01) C07K  
14/745 (2006.01)**  
[25] FR  
[54] **METHOD FOR PURIFYING GLA-  
DOMAIN COAGULATION  
PROTEINS**  
[54] **PROCEDE POUR LA  
PURIFICATION DE PROTEINES  
DE LA COAGULATION A  
DOMAINE GLA**  
[72] PERRET, GERALD, FR  
[72] CHTOUROU, SAMI, FR  
[72] BIHOREAU, NICOLAS, FR  
[73] LABORATOIRE FRANCAIS DU  
FRACTIONNEMENT ET DES  
BIOTECHNOLOGIES,  
[85] 2012-02-22  
[86] 2010-07-30 (PCT/FR2010/051628)  
[87] (WO2011/012830)  
[30] FR (0955406) 2009-07-31

---

[11] **2,773,103**  
[13] C

[51] **Int.Cl. B27N 9/00 (2006.01) B32B  
21/14 (2006.01) E04B 1/94 (2006.01)**  
[25] EN  
[54] **FIRE-RESISTANT "ORIENTED  
STRAND BOARD" MATERIAL**  
[54] **MATERIAU DE PANNEAU DE  
COPEAUX ORIENTES RESISTANT  
AU FEU**  
[72] WIEHN, HELMUT, DE  
[72] DAESELEIRE, PIETER FRANS  
JOZEF PAUL WALTER, BE  
[72] MEYNAERTS, HERMAN JOZEF, BE  
[73] ECOCHEM INTERNATIONAL,  
NAAMLOZE VENNOOTSCHAP,  
[86] (2773103)  
[87] (2773103)  
[22] 2012-03-27  
[30] BE (2011/0188) 2011-03-28

---

[11] **2,778,953**  
[13] C

[51] **Int.Cl. C07K 16/18 (2006.01) A61K  
39/395 (2006.01) C07K 16/46  
(2006.01) C12N 15/13 (2006.01) G01N  
33/577 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS, KITS, AND  
METHODS FOR THE DIAGNOSIS,  
PROGNOSIS, MONITORING,  
TREATMENT AND MODULATION  
OF POST-TRANSPLANT  
LYMPHOPROLIFERATIVE  
DISORDERS AND HYPOXIA  
ASSOCIATED ANGIOGENESIS  
DISORDERS USING GALECTIN-1**  
[54] **COMPOSITIONS, KITS ET  
METHODES UTILISES POUR LE  
DIAGNOSTIC, LE PRONOSTIC,  
LA SURVEILLANCE, LE  
TRAITEMENT ET LA  
MODULATION DES  
LYMPHOPROLIFERATIONS  
APRES GREFFE D'ORGANE ET  
DE L'HYPOXIE ASSOCIEE A  
L'ANGIOGENESE AU MOYEN DE  
LA GALECTINE-1**  
[72] SHIPP, MARGARET A., US  
[72] RABINOVICH, GABRIEL, AR  
[72] OUYANG, JING, US  
[72] TAKEYAMA, KUNIHICO, JP  
[72] KUTOK, JEFFERY L., US  
[72] RODIG, SCOTT J., US  
[72] RUSSO, DIEGO OMAR CROCI, AR  
[72] SALATINO, MARIANA, AR  
[73] DANA-FARBER CANCER  
INSTITUTE, INC.,  
[73] THE BRIGHAM AND WOMEN'S  
HOSPITAL, INC,  
[73] CONSEJO NACIONAL DE  
INVESTIGACIONES CIENTIFICAS Y  
TECNICAS (CONICET),  
[73] FUNDACION SALES,  
[85] 2012-04-25  
[86] 2010-11-12 (PCT/US2010/056547)  
[87] (WO2011/060272)  
[30] US (61/261,125) 2009-11-13  
[30] US (61/283,159) 2009-11-30  
[30] US (61/335,779) 2010-01-12

**Brevets canadiens délivrés  
14 janvier 2020**

---

[11] **2,779,688**  
[13] C

[51] **Int.Cl. G01N 27/00 (2006.01) G01N 1/34 (2006.01) G01N 1/40 (2006.01) G01N 30/72 (2006.01) G01N 33/483 (2006.01) G01N 33/68 (2006.01) C07K 14/65 (2006.01)**

[25] EN

[54] **QUANTITATION OF INSULIN-LIKE GROWTH FACTOR-I AND INSULIN-LIKE GROWTH FACTOR-II WITH HIGH-RESOLUTION MASS SPECTROMETRY**

[54] **QUANTITATION DE FACTEUR DE CROISSANCE DE TYPE INSULINE I ET DE FACTEUR DE CROISSANCE DE TYPE INSULINE II PAR SPECTROMETRIE DE MASSE A RESOLUTION ELEVEE**

[72] BYSTROM, CORY, US  
[72] SHENG, SHIJUN, US  
[72] CLARKE, NIGEL J., US  
[72] REITZ, RICHARD, US  
[73] QUEST DIAGNOSTICS INVESTMENTS INCORPORATED,  
[85] 2012-05-01  
[86] 2010-11-04 (PCT/US2010/055518)  
[87] (WO2011/057021)  
[30] US (61/258,560) 2009-11-05  
[30] US (61/408,535) 2010-10-29

---

[11] **2,780,532**  
[13] C

[51] **Int.Cl. A61L 31/10 (2006.01) A61B 17/06 (2006.01) A61L 31/02 (2006.01)**

[25] EN

[54] **SURGICAL NEEDLE COATINGS AND METHODS**

[54] **REVETEMENTS POUR AIGUILLE CHIRURGICALE ET METHODES AFFERENTES**

[72] MAURER, ROBERT, US  
[72] BAR, S. NEIL, US  
[72] HINRICHS, ERIC, US  
[72] HAMILTON, MICHAEL, US  
[72] WILKES, THOMAS, US  
[73] ETHICON LLC,  
[85] 2012-05-09  
[86] 2010-10-21 (PCT/US2010/053545)  
[87] (WO2011/056451)  
[30] US (12/614,669) 2009-11-09  
[30] US (12/858,489) 2010-08-18

---

[11] **2,786,620**  
[13] C

[51] **Int.Cl. A61M 1/00 (2006.01) A61F 13/00 (2006.01) A61L 15/42 (2006.01) A61M 27/00 (2006.01)**

[25] EN

[54] **DEVICES, SYSTEMS, AND METHODS FOR INSTILLATION OF FOAMED FLUID WITH NEGATIVE PRESSURE WOUND THERAPY**

[54] **DISPOSITIFS, SYSTEMES ET PROCEDES POUR L'INSTILLATION D'UN FLUIDE MOUSSE AVEC UNE THERAPIE DE PLAIE PAR PRESSION NEGATIVE**

[72] ROBINSON, TIM, US  
[72] PERKINS, JOANNA, US  
[73] KCI LICENSING, INC.,  
[85] 2012-07-06  
[86] 2011-01-19 (PCT/US2011/021727)  
[87] (WO2011/091045)  
[30] US (61/297,471) 2010-01-22

---

[11] **2,786,676**  
[13] C

[51] **Int.Cl. B32B 5/28 (2006.01) B32B 27/04 (2006.01) B32B 37/15 (2006.01) B44C 5/04 (2006.01) D21H 17/51 (2006.01) D21H 17/67 (2006.01) D21H 19/38 (2006.01) D21H 27/28 (2006.01) E04C 2/26 (2006.01) E04F 15/10 (2006.01)**

[25] EN

[54] **METHOD OF APPLYING PHOTOCATALYST NANOPARTICLES ON BOARDS AND PANELS**

[54] **PROCEDE D'APPLICATION DE NANOPARTICULES**

[72] ZIEGLER, GOERAN, SE  
[72] JENSEN, HENRIK, DK  
[72] REENBERG, THEIS, DK  
[73] VAELINGE PHOTOCATALYTIC AB,  
[85] 2012-07-06  
[86] 2011-01-28 (PCT/SE2011/050092)  
[87] (WO2011/093785)  
[30] SE (1050095-7) 2010-01-29

---

[11] **2,787,890**  
[13] C

[51] **Int.Cl. A61K 47/54 (2017.01)**

[25] EN

[54] **GROWTH HORMONES WITH PROLONGED IN-VIVO EFFICACY**

[54] **HORMONES DE CROISSANCE PRESENTANT UNE EFFICACITE IN VIVO PROLONGEE**

[72] BEHRENS, CARSTEN, DK  
[72] JOHANSEN, NILS LANGELAND, DK  
[72] ANDERSEN, HENRIK SUNE, DK  
[72] NOERSKOV-LAURITSEN, LEIF, DK  
[72] BUCHARDT, JENS, DK  
[73] NOVO NORDISK HEALTH CARE AG,  
[85] 2012-07-23  
[86] 2011-01-24 (PCT/EP2011/050923)  
[87] (WO2011/089255)  
[30] US (61/297,305) 2010-01-22  
[30] EP (10151405.7) 2010-01-22

---

[11] **2,788,885**  
[13] C

[51] **Int.Cl. H01H 47/00 (2006.01) H01H 9/20 (2006.01) H05B 1/02 (2006.01)**

[25] EN

[54] **KIND OF ANTI-ADHESION DEVICE, A HEATING APPARATUS INCLUDING THE DEVICE, AND METHOD OF OPERATING THE SAME**

[54] **TYPE DE DISPOSITIF ANTI-ADHESIF, UN APPAREIL DE CHAUFFAGE COMPRENANT LE DISPOSITIF ET SA METHODE D'UTILISATION**

[72] HUANG, XIANKUN, CN  
[72] TANG, YOUSHENG, CN  
[72] LIU, DEGANG, CN  
[72] YANG, GUOBIN, CN  
[72] CHEN, FANGHUA, CN  
[73] A. O. SMITH CORPORATION,  
[86] (2788885)  
[87] (2788885)  
[22] 2012-09-07  
[30] CN (201120336128.7) 2011-09-08

**Canadian Patents Issued  
January 14, 2020**

---

[11] **2,791,085**  
[13] C

[51] **Int.Cl. B22D 41/24 (2006.01) B22D 41/34 (2006.01) B22D 41/38 (2006.01) B22D 41/56 (2006.01)**

[25] EN

[54] **DEVICE FOR HOLDING AND REPLACING A CASTING PLATE IN A CASTING INSTALLATION, METALLIC CASING OF CASTING PLATE AND CASTING PLATE, PROVIDED WITH MEANS INTERACTING WITH A DEVICE DETECTOR**

[54] **DISPOSITIF DE MAINTIEN ET DE REMPLACEMENT D'UNE PLAQUE DE COULEE DANS UNE INSTALLATION DE COULEE, ENVELOPPE METALLIQUE DE PLAQUE DE COULEE ET PLAQUE DE COULEE, COMPORTANT UN MOYENENTRANT EN INTERACTION AVEC UN DETECTEUR DE DISPOSITIF**

[72] BOISDEQUIN, VINCENT, BE  
[72] COLLURA, MARIANO, BE  
[73] VESUVIUS GROUP S.A.,  
[85] 2012-08-24  
[86] 2011-03-17 (PCT/EP2011/001323)  
[87] (WO2011/113596)  
[30] EP (10157128.9) 2010-03-19  
[30] EP (10157129.7) 2010-03-19

---

[11] **2,792,388**  
[13] C

[51] **Int.Cl. B66D 1/60 (2006.01) B60P 1/00 (2006.01) B60P 1/04 (2006.01) B65G 67/02 (2006.01)**

[25] EN

[54] **HOIST APPARATUS**

[54] **DISPOSITIF DE LEVAGE**

[72] DOWNING, JOHN J., US  
[72] MARTINDALE, NATHAN L., US  
[73] WASTEQUIP, LLC,  
[86] (2792388)  
[87] (2792388)  
[22] 2012-10-10  
[30] US (61/545,506) 2011-10-10

---

[11] **2,793,600**  
[13] C

[51] **Int.Cl. C12N 15/82 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR THE INTRODUCTION AND REGULATED EXPRESSION OF GENES IN PLANTS**

[54] **PROCEDES ET COMPOSITIONS POUR L'INTRODUCTION ET L'EXPRESSION REGULEE DE GENES DANS DES PLANTES**

[72] GORDON-KAMM, WILLIAM J., US  
[72] KLEIN, THEODORE M., US  
[72] LOWE, KEITH S., US  
[72] MCBRIDE, KEVIN E., US  
[72] SCELONGE, CHRISTOPHER J., US  
[72] WANG, BING-BING, US  
[72] WANG, NING, US  
[72] WU, XINLI E., US  
[73] PIONEER HI-BRED INTERNATIONAL, INC.,  
[85] 2012-09-18  
[86] 2010-12-30 (PCT/US2010/062531)  
[87] (WO2011/082318)  
[30] US (61/291,257) 2009-12-30

---

[11] **2,793,808**  
[13] C

[51] **Int.Cl. E21B 19/06 (2006.01)**

[25] EN

[54] **ROD CLAMPING DEVICES FOR HANGING OR PULLING ROD STRINGS IN A WELLBORE**

[54] **DISPOSITIFS DE SERRAGE DE TIGE POUR SUSPENDRE OU TIRER DES TIGES DANS UN TROU DE FORAGE**

[72] WOLLMANN, ARNOLD, CA  
[73] INNOVATIVE TOOL TECHNOLOGY INC.,  
[86] (2793808)  
[87] (2793808)  
[22] 2012-10-25  
[30] US (61/551,123) 2011-10-25

---

[11] **2,794,255**  
[13] C

[51] **Int.Cl. G01N 33/48 (2006.01) C40B 30/00 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **PROTEIN AND GENE BIOMARKERS FOR REJECTION OF ORGAN TRANSPLANTS**

[54] **BIOMARQUEURS PROTEIQUES ET GENETIQUES POUR LE REJET DE GREFFES D'ORGANES**

[72] SARWAL, MINNIE M., US  
[72] LI, LI, US  
[72] SIGDEL, TARA, US  
[72] KAUSHAL, AMIT, US  
[72] XIAO, WENZHONG, US  
[72] BUTTE, ATUL J., US  
[72] KHATRI, PURVESH, US  
[73] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY,  
[85] 2012-09-24  
[86] 2011-03-25 (PCT/US2011/030026)  
[87] (WO2011/119980)  
[30] US (61/341,071) 2010-03-25  
[30] US (61/452,288) 2011-03-14

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[11] **2,795,200**  
[13] C

[51] **Int.Cl. C07K 16/18 (2006.01) C07K 16/46 (2006.01) C12N 5/12 (2006.01) G01N 33/15 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **SOLUBLE HUMAN ST-2 ANTIBODIES AND ASSAYS**

[54] **ANTICORPS ST-2 HUMAINS SOLUBLES ET ANALYSES**

[72] SNIDER, JAMES V., US  
[73] CRITICAL CARE DIAGNOSTICS, INC.,  
[85] 2012-10-01  
[86] 2011-04-08 (PCT/US2011/031801)  
[87] (WO2011/127412)  
[30] US (61/322,578) 2010-04-09  
[30] US (61/345,837) 2010-05-18

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,795,719**  
[13] C

[51] **Int.Cl. C09K 11/66 (2006.01) H01L 31/0296 (2006.01) H01L 31/032 (2006.01) H01L 31/0352 (2006.01) H01L 31/072 (2012.01)**

[25] EN

[54] **PHOTOVOLTAIC DEVICES WITH DEPLETED HETEROJUNCTIONS AND SHELL-PASSIVATED NANOPARTICLES**

[54] **DISPOSITIFS PHOTOVOLTAIQUES A HETEROJONCTIONS APPAUVRIS ET NANOPARTICULES A COQUES PASSIVEES**

[72] TANG, JIANG, CA

[72] PATTANTYUS-ABRAHAM, ANDRAS, CA

[72] KRAMER, ILLAN, CA

[72] BARKHOUSE, AARON, US

[72] WANG, XIHUA, CA

[72] DEBNATH, RATAN, CA

[72] SARGENT, EDWARD H., CA

[72] GERASIMOS, KONSTANTATOS, ES

[73] THE GOVERNING COUNCIL OF THE UNIVERSTIY OF TORONTO,

[85] 2012-10-05

[86] 2011-03-25 (PCT/US2011/030074)

[87] (WO2011/126778)

[30] US (61/321,450) 2010-04-06

[30] US (61/334,650) 2010-05-14

[30] US (12/890,797) 2010-09-27

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[11] **2,797,299**  
[13] C

[51] **Int.Cl. F01D 25/16 (2006.01) F01D 21/04 (2006.01) F01D 25/04 (2006.01) F01D 25/28 (2006.01) F02C 7/06 (2006.01)**

[25] EN

[54] **DYNAMIC LOAD REDUCTION SYSTEM**

[54] **SYSTEME DE REDUCTION DE CHARGE DYNAMIQUE**

[72] WALLACE, THOMAS TRACY, US

[72] SIMPSON, WILLIAM JOSEPH, US

[72] LIST, JOHN HOWARD, US

[72] TAO, JASON JIANXIN, US

[72] STEEN, TOD ROBERT, US

[73] GENERAL ELECTRIC COMPANY,

[86] (2797299)

[87] (2797299)

[22] 2012-11-29

[30] US (13/314,303) 2011-12-08

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[11] **2,797,895**  
[13] C

[51] **Int.Cl. H04N 21/238 (2011.01) H04L 29/06 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR ADAPTIVE STREAMING IN A MULTIPATH ENVIRONMENT**

[54] **SYSTEME ET PROCEDE POUR DIFFUSION EN CONTINU ADAPTATIVE DANS UN ENVIRONNEMENT DE TRAJETS MULTIPLES**

[72] GOUACHE, STEPHANE, FR

[72] BICHOT, GUILLAUME, FR

[72] BSILA, AMINE, FR

[73] INTERDIGITAL MADISON PATENT HOLDINGS,

[86] (2797895)

[87] (2797895)

[22] 2012-12-05

[30] EP (11306744.1) 2011-12-22

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[11] **2,797,937**  
[13] C

[51] **Int.Cl. A61K 39/245 (2006.01) A61P 31/22 (2006.01)**

[25] EN

[54] **VACCINES AGAINST HERPES SIMPLEX VIRUS TYPE 2: COMPOSITIONS AND METHODS FOR ELICITING AN IMMUNE RESPONSE**

[54] **VACCINS CONTRE LE VIRUS DE L'HERPES SIMPLEX 2 : COMPOSITIONS ET PROCEDES POUR DECLENCHER UNE REPONSE IMMUNITAIRE**

[72] LONG, DEBORAH, US

[72] FLECHTNER, JESSICA, US

[72] SKOBERNE, MOJCA, US

[72] SIBER, GEORGE R., US

[73] GENOCEA BIOSCIENCES, INC.,

[85] 2012-10-30

[86] 2010-05-24 (PCT/US2010/035998)

[87] (WO2010/135747)

[30] US (61/180,784) 2009-05-22

[30] US (61/235,628) 2009-08-20

[30] US (61/240,626) 2009-09-08

[30] US (61/240,587) 2009-09-08

[30] US (61/305,918) 2010-02-18

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[11] **2,798,117**  
[13] C

[51] **Int.Cl. B09B 3/00 (2006.01) C12M 1/00 (2006.01)**

[25] EN

[54] **TISSUE DIGESTION METHOD AND APPARATUS**

[54] **PROCEDE ET APPAREIL DE DIGESTION DES TISSUS**

[72] WILSON, JOSEPH H., US

[72] WILSON, LUCAS J., US

[73] BIO-RESPONSE SOLUTIONS, INC.,

[85] 2012-10-29

[86] 2011-04-29 (PCT/US2011/034576)

[87] (WO2011/137351)

[30] US (61/329,962) 2010-04-30

---

[11] **2,798,353**  
[13] C

[51] **Int.Cl. E04H 17/16 (2006.01) E04H 17/26 (2006.01)**

[25] EN

[54] **FENCE SYSTEM**

[54] **SYSTEME DE CLOTURE**

[72] RICHISON, CLIFFORD MARION, US

[72] RICHISON, BRETT JASON, US

[73] RICHISON, BRETT JASON,

[73] RICHISON, CLIFFORD MARION,

[86] (2798353)

[87] (2798353)

[22] 2012-12-10

[30] US (13/571,855) 2012-08-10

---

[11] **2,798,513**  
[13] C

[51] **Int.Cl. B65B 25/06 (2006.01) B65B 5/00 (2006.01)**

[25] EN

[54] **METHOD AND FOLDING DEVICE FOR HANDLING L-BOARDS**

[54] **METHODE ET DISPOSITIF PLIANT POUR LA MANUTENTION DE PANNEAUX EN L**

[72] SDAHL, MICHAEL, DE

[72] EHRMANN, ELMAR, DE

[72] KURZ, GUNNAR, DE

[73] MULTIVAC SEPP HAGENMUELLER GMBH & CO. KG,

[86] (2798513)

[87] (2798513)

[22] 2012-12-05

[30] DE (102011121642.5) 2011-12-19

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,799,333**  
[13] C

[51] **Int.Cl. F01N 1/08 (2006.01) F01N 1/06 (2006.01) F02C 9/18 (2006.01)**  
[25] EN  
[54] **COMPACT HIGH-PRESSURE EXHAUST MUFFLING DEVICES**  
[54] **DISPOSITIFS D'AMORTISSEMENT DU BRUIT D'ÉCHAPPEMENT HAUTE PRESSION A FAIBLE ENCOMBREMENT**  
[72] MASON, JEFFREY LEE, US  
[72] SIEG, DANIEL ALEXANDER, US  
[72] GUTIERREZ, CARLOS EDUARDO, US  
[72] GLESSNER, JOHN CARL, US  
[72] LAWLESS, CHARLES STEVE, US  
[73] GENERAL ELECTRIC COMPANY,  
[86] (2799333)  
[87] (2799333)  
[22] 2012-12-20  
[30] US (61/580,675) 2011-12-28  
[30] US (13/347,728) 2012-01-11

---

[11] **2,800,627**  
[13] C

[51] **Int.Cl. B64C 5/08 (2006.01) B64C 23/00 (2006.01)**  
[25] EN  
[54] **PERFORMANCE-ENHANCING WINGLET SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE RELATIFS A UNE AILETTE SUSCEPTIBLE D'AMELIORER LE RENDEMENT**  
[72] ROMAN, DINO L., US  
[72] VASSBERG, JOHN C., US  
[72] FRIEDMAN, DOUGLAS M., US  
[72] MALACHOWSKI, ADAM P., US  
[72] VEGTER, CHRISTOPHER A., US  
[73] THE BOEING COMPANY,  
[86] (2800627)  
[87] (2800627)  
[22] 2013-01-07  
[30] US (13/436,355) 2012-03-30

---

[11] **2,801,490**  
[13] C

[51] **Int.Cl. G02C 7/04 (2006.01)**  
[25] EN  
[54] **FRACTAL FEATURES FOR ENHANCED TEAR EXCHANGE**  
[54] **CARACTERISTIQUES LACRYMAL AMELIORE**  
[72] HOFMANN, GREGORY J., US  
[72] JUBIN, PHILIPPE F., US  
[73] JOHNSON & JOHNSON VISION CARE, INC.,  
[86] (2801490)  
[87] (2801490)  
[22] 2013-01-09  
[30] US (13/352,898) 2012-01-18

---

[11] **2,803,133**  
[13] C

[51] **Int.Cl. C01B 11/02 (2006.01) A61L 9/04 (2006.01) B01J 7/00 (2006.01) C02F 1/50 (2006.01)**  
[25] EN  
[54] **A DEVICE FOR FACILITATING A CHEMICAL REACTION**  
[54] **DISPOSITIF DESTINE A FACILITER UNE REACTION CHIMIQUE**  
[72] SCHROETER, TODD, US  
[72] HOUSE, LEONARD, US  
[73] SCHROETER, TODD,  
[73] HOUSE, LEONARD,  
[85] 2012-12-18  
[86] 2011-06-18 (PCT/US2011/041011)  
[87] (WO2011/160104)  
[30] US (61/397,931) 2010-06-18

---

[11] **2,803,599**  
[13] C

[51] **Int.Cl. C12N 15/53 (2006.01) C12N 9/02 (2006.01) C12N 15/82 (2006.01)**  
[25] EN  
[54] **ACCUMULATION OF OMEGA-7 FATTY ACIDS IN PLANT SEEDS**  
[54] **ACCUMULATION D'ACIDES GRAS OMEGA 7 DANS DES GRAINES**  
[72] SHANKLIN, JOHN, US  
[72] NGUYEN, TAM HUU, US  
[72] WALSH, TERENCE A., US  
[72] WHITTLE, EDWARD J., US  
[72] PIDKOWICH, MARK S., CA  
[73] DOW AGROSCIENCES LLC,  
[73] BROOKHAVEN SCIENCE ASSOCIATES, LLC,  
[85] 2012-12-20  
[86] 2011-06-24 (PCT/US2011/041759)  
[87] (WO2011/163557)  
[30] US (61/358,318) 2010-06-24

---

[11] **2,803,994**  
[13] C

[51] **Int.Cl. E03F 5/04 (2006.01) E03C 1/22 (2006.01)**  
[25] EN  
[54] **FLOOR DRAIN ASSEMBLY AND METHOD**  
[54] **ASSEMBLAGE DE SIPHON DE SOL ET PROCEDE**  
[72] HULL, ERIC, US  
[73] OATEY CO.,  
[85] 2013-01-29  
[86] 2013-01-23 (PCT/US2013/022713)  
[87] (WO2013/112560)  
[30] US (61/589,556) 2012-01-23

---

[11] **2,804,179**  
[13] C

[51] **Int.Cl. G01S 19/03 (2010.01)**  
[25] EN  
[54] **INDOOR SATELLITE NAVIGATION SYSTEM**  
[54] **SYSTEME DE NAVIGATION PAR SATELLITE INTERIEUR**  
[72] ARIEL, ELIYAHU, IL  
[72] ZIVHON, RAN, IL  
[73] GALILEO SATELLITE NAVIGATION LTD.,  
[85] 2012-12-31  
[86] 2011-07-06 (PCT/IB2011/052990)  
[87] (WO2012/004750)  
[30] US (61/361,537) 2010-07-06

**Brevets canadiens délivrés  
14 janvier 2020**

[11] **2,804,839**  
[13] C

- [51] **Int.Cl. B23P 19/04 (2006.01)**  
[25] EN  
[54] **COLLAR INSTALLATION END EFFECTOR**  
[54] **EFFECTEUR D'EXTREMITE D'INSTALLATION DE COLLET**  
[72] ERICKSON, CHRIS J., US  
[73] THE BOEING COMPANY,  
[86] (2804839)  
[87] (2804839)  
[22] 2013-02-05  
[30] US (13/437,532) 2012-04-02

[11] **2,805,132**  
[13] C

- [51] **Int.Cl. C07K 1/18 (2006.01) C07K 1/36 (2006.01)**  
[25] EN  
[54] **PURIFICATION OF ANTIBODY FRAGMENTS**  
[54] **PURIFICATION DE FRAGMENTS D'ANTICORPS**  
[72] SPITALI, MARIANGELA, GB  
[72] SYMMONS, JONATHAN, GB  
[72] WHITCOMBE, RICHARD, GB  
[72] PEARCE-HIGGINS, MARK ROBERT, GB  
[73] UCB PHARMA, S.A.,  
[85] 2013-01-11  
[86] 2011-07-26 (PCT/EP2011/062837)  
[87] (WO2012/013682)  
[30] GB (1012603.5) 2010-07-27

[11] **2,806,095**  
[13] C

- [51] **Int.Cl. B64C 3/52 (2006.01) B64C 3/18 (2006.01) B64C 11/20 (2006.01) B64C 27/473 (2006.01)**  
[25] EN  
[54] **SHAPE MEMORY ALLOY ACTIVE SPARS FOR BLADE TWIST**  
[54] **LONGERONS ACTIFS EN ALLIAGE A MEMOIRE DE FORME POUR VRILLAGE DE PALE**  
[72] MADSEN, CASEY LYN, US  
[72] CLINGMAN, DANIEL J., US  
[72] BUSHNELL, GLENN S., US  
[73] THE BOEING COMPANY,  
[86] (2806095)  
[87] (2806095)  
[22] 2013-02-14  
[30] US (13/472,695) 2012-05-16

[11] **2,806,287**  
[13] C

- [51] **Int.Cl. H04N 7/173 (2011.01)**  
[25] EN  
[54] **TRANSMISSION APPARATUS AND METHOD, RECEPTION APPARATUS AND METHOD AND TRANSMISSION AND RECEPTION SYSTEM**  
[54] **DISPOSITIF ET PROCEDE D'EMISSION, DISPOSITIF ET PROCEDE DE RECEPTION ET SYSTEME D'EMISSION-RECEPTION**  
[72] YAMAGISHI, YASUAKI, JP  
[72] KITAZATO, NAOHISA, JP  
[73] SONY CORPORATION,  
[85] 2013-01-22  
[86] 2011-08-18 (PCT/JP2011/068677)  
[87] (WO2012/026388)  
[30] US (61/377,802) 2010-08-27  
[30] US (13/071,559) 2011-03-25

[11] **2,806,837**  
[13] C

- [51] **Int.Cl. H04N 7/173 (2011.01)**  
[25] EN  
[54] **RECEIVER, RECEPTION METHOD, TRANSMITTER, TRANSMISSION METHOD, PROGRAM AND BROADCASTING SYSTEM**  
[54] **APPAREIL RECEPTEUR, METHODE DE RECEPTION, APPAREIL EMETTEUR, METHODE D'EMISSION, PROGRAMME ET SYSTEME DE RADIODIFFUSION**  
[72] KITAZATO, NAOHISA, JP  
[72] HATTORI, SHINOBU, JP  
[72] DEWA, YOSHIHARU, JP  
[73] SONY CORPORATION,  
[85] 2013-01-28  
[86] 2011-08-22 (PCT/JP2011/068836)  
[87] (WO2012/029567)  
[30] US (61/378,225) 2010-08-30  
[30] US (13/071,551) 2011-03-25

[11] **2,807,975**  
[13] C

- [51] **Int.Cl. B26D 5/02 (2006.01) B26D 1/30 (2006.01)**  
[25] EN  
[54] **MOVABLE BLADE RELEASE MECHANISM FOR A CUTTING TOOL**  
[54] **MECANISME DE LIBERATION DE LAME AMOVIBLE POUR UN OUTIL DE COUPE**  
[72] WASON, PETER M., US  
[73] HUBBELL INCORPORATED,  
[86] (2807975)  
[87] (2807975)  
[22] 2013-03-01  
[30] US (13/412,435) 2012-03-05

[11] **2,809,579**  
[13] C

- [51] **Int.Cl. F16H 57/023 (2012.01) B02C 4/42 (2006.01) B02C 7/16 (2006.01) B02C 17/24 (2006.01) F16H 1/22 (2006.01) F16H 57/02 (2012.01)**  
[25] FR  
[54] **DRIVE MECHANISM AND CORRESPONDING CRUSHER**  
[54] **DISPOSITIF D'ENTRAINEMENT ET BROYEUR CORRESPONDANT**  
[72] LESSARD, FABRICE, FR  
[73] COMPAGNIE ENGRENAGES ET REDUCTEURS - MESSIAN-DURAND,  
[86] (2809579)  
[87] (2809579)  
[22] 2013-03-08  
[30] FR (12 52246) 2012-03-13

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,809,657**  
[13] C

[51] **Int.Cl. A61B 17/70 (2006.01)**  
[25] EN  
[54] **GROWTH DIRECTED VERTEBRAL FIXATION SYSTEM WITH DISTRACTIBLE CONNECTOR(S) AND APICAL CONTROL**  
[54] **SYSTEME DE FIXATION DES VERTEBRES PERMETTANT LA CROISSANCE DE CELLES-CI COMPRENANT UN(DES) CONNECTEUR(S) POUVANT ETRE DETENDUS ET CONTROLE APICAL**  
[72] ELSEBAIE, HAZEM, EG  
[72] AKBARNIA, BEHROOZ, US  
[73] K2M, INC.,  
[85] 2013-02-26  
[86] 2011-08-30 (PCT/US2011/049693)  
[87] (WO2012/030800)  
[30] US (12/873,582) 2010-09-01

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[11] **2,810,031**  
[13] C

[51] **Int.Cl. F01C 21/18 (2006.01) F01C 19/00 (2006.01) F01C 21/00 (2006.01)**  
[25] EN  
[54] **PORT FOR ROTARY INTERNAL COMBUSTION ENGINE**  
[54] **ORIFICE POUR MOTEUR ROTATIF A COMBUSTION INTERNE**  
[72] GEKHT, EUGENE, CA  
[72] BOLDUC, SEBASTIEN, CA  
[72] GAGNON-MARTIN, DAVID, CA  
[72] THOMASSIN, JEAN, CA  
[73] PRATT & WHITNEY CANADA CORP.,  
[86] (2810031)  
[87] (2810031)  
[22] 2013-03-21  
[30] US (13/427,021) 2012-03-22

---

[11] **2,810,379**  
[13] C

[51] **Int.Cl. E04D 1/30 (2006.01) E04D 1/20 (2006.01)**  
[25] FR  
[54] **BITUMEN IMPREGNATED MOULDED CELLULOSE RIDGE AND APPLICATION**  
[54] **FAITIERE EN CELLULOSE MOULEE IMPREGNEE DE BITUME, APPLICATION**  
[72] DERREUMAUX, CHARLES, FR  
[72] KAMIL, MELIH, TR  
[73] ONDULINE,  
[86] (2810379)  
[87] (2810379)  
[22] 2013-03-22  
[30] FR (12 52752) 2012-03-27

---

[11] **2,810,528**  
[13] C

[51] **Int.Cl. C07D 215/22 (2006.01) A61K 31/47 (2006.01) A61K 31/4709 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07D 215/233 (2006.01) C07D 405/12 (2006.01)**  
[25] EN  
[54] **COMPOUNDS AS C-MET KINASE INHIBITORS**  
[54] **COMPOSES A TITRE D'INHIBITEURS DE C-MET KINASES**  
[72] CHEN, GUOQING PAUL, US  
[73] ADVENCHEN LABORATORIES, LLC,  
[85] 2013-03-05  
[86] 2011-09-09 (PCT/US2011/051061)  
[87] (WO2012/034055)  
[30] US (61/381,995) 2010-09-12  
[30] US (13/227,866) 2011-09-08

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[11] **2,810,529**  
[13] C

[51] **Int.Cl. C12M 1/34 (2006.01) G01F 1/74 (2006.01) G01N 29/14 (2006.01) G01N 33/49 (2006.01) G01N 37/00 (2006.01)**  
[25] EN  
[54] **MULTIPLE PHASE FLOW SYSTEM FOR DETECTING AND ISOLATING SUBSTANCES**  
[54] **SYSTEME D'ECOULEMENT MULTIPHASE PERMETTANT DE DETECTER ET D'ISOLER DES SUBSTANCES**  
[72] O'BRIEN, CHRISTINE MARY, US  
[72] GUPTA, SAGAR K., US  
[72] VIATOR, JOHN ANDREW, US  
[72] SENGUPTA, SHRAMIK, US  
[72] MOSLEY, JEFF, US  
[72] ROOD, KYLE, US  
[73] THE CURATORS OF THE UNIVERSITY OF MISSOURI,  
[85] 2013-03-05  
[86] 2011-09-12 (PCT/US2011/051220)  
[87] (WO2012/034120)  
[30] US (61/381,809) 2010-09-10  
[30] US (13/228,428) 2011-09-08

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[11] **2,810,756**  
[13] C

[51] **Int.Cl. G02C 7/02 (2006.01) G02B 26/08 (2006.01)**  
[25] EN  
[54] **CONTOUR FORM CONTROL**  
[54] **DETERMINATION DE LA FORME DU CONTOUR**  
[72] WILDSMITH, CHRISTOPHER, US  
[72] WIDMAN, MICHAEL F., US  
[72] ADAMS, JONATHAN P., US  
[73] JOHNSON & JOHNSON VISION CARE, INC.,  
[86] (2810756)  
[87] (2810756)  
[22] 2013-03-28  
[30] US (61/618,073) 2012-03-30

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,811,075**  
[13] C

[51] **Int.Cl. A61K 39/00 (2006.01) A61M 5/178 (2006.01)**  
[25] EN  
[54] **METHOD OF STORING A VACCINE CONTAINING AN ALUMINUM ADJUVANT**  
[54] **PROCEDE DE STOCKAGE D'UN VACCIN COMPRENANT UN ADJUVANT A BASE D'ALUMINIUM**  
[72] CHACORNAC, ISABELLE, FR  
[72] IKHELEF-GRIBI, NABILA, FR  
[72] RONZON, FREDERIC, FR  
[72] TIREFORT, JULIEN, FR  
[72] LENTSCH GRAF, SANDRINE, FR  
[73] SANOFI PASTEUR,  
[85] 2013-03-11  
[86] 2011-10-17 (PCT/EP2011/068090)  
[87] (WO2012/052394)  
[30] FR (1058464) 2010-10-18  
[30] US (61/454,248) 2011-03-18

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[11] **2,811,103**  
[13] C

[51] **Int.Cl. C12N 15/33 (2006.01) C12N 15/44 (2006.01) C12N 15/63 (2006.01)**  
[25] EN  
[54] **COMPUTATIONALLY OPTIMIZED BROADLY REACTIVE ANTIGENS FOR INFLUENZA**  
[54] **ANTIGENES CONTRE LA GRIPPE A REACTIVITE LARGE OPTIMISES PAR ORDINATEUR**  
[72] ROSS, TED M., US  
[72] GILES, BRENDAN M., US  
[73] UNIVERSITY OF PITTSBURGH-OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATIO,  
[85] 2013-03-11  
[86] 2011-09-09 (PCT/US2011/051072)  
[87] (WO2012/036993)  
[30] US (61/403,407) 2010-09-14

---

[11] **2,811,780**  
[13] C

[51] **Int.Cl. G01C 21/00 (2006.01) G01H 9/00 (2006.01) G01M 3/24 (2006.01)**  
[25] EN  
[54] **AN INTEGRITY MONITORING SYSTEM AND A METHOD OF MONITORING INTEGRITY OF A STATIONARY STRUCTURE**  
[54] **SYSTEME DE CONTROLE D'INTEGRITE ET PROCEDE DE CONTROLE D'INTEGRITE D'UNE STRUCTURE STATIONNAIRE**  
[72] HANSEN, HENRIK ROLAND, DK  
[72] HOJSGAARD, LARS, DK  
[72] MAIWALD, DIRK, DE  
[73] NKT CABLES GROUP A/S,  
[73] ENERGINET.DK,  
[85] 2013-03-20  
[86] 2011-11-03 (PCT/DK2011/050415)  
[87] (WO2012/059108)  
[30] DK (PA 2010 01005) 2010-11-05

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[11] **2,813,044**  
[13] C

[51] **Int.Cl. H01R 43/048 (2006.01) E21B 36/04 (2006.01) H01R 43/00 (2006.01)**  
[25] EN  
[54] **METHODS FOR JOINING INSULATED CONDUCTORS**  
[54] **PROCEDES POUR ASSEMBLER DES CONDUCTEURS ISOLES**  
[72] D'ANGELO, CHARLES, US  
[72] HARMASON, PATRICK SILAS, US  
[73] SALAMANDER SOLUTIONS INC.,  
[85] 2013-03-27  
[86] 2011-10-07 (PCT/US2011/055213)  
[87] (WO2012/048191)  
[30] US (61/391,399) 2010-10-08

---

[11] **2,813,149**  
[13] C

[51] **Int.Cl. A41D 19/00 (2006.01) A41D 19/04 (2006.01) C08F 2/44 (2006.01) C08F 236/06 (2006.01) C08K 3/22 (2006.01) C08L 9/02 (2006.01) C08L 33/20 (2006.01)**  
[25] EN  
[54] **ELASTOMER RUBBER GLOVES FOR CLEAN ROOM USE WHICH DOES NOT USE VULCANIZATION ACCELERATOR AND SULFUR**  
[54] **GANTS EN CAOUTCHOUC ELASTOMERE DESTINES A UNE UTILISATION EN SALLE BLANCHE QUI NE COMPORTENT PAS D'ACCELERATEUR DE VULCANISATION ET DE SOUFRE**  
[72] KHOO, SIONG HUI, MY  
[72] LIM, LAWRENCE SIAU TIAN, MY  
[72] LEE, SEEK PING, MY  
[72] ONG, ENG LONG, MY  
[72] ENOMOTO, NORIHIDE, JP  
[73] KOSSAN SDN BHD,  
[73] MIDORI ANZEN CO., LTD,  
[85] 2013-03-28  
[86] 2011-09-30 (PCT/JP2011/073270)  
[87] (WO2012/043893)  
[30] JP (2010-221263) 2010-09-30

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[11] **2,813,338**  
[13] C

[51] **Int.Cl. F01K 13/00 (2006.01) F01K 3/00 (2006.01) F01K 25/00 (2006.01)**  
[25] EN  
[54] **METHOD OF OPERATION FOR COGENERATION AND TRI-GENERATION SYSTEMS.**  
[54] **METHODE D'EXPLOITATION DE SYSTEMES DE COGENERATION ET DE TRIGENERATION.**  
[72] CORBETT-LOURENCO, CLAUDINE, CA  
[72] ZACCARDELLI, LUIGI, CA  
[72] LOURENCO, JOSE, CA  
[73] LOURENCO TECHNOLOGY CORPORATION,  
[86] (2813338)  
[87] (2813338)  
[22] 2013-04-15

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,813,389**  
[13] C

[51] **Int.Cl. A61B 18/14 (2006.01)**  
[25] EN  
[54] **SURGICAL INSTRUMENT WITH JAW MEMBER**  
[54] **INSTRUMENT CHIRURGICAL DOTE D'UN ELEMENT A MACHOIRES**  
[72] DAVISON, MARK A., US  
[72] BOUDREAU, CHAD P., US  
[72] KILLINGER, SCOTT B., US  
[72] BATROSS, JONATHAN T., US  
[72] GIORDANO, JAMES R., US  
[72] TREES, GREGORY A., US  
[72] WANG, BINGSHI, US  
[72] VOEGELE, AARON C., US  
[72] NORVELL, DAVID K., US  
[72] BARBERA, NATHANIEL F., US  
[72] FELDER, KEVIN D., US  
[73] ETHICON ENDO-SURGERY, INC.,  
[85] 2013-03-28  
[86] 2011-09-27 (PCT/US2011/053413)  
[87] (WO2012/044606)  
[30] US (12/896,411) 2010-10-01  
[30] US (12/896,420) 2010-10-01

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[11] **2,814,886**  
[13] C

[51] **Int.Cl. H01M 2/00 (2006.01) F28D 21/00 (2006.01) F28F 3/08 (2006.01)**  
[25] EN  
[54] **HEAT EXCHANGER AND BATTERY UNIT STRUCTURE FOR COOLING THERMALLY CONDUCTIVE BATTERIES**  
[54] **ECHANGEUR DE CHALEUR ET STRUCTURE D'UNITE DE BATTERIE POUR REFROIDIR DES BATTERIES THERMIQUEMENT CONDUCTRICES**  
[72] BURGERS, JOHN G., CA  
[72] MARTIN, MICHAEL A., CA  
[73] DANA CANADA CORPORATION,  
[85] 2013-04-16  
[86] 2011-10-27 (PCT/CA2011/050672)  
[87] (WO2012/055044)  
[30] US (61/407,972) 2010-10-29

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[11] **2,815,213**  
[13] C

[51] **Int.Cl. C12N 5/071 (2010.01)**  
[25] EN  
[54] **CULTURED PANCREAS ISLETS**  
[54] **CULTURE D'ILOTS DE PANCREAS**  
[72] TAYLOR, MICHAEL J., US  
[72] BAICU, SIMONA C., US  
[73] LIFELINE SCIENTIFIC, INC.,  
[85] 2013-04-18  
[86] 2011-10-21 (PCT/US2011/057234)  
[87] (WO2012/054811)  
[30] US (61/405,811) 2010-10-22

---

[11] **2,815,412**  
[13] C

[51] **Int.Cl. B65B 25/14 (2006.01) A47K 10/16 (2006.01) B65B 17/00 (2006.01) B65B 61/06 (2006.01) B65H 18/28 (2006.01) B65H 19/22 (2006.01) B65H 67/00 (2006.01) B65H 75/02 (2006.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR CONVERTING AND PACKAGING CORELESS PAPER PRODUCTS**  
[54] **PROCEDES ET SYSTEMES POUR CONVERTIR ET EMBALLER DES PRODUITS DE PAPIER SANS NOYAU**  
[72] TRAINER, NICHOLAS P., JR., US  
[72] STAFFORD, THOMAS I., US  
[72] BIGARI, RICHARD J., US  
[73] GPCP IP HOLDINGS LLC,  
[86] (2815412)  
[87] (2815412)  
[22] 2013-05-08  
[30] US (61/644,195) 2012-05-08

---

[11] **2,815,517**  
[13] C

[51] **Int.Cl. C08J 5/06 (2006.01) B32B 5/28 (2006.01)**  
[25] EN  
[54] **BICOMPONENT FIBERS CONTAINING NANO-FILAMENTS FOR USE IN OPTICALLY TRANSPARENT COMPOSITES**  
[54] **FIBRES A DEUX COMPOSANTS CONTENANTS DES NANOFILAMENTS A UTILISER DANS DES COMPOSITES OPTIQUEMENT TRANSPARENTS**  
[72] WILENSKI, MARK S., US  
[72] KOZAR, MICHAEL P., US  
[73] THE BOEING COMPANY,  
[86] (2815517)  
[87] (2815517)  
[22] 2013-05-09  
[30] US (13/523,108) 2012-06-14

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[11] **2,815,974**  
[13] C

[51] **Int.Cl. G06F 1/16 (2006.01)**  
[25] EN  
[54] **TOUCH SCREEN PROTECTOR**  
[54] **PROTECTEUR D'ECRAN TACTILE**  
[72] LEONHARD, MICHAEL, US  
[72] LIN, JONATHAN, US  
[72] HUANG, STEVEN, TW  
[73] AEVOE INTERNATIONAL LTD.,  
[86] (2815974)  
[87] (2815974)  
[22] 2013-05-15  
[30] US (61/650,317) 2012-05-22  
[30] US (13/841,337) 2013-03-15

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,816,250**  
[13] C

[51] **Int.Cl. C13K 1/02 (2006.01) B01J 3/00 (2006.01) C07H 1/00 (2006.01) C12P 7/10 (2006.01)**  
[25] EN  
[54] **PROCESS FOR CONTROLLED LIQUEFACTION OF A BIOMASS FEEDSTOCK BY TREATMENT IN HOT COMPRESSED WATER**  
[54] **PROCEDE POUR UNE LIQUEFACTION CONTROLEE D'UNE CHARGE D'ALIMENTATION A BASE DE BIOMASSE PAR UN TRAITEMENT DANS DE L'EAU COMPRIMEE CHAUDE**  
[72] EKMAN, RUNE, SE  
[72] GRAM, ANDREAS, SE  
[72] JOHANNESSON, HAUKUR, SE  
[73] RENMATIX, INC.,  
[85] 2013-04-26  
[86] 2011-10-28 (PCT/SE2011/051292)  
[87] (WO2012/060767)  
[30] SE (1051145-9) 2010-11-01  
[30] US (61/409,269) 2010-11-02

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[11] **2,816,268**  
[13] C

[51] **Int.Cl. B60R 11/00 (2006.01)**  
[25] EN  
[54] **RAIL MOUNTING SYSTEM**  
[54] **SYSTEME DE MONTAGE DE BARRES**  
[72] BENDER, TREVOR, US  
[73] ADRIAN STEEL COMPANY,  
[86] (2816268)  
[87] (2816268)  
[22] 2013-05-21  
[30] US (61/649,649) 2012-05-21

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[11] **2,816,536**  
[13] C

[51] **Int.Cl. G06Q 30/02 (2012.01) G06F 17/00 (2019.01)**  
[25] EN  
[54] **E-BOOK ADVERTISEMENT SYSTEM, E-BOOK ADVERTISEMENT METHOD, CLIENT DEVICE, ADVERTISEMENT-PROVISION DEVICE, PROGRAM, INFORMATION-RECORDING MEDIUM, AND E-BOOK UPDATE SYSTEM**  
[54] **SYSTEME DE PUBLICITE DE LIVRE NUMERIQUE, PROCEDE DE PUBLICITE DE LIVRE NUMERIQUE, DISPOSITIF CLIENT, DISPOSITIF DE FOURNITURE DE PUBLICITE, PROGRAMME, SUPPORT D'ENREGISTREMENT D'INFORMATIONS ET SYSTEME DE MISE A JOUR DE LIVRE NUMERIQUE**  
[72] TORII, ATSUSHI, JP  
[73] RAKUTEN, INC.,  
[85] 2013-04-30  
[86] 2011-01-31 (PCT/JP2011/051919)  
[87] (WO2012/063502)  
[30] JP (2010-250294) 2010-11-08

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[11] **2,817,519**  
[13] C

[51] **Int.Cl. C07K 16/18 (2006.01) G01N 33/53 (2006.01) G01N 33/577 (2006.01) G01N 33/68 (2006.01)**  
[25] EN  
[54] **BIN1 EXPRESSION AS A MARKER OF SKELETAL MUSCLE MASS AND NEUROLOGICAL CONDITIONS**  
[54] **EXPRESSION DE BIN1 EN TANT QUE MARQUEUR DE LA MASSE MUSCULAIRE SQUELETTIQUE ET D'ETATS NEUROLOGIQUES**  
[72] SHAW, DARRYL STEVEN, US  
[72] SHAW, NEIL GAVIN, US  
[73] SARCOTEIN DIAGNOSTICS LLC,  
[85] 2013-05-09  
[86] 2011-11-07 (PCT/US2011/059574)  
[87] (WO2012/087437)  
[30] US (61/411,683) 2010-11-09

---

[11] **2,817,736**  
[13] C

[51] **Int.Cl. C05G 3/00 (2006.01)**  
[25] EN  
[54] **CROSS-LINKED MODIFIED WAXES FOR CONTROLLED RELEASE FERTILIZERS**  
[54] **CIRES MODIFIEES RETICULEES POUR FERTILISANTS A LIBERATION CONTROLEE**  
[72] HARGROVE, GARRARD LEE, US  
[72] MARUVADA, SRIRAMAKRISHNA, US  
[72] WILSON, ROBERT SCOTT, US  
[72] WYNNYK, NICK P., CA  
[72] XING, BAOZHONG, US  
[73] AGRIMUM U.S. INC.,  
[85] 2013-05-10  
[86] 2011-11-08 (PCT/US2011/059725)  
[87] (WO2012/064705)  
[30] US (61/412,246) 2010-11-10

---

[11] **2,819,569**  
[13] C

[51] **Int.Cl. C08G 18/40 (2006.01) C08G 18/42 (2006.01) C08G 18/48 (2006.01) C08G 18/76 (2006.01) C08G 63/183 (2006.01) C08G 63/668 (2006.01)**  
[25] EN  
[54] **POLYESTER POLYOLS BASED ON AROMATIC DICARBOXYLIC ACIDS**  
[54] **POLYOLS DE POLYESTER A BASE D'ACIDES DICARBOXYLIQUES AROMATIQUES**  
[72] GEHRINGER, LIONEL, FR  
[72] KAMPF, GUNNAR, DE  
[72] BALBO BLOCK, MARCO, DE  
[73] BASF SE,  
[85] 2013-05-31  
[86] 2011-11-28 (PCT/EP2011/071116)  
[87] (WO2012/072540)  
[30] EP (10193476.8) 2010-12-02

Canadian Patents Issued  
January 14, 2020

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[11] **2,820,241**  
[13] C  
[51] **Int.Cl. A61F 9/08 (2006.01) G06T 5/00 (2006.01) H04N 5/30 (2006.01) G02B 27/01 (2006.01)**  
[25] EN  
[54] **AN APPARATUS AND METHOD FOR ENHANCING HUMAN VISUAL PERFORMANCE IN A HEAD WORN VIDEO SYSTEM**  
[54] **APPAREIL ET PROCEDURE D'AMELIORATION DES PERFORMANCES VISUELLES HUMAINES DANS UN SYSTEME VIDEO PORTE SUR LA TETE**  
[72] HILKES, ROBERT G., CA  
[72] JONES, FRANK, CA  
[72] RANKIN, KEVIN, CA  
[73] ESIGHT CORP.,  
[86] (2820241)  
[87] (2820241)  
[22] 2013-06-13  
[30] US (61/659,128) 2012-06-13

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[11] **2,820,374**  
[13] C  
[51] **Int.Cl. A23L 2/39 (2006.01) A23C 9/152 (2006.01) A23C 13/12 (2006.01) A23F 3/00 (2006.01) A23F 5/00 (2006.01) A23G 1/48 (2006.01) A23G 1/50 (2006.01) A23L 2/52 (2006.01) A23L 2/66 (2006.01) C12P 19/14 (2006.01)**  
[25] EN  
[54] **INSTANT DRINK POWDERS COMPRISING HYDROLYZED WHOLE GRAIN**  
[54] **POUDRES POUR BOISSON INSTANTANEE COMPRENANT DES CEREALES COMPLETES HYDROLYSEES**  
[72] SCHAFFER-LEQUART, CHRISTELLE, CH  
[72] ROGER, OLIVIER YVES, CH  
[72] WAVREILLE, ANNE-SOPHIE, CH  
[72] WEINGAND-ZIADE, ALEXANDRA, FR  
[72] MARJANOVIC, NICOLAS, CH  
[72] TE BIESEBEKE, ROB, CH  
[73] SOCIETE DES PRODUITS NESTLE S.A.,  
[85] 2013-06-06  
[86] 2011-12-07 (PCT/EP2011/072076)  
[87] (WO2012/076601)  
[30] EP (10194212.6) 2010-12-08

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[11] **2,820,467**  
[13] C  
[51] **Int.Cl. G09G 5/00 (2006.01) A01D 75/00 (2006.01) G06F 3/048 (2013.01) G09G 5/34 (2006.01)**  
[25] EN  
[54] **ELECTRONIC CONTROL AND DISPLAY UNIT**  
[54] **MODULE D'AFFICHAGE ET DE COMMANDE ELECTRONIQUE**  
[72] GREVINGA, MARKUS, DE  
[72] LOSCH, MICHAEL, DE  
[73] CLAAS SELBSTFAHRENDE ERNTEMASCHINEN GMBH,  
[86] (2820467)  
[87] (2820467)  
[22] 2013-06-21  
[30] DE (10 2012 107 550.6) 2012-08-17

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[11] **2,821,526**  
[13] C  
[51] **Int.Cl. E04D 13/076 (2006.01)**  
[25] EN  
[54] **ROOF GUTTER COVER WITH VARIABLE APERTURE SIZE**  
[54] **COUVERTURE DE GOUTTIERE DE TOIT A GROSSEUR VARIABLE DE L'OUVERTURE**  
[72] IANNELLI, ANTHONY M., US  
[73] IANNELLI, ANTHONY M.,  
[86] (2821526)  
[87] (2821526)  
[22] 2013-07-23  
[30] US (13/557408) 2012-07-25

---

[11] **2,821,799**  
[13] C  
[51] **Int.Cl. C12N 5/00 (2006.01) A61K 9/20 (2006.01)**  
[25] EN  
[54] **DRY GRANULATED CELL CULTURE MEDIA**  
[54] **MILIEU DE CULTURE CELLULAIRE GRANULAIRE DESHYDRATE**  
[72] RAYNER-BRANDES, MICHAEL HOWARD, DE  
[72] ZHAO, XIAOJIAN (DAVID), US  
[73] MERCK PATENT GMBH,  
[85] 2013-06-14  
[86] 2011-11-18 (PCT/EP2011/005830)  
[87] (WO2012/079679)  
[30] US (61/423,700) 2010-12-16

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[11] **2,822,038**  
[13] C  
[51] **Int.Cl. F04C 2/107 (2006.01) F04C 14/24 (2006.01) F04C 15/00 (2006.01)**  
[25] FR  
[54] **PUMPING FACILITY FOR A DEEP WELL**  
[54] **INSTALLATION DE POMPAGE POUR Puits PROFOND**  
[72] L'HARIDON, CHRISTOPHE, FR  
[73] PCM TECHNOLOGIES,  
[86] (2822038)  
[87] (2822038)  
[22] 2013-07-24  
[30] FR (12 57645) 2012-08-06

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[11] **2,822,040**  
[13] C  
[51] **Int.Cl. C07F 9/32 (2006.01) A61K 31/662 (2006.01) C07F 9/36 (2006.01)**  
[25] EN  
[54] **PHOSPHOROUS DERIVATIVES AS CHEMOKINE RECEPTOR MODULATORS**  
[54] **DERIVES PHOSPHOREUX EN TANT QUE MODULATEURS DE RECEPTEUR DE CHIMIOKINE**  
[72] YUAN, HAIQING, US  
[72] BEARD, RICHARD L., US  
[72] LIU, XIAOXIA, US  
[72] DONELLO, JOHN E., US  
[72] VISWANATH, VEENA, US  
[72] GARST, MICHAEL E., US  
[73] ALLERGAN, INC.,  
[85] 2013-06-17  
[86] 2011-12-09 (PCT/US2011/064242)  
[87] (WO2012/082568)  
[30] US (61/423,940) 2010-12-16

**Brevets canadiens délivrés  
14 janvier 2020**

[11] **2,822,378**  
[13] C

[51] **Int.Cl. C07D 491/107 (2006.01) A61K 31/4184 (2006.01) A61K 31/4188 (2006.01) A61K 31/4439 (2006.01) A61K 31/506 (2006.01) A61P 25/28 (2006.01) C07D 235/02 (2006.01) C07D 401/04 (2006.01) C07D 401/12 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01) C07D 491/20 (2006.01)**

[25] EN

[54] **COMPOUNDS AND THEIR USE AS BACE INHIBITORS**

[54] **COMPOSES ET LEUR UTILISATION EN TANT QU'INHIBITEURS DE BACE**

[72] CSJERNYIK, GABOR, GB  
[72] KARLSTROM, SOFIA, GB  
[72] KERS, ANNIKA, GB  
[72] KOLMODIN, KARIN, GB  
[72] NYLOF, MARTIN, SE  
[72] OHBERG, LISELOTTE, GB  
[72] RAKOS, LASZLO, GB  
[72] SANDBERG, LARS, GB  
[72] SEHGELMEBLE, FERNANDO, GB  
[72] SODERMAN, PETER, GB  
[72] SWAHN, BRITT-MARIE, GB  
[72] VON BERG, STEFAN, SE  
[73] ASTRAZENECA AB,  
[85] 2013-06-19  
[86] 2011-12-21 (PCT/SE2011/051555)  
[87] (WO2012/087237)  
[30] US (61/425,852) 2010-12-22  
[30] US (61/529,620) 2011-08-31

[11] **2,823,008**  
[13] C

[51] **Int.Cl. C04B 18/02 (2006.01) C04B 22/14 (2006.01)**

[25] EN

[54] **METHOD FOR IN-SITU MANUFACTURE OF A LIGHTWEIGHT FLY ASH BASED AGGREGATE**

[54] **PROCEDE DE FABRICATION IN SITU D'UN AGREGAT LEGER A BASE DE CENDRES VOLANTES**

[72] PEREZ-PENA, MARIANELA, US  
[73] UNITED STATES GYPSUM COMPANY,  
[85] 2013-06-25  
[86] 2011-12-13 (PCT/US2011/064561)  
[87] (WO2012/091915)  
[30] US (61/428,819) 2010-12-30  
[30] US (13/232,128) 2011-09-14

[11] **2,823,442**  
[13] C

[51] **Int.Cl. H03M 13/29 (2006.01) H03M 13/39 (2006.01) H03M 13/41 (2006.01)**

[25] FR

[54] **DECODING METHOD AND DECODER**

[54] **PROCEDE DE DECODAGE ET DECODEUR**

[72] PREVOST, RAOUL, FR  
[72] BONACCI, DAVID, FR  
[72] COULON, MARTIAL, FR  
[72] TOURNERET, JEAN-YVES, FR  
[72] LE MAITRE, JULIA, FR  
[72] MILLERIOUX, JEAN-PIERRE, FR  
[73] CENTRE NATIONAL D'ETUDES SPATIALES,  
[85] 2013-06-25  
[86] 2012-01-03 (PCT/EP2012/050046)  
[87] (WO2012/093115)  
[30] FR (1150018) 2011-01-03

[11] **2,824,360**  
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4985 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **6,7-DIHYDRO-PYRAZOLO[1,5-A]PYRAZIN-4-YLAMINE DERIVATIVES USEFUL AS INHIBITORS OF BETA-SECRETASE (BACE)**

[54] **DERIVES DE 6,7-DIHYDRO-PYRAZOLO[1,5-A]PYRAZIN-4-YLAMINE UTILES EN TANT QU'INHIBITEURS DE BETA-SECRETASE (BACE)**

[72] TRABANCO-SUAREZ, ANDRES AVELINO, ES  
[72] GIJSEN, HENRICUS JACOBUS MARIA, BE  
[72] VAN GOOL, MICHIEL LUC MARIA, ES  
[72] VEGA RAMIRO, JUAN ANTONIO, ES  
[72] DELGADO-JIMENEZ, FRANCISCA, ES  
[73] JANSSEN PHARMACEUTICA NV,  
[85] 2013-07-10  
[86] 2012-02-29 (PCT/EP2012/053455)  
[87] (WO2012/117027)  
[30] EP (11156463.9) 2011-03-01

[11] **2,824,779**  
[13] C

[51] **Int.Cl. C07D 223/16 (2006.01) A61K 31/55 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07D 403/10 (2006.01)**

[25] EN

[54] **SUBSTITUTED BENZOAZEPINES AS TOLL-LIKE RECEPTOR MODULATORS**

[54] **BENZOAZEPINES SUBSTITUEES UTILISABLES COMME MODULATEURS DES RECEPTEURS DE TYPE TOLL**

[72] HOWBERT, JAMES JEFFRY, US  
[72] HERSHBERG, ROBERT, US  
[72] BURGESS, LAURENCE E., US  
[72] YANG, HONG WOON, US  
[73] ARRAY BIOPHARMA, INC.,  
[73] VENTIRX PHARMACEUTICALS, INC.,  
[85] 2013-07-12  
[86] 2012-01-12 (PCT/US2012/021110)  
[87] (WO2012/097173)  
[30] US (61/432,068) 2011-01-12

[11] **2,825,198**  
[13] C

[51] **Int.Cl. A61B 17/80 (2006.01)**

[25] EN

[54] **EXPANDABLE BONE FIXATION IMPLANT**

[54] **IMPLANT EXPANSIBLE DE FIXATION D'OS**

[72] KANG, PHILLIP, US  
[72] GRADY, MARK P., US  
[73] DEPUY SYNTHES PRODUCTS, LLC,  
[73] DEPUY SYNTHES PRODUCTS, INC.,  
[85] 2013-07-17  
[86] 2012-01-25 (PCT/US2012/022465)  
[87] (WO2012/103164)  
[30] US (61/436,028) 2011-01-25

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,825,275**  
[13] C

[51] **Int.Cl. C07C 317/44 (2006.01) A61K 31/165 (2006.01) A61P 25/00 (2006.01) A61P 25/26 (2006.01) C07C 315/02 (2006.01)**

[25] FR

[54] **LAUFLUMIDE AND THE ENANTIOMERS THEREOF, METHOD FOR PREPARING SAME AND THERAPEUTIC USES THEREOF**

[54] **LA LAUFLUMIDE ET SES ENANTIOMERES, PREPARATION ET UTILISATIONS THERAPEUTIQUES**

[72] KONOFAL, ERIC, FR

[73] NLS PHARMA AG,

[85] 2013-07-19

[86] 2012-01-20 (PCT/EP2012/050881)

[87] (WO2012/098235)

[30] FR (1150455) 2011-01-20

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[11] **2,825,624**  
[13] C

[51] **Int.Cl. A61B 18/02 (2006.01)**

[25] EN

[54] **APPARATUS AND METHODS FOR TREATMENT OF OBSTRUCTIVE SLEEP APNEA UTILIZING CRYOLYSIS OF ADIPOSE TISSUES**

[54] **APPAREIL ET METHODES DE TRAITEMENT DE L'APNEE OBSTRUCTIVE DU SOMMEIL FAISANT APPEL A LA CRYOLYSE DES TISSUS ADIPEUX**

[72] GONZALES, DONALD A., US

[72] NATALE, ANTHONY, US

[73] CRYOSA, INC.,

[85] 2013-07-24

[86] 2012-01-26 (PCT/US2012/022697)

[87] (WO2012/103315)

[30] US (61/436,712) 2011-01-27

[30] US (61/441,207) 2011-02-09

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[11] **2,825,761**  
[13] C

[51] **Int.Cl. H04N 19/52 (2014.01) H04N 19/159 (2014.01) H04N 19/30 (2014.01)**

[25] EN

[54] **MOVING PICTURE CODING METHOD, MOVING PICTURE CODING APPARATUS, MOVING PICTURE DECODING METHOD, MOVING PICTURE DECODING APPARATUS, AND MOVING PICTURE CODING AND DECODING APPARATUS**

[54] **PROCEDE DE CODAGE D'UNE IMAGE ANIMEE, APPAREIL DE CODAGE D'UNE IMAGE ANIMEE, PROCEDE DE DECODAGE D'UNE IMAGE ANIMEE, APPAREIL DE DECODAGE D'UNE IMAGE ANIMEE ET APPAREIL DE CODAGE ET DE DECODAGE D'UNE IMAGE ANIMEE**

[72] SUGIO, TOSHIYASU, JP

[72] NISHI, TAKAHIRO, JP

[72] SHIBAHARA, YOUJI, JP

[72] TANIKAWA, KYOKO, JP

[72] SASAI, HISAO, JP

[72] MATSUNOBU, TORU, JP

[72] TERADA, KENGO, JP

[73] TAGIVAN II LLC,

[85] 2013-07-25

[86] 2012-11-01 (PCT/JP2012/007006)

[87] (WO2013/065308)

[30] US (61/554,598) 2011-11-02

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[11] **2,827,729**  
[13] C

[51] **Int.Cl. E02F 3/96 (2006.01) E02F 9/22 (2006.01)**

[25] EN

[54] **UNIVERSAL CONTROL SCHEME FOR MOBILE HYDRAULIC EQUIPMENT AND METHOD FOR ACHIEVING THE SAME**

[54] **PROGRAMME DE COMMANDE UNIVERSEL POUR EQUIPEMENT HYDRAULIQUE MOBILE ET PROCEDE DE REALISATION ASSOCIE**

[72] RAMUN, JOHN R., US

[73] RAMUN, JOHN R.,

[85] 2013-08-19

[86] 2012-02-27 (PCT/US2012/025994)

[87] (WO2012/118648)

[30] US (61/448,448) 2011-03-02

[30] US (13/181,179) 2011-07-12

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[11] **2,828,162**  
[13] C

[51] **Int.Cl. G01N 33/52 (2006.01) A61B 10/00 (2006.01) B01L 3/00 (2006.01)**

[25] EN

[54] **SOLID SUPPORT AND METHOD OF RECOVERING BIOLOGICAL MATERIAL THEREFROM**

[54] **SUPPORT SOLIDE ET PROCEDE DE RECUPERATION DE MATERIAU BIOLOGIQUE A PARTIR DE CELUI-CI**

[72] HORTON, JEFFREY KENNETH, GB

[72] TATNELL, PETER JAMES, GB

[72] STUBBS, SIMON LAURENCE JOHN, GB

[73] GE HEALTHCARE UK LIMITED,

[85] 2013-08-23

[86] 2012-02-24 (PCT/EP2012/053170)

[87] (WO2012/113911)

[30] GB (1103256.2) 2011-02-25

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[11] **2,828,635**  
[13] C

[51] **Int.Cl. A61K 31/137 (2006.01) A61K 9/00 (2006.01)**

[25] EN

[54] **PARENTERAL ADMINISTRATION OF TAPENTADOL**

[54] **ADMINISTRATION PARENTERALE DE TAPENTADOL**

[72] CHRISTOPH, THOMAS, DE

[72] INGHELBRECHT, SABINE KARINE KATRIEN, BE

[72] EMBRECHTS, ROGER CAROLUS AUGUSTA, BE

[72] SCHILLER, MARC, DE

[72] SCHIENE, KLAUS, DE

[72] REINHOLD, ULRICH, DE

[72] WULSTEN, EVA, DE

[72] BLOMS-FUNKE, PETRA, DE

[72] FEIL, ULRICH, DE

[73] GRUNENTHAL GMBH,

[85] 2013-08-29

[86] 2012-03-02 (PCT/EP2012/000905)

[87] (WO2012/119728)

[30] US (61/449,317) 2011-03-04

[30] EP (11003602.7) 2011-05-03

**Brevets canadiens délivrés  
14 janvier 2020**

[11] **2,831,542**  
[13] C

- [51] **Int.Cl. C13K 1/04 (2006.01)**  
[25] EN  
[54] **METHOD FOR MANUFACTURING SUGAR SOLUTION**  
[54] **PROCEDE DE FABRICATION D'UNE SOLUTION DE SUCRE**  
[72] MINAMINO, ATSUSHI, JP  
[72] KURIHARA, HIROYUKI, JP  
[72] YAMADA, KATSUSHIGE, JP  
[73] TORAY INDUSTRIES, INC.,  
[85] 2013-09-26  
[86] 2012-03-28 (PCT/JP2012/058048)  
[87] (WO2012/133477)  
[30] JP (2011-071959) 2011-03-29

[11] **2,831,695**  
[13] C

- [51] **Int.Cl. F28G 1/16 (2006.01) F22B 37/48 (2006.01) F28G 15/02 (2006.01)**  
[25] EN  
[54] **CLEANING OF HEAT EXCHANGER CORE**  
[54] **NETTOYAGE DE NOYAU D'ECHANGEUR THERMIQUE**  
[72] WATSON, MICHAEL, GB  
[73] WATSON, MICHAEL,  
[85] 2013-09-27  
[86] 2012-03-23 (PCT/IB2012/051402)  
[87] (WO2012/131552)  
[30] GB (1105164.6) 2011-03-28

[11] **2,834,040**  
[13] C

- [51] **Int.Cl. A61K 38/38 (2006.01) A61K 9/51 (2006.01) A61K 31/436 (2006.01) A61M 25/00 (2006.01) A61P 9/10 (2006.01)**  
[25] EN  
[54] **INTRAVASCULAR DELIVERY OF NANOPARTICLE COMPOSITIONS AND USES THEREOF**  
[54] **ADMINISTRATION INTRAVASCULAIRE DE COMPOSITIONS DE NANOPARTICULES ET LEURS UTILISATIONS**  
[72] SEWARD, KIRK, US  
[72] DESAI, NEIL P., US  
[73] ABRAXIS BIOSCIENCE, LLC,  
[73] MERCATOR MEDSYSTEMS, INC.,  
[85] 2013-10-22  
[86] 2012-04-27 (PCT/US2012/035626)  
[87] (WO2012/149451)  
[30] US (61/518,084) 2011-04-28  
[30] US (61/557,851) 2011-11-09

[11] **2,834,607**  
[13] C

- [51] **Int.Cl. C08G 65/00 (2006.01)**  
[25] EN  
[54] **AMPHOTERIC POLYMER COMPOSITION**  
[54] **COMPOSITION DE POLYMERE AMPHOTERE**  
[72] AULD, KATHLEEN, US  
[72] BROWN, WARD THOMAS, US  
[72] HENDERSON, KEVIN J., US  
[72] SINGH, ANURIMA, US  
[72] VAN DYK, ANTONY K., US  
[73] ROHM AND HAAS COMPANY,  
[73] DOW GLOBAL TECHNOLOGIES LLC,  
[85] 2013-10-28  
[86] 2012-05-29 (PCT/US2012/039791)  
[87] (WO2012/166691)  
[30] US (61492561) 2011-06-02

[11] **2,835,756**  
[13] C

- [51] **Int.Cl. A61C 19/05 (2006.01) G06T 19/20 (2011.01) A61B 34/10 (2016.01) A61C 5/40 (2017.01) G16H 50/50 (2018.01) A61C 19/04 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR ESTABLISHING THE SHAPE OF THE OCCLUSAL ACCESS CAVITY IN ENDODONTIC TREATMENT**  
[54] **PROCEDE ET SYSTEME POUR ETABLIR LA FORME DE LA CAVITE D'ACCES OCCLUSAL EN TRAITEMENT ENDODONTIQUE**  
[72] VAN LIERDE, CARL, BE  
[72] PATTIJN, VEERLE, BE  
[72] VALLOTTON, PAUL-HENRI, CH  
[73] MAILLEFER INSTRUMENTS HOLDING SARL,  
[73] DENTSPLY IMPLANTS NV,  
[85] 2013-11-12  
[86] 2011-12-12 (PCT/EP2011/072475)  
[87] (WO2012/155998)  
[30] GB (1108002.5) 2011-05-13

[11] **2,836,053**  
[13] C

- [51] **Int.Cl. B64D 13/08 (2006.01) B64D 13/06 (2006.01)**  
[25] FR  
[54] **AIR CONDITIONING SYSTEM FOR AN AIRCRAFT PASSENGER COMPARTMENT**  
[54] **SYSTEME DE CONDITIONNEMENT D'AIR D'UN COMPARTIMENT POUR PASSAGERS D'UN AERONEF**  
[72] HOUSSAYE, LAURENT, FR  
[72] MINEL, LAURENT, FR  
[73] TURBOMECA,  
[85] 2013-11-13  
[86] 2012-05-29 (PCT/FR2012/051196)  
[87] (WO2012/164214)  
[30] FR (1154693) 2011-05-30

[11] **2,836,667**  
[13] C

- [51] **Int.Cl. A61K 38/18 (2006.01)**  
[25] EN  
[54] **FREEZE-DRIED FORMULATIONS OF FGF-18**  
[54] **FORMULATIONS LYOPHILISEES DE FGF-18**  
[72] CERRETI, ALESSANDRA, IT  
[72] DEL RIO, ALESSANDRA, IT  
[73] ARES TRADING S.A.,  
[85] 2013-11-19  
[86] 2012-06-15 (PCT/EP2012/061495)  
[87] (WO2012/172072)  
[30] EP (11170437.5) 2011-06-17  
[30] US (61/499,216) 2011-06-21

[11] **2,837,116**  
[13] C

- [51] **Int.Cl. E04H 15/44 (2006.01) E04H 15/34 (2006.01)**  
[25] EN  
[54] **STRUCTURAL MODULE WITH STOP, COLLAPSIBLE STRUCTURE, AND METHOD OF ERECTING A COLLAPSIBLE STRUCTURE**  
[54] **MODULE STRUCTUREL A BUTEE, STRUCTURE REPLIABLE ET PROCEDE POUR ERIGER UNE STRUCTURE REPLIABLE**  
[72] ZEIGLER, THEODORE R., US  
[73] WORLD SHELTERS, INC.,  
[85] 2013-11-21  
[86] 2012-05-11 (PCT/US2012/037407)  
[87] (WO2012/161983)  
[30] US (13/113,704) 2011-05-23

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,837,832**  
[13] C

[51] **Int.Cl. C04B 7/36 (2006.01)**  
[25] EN  
[54] **SYNTHETIC FORMULATIONS AND METHODS OF MANUFACTURING AND USING THEREOF**  
[54] **FORMULATIONS SYNTHETIQUES ET PROCEDES DE FABRICATION ET D'UTILISATION DE CELLES-CI**  
[72] RIMAN, RICHARD E., US  
[72] NYE, THOMAS E., US  
[72] ATAKAN, VAHIT, US  
[72] VAKIFAHMETOGLU, CEKDAR, US  
[72] LI, QINGHUA, US  
[72] LING, TANG, US  
[73] RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY,  
[85] 2013-11-28  
[86] 2012-06-07 (PCT/US2012/041314)  
[87] (WO2012/170667)  
[30] US (61/495,152) 2011-06-09

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[11] **2,839,514**  
[13] C

[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/06 (2006.01)**  
[25] EN  
[54] **METHOD AND DEVICE FOR APPROXIMATING TISSUE**  
[54] **PROCEDE ET DISPOSITIF POUR LE RAPPROCHEMENT DE TISSUS**  
[72] CROMBIE, JOHN STEPHEN, US  
[72] FLEMING, JAMES A., III, US  
[72] LIBERATORE, JESSICA, US  
[72] YUAN, JIE JENNY, US  
[72] NERING, ROBERT, US  
[73] ETHICON, INC.,  
[85] 2013-12-16  
[86] 2012-06-18 (PCT/US2012/042920)  
[87] (WO2012/177548)  
[30] US (13/163,798) 2011-06-20

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[11] **2,839,709**  
[13] C

[51] **Int.Cl. C07K 5/06 (2006.01) A61K 38/05 (2006.01) A61P 7/00 (2006.01)**  
[25] EN  
[54] **A CHEMICALLY AND METABOLICALLY STABLE DIPEPTIDE POSSESSING POTENT SODIUM CHANNEL BLOCKER ACTIVITY**  
[54] **DIPEPTIDE STABLE D'UN POINT DE VUE CHIMIQUE ET METABOLIQUE CARACTERISE PAR UNE PUISSANTE ACTIVITE INHIBITRICE SUR LES CANAUX SODIQUES**  
[72] JOHNSON, MICHAEL ROSS, US  
[73] PARION SCIENCES, INC.,  
[85] 2013-12-17  
[86] 2012-06-27 (PCT/US2012/044372)  
[87] (WO2013/003444)  
[30] US (61/501,524) 2011-06-27

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[11] **2,840,539**  
[13] C

[51] **Int.Cl. C12N 9/42 (2006.01)**  
[25] FR  
[54] **METHOD FOR THE PRODUCTION OF CELLULASES BY A FILAMENTOUS FUNGUS ADAPTED TO A FERMENTER HAVING A LOW VOLUMETRIC OXYGEN TRANSFER COEFFICIENT K<sub>LA</sub>**  
[54] **PROCEDE DE PRODUCTION DE CELLULASES PAR UN CHAMPIGNON FILAMENTEUX ADAPTE A UN FERMENTEUR AYANT UN FAIBLE COEFFICIENT DE TRANSFERT VOLUMETRIQUE D'OXYGENE K<sub>LA</sub>**  
[72] BEN CHAABANE, FADHEL, FR  
[72] JOURDIER, ETIENNE, FR  
[72] COHEN, CELINE, FR  
[72] CHAUSSEPIED, BERNARD, FR  
[73] INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE,  
[73] AGRO INDUSTRIES RECHERCHE ET DEVELOPPEMENT,  
[73] IFP ENERGIES NOUVELLES,  
[85] 2013-12-27  
[86] 2012-08-02 (PCT/FR2012/000328)  
[87] (WO2013/026964)  
[30] FR (11/02556) 2011-08-19

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[11] **2,841,546**  
[13] C

[51] **Int.Cl. C07D 453/02 (2006.01) A61K 31/439 (2006.01) A61P 25/16 (2006.01) A61P 25/18 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01)**  
[25] EN  
[54] **SALTS OF AZA-BICYCLIC DI-ARYL ETHERS AND METHODS TO MAKE THEM OR THEIR PRECURSORS**  
[54] **SELS D'ETHERS DE DI-ARYLE AZA-BICYCLIQUES ET PROCEDES POUR LES PREPARER OU POUR PREPARER LEURS PRECURSEURS**  
[72] MARTERER, WOLFGANG, CH  
[72] PRASHAD, MAHAVIR, US  
[72] VILLHAUER, EDWIN BERNARD, US  
[72] WAYKOLE, LILADHAR MURLIDHAR, US  
[72] VIVelo, JAMES ANTHONY, US  
[72] SUTTER, BERTRAND, CH  
[72] BIANCHI, JEAN-CLAUDE, CH  
[72] WU, RAEANN, US  
[72] HAR, DENIS, US  
[72] KARPINSKI, PIOTR H., US  
[72] PIGNONE, MASSIMO, CH  
[72] STINGELIN, DORIS, CH  
[72] BUERGER, ECKART, CH  
[73] NOVARTIS AG,  
[85] 2014-01-13  
[86] 2012-07-12 (PCT/EP2012/063712)  
[87] (WO2013/010916)  
[30] US (61/508,147) 2011-07-15

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[11] **2,843,242**  
[13] C

[51] **Int.Cl. C10L 1/14 (2006.01) C10L 1/238 (2006.01) C10L 1/2383 (2006.01) C10L 10/18 (2006.01)**  
[25] EN  
[54] **FUEL COMPOSITIONS**  
[54] **COMPOSITIONS DE CARBURANT**  
[72] REID, JACQUELINE, GB  
[72] COOK, STEPHEN LEONARD, GB  
[73] INNOSPEC LIMITED,  
[85] 2014-01-27  
[86] 2012-08-02 (PCT/GB2012/051881)  
[87] (WO2013/017889)  
[30] GB (1113388.1) 2011-08-03

**Brevets canadiens délivrés  
14 janvier 2020**

[11] **2,843,659**

[13] C

- [51] **Int.Cl. C08G 81/00 (2006.01) C08G 63/64 (2006.01) C08G 63/688 (2006.01) C08J 5/24 (2006.01) C08L 63/00 (2006.01) C08L 67/00 (2006.01) C08L 81/06 (2006.01)**
- [25] EN
- [54] **THERMOSET RESIN COMPOSITIONS WITH INCREASED TOUGHNESS**
- [54] **COMPOSITIONS DE RESINE THERMODURCIE PRESENTANT UNE TENACITE ACCRUE**
- [72] BAIDAK, ALEXANDRE, GB
- [72] BILLAUD, CLAUDE, GB
- [73] CYTEC TECHNOLOGY CORP., [85] 2014-01-30
- [86] 2012-07-25 (PCT/GB2012/051779)
- [87] (WO2013/017843)
- [30] GB (1113196.8) 2011-08-01

[11] **2,843,907**

[13] C

- [51] **Int.Cl. H02J 13/00 (2006.01) B65H 75/38 (2006.01) B65H 75/48 (2006.01) H02G 11/02 (2006.01)**
- [25] EN
- [54] **CONTROL SYSTEM FOR ELECTRICAL CORD REEL**
- [54] **SYSTEME DE COMMANDE POUR BOBINE DE CORDON ELECTRIQUE**
- [72] TRACEY, JAMES B. A., US
- [72] ROSENAU, MARK, US
- [72] HILL, JOSEPH M., III, US
- [72] TRACEY, JOHNATHAN R., US
- [73] GREAT STUFF, INC., [85] 2014-01-31
- [86] 2012-08-03 (PCT/US2012/049628)
- [87] (WO2013/022791)
- [30] US (61/515,727) 2011-08-05
- [30] US (61/582,788) 2012-01-03

[11] **2,844,289**

[13] C

- [51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**
- [25] EN
- [54] **ANTI-FZD10 MONOCLONAL ANTIBODIES AND METHODS FOR THEIR USE**
- [54] **ANTICORPS MONOCLONAUX ANTI-FZD10 ET LEURS PROCEDES D'UTILISATION**
- [72] CUMMINGS, W. JASON, US
- [72] YABUKI, MUNEHISA, US
- [72] LEPPARD, JOHN BENJAMIN, US
- [72] WOOD, CHRISTI L., US
- [72] MAIZELS, NANCY, US
- [72] ALLISON, DANIEL S., US
- [72] TJOELKER, LARRY W., US
- [73] OMEROS CORPORATION, [85] 2014-02-04
- [86] 2012-08-09 (PCT/US2012/050177)
- [87] (WO2013/025446)
- [30] US (61/523,102) 2011-08-12
- [30] US (61/548,110) 2011-10-17

[11] **2,844,494**

[13] C

- [51] **Int.Cl. B65G 43/02 (2006.01) B65G 13/08 (2006.01) B65G 23/08 (2006.01) B65G 39/12 (2006.01)**
- [25] EN
- [54] **CLEANING-IN-PLACE SYSTEM AND SEAL MONITORING**
- [54] **SYSTEME DE NETTOYAGE EN PLACE ET CONTROLE DES JOINTS**
- [72] WOLTERS, LAURENS G.J., NL
- [72] DEGROOT, MICHAEL HENDRIK, US
- [73] MOL BELTING SYSTEMS, INC., [85] 2014-02-06
- [86] 2012-08-13 (PCT/US2012/050503)
- [87] (WO2013/023205)
- [30] US (61/522,587) 2011-08-11
- [30] US (61/590,790) 2012-01-25
- [30] US (61/665,888) 2012-06-28

[11] **2,844,619**

[13] C

- [51] **Int.Cl. A61K 35/51 (2015.01) A61K 35/44 (2015.01) A61K 38/36 (2006.01) A61K 38/48 (2006.01) A61P 9/10 (2006.01)**
- [25] EN
- [54] **TREATMENT OF PERIPHERAL VASCULAR DISEASE USING UMBILICAL CORD TISSUE-DERIVED CELLS**
- [54] **TRAITEMENT D'UNE MALADIE VASCULAIRE PERIPHERIQUE A L'AIDE DE CELLULES DERIVEES D'UN TISSU DU CORDON OMBILICAL**
- [72] BUENSUCESO, CHARITO S., US
- [72] KIHM, ANTHONY J., US
- [72] DHANARAJ, SRIDEVI, US
- [72] ATLAS, ROEE, IL
- [72] NUR, ISRAEL, IL
- [72] MEIDLER, ROBERTO, IL
- [72] BAR, LILIANA, IL
- [73] DEPUY SYNTHES PRODUCTS, LLC, [73] DEPUY SYNTHES PRODUCTS, INC., [85] 2014-02-07
- [86] 2011-08-10 (PCT/US2011/047264)
- [87] (WO2013/022447)

[11] **2,844,862**

[13] C

- [51] **Int.Cl. B66C 23/42 (2006.01) A01G 23/00 (2006.01)**
- [25] EN
- [54] **BOOM STRUCTURE**
- [54] **STRUCTURE DE FLECHE**
- [72] YRJANA, VESA, FI
- [72] HUKKANEN, PENTTI, FI
- [72] HYVONEN, JORMA, FI
- [72] HALONEN, MARKO, FI
- [73] PONSSE OYJ, [85] 2014-02-11
- [86] 2012-07-26 (PCT/FI2012/050755)
- [87] (WO2013/026951)
- [30] FI (20115811) 2011-08-19

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,846,291**  
[13] C

[51] **Int.Cl. B29C 65/82 (2006.01) G01N 3/20 (2006.01)**  
[25] EN  
[54] **A FUSION BEAD TESTING DEVICE AND METHOD OF TESTING A FUSION BEAD**  
[54] **DISPOSITIF ET PROCEDE DE TEST D'UN CORDON DE FUSION**  
[72] BRIDGSTOCK, ERIC, GB  
[72] BAILEY, MICHAEL, GB  
[72] WALKER, ANDREW, GB  
[72] CHRISTOPHER, JORDAN, GB  
[72] JENNINGS, PHILIP, GB  
[73] CONTROLPOINT LTD,  
[85] 2014-02-24  
[86] 2012-08-23 (PCT/GB2012/000681)  
[87] (WO2013/027007)  
[30] GB (1114626.3) 2011-08-24

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[11] **2,846,367**  
[13] C

[51] **Int.Cl. F16K 1/32 (2006.01) B65D 90/54 (2006.01) F16K 1/36 (2006.01) F16K 1/48 (2006.01)**  
[25] EN  
[54] **VALVE SYSTEM**  
[54] **SYSTEME DE SOUPAPE**  
[72] MCCARTER, JAMES H., US  
[73] MCCARTER, JAMES H.,  
[85] 2014-02-24  
[86] 2012-09-07 (PCT/US2012/054142)  
[87] (WO2013/039779)  
[30] US (13/232,404) 2011-09-14

---

[11] **2,846,568**  
[13] C

[51] **Int.Cl. C07D 413/10 (2006.01) A61K 31/5377 (2006.01) A61P 3/04 (2006.01) A61P 25/22 (2006.01) A61P 25/26 (2006.01) A61P 25/30 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01)**  
[25] EN  
[54] **2-(1,2,3-TRIAZOL-2-YL)BENZAMIDE AND 3-(1,2,3-TRIAZOL-2-YL)PICOLINAMIDE DERIVATIVES AS OREXIN RECEPTOR ANTAGONISTS**  
[54] **DERIVES DE 2-(1,2,3-TRIAZOL-2-YL)BENZAMIDE ET DE 3-(1,2,3-TRIAZOL-2-YL)PICOLINAMIDE EN TANT QU'ANTAGONISTES DES RECEPTEURS D'OREXINE**  
[72] BOLLI, MARTIN, CH  
[72] BOSS, CHRISTOPH, CH  
[72] BROTSCHI, CHRISTINE, CH  
[72] HEIDMANN, BIBIA, CH  
[72] SIFFERLEN, THIERRY, CH  
[72] WILLIAMS, JODI T., CH  
[73] IDORSIA PHARMACEUTICALS LTD,  
[85] 2014-02-25  
[86] 2012-11-07 (PCT/IB2012/056218)  
[87] (WO2013/068935)  
[30] IB (PCT/IB2011/054976) 2011-11-08

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[11] **2,847,325**  
[13] C

[51] **Int.Cl. C12N 5/0775 (2010.01)**  
[25] EN  
[54] **METHOD FOR PREPARING INDUCED PARAXIAL MESODERM PROGENITOR (IPAM) CELLS AND THEIR USE**  
[54] **PROCEDE DE PREPARATION DE CELLULES PROGENITRICES DU MESODERME PARAXIAL INDUITES (IPAM) ET LEUR UTILISATION**  
[72] POURQUIE, OLIVIER, FR  
[72] CHAL, JEROME, FR  
[73] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE),  
[73] CNRS (CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE),  
[73] UNIVERSITE DE STRASBOURG,  
[73] ASSOCIATION FRANCAISE CONTRE LES MYOPATHIES,  
[85] 2014-02-28  
[86] 2012-08-29 (PCT/EP2012/066793)  
[87] (WO2013/030243)  
[30] EP (11306080.0) 2011-08-29  
[30] US (61/528,348) 2011-08-29  
[30] EP (12305610.3) 2012-06-01  
[30] US (61/654,120) 2012-06-01

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[11] **2,847,602**  
[13] C

[51] **Int.Cl. G06F 3/0481 (2013.01) G06T 19/00 (2011.01)**  
[25] EN  
[54] **GRAPHICAL USER INTERFACE, COMPUTING DEVICE, AND METHOD FOR OPERATING THE SAME**  
[54] **INTERFACE GRAPHIQUE UTILISATEUR, DISPOSITIF DE CALCUL ET PROCEDE POUR LES FAIRE FONCTIONNER**  
[72] BINDON, ANDREW, GB  
[73] GOOISOFT LIMITED,  
[85] 2014-03-04  
[86] 2012-09-03 (PCT/GB2012/052161)  
[87] (WO2013/034896)  
[30] GB (1115369.9) 2011-09-06

**Brevets canadiens délivrés  
14 janvier 2020**

[11] **2,848,246**  
[13] C

- [51] **Int.Cl. F16K 41/04 (2006.01)**  
[25] EN  
[54] **A LOW EMISSION VALVE ASSEMBLY**  
[54] **ENSEMBLE SOUPAPE A FAIBLE EMISSION**  
[72] NICHOLSON, SPENCER ANDREW, GB  
[72] TOMLINSON, JUSTIN CHARLES, GB  
[72] JACEK, SROKA, GB  
[72] MATTHEW, WEINLE, GB  
[73] PARKER HANNIFIN MANUFACTURING LIMITED,  
[85] 2014-03-10  
[86] 2012-08-31 (PCT/GB2012/052129)  
[87] (WO2013/034891)  
[30] GB (1115376.4) 2011-09-06

[11] **2,848,340**  
[13] C

- [51] **Int.Cl. F16K 31/06 (2006.01) F16K 31/08 (2006.01)**  
[25] EN  
[54] **ELECTROMAGNETIC FLEXURE**  
[54] **FLEXION ELECTROMAGNETIQUE**  
[72] CEBON, DAVID, GB  
[72] ODHAMS, ANDREWS, GB  
[72] HOUGHTON, NEIL, GB  
[72] WYGNANSKI, WLADYSLAW, GB  
[72] MILLER, JONATHAN, GB  
[72] PRESCOTT, ROBERT DAVID, GB  
[72] HENDERSON, LEON MICHAEL, GB  
[72] POTTER, LAURENCE JOHN, GB  
[73] CAMBRIDGE ENTERPRISE LTD,  
[73] HALDEX BRAKE PRODUCTS LTD,  
[73] CAMCON TECHNOLOGY LTD,  
[85] 2014-03-11  
[86] 2012-09-12 (PCT/GB2012/052241)  
[87] (WO2013/038171)  
[30] GB (1115726.0) 2011-09-12

[11] **2,848,341**  
[13] C

- [51] **Int.Cl. C08L 3/02 (2006.01) B01J 13/02 (2006.01) C09D 103/00 (2006.01) D21H 17/28 (2006.01) D21H 17/29 (2006.01) D21H 19/54 (2006.01)**  
[25] EN  
[54] **STABLE AQUEOUS DISPERSIONS COMPRISING COMPLEXED STARCH**  
[54] **DISPERSIONS AQUEUSES STABLES COMPRENANT DE L'AMIDON COMPLEXE**  
[72] BASTIOLI, CATIA, IT  
[72] CAPUZZI, LUIGI, IT  
[72] MAGISTRALI, PAOLO, IT  
[73] NOVAMONT S.P.A.,  
[85] 2014-03-11  
[86] 2012-09-19 (PCT/EP2012/068433)  
[87] (WO2013/041561)  
[30] IT (MI2011A001680) 2011-09-19  
[30] IT (MI2012A001253) 2012-07-18

[11] **2,848,370**  
[13] C

- [51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/04 (2006.01) A61N 1/32 (2006.01) A61N 1/34 (2006.01)**  
[25] EN  
[54] **DEVICES AND SYSTEMS FOR TREATING PAIN WITH ELECTRICAL STIMULATION**  
[54] **DISPOSITIFS ET SYSTEMES POUR TRAITER LA DOULEUR PAR STIMULATION ELECTRIQUE**  
[72] BACHINSKI, THOMAS JEROME, US  
[72] SILVOLA, DAIN, US  
[72] MOORE, MICHAEL, US  
[72] DAVE, JAY, US  
[72] WINN, JOSEPH, US  
[73] DJO, LLC,  
[85] 2014-03-11  
[86] 2012-08-08 (PCT/US2012/050003)  
[87] (WO2013/043267)  
[30] US (61/538,015) 2011-09-22  
[30] US (61/658,756) 2012-06-12

[11] **2,848,381**  
[13] C

- [51] **Int.Cl. B02C 23/08 (2006.01) B01D 21/28 (2006.01) B01D 59/00 (2006.01) B07B 13/00 (2006.01) B07C 5/00 (2006.01)**  
[25] EN  
[54] **DEVICES, SYSTEMS, AND METHODS FOR PROCESSING HETEROGENEOUS MATERIALS**  
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DE TRAITEMENT DE MATERIAUX HETEROGENES**  
[72] COATES, JAMES A., US  
[72] SCRIVEN, DAVID H., US  
[72] COATES, CHARLES, US  
[72] COATES, ERIC, US  
[73] PILGRIM, MICHAEL J.,  
[85] 2014-03-11  
[86] 2012-09-13 (PCT/US2012/055157)  
[87] (WO2013/040203)  
[30] US (61/535,253) 2011-09-15  
[30] US (61/593,741) 2012-02-01

[11] **2,848,946**  
[13] C

- [51] **Int.Cl. F01K 13/02 (2006.01) F01C 20/06 (2006.01) F01K 25/08 (2006.01)**  
[25] EN  
[54] **IMPROVED ORC HEAT ENGINE**  
[54] **MOTEUR A CHALEUR A CYCLE DE RANKINE ORGANIQUE AMELIORE**  
[72] BANNISTER, JOHN JOSEPH, GB  
[72] BANNISTER, TIMOTHY NATHAN, GB  
[72] BRIGHT, NEIL STAFFORD, GB  
[72] HENSHAW, IAIN JAMES, GB  
[73] IGEN TECHNOLOGIES INC.,  
[85] 2014-03-17  
[86] 2012-09-19 (PCT/GB2012/052311)  
[87] (WO2013/041857)  
[30] GB (1116158.5) 2011-09-19

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,848,978**  
[13] C

[51] **Int.Cl. C08F 220/30 (2006.01) A61L 27/16 (2006.01)**  
[25] EN  
[54] **HYDROPHOBIC INTRAOCULAR LENS**  
[54] **LENTILLE INTRAOCULAIRE HYDROPHOBE**  
[72] REBOUL, ADAM, US  
[72] BENZ, PATRICK H., US  
[73] BENZ RESEARCH AND DEVELOPMENT CORP.,  
[85] 2014-03-14  
[86] 2012-09-14 (PCT/US2012/055540)  
[87] (WO2013/040434)  
[30] US (61/535,795) 2011-09-16

---

[11] **2,848,980**  
[13] C

[51] **Int.Cl. C08F 220/28 (2006.01) C08F 220/36 (2006.01)**  
[25] EN  
[54] **ULTRAVIOLET LIGHT ABSORBING MATERIALS FOR INTRAOCULAR LENS AND USES THEREOF**  
[54] **MATERIAUX ABSORBANT LA LUMIERE ULTRAVIOLETTE POUR LENTILLES INTRAOCULAIRES ET UTILISATIONS ASSOCIEES**  
[72] REBOUL, ADAM, US  
[72] BENZ, PATRICK H., US  
[73] BENZ RESEARCH AND DEVELOPMENT CORP.,  
[85] 2014-03-14  
[86] 2012-09-14 (PCT/US2012/055561)  
[87] (WO2013/040449)  
[30] US (61/535,849) 2011-09-16  
[30] US (61/599,756) 2012-02-16

---

[11] **2,849,112**  
[13] C

[51] **Int.Cl. B67D 1/10 (2006.01) B67D 7/06 (2010.01) B67D 7/68 (2010.01) B65D 47/34 (2006.01) B67C 9/00 (2006.01) F04D 13/06 (2006.01) F04D 13/08 (2006.01) F25D 3/08 (2006.01)**  
[25] EN  
[54] **LIQUID DISPENSER FOR A COOLER**  
[54] **DISTRIBUTEUR DE LIQUIDE POUR GLACIERE**  
[72] TAYLOR, CURTIS, US  
[73] MAGIC TAP, LLC,  
[85] 2014-03-18  
[86] 2012-10-17 (PCT/US2012/060550)  
[87] (WO2013/059273)  
[30] US (61/548,944) 2011-10-19  
[30] US (61/669,847) 2012-07-10  
[30] US (61/672,957) 2012-07-18

---

[11] **2,849,116**  
[13] C

[51] **Int.Cl. B67D 7/72 (2010.01) B67D 7/62 (2010.01) A47K 5/12 (2006.01) B65D 47/34 (2006.01)**  
[25] EN  
[54] **LIQUID DETERGENT DISPENSER**  
[54] **DISTRIBUTEUR DE DETERGENT LIQUIDE**  
[72] TAYLOR, CURTIS, US  
[73] MAGIC TAP, LLC,  
[85] 2014-03-18  
[86] 2012-10-17 (PCT/US2012/060564)  
[87] (WO2013/059283)  
[30] US (61/548,944) 2011-10-19  
[30] US (61/669,847) 2012-07-10  
[30] US (61/672,957) 2012-07-18

---

[11] **2,849,311**  
[13] C

[51] **Int.Cl. A61F 2/32 (2006.01) A61B 34/10 (2016.01) A61B 17/17 (2006.01) A61F 2/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR PRECISE PROSTHESIS POSITIONING IN HIP ARTHROPLASTY**  
[54] **SYSTEME ET PROCEDE DE POSITIONNEMENT PRECIS D'UNE PROTHESE POUR UNE ARTHROPLASTIE DE LA HANCHE**  
[72] AGHAZADEH, MEHRAN S., US  
[73] ARTHROMEDA, INC.,  
[85] 2014-03-19  
[86] 2012-09-28 (PCT/US2012/057862)  
[87] (WO2013/049534)  
[30] US (61/540,853) 2011-09-29

---

[11] **2,849,728**  
[13] C

[51] **Int.Cl. A61F 2/02 (2006.01)**  
[25] EN  
[54] **PELVIC IMPLANT AND TREATMENT METHOD**  
[54] **IMPLANT PELVIEN ET PROCEDE DE TRAITEMENT**  
[72] HACKER, DEAN W., US  
[72] JAGGER, KARL A., US  
[72] WILKE, BENJAMIN M., US  
[72] KELTO, SETH C., US  
[72] FELTON, JESSICA E., US  
[73] BOSTON SCIENTIFIC SCIMED, INC.,  
[85] 2014-03-21  
[86] 2012-09-24 (PCT/US2012/056905)  
[87] (WO2013/044228)  
[30] US (61/537,631) 2011-09-22  
[30] US (61/546,877) 2011-10-13  
[30] US (61/547,475) 2011-10-14  
[30] US (61/558,271) 2011-11-10

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,849,731**  
[13] C

[51] **Int.Cl. C07C 329/02 (2006.01) A61K 31/265 (2006.01) A61K 31/27 (2006.01) A61P 9/10 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) C07C 309/15 (2006.01)**

[25] EN

[54] **ACETAMINOPHEN CONJUGATES, COMPOSITIONS AND METHODS OF USE THEREOF**

[54] **CONJUGUES D'ACETAMINOPHENE, COMPOSITIONS EN CONTENANT ET LEURS METHODES D'UTILISATION**

[72] BLEY, KEITH R., US

[72] JANDELEIT, BERND, US

[73] ACORDA THERAPEUTICS, INC.,

[85] 2014-03-21

[86] 2012-09-21 (PCT/US2012/056625)

[87] (WO2013/044064)

[30] US (61/538,075) 2011-09-22

---

[11] **2,850,129**  
[13] C

[51] **Int.Cl. B32B 5/32 (2006.01) C08J 9/12 (2006.01)**

[25] EN

[54] **POLYMERIC NANOFOAM**

[54] **NANOMOUSSE POLYMERIQUE**

[72] COSTEUX, STEPHANE, US

[72] BUNKER, SHANA P., US

[72] JEON, HYUN K., US

[72] JOG, PRASANNA K., US

[73] DOW GLOBAL TECHNOLOGIES LLC,

[85] 2014-03-26

[86] 2012-09-14 (PCT/US2012/055263)

[87] (WO2013/048761)

[30] US (61/541,309) 2011-09-30

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[11] **2,850,265**  
[13] C

[51] **Int.Cl. B29D 11/00 (2006.01)**

[25] EN

[54] **CONTACT LENS MANUFACTURING METHOD**

[54] **PROCEDE DE FABRICATION DE LENTILLES DE CONTACT**

[72] HAMILTON, RONALD, GB

[73] DAYSOFT LIMITED,

[85] 2014-03-27

[86] 2011-11-24 (PCT/EP2011/070992)

[87] (WO2012/069615)

[30] GB (1020106.9) 2010-11-26

[30] GB (1114009.2) 2011-08-15

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[11] **2,850,445**  
[13] C

[51] **Int.Cl. A61N 1/05 (2006.01) A61B 5/113 (2006.01) A61F 5/56 (2006.01) A61N 1/36 (2006.01) A61N 1/372 (2006.01) A61N 1/375 (2006.01) A61N 1/378 (2006.01)**

[25] EN

[54] **ANTENNA PROVIDING VARIABLE COMMUNICATION WITH AN IMPLANT**

[54] **ANTENNE ETABLISSANT UNE COMMUNICATION VARIABLE AVEC UN IMPLANT**

[72] MASHIACH, ADI, BE

[72] MUELLER, CARSTEN, DE

[73] NYXOAH SA,

[85] 2014-03-28

[86] 2012-09-28 (PCT/IB2012/003013)

[87] (WO2013/061169)

[30] US (61/541,651) 2011-09-30

[30] US (61/657,424) 2012-06-08

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[11] **2,850,592**  
[13] C

[51] **Int.Cl. G08B 3/10 (2006.01) G07C 9/00 (2006.01) G08B 13/08 (2006.01)**

[25] EN

[54] **DETECTION DEVICE**

[54] **DISPOSITIF DE DETECTION**

[72] YOUNG, PETER JEFFREY, GB

[73] YOUNG, PETER JEFFREY,

[85] 2014-03-31

[86] 2012-10-01 (PCT/GB2012/052427)

[87] (WO2013/045954)

[30] GB (1116932.3) 2011-10-01

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[11] **2,850,612**  
[13] C

[51] **Int.Cl. F23C 99/00 (2006.01)**

[25] FR

[54] **CHEMICAL LOOPING COMBUSTION METHOD WITH THE REMOVAL OF ASH AND FINES LEAVING THE OXIDATION ZONE, AND FACILITY USING SUCH A METHOD**

[54] **PROCEDE DE COMBUSTION EN BOUCLE CHIMIQUE AVEC ELIMINATION DES CENDRES ET FINES EN SORTIE DE LA ZONE D'OXYDATION ET INSTALLATION UTILISANT UN TEL PROCEDE**

[72] GUILLOU, FLORENT, FR

[72] GAUTHIER, THIERRY, FR

[72] HOTEIT, ALI, FR

[72] RIFFLART, SEBASTIEN, FR

[73] IFP ENERGIES NOUVELLES,

[73] TOTAL SA,

[85] 2014-03-31

[86] 2012-10-29 (PCT/FR2012/000441)

[87] (WO2013/079818)

[30] FR (11/03697) 2011-12-02

---

[11] **2,851,235**  
[13] C

[51] **Int.Cl. A61M 39/24 (2006.01) A61M 25/00 (2006.01) A61M 25/06 (2006.01) A61M 39/10 (2006.01) A61M 39/22 (2006.01)**

[25] EN

[54] **PORT VALVE OF A BLOOD CONTROL CATHETER**

[54] **SOUPAPE A ORIFICE D'UN CATHETER DE REGULATION DE SANG**

[72] SONDEREGGER, RALPH L., US

[72] ISAACSON, S. RAY, US

[73] BECTON, DICKINSON AND COMPANY,

[85] 2014-04-04

[86] 2012-10-04 (PCT/US2012/058748)

[87] (WO2013/052665)

[30] US (61/544,174) 2011-10-06

[30] US (13/644,200) 2012-10-03

Canadian Patents Issued  
January 14, 2020

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[11] **2,851,533**  
[13] C  
[51] **Int.Cl. B29C 41/14 (2006.01) B29C 33/48 (2006.01) B29C 37/00 (2006.01) B29C 41/42 (2006.01) B28B 19/00 (2006.01)**  
[25] EN  
[54] **MULTI-PIECE MOLD AND METHOD OF MAKING SLURRY DISTRIBUTOR**  
[54] **MOULE MULTIPIECE ET PROCEDE DE FABRICATION D'UN DISTRIBUTEUR DE BOUE**  
[72] LI, ALFRED, US  
[72] LEE, CHRIS C., US  
[72] CHAN, CESAR, US  
[72] SCHENCK, RONALD E., US  
[72] SONG, WEIXIN DAVID, US  
[72] LORING, CURT, US  
[72] WITTBOLD, JAMES, US  
[72] RAGO, WILLIAM, US  
[73] UNITED STATES GYPSUM COMPANY,  
[85] 2014-04-08  
[86] 2012-10-24 (PCT/US2012/061641)  
[87] (WO2013/063080)  
[30] US (61/550,827) 2011-10-24

---

[11] **2,851,566**  
[13] C  
[51] **Int.Cl. A23P 20/10 (2016.01) A23K 40/30 (2016.01) A23L 29/00 (2016.01) A23L 29/10 (2016.01) A23D 7/00 (2006.01) A61K 9/28 (2006.01)**  
[25] EN  
[54] **NOVEL COATING SYSTEM**  
[54] **NOUVEAU SYSTEME D'ENROBAGE**  
[72] DIGUET, SYLVAIN, CH  
[72] LEUENBERGER, BRUNO H., CH  
[72] LABOULFIE, FABIEN, FR  
[72] HEMATI, MEHRDJI, CH  
[73] DSM IP ASSETS B.V.,  
[85] 2014-04-09  
[86] 2012-10-11 (PCT/EP2012/070119)  
[87] (WO2013/053793)  
[30] EP (11185187.9) 2011-10-14

---

[11] **2,852,017**  
[13] C  
[51] **Int.Cl. A41C 3/10 (2006.01) A41C 3/00 (2006.01) A41C 3/02 (2006.01) A41C 3/12 (2006.01)**  
[25] EN  
[54] **IMPROVED BRASSIER**  
[54] **BRASSIERE AMELIOREE**  
[72] CROMPTON, ELIZABETH A., US  
[72] VINAS, LUIS A., US  
[73] SCULPTED U, INC.,  
[85] 2014-04-11  
[86] 2012-10-12 (PCT/US2012/059868)  
[87] (WO2013/055991)  
[30] US (61/546,726) 2011-10-13

---

[11] **2,852,047**  
[13] C  
[51] **Int.Cl. H01H 47/00 (2006.01)**  
[25] EN  
[54] **MULTIPLE-CONTACT SWITCHES**  
[54] **COMMUTATEURS A CONTACTS MULTIPLES**  
[72] PESEK, THOMAS, US  
[72] BURLAGE, BRIAN J., US  
[72] CARTWRIGHT, CARTER B., US  
[72] EISENBEIS, CLYDE T., US  
[73] FISHER CONTROLS INTERNATIONAL LLC,  
[85] 2014-04-11  
[86] 2012-10-12 (PCT/US2012/059997)  
[87] (WO2013/059091)  
[30] US (13/277,736) 2011-10-20

---

[11] **2,852,062**  
[13] C  
[51] **Int.Cl. B65D 5/42 (2006.01) B31F 1/07 (2006.01)**  
[25] EN  
[54] **EMBOSSED SHEET AND METHOD OF MAKING AND USING SAME**  
[54] **FEUILLE EN RELIEF ET PROCEDE DE FABRICATION ET D'UTILISATION DE LADITE FEUILLE**  
[72] PUGH, JEFFREY D., US  
[72] HANSEN, MERRILL JON, US  
[73] SMART PACKAGING, LLC,  
[85] 2014-04-11  
[86] 2012-10-12 (PCT/US2012/060051)  
[87] (WO2013/056114)  
[30] US (13/273,029) 2011-10-13

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[11] **2,853,093**  
[13] C  
[51] **Int.Cl. G01N 15/14 (2006.01) G01N 15/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR DETECTING MULTIPLE-EXCITATION-INDUCED LIGHT IN A FLOW CHANNEL**  
[54] **SYSTEME ET PROCEDE PERMETTANT DE DETECTER UNE LUMIERE INDUITE PAR PLUSIEURS SOURCES D'EXCITATION DANS UN CANAL DE CIRCULATION**  
[72] LI, NAN, US  
[72] WU, JIAN, CN  
[72] CHEN, YE, CN  
[72] WANG, TIANXING, CN  
[72] WANG, XIAOBO, US  
[73] ACEA BIOSCIENCES, INC.,  
[85] 2014-04-22  
[86] 2012-10-22 (PCT/US2012/061399)  
[87] (WO2013/059835)  
[30] US (61/550,243) 2011-10-21

---

[11] **2,854,652**  
[13] C  
[51] **Int.Cl. H01S 5/183 (2006.01)**  
[25] EN  
[54] **WAVELENGTH VERSATILE VECSEL RAMAN LASER**  
[54] **LASER RAMAN VECSEL A LONGUEURS D'ONDE MULTIPLES**  
[72] LIN, JIPENG, AU  
[72] PASK, HELEN M., AU  
[72] SPENCE, DAVID JAMES, AU  
[72] HAMILTON, CRAIG J., GB  
[72] MALCOLM, GRAEME P. A., GB  
[73] MACQUARIE UNIVERSITY,  
[85] 2014-05-06  
[86] 2012-11-09 (PCT/AU2012/001389)  
[87] (WO2013/067599)  
[30] AU (2011904665) 2011-11-09

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,855,031**  
[13] C

[51] **Int.Cl. B03C 3/08 (2006.01) B03C 3/09 (2006.01) B03C 3/10 (2006.01) B03C 3/36 (2006.01) B03C 3/41 (2006.01) B03C 3/47 (2006.01)**

[25] EN  
[54] **APPARATUS WITH CONDUCTIVE STRIP FOR DUST REMOVAL**  
[54] **APPAREIL AYANT UNE BANDE CONDUCTRICE POUR L'ELIMINATION DE LA POUSSIERE**

[72] URSEM, WILLIBRORDUS  
NICOLAAS JOHANNES, NL  
[72] VAN DE VORLE-HOUBEN,  
ELISABETH JOHANNA JACOBA,  
NL  
[72] DE HAAR, JOHANNES ANTHONIUS  
WILHELMUS, NL  
[73] MEMIC EUROPE B.V.,  
[85] 2014-05-08  
[86] 2012-11-09 (PCT/NL2012/050792)  
[87] (WO2013/070078)  
[30] NL (2007755) 2011-11-09  
[30] NL (2008621) 2012-04-11  
[30] EP (12178153.8) 2012-07-27

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[11] **2,855,139**  
[13] C

[51] **Int.Cl. G01N 33/577 (2006.01) G01N 33/559 (2006.01) C07K 14/75 (2006.01) C12Q 1/56 (2006.01)**

[25] EN  
[54] **FIBRINOGEN ASSAY**  
[54] **DOSAGE DU FIBRINOGENE**  
[72] DEANGLIS, ASHLEY, US  
[72] BURCOGLU, ELIF, US  
[73] ETHICON, INC.,  
[85] 2014-05-08  
[86] 2012-11-19 (PCT/US2012/065770)  
[87] (WO2013/078107)  
[30] US (13/300,795) 2011-11-21

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[11] **2,855,389**  
[13] C

[51] **Int.Cl. D02J 1/08 (2006.01)**

[25] EN  
[54] **APPARATUS FOR TEXTURIZING STRAND MATERIAL**  
[54] **APPAREIL DE TEXTURATION D'UN MATERIAU EN BRIN**

[72] BRANDT, LUC J. L., BE  
[73] OCV INTELLECTUAL CAPITAL,  
LLC,  
[85] 2014-05-09  
[86] 2012-11-16 (PCT/US2012/065406)  
[87] (WO2013/078074)  
[30] US (61/562,530) 2011-11-22

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[11] **2,855,702**  
[13] C

[51] **Int.Cl. H04J 11/00 (2006.01) H04B 7/26 (2006.01)**

[25] EN  
[54] **METHOD AND APPARATUS FOR TRANSMITTING CONTROL INFORMATION IN WIRELESS COMMUNICATION SYSTEMS**  
[54] **PROCEDE ET APPAREIL POUR TRANSMETTRE DES DONNEES DE COMMANDE DANS DES SYSTEMES DE COMMUNICATION SANS FIL**

[72] KIM, YOUN SUN, KR  
[72] CHENG, SHAN, KR  
[72] LEE, JU HO, KR  
[72] LEE, HYO JIN, KR  
[72] KIM, KI IL, KR  
[72] CHO, JOON YOUNG, KR  
[72] JI, HYOUNG JU, KR  
[72] RO, SANG MIN, KR  
[72] CHOI, SEUNG HOON, KR  
[73] SAMSUNG ELECTRONICS CO.,  
LTD.,  
[85] 2014-05-12  
[86] 2012-11-16 (PCT/KR2012/009765)  
[87] (WO2013/073909)  
[30] US (61/560,454) 2011-11-16  
[30] US (61/587,351) 2012-01-17

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[11] **2,855,787**  
[13] C

[51] **Int.Cl. C12P 19/00 (2006.01) A23K 10/33 (2016.01) A23K 20/163 (2016.01) A23L 33/125 (2016.01) A23L 33/21 (2016.01) C12P 19/14 (2006.01) C12P 19/18 (2006.01) C13K 13/00 (2006.01)**

[25] EN  
[54] **PROCESS FOR THE RECOVERY OF BETAINE FROM MOLASSES**  
[54] **PROCEDE POUR LA RECUPERATION DE BETAINE A PARTIR DE MELASSE**

[72] VAN LOO, JAN, BE  
[72] WACH, WOLFGANG, DE  
[73] TIENSE SUIKERRAFFINADERIJ  
N.V.,  
[85] 2014-05-13  
[86] 2012-11-15 (PCT/EP2012/004732)  
[87] (WO2013/072048)  
[30] EP (EP11009055) 2011-11-15

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[11] **2,855,899**  
[13] C

[51] **Int.Cl. F23C 10/24 (2006.01) C01F 17/00 (2006.01) C01G 5/00 (2006.01) C01G 7/00 (2006.01) C01G 55/00 (2006.01) C22B 11/00 (2006.01) C22B 59/00 (2006.01)**

[25] EN  
[54] **METHOD FOR PROCESSING ASH, PARTICULARLY FLY ASH**  
[54] **PROCEDE DE TRAITEMENT DE CENDRES, EN PARTICULIER DE CENDRES VOLANTES**

[72] VAISANEN, ARI, FI  
[72] VALKONEN, JUSSI, FI  
[72] PERAMAKI, SIIRI, FI  
[72] SOIKKELI, VILLE, FI  
[72] RYYMIN, RISTO, FI  
[73] JYVASKYLAN ENERGIA OY,  
[85] 2014-05-13  
[86] 2012-11-30 (PCT/FI2012/051196)  
[87] (WO2013/079804)  
[30] FI (20116228) 2011-12-02

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[11] **2,856,008**  
[13] C

[51] **Int.Cl. A61M 5/30 (2006.01) A61M 5/315 (2006.01)**

[25] EN  
[54] **NEEDLE-FREE INTRADERMAL INJECTION DEVICE**  
[54] **DISPOSITIF D'INJECTION INTRADERMIQUE SANS AIGUILLE**

[72] CAPPELLO, CHRIS, US  
[72] WIXEY, MATT, US  
[72] BINGHAM, JOHN W., US  
[73] PHARMAJET INC.,  
[85] 2014-05-14  
[86] 2012-12-12 (PCT/US2012/069063)  
[87] (WO2013/090315)  
[30] US (61/570,163) 2011-12-13

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,856,215**  
[13] C

[51] **Int.Cl. B01F 3/14 (2006.01) B01F 7/04 (2006.01) B01F 15/02 (2006.01) B28B 1/00 (2006.01) B28B 3/12 (2006.01) B28B 13/02 (2006.01) B29C 43/00 (2006.01) B29C 43/48 (2006.01) B30B 5/06 (2006.01) B30B 15/30 (2006.01) C04B 26/18 (2006.01) C04B 40/00 (2006.01)**

[25] EN

[54] **DEVICE FOR PRODUCING A SLAB FROM ARTIFICIAL STONE MATERIAL**

[54] **DISPOSITIF SERVANT A PRODUIRE UNE TRANCHE DE MATIERE DE PIERRE ARTIFICIELLE**

[72] KAGER, FRANZ, AT

[73] HORVATH, WOLFGANG,

[85] 2014-05-13

[86] 2012-11-15 (PCT/AT2012/050176)

[87] (WO2013/071326)

[30] AT (A 1713/2011) 2011-11-17

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[11] **2,856,417**  
[13] C

[51] **Int.Cl. G06Q 30/02 (2012.01)**

[25] EN

[54] **COOKING MANAGEMENT**

[54] **GESTION DE PREPARATION D'ALIMENTS**

[72] HULETT, RANDY, US

[72] KOLLER, IZAAK, US

[72] SHAY, BRIAN, US

[73] STARBUCKS CORPORATION D/B/A STARBUCKS COFFEE COMPANY,

[85] 2014-05-20

[86] 2012-11-21 (PCT/US2012/066417)

[87] (WO2013/078428)

[30] US (61/563,317) 2011-11-23

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[11] **2,856,456**  
[13] C

[51] **Int.Cl. H04N 21/418 (2011.01) H04N 21/426 (2011.01) H04N 21/435 (2011.01) H04N 21/4405 (2011.01) H04N 21/4623 (2011.01)**

[25] EN

[54] **METHOD, CRYPTOGRAPHIC SYSTEM AND SECURITY MODULE FOR DESCRAMBLING CONTENT PACKETS OF A DIGITAL TRANSPORT STREAM**

[54] **PROCEDE, SYSTEME CRYPTOGRAPHIQUE ET MODULE DE SECURITE POUR LE DESEMBROUILLAGE DE PAQUETS DE CONTENU D'UN FLUX DE TRANSPORT NUMERIQUE**

[72] WENDLING, BERTRAND, FR

[72] LE BUHAN, CORINNE, CH

[73] NAGRAVISION S.A.,

[85] 2014-05-21

[86] 2012-11-20 (PCT/EP2012/073064)

[87] (WO2013/076057)

[30] US (61/562,462) 2011-11-22

[30] EP (11190121.1) 2011-11-22

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[11] **2,856,462**  
[13] C

[51] **Int.Cl. F27D 7/02 (2006.01) F27D 7/06 (2006.01)**

[25] EN

[54] **NOZZLE DEVICE FOR A FURNACE FOR HEAT TREATING A STEEL FLAT PRODUCT AND FURNACE EQUIPPED WITH SUCH A NOZZLE DEVICE**

[54] **DISPOSITIF TUYERE DESTINE UN FOUR DE TRAITEMENT THERMIQUE D'UN PRODUIT PLAT EN ACIER, ET FOUR EQUIPE D'UN TEL DISPOSITIF TUYERE**

[72] NORDEN, MARTIN, DE

[72] BLUMENAU, MARC, DE

[72] HULSTRUNG, JOACHIM, DE

[72] MACHALITZA, KARSTEN, DE

[72] SCHONENBERG, RUDOLF, US

[73] THYSSENKRUPP STEEL EUROPE AG,

[85] 2014-05-21

[86] 2012-12-17 (PCT/EP2012/075770)

[87] (WO2013/092479)

[30] DE (10 2011 056 823.9) 2011-12-21

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[11] **2,856,646**  
[13] C

[51] **Int.Cl. A61K 31/519 (2006.01) A61P 13/08 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMBINATION TREATMENT OF CANCER**

[54] **TRAITEMENT COMBINE DU CANCER**

[72] DAVIES, BARRY ROBERT, GB

[73] ASTRAZENECA AB,

[85] 2014-05-22

[86] 2012-11-30 (PCT/GB2012/052969)

[87] (WO2013/079964)

[30] US (61/564,975) 2011-11-30

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[11] **2,857,052**  
[13] C

[51] **Int.Cl. B32B 18/00 (2006.01) B32B 29/00 (2006.01) D21H 17/63 (2006.01) D21H 19/10 (2006.01) D21H 19/14 (2006.01) D21H 19/72 (2006.01) D21H 27/00 (2006.01)**

[25] EN

[54] **MULTILAYERED SHEET**

[54] **FEUILLE MULTICOUCHES**

[72] KAWKA, DARIUSZ WLODZIMIERZ, US

[73] E. I. DU PONT DE NEMOURS AND COMPANY,

[85] 2014-05-26

[86] 2012-12-13 (PCT/US2012/069496)

[87] (WO2013/090564)

[30] US (61/570,544) 2011-12-14

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[11] **2,857,506**  
[13] C

[51] **Int.Cl. A61M 5/28 (2006.01) A61M 5/315 (2006.01)**

[25] EN

[54] **ACCURATE DOSE CONTROL MECHANISMS AND DRUG DELIVERY SYRINGES**

[54] **MECANISMES DE COMMANDE DE DOSE PRECIS ET SERINGUES D'ADMINISTRATION DE MEDICAMENT**

[72] SHETTY, GAUTAM N., US

[72] CASTAGNA, LOU, US

[73] UNITRACT SYRINGE PTY LTD,

[85] 2014-05-29

[86] 2012-12-06 (PCT/US2012/068210)

[87] (WO2013/086167)

[30] US (61/568,509) 2011-12-08

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,857,589**  
[13] C

[51] **Int.Cl. G01N 33/68 (2006.01)**  
[25] EN  
[54] **BIOMARKER-BASED METHODS AND BIOCHIPS FOR AIDING THE DIAGNOSIS OF STROKE**  
[54] **PROCEDES BASES SUR DES MARQUEURS BIOLOGIQUES ET BIOPUCES POUR AIDER AU DIAGNOSTIC D'UN ACCIDENT VASCULAIRE CEREBRAL**  
[72] LAMONT, JOHN, GB  
[72] MCCONNELL, IVAN, GB  
[72] FITZGERALD, PETER, GB  
[73] RANDOX LABORATORIES LTD,  
[85] 2014-05-30  
[86] 2012-12-03 (PCT/GB2012/052993)  
[87] (WO2013/079981)  
[30] GB (1120781.8) 2011-12-02

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[11] **2,857,923**  
[13] C

[51] **Int.Cl. G01D 21/00 (2006.01) G01M 17/00 (2006.01) G01R 31/327 (2006.01) G01R 31/44 (2006.01)**  
[25] EN  
[54] **SAFETY ANALYSIS OF A COMPLEX SYSTEM USING COMPONENT-ORIENTED FAULT TREES**  
[54] **ANALYSE DE SECURITE D'UN SYSTEME COMPLEXE UTILISANT DES ARBRES DE DEFAILLANCES ORIENTES COMPOSANTS**  
[72] RAMESH, ANAPATHUR V., US  
[72] TWIGG, DAVID W., US  
[73] THE BOEING COMPANY,  
[86] (2857923)  
[87] (2857923)  
[22] 2014-07-29  
[30] US (14/082,506) 2013-11-18

---

[11] **2,858,049**  
[13] C

[51] **Int.Cl. B01J 29/14 (2006.01) B01J 29/80 (2006.01) C10G 47/20 (2006.01)**  
[25] FR  
[54] **CATALYST INCLUDING AT LEAST ONE NU-86 ZEOLITE, AT LEAST ONE USY ZEOLITE, AND A POROUS INORGANIC MATRIX, AND METHOD FOR THE HYDROCONVERSION OF HYDROCARBON FEEDSTOCKS USING SAID CATALYST**  
[54] **CATALYSEUR COMPRENANT AU MOINS UNE ZEOLITHE NU-86, AU MOINS UNE ZEOLITHE USY ET UNE MATRICE MINERALE POREUSE ET PROCEDE D'HYDROCONVERSION DE CHARGES HYDROCARBONEES UTILISANT CE CATALYSEUR**  
[72] BONDUELLE, AUDREY, FR  
[72] GUILLON, EMMANUELLE, FR  
[72] ROY-AUBERGER, MAGALIE, FR  
[73] IFP ENERGIES NOUVELLES,  
[85] 2014-06-03  
[86] 2012-11-23 (PCT/FR2012/000481)  
[87] (WO2013/093225)  
[30] FR (1104022) 2011-12-22

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[11] **2,858,084**  
[13] C

[51] **Int.Cl. B01J 29/76 (2006.01) B01J 37/02 (2006.01) C10G 47/20 (2006.01)**  
[25] FR  
[54] **METHOD FOR PREPARING A CATALYST USABLE IN HYDROCONVERSION AND INCLUDING AT LEAST ONE NU-86 ZEOLITE**  
[54] **PROCEDE DE PREPARATION D'UN CATALYSEUR UTILISABLE EN HYDROCONVERSION COMPRENANT AU MOINS UNE ZEOLITHE NU-86**  
[72] BONDUELLE, AUDREY, FR  
[72] GUILLON, EMMANUELLE, FR  
[72] ROY-AUBERGER, MAGALIE, FR  
[73] IFP ENERGIES NOUVELLES,  
[85] 2014-06-03  
[86] 2012-11-23 (PCT/FR2012/000482)  
[87] (WO2013/093226)  
[30] FR (11/04.023) 2011-12-22

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[11] **2,858,321**  
[13] C

[51] **Int.Cl. B32B 7/10 (2006.01)**  
[25] EN  
[54] **THERMOPLASTIC SINGLE PLY PROTECTIVE COVERING**  
[54] **COUVERTURE PROTECTRICE THERMOPLASTIQUE A UNE SEULE COUCHE**  
[72] YANG, LI-YING, US  
[73] BUILDING MATERIALS INVESTMENT CORPORATION,  
[85] 2014-06-05  
[86] 2012-11-16 (PCT/US2012/065647)  
[87] (WO2013/085700)  
[30] US (61/568,125) 2011-12-07

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[11] **2,858,440**  
[13] C

[51] **Int.Cl. G01S 13/72 (2006.01)**  
[25] EN  
[54] **METHOD FOR DETERMINING THE IMPACT POINT OF A PROJECTILE FIRED AT A TARGET ABOVE SEA SURFACE, AND RADAR SYSTEM IMPLEMENTING SUCH METHOD**  
[54] **PROCEDE DE DETERMINATION DU POINT D'IMPACT D'UN PROJECTILE TIRE SUR UNE CIBLE SE TROUVANT AU-DESSUS DE LA SURFACE DE LA MER, ET SYSTEME RADAR POUR METTRE EN ŒUVRE CE PROCEDE**  
[72] VAN OMMEREN, MARINUS JOSEPHUS SERVATIUS, NL  
[73] THALES NEDERLAND B.V.,  
[85] 2014-06-06  
[86] 2012-11-30 (PCT/EP2012/074049)  
[87] (WO2013/083483)  
[30] EP (11192625.9) 2011-12-08

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,858,538**  
[13] C

[51] **Int.Cl. B01J 31/04 (2006.01) B01J 31/14 (2006.01) B01J 31/18 (2006.01) B01J 31/22 (2006.01)**

[25] EN

[54] **PREPARATION OF AN OLEFIN OLIGOMERIZATION CATALYST**

[54] **PREPARATION D'UN CATALYSEUR D'OLIGOMERISATION D'OLEFINES**

[72] SYDORA, ORSON, US

[72] KNUDSEN, RONALD, US

[72] BARALT, EDUARDO, US

[73] CHEVRON PHILLIPS CHEMICAL COMPANY LP,

[85] 2014-06-06

[86] 2012-11-15 (PCT/US2012/065285)

[87] (WO2013/089962)

[30] US (13/323,328) 2011-12-12

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[11] **2,858,759**  
[13] C

[51] **Int.Cl. A61F 13/532 (2006.01) C08F 2/44 (2006.01)**

[25] EN

[54] **WATER-ABSORBENT RESIN POWDER AND ABSORBER AND ABSORBENT ARTICLE USING THE SAME**

[54] **POUDRE DE RESINE ABSORBANT L'EAU, ABSORBANT ET ARTICLE ABSORBANT LES UTILISANT**

[72] OTA, YOSHIHISA, JP

[72] NISHIDA, MOTOKO, JP

[72] IKEUCHI, MASATOSHI, JP

[73] LIVEDO CORPORATION,

[85] 2014-06-09

[86] 2012-12-20 (PCT/JP2012/008168)

[87] (WO2013/099174)

[30] JP (2011-285291) 2011-12-27

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[11] **2,859,061**  
[13] C

[51] **Int.Cl. D21C 5/02 (2006.01) D21C 9/14 (2006.01)**

[25] EN

[54] **PROCESS FOR REDUCING FLUORESCENCE IN PULP**

[54] **PROCEDE POUR LA REDUCTION DE FLUORESCENCE DANS DE LA PATE A PAPIER**

[72] CARMICHAEL, GLENN, US

[72] CONNELL, DANIEL, US

[72] AUGER, SCOTT BARTON, US

[72] COMER, ROBERT A., US

[72] SIGMAN, MICHAEL, US

[73] NALCO IP HOLDER LLC,

[85] 2014-06-12

[86] 2012-12-21 (PCT/EP2012/076534)

[87] (WO2013/098219)

[30] US (61/580,931) 2011-12-28

---

[11] **2,858,539**  
[13] C

[51] **Int.Cl. B01J 31/22 (2006.01) C07C 2/32 (2006.01) C07C 53/126 (2006.01)**

[25] EN

[54] **PREPARATION OF TRANSITION METAL CARBOXYLATES**

[54] **PREPARATION DE CARBOXYLATES DE METAUX DE TRANSITION**

[72] SYDORA, ORSON, US

[72] KNUDSEN, RONALD, US

[72] BARALT, EDUARDO, US

[73] CHEVRON PHILLIPS CHEMICAL COMPANY LP,

[85] 2014-06-06

[86] 2012-11-15 (PCT/US2012/065289)

[87] (WO2013/089963)

[30] US (13/323,191) 2011-12-12

---

[11] **2,858,765**  
[13] C

[51] **Int.Cl. A23K 10/12 (2016.01) A23K 10/16 (2016.01) A23K 10/30 (2016.01)**

[25] EN

[54] **INGREDIENTS FOR ANIMAL FEED COMPOSITIONS**

[54] **INGREDIENTS POUR COMPOSITIONS D'ALIMENTS POUR ANIMAUX**

[72] GAUFRES, LAURE, FR

[72] HIVIN, PATRICK, FR

[72] KREL, MICHAEL, FR

[72] LEONETTI, JEAN-PAUL, FR

[73] DEINOVE,

[85] 2014-06-10

[86] 2012-12-18 (PCT/EP2012/076046)

[87] (WO2013/092645)

[30] EP (11306700.3) 2011-12-19

[30] US (61/577,222) 2011-12-19

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[11] **2,859,266**  
[13] C

[51] **Int.Cl. G01S 13/44 (2006.01)**

[25] EN

[54] **A METHOD AND A SENSOR FOR DETERMINING A DIRECTION-OF-ARRIVAL OF IMPINGENT RADIATION**

[54] **PROCEDE ET CAPTEUR POUR DETERMINER LA DIRECTION D'ARRIVEE D'UN RAYONNEMENT INCIDENT**

[72] TUXEN, FREDRIK, DK

[73] TRACKMAN A/S,

[85] 2014-06-13

[86] 2012-12-13 (PCT/EP2012/075425)

[87] (WO2013/087787)

[30] US (61/576,609) 2011-12-16

[30] EP (11195784.1) 2011-12-27

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[11] **2,858,919**  
[13] C

[51] **Int.Cl. G08G 1/017 (2006.01) G07B 15/06 (2011.01) G06K 9/62 (2006.01) G06K 9/78 (2006.01)**

[25] EN

[54] **LICENSE PLATE RECOGNITION**

[54] **RECONNAISSANCE DE PLAQUE D'IMMATRICULATION**

[72] ALVES, JAMES, US

[73] ALVES, JAMES,

[86] (2858919)

[87] (2858919)

[22] 2014-08-08

[30] US (61/865,529) 2013-08-13

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,859,394**  
[13] C

[51] **Int.Cl. C07C 37/20 (2006.01) B01J 47/00 (2017.01) C07C 39/16 (2006.01)**  
[25] EN  
[54] **USE OF A TREATED, PROMOTED ION EXCHANGE RESIN CATALYST**  
[54] **UTILISATION D'UN CATALYSEUR A BASE DE RESINE ECHANGEUSE D'IONS ACTIVEE, TRAITEE**  
[72] OLSEN, ROBERT J., US  
[72] PIERCE, GREGORY C., US  
[72] SCHULTZ, ALFRED K., US  
[72] TOPP, KLAUS-DIETER, DE  
[73] ROHM AND HAAS COMPANY,  
[85] 2014-06-13  
[86] 2012-12-14 (PCT/US2012/069695)  
[87] (WO2013/101502)  
[30] US (61/581,067) 2011-12-28

---

[11] **2,859,904**  
[13] C

[51] **Int.Cl. C01B 39/02 (2006.01) B01J 20/18 (2006.01) B01J 20/30 (2006.01)**  
[25] EN  
[54] **STRONTIUM-EXCHANGED CLINOPTILOLITE**  
[54] **CLINOPTILOLITE A STRONTIUM ECHANGE**  
[72] HIRANO, SHIGERU, JP  
[72] FUNAKOSHI, HAJIME, JP  
[72] SHIMIZU, YOJU, JP  
[73] TOSOH CORPORATION,  
[85] 2014-06-19  
[86] 2012-12-19 (PCT/JP2012/008111)  
[87] (WO2013/094193)  
[30] JP (2011-277930) 2011-12-20

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[11] **2,860,933**  
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/429 (2006.01) A61K 31/437 (2006.01) A61K 31/5365 (2006.01) A61K 31/5383 (2006.01) A61K 31/542 (2006.01) A61P 9/06 (2006.01) A61P 11/00 (2006.01) C07D 498/04 (2006.01) C07D 513/04 (2006.01)**  
[25] EN  
[54] **FUSED PYRROLEDICARBOXAMIDES AND THEIR USE AS PHARMACEUTICALS**  
[54] **PYRROLEDICARBOXAMIDES FUSIONNES ET LEUR UTILISATION EN TANT QUE PRODUITS PHARMACEUTIQUES**  
[72] BIALY, LAURENT, DE  
[72] LORENZ, KATRIN, DE  
[72] WIRTH, KLAUS, DE  
[72] STEINMEYER, KLAUS, DE  
[72] HESSLER, GERHARD, DE  
[73] SANOFI,  
[85] 2014-07-10  
[86] 2013-02-01 (PCT/EP2013/051996)  
[87] (WO2013/113860)  
[30] EP (12305129.4) 2012-02-03

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[11] **2,860,939**  
[13] C

[51] **Int.Cl. A61F 5/01 (2006.01)**  
[25] EN  
[54] **STRAP TIGHTENER ASSEMBLY FOR AN ORTHOPEDIC DEVICE**  
[54] **ENSEMBLE DE SERRAGE DE SANGLE POUR DISPOSITIF ORTHOPEDIQUE**  
[72] INGIMUNDARSON, ARNI THOR, US  
[72] SIGURDSSON, SINDRI PALL, US  
[72] CHETLAPALLI, JANAKI RAM SRINIVASARAO, US  
[72] TAYLOR, JASON ROBERT, US  
[72] PALSSON, SHIREEN MARIA, US  
[73] OSSUR HF,  
[85] 2014-07-10  
[86] 2013-01-11 (PCT/US2013/021103)  
[87] (WO2013/106620)  
[30] US (61/586,662) 2012-01-13  
[30] US (61/667,522) 2012-07-03

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[11] **2,861,375**  
[13] C

[51] **Int.Cl. B25D 17/24 (2006.01)**  
[25] EN  
[54] **PERCUSSION DEVICE**  
[54] **DISPOSITIF A PERCUSSION**  
[72] LUNDGREN, ANDERS, SE  
[73] CONSTRUCTION TOOLS PC AB,  
[85] 2014-07-16  
[86] 2013-02-11 (PCT/SE2013/050113)  
[87] (WO2013/122535)  
[30] SE (1250137-5) 2012-02-17

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[11] **2,861,767**  
[13] C

[51] **Int.Cl. C07C 2/32 (2006.01)**  
[25] EN  
[54] **OLEFIN OLIGOMERIZATION METHODS**  
[54] **PROCEDES D'OLIGOMERISATION D'OLEFINES**  
[72] SMALL, BROOKE L., US  
[72] RIOS, RAY, US  
[73] CHEVRON PHILLIPS CHEMICAL COMPANY LP,  
[85] 2014-06-26  
[86] 2012-11-29 (PCT/US2012/067066)  
[87] (WO2013/101387)  
[30] US (13/340,780) 2011-12-30

---

[11] **2,861,890**  
[13] C

[51] **Int.Cl. F25B 41/04 (2006.01) F24D 3/18 (2006.01) F24D 5/12 (2006.01) F24D 11/02 (2006.01) F24D 15/04 (2006.01) F24D 17/02 (2006.01) F24D 19/00 (2006.01) F24H 4/00 (2006.01) F24H 9/00 (2006.01) F25B 30/00 (2006.01)**  
[25] EN  
[54] **GEOHERMAL HEATING AND COOLING SYSTEM**  
[54] **SYSTEME GEOTHERMIQUE DE CHAUFFAGE ET DE REFROIDISSEMENT**  
[72] KAPAUN, STEVE, US  
[73] KAPAUN, STEVE,  
[85] 2014-06-26  
[86] 2012-12-28 (PCT/US2012/072150)  
[87] (WO2013/102128)  
[30] US (61/581,470) 2011-12-29

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,862,156**  
[13] C

[51] **Int.Cl. B29B 11/08 (2006.01) B29C 49/06 (2006.01) B29C 49/64 (2006.01) B29C 45/72 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR PRODUCING AN OPTIMIZED BASE CONTOUR ON PREFORMS**

[54] **PROCEDE ET DISPOSITIF DE FABRICATION DE PREFORMES A FOND PRESENTANT UN PROFIL OPTIMISE**

[72] AKTAS, MAHIR, TR

[73] AKTAS, MAHIR,

[85] 2014-07-22

[86] 2013-02-22 (PCT/DE2013/000111)

[87] (WO2013/123931)

[30] DE (10 2012 004 613.8) 2012-02-24

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[11] **2,862,210**  
[13] C

[51] **Int.Cl. B25D 9/20 (2006.01)**

[25] EN

[54] **SLIDE VALVE, PERCUSSION DEVICE & METHOD**

[54] **TIROIR, DISPOSITIF A PERCUSSION ET PROCEDE DE PERCUSSION**

[72] LUNDGREN, ANDERS, SE

[73] CONSTRUCTION TOOLS PC AB,

[85] 2014-07-22

[86] 2013-02-11 (PCT/SE2013/050112)

[87] (WO2013/122534)

[30] SE (1250136-7) 2012-02-17

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[11] **2,862,582**  
[13] C

[51] **Int.Cl. B41J 2/01 (2006.01) B41J 29/38 (2006.01) H05K 3/12 (2006.01) H05K 3/22 (2006.01) G01N 21/956 (2006.01)**

[25] EN

[54] **INKJET SYSTEM FOR PRINTING A PRINTED CIRCUIT BOARD**

[54] **MECANISME A JET D'ENCRE DESTINE A L'IMPRESSION D'UNE CARTE DE CIRCUITS IMPRIMES**

[72] ZWIERS, HENK JAN, NL

[72] JANSSEN, JACOBUS HENDRICUS JOHANNES, NL

[72] VEERMAN, JOOST ANNE, NL

[73] MUTRACX INTERNATIONAL B.V.,

[85] 2014-06-30

[86] 2012-12-28 (PCT/NL2012/050934)

[87] (WO2013/103298)

[30] NL (2008063) 2012-01-02

[30] NL (2008064) 2012-01-02

[30] NL (2008065) 2012-01-02

[30] NL (2008066) 2012-01-02

[30] NL (2008067) 2012-01-02

[30] NL (2008068) 2012-01-02

---

[11] **2,862,647**  
[13] C

[51] **Int.Cl. F15D 1/02 (2006.01)**

[25] EN

[54] **FLOW MERGING DEVICE FOR A FLUID SYSTEM OF A GAS TURBINE ENGINE**

[54] **DISPOSITIF DE FUSION DE FLUX POUR SYSTEME DE FLUIDE DE TURBINE A GAZ**

[72] LEWIS, JENNIFER ANN, US

[72] MORRIS, DUANE ALLEN, US

[73] ROLLS-ROYCE CORPORATION,

[85] 2014-06-30

[86] 2012-12-30 (PCT/US2012/072230)

[87] (WO2013/141940)

[30] US (61/582,272) 2011-12-31

---

[11] **2,863,079**  
[13] C

[51] **Int.Cl. G08G 5/00 (2006.01) B64D 45/00 (2006.01) G08C 17/02 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR REQUESTING AND RETRIEVING AIRCRAFT DATA DURING FLIGHT OF AN AIRCRAFT**

[54] **PROCEDES ET SYSTEMES DE DEMANDE ET D'OBTENTION DE DONNEES D'AVION PENDANT LE VOL D'UN AVION**

[72] O'DELL, ROBERT, US

[72] GALLAGHER, JIM, US

[72] CONZACHI, KEITH, US

[72] BRITT, NOELLE, US

[72] KEREKESH, WILLIAM, US

[72] GEARY, ROBERT J., US

[73] GULFSTREAM AEROSPACE CORPORATION,

[85] 2014-07-28

[86] 2013-01-31 (PCT/US2013/024025)

[87] (WO2013/116447)

[30] US (13/362,931) 2012-01-31

---

[11] **2,863,397**  
[13] C

[51] **Int.Cl. D21F 1/32 (2006.01)**

[25] EN

[54] **A PROCESS FOR CLEANING A TRANSPORT BELT FOR MANUFACTURING A PAPER WEB**

[54] **TRAITEMENT DE NETTOYAGE D'UNE COURROIE DE TRANSPORT SERVANT A LA FABRICATION D'UNE BANDE DE PAPIER**

[72] HUNTER, MARK S., US

[72] BAUMGARTNER, DEAN J., US

[72] RAINES, DAVID DREW, US

[72] KENNEDY, THEODORE D., US

[72] VELDHUIZEN, DAVID S., US

[72] BUSCH, GLENN W., US

[72] EDBAUER, MITCHELL S., US

[73] GPCP IP HOLDINGS LLC,

[85] 2014-07-30

[86] 2013-03-21 (PCT/US2013/033216)

[87] (WO2013/154802)

[30] US (61/622,622) 2012-04-11

[30] US (13/799,721) 2013-03-13

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,863,891**  
[13] C

[51] **Int.Cl. F16K 11/10 (2006.01) F16K 7/16 (2006.01) F16K 11/20 (2006.01) G01N 30/24 (2006.01)**

[25] EN

[54] **DIAPHRAGM-SEALED VALVE WITH IMPROVED ACTUATOR DESIGN**

[54] **VANNE SCELLEE PAR MEMBRANE DOTEE D'UNE CONCEPTION AMELIOREE DE L'ACTUATEUR**

[72] GAMACHE, YVES, CA

[73] APN-AFP INC.,

[85] 2014-08-06

[86] 2013-02-18 (PCT/CA2013/050124)

[87] (WO2013/120208)

[30] US (61/599,553) 2012-02-16

---

[11] **2,864,051**  
[13] C

[51] **Int.Cl. E04G 3/30 (2006.01) E04G 3/20 (2006.01) E04G 5/04 (2006.01)**

[25] EN

[54] **SUSPENSION CONNECTOR SYSTEM CONFIGURED FOR USE WITH SUSPENDED SCAFFOLDING, AND RELATED METHODS**

[54] **SYSTEME RACCORD A SUSPENSION CONCU POUR ETRE UTILISE AVEC ECHAFAUDAGE SUSPENDU, ET PROCEDES CONNEXES**

[72] GRUMBERG, MATHIEU, US

[72] SCRAFFORD, ROY, US

[73] SAFWAY SERVICES, LLC,

[85] 2014-08-06

[86] 2013-02-07 (PCT/US2013/025178)

[87] (WO2013/119836)

[30] US (61/596,341) 2012-02-08

---

[11] **2,864,074**  
[13] C

[51] **Int.Cl. E05B 73/00 (2006.01)**

[25] EN

[54] **SECURITY TAG HAVING MAGNETICALLY RELEASABLE LATCH**

[54] **ETIQUETTE ANTIVOL AVEC VERROU OUVERT MAGNETIQUEMENT**

[72] HO, WING KEI, US

[73] SENSORMATIC ELECTRONICS LLC,

[85] 2014-08-07

[86] 2012-12-04 (PCT/US2012/067751)

[87] (WO2013/085896)

[30] US (61/630,271) 2011-12-06

---

[11] **2,864,450**  
[13] C

[51] **Int.Cl. A61F 2/42 (2006.01) A61B 17/72 (2006.01) A61B 17/86 (2006.01)**

[25] EN

[54] **INTRAMEDULLARY LOCKING BONE SCREW FOR FIXING THE METATARSOPHALANGEAL JOINT OF THE BIG TOE IN FOOT SURGERY**

[54] **VIS DE VERROUILLAGE INTRAMEDULLAIRE D'OSTEOSYNTHESE EN CHIRURGIE DU PIED POUR LA FIXATION DE L'ARTICULATION BASALE DU GROS ORTEIL**

[72] KOTULJAC, VLADKO, DE

[72] VITEK, MICHAEL, AT

[73] ZIMMER GMBH,

[85] 2014-08-13

[86] 2013-03-06 (PCT/EP2013/054532)

[87] (WO2013/131974)

[30] DE (10 2012 101 978.9) 2012-03-08

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[11] **2,865,119**  
[13] C

[51] **Int.Cl. A01N 31/02 (2006.01) A01N 25/30 (2006.01) A01P 1/00 (2006.01) B01F 17/54 (2006.01)**

[25] EN

[54] **ANTIMICROBIAL AND FOAMABLE ALCOHOLIC COMPOSITIONS**

[54] **COMPOSITIONS ALCOOLIQUES ANTIMICROBIENNES ET MOUSSANTES**

[72] HILLMAN, EVAN, US

[72] LACKS, DANIEL, US

[72] COHEN, MITCHELL, US

[73] GOJO INDUSTRIES, INC.,

[85] 2014-08-20

[86] 2013-02-22 (PCT/US2013/027314)

[87] (WO2013/126696)

[30] US (61/602,834) 2012-02-24

[30] US (61/621,763) 2012-04-09

[30] US (61/644,595) 2012-05-09

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[11] **2,865,310**  
[13] C

[51] **Int.Cl. C02F 1/00 (2006.01) B01D 33/04 (2006.01)**

[25] EN

[54] **INDUSTRIAL SEPARATOR AND DEWATERING PLANT**

[54] **INSTALLATION DE SEPARATEUR INDUSTRIEL ET DE DESHYDRATATION**

[72] MITCHELL, JOHN CHRISTOPHER, US

[72] STEDMAN, KEN M., US

[72] WALSER, GLENN EDWIN, US

[73] HYDRO INTERNATIONAL PLC,

[85] 2014-08-21

[86] 2013-02-21 (PCT/US2013/027171)

[87] (WO2013/126594)

[30] US (13/402,531) 2012-02-22

[30] US (13/598,416) 2012-08-29

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,865,528**  
[13] C

[51] **Int.Cl. H04L 29/08 (2006.01)**  
[25] EN  
[54] **METHOD, APPARATUS, AND SYSTEM FOR GENERATING A P2P NETWORK SCHEME**  
[54] **PROCEDE, APPAREIL ET SCHEMA DE RESEAU P2P**  
[72] LONG, QIANG, CN  
[72] JI, ZUFENG, CN  
[72] AO, NAIXIANG, CN  
[73] TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED,  
[85] 2014-08-26  
[86] 2013-01-16 (PCT/CN2013/070553)  
[87] (WO2013/131417)  
[30] CN (201210061026.8) 2012-03-09

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[11] **2,865,566**  
[13] C

[51] **Int.Cl. E21B 21/12 (2006.01) E21B 21/10 (2006.01) E21B 34/14 (2006.01)**  
[25] EN  
[54] **ACTUATOR FOR DUAL DRILL STRING VALVE AND DRILL STRING VALVE CONFIGURATIONS THEREFOR**  
[54] **ACTIONNEUR POUR SOUPAPE DE DOUBLE TRAIN DE TIGES ET CONFIGURATIONS DE SOUPAPE DE TRAIN DE TIGES POUR CELUI-CI**  
[72] ALHAUG, ESPEN, NO  
[72] MEINSETH, STEIN ERIK, NO  
[73] REELWELL AS,  
[85] 2014-08-26  
[86] 2013-02-06 (PCT/EP2013/052312)  
[87] (WO2013/127609)  
[30] US (13/406,931) 2012-02-28

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[11] **2,865,632**  
[13] C

[51] **Int.Cl. B64F 5/00 (2017.01) B64C 39/02 (2006.01) B64D 27/24 (2006.01) B64D 47/00 (2006.01) H02J 7/00 (2006.01) H02P 31/00 (2006.01)**  
[25] EN  
[54] **AIRCRAFT ELECTRIC MOTOR SYSTEM**  
[54] **SYSTEME DE MOTEUR ELECTRIQUE D'AERONEF**  
[72] BENSON, CHRISTOPHER PETE, US  
[72] QUADRACCI, LEONARD J., US  
[72] CAMERON, DOUGLAS C., US  
[73] THE BOEING COMPANY,  
[86] (2865632)  
[87] (2865632)  
[22] 2014-09-30  
[30] US (14/064366) 2013-10-28

---

[11] **2,865,988**  
[13] C

[51] **Int.Cl. F17C 5/00 (2006.01) F17C 5/06 (2006.01) F17C 13/08 (2006.01) F17C 13/12 (2006.01)**  
[25] EN  
[54] **MODULAR COMPRESSED NATURAL GAS SYSTEM**  
[54] **SYSTEME DE GAZ NATUREL COMPRIME MODULAIRE**  
[72] UTAL, DALBIR SINGH, US  
[72] MCREYNOLDS, RYAN, US  
[73] GENERAL ELECTRIC COMPANY,  
[85] 2014-08-28  
[86] 2013-03-06 (PCT/US2013/029277)  
[87] (WO2013/134344)  
[30] US (61/607,506) 2012-03-06  
[30] US (13/645,109) 2012-10-04

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[11] **2,865,991**  
[13] C

[51] **Int.Cl. F25J 3/06 (2006.01) B01D 53/00 (2006.01)**  
[25] FR  
[54] **METHOD AND DEVICE FOR SEPARATING A MIXTURE CONTAINING CARBON DIOXIDE BY MEANS OF DISTILLATION**  
[54] **PROCEDE ET APPAREIL DE SEPARATION D'UN MELANGE CONTENANT DU DIOXYDE DE CARBONE PAR DISTILLATION**  
[72] BRIGLIA, ALAIN, FR  
[72] DARDE, ARTHUR, FR  
[72] LOCKWOOD, FREDERICK, FR  
[72] TRAVERSAC, XAVIER, FR  
[73] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCES GEORGES CLAUDE,  
[85] 2014-08-29  
[86] 2013-03-05 (PCT/FR2013/050462)  
[87] (WO2013/135993)  
[30] FR (1252251) 2012-03-13

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[11] **2,866,314**  
[13] C

[51] **Int.Cl. E21B 34/08 (2006.01) E21B 43/12 (2006.01) E21B 43/32 (2006.01)**  
[25] EN  
[54] **A FLOW CONTROL DEVICE AND METHOD**  
[54] **DISPOSITIF ET PROCEDE DE REGLAGE DE DEBIT**  
[72] MATHIESEN, VIDAR, NO  
[72] WERSWICK, BJORNAR, NO  
[72] AAKRE, HAAVARD, NO  
[73] INFLOWCONTROL AS,  
[85] 2014-09-04  
[86] 2013-03-06 (PCT/EP2013/054485)  
[87] (WO2013/139601)  
[30] NO (20120334) 2012-03-21  
[30] US (61/613,515) 2012-03-21  
[30] NO (20120872) 2012-08-06  
[30] US (61/679,805) 2012-08-06

**Brevets canadiens délivrés  
14 janvier 2020**

[11] **2,867,120**  
[13] C

- [51] **Int.Cl. F01K 7/42 (2006.01) F01K 23/10 (2006.01) F01K 25/10 (2006.01) F22B 1/18 (2006.01) F22B 35/08 (2006.01)**
- [25] EN
- [54] **SYSTEM AND METHOD FOR RECOVERY OF WASTE HEAT FROM DUAL HEAT SOURCES**
- [54] **SYSTEME ET PROCEDE DE RECUPERATION DE CHALEUR PERDUE PROVENANT DE DEUX SOURCES DE CHALEUR**
- [72] LEHAR, MATTHEW ALEXANDER, US
- [72] MICHELASSI, VITTORIO, US
- [73] GENERAL ELECTRIC COMPANY, [85] 2014-09-11
- [86] 2013-03-15 (PCT/US2013/031845)
- [87] (WO2013/148297)
- [30] US (13/429,318) 2012-03-24

[11] **2,868,226**  
[13] C

- [51] **Int.Cl. F04D 27/02 (2006.01) F04D 29/16 (2006.01) F04D 29/52 (2006.01) F04D 29/54 (2006.01) F04D 29/68 (2006.01)**
- [25] FR
- [54] **COMPRESSOR CASING COMPRISING CAVITIES WITH OPTIMISED SETTING**
- [54] **CARTER DE COMPRESSEUR A CAVITES AU CALAGE OPTIMISE**
- [72] OBRECHT, THIERRY JEAN-JACQUES, FR
- [72] GHILARDI, CELINE, FR
- [72] PERROT, VINCENT, FR
- [73] SNECMA, [85] 2014-09-23
- [86] 2013-04-15 (PCT/FR2013/050828)
- [87] (WO2013/156725)
- [30] FR (1201159) 2012-04-19

[11] **2,868,456**  
[13] C

- [51] **Int.Cl. F04D 27/02 (2006.01) F04D 29/16 (2006.01) F04D 29/52 (2006.01) F04D 29/54 (2006.01) F04D 29/68 (2006.01)**
- [25] FR
- [54] **COMPRESSOR CASING COMPRISING CAVITIES HAVING AN OPTIMISED UPSTREAM SHAPE**
- [54] **CARTER DE COMPRESSEUR A CAVITES A FORME AMONT OPTIMISEE**
- [72] OBRECHT, THIERRY JEAN-JACQUES, FR
- [72] DOMERCQ, OLIVIER STEPHANE, FR
- [73] SNECMA, [85] 2014-09-25
- [86] 2013-04-15 (PCT/FR2013/050829)
- [87] (WO2013/156726)
- [30] FR (1201160) 2012-04-19

[11] **2,867,568**  
[13] C

- [51] **Int.Cl. E21B 17/10 (2006.01)**
- [25] EN
- [54] **DRILL STRING MOUNTABLE WELLBORE CLEANUP APPARATUS AND METHOD**
- [54] **APPAREIL DE NETTOYAGE DE PUIITS EN MESURE D'ETRE MONTE SUR UN TRAIN DE TIGES DE FORAGE**
- [72] LEIPER, SIMON, AE
- [72] ROBERTSON, KEVIN, AE
- [73] ODFJELL WELL SERVICES NORWAY AS, [85] 2014-09-16
- [86] 2013-06-26 (PCT/NO2013/050119)
- [87] (WO2014/003576)
- [30] US (61/665,110) 2012-06-27
- [30] US (13/710,644) 2012-12-11

[11] **2,868,291**  
[13] C

- [51] **Int.Cl. H02H 3/16 (2006.01)**
- [25] EN
- [54] **NEUTRAL GROUNDING RESISTOR MONITOR**
- [54] **DISPOSITIF DE SURVEILLANCE D'UNE RESISTANCE DE LA MISE A LA TERRE DU NEUTRE**
- [72] VANGOOL, MICHAEL P., CA
- [72] BAKER, GEOFFREY J., CA
- [73] LITTELFUSE, INC., [85] 2014-09-23
- [86] 2013-04-11 (PCT/US2013/036256)
- [87] (WO2013/155356)
- [30] US (61/623,478) 2012-04-12

[11] **2,868,570**  
[13] C

- [51] **Int.Cl. H02B 1/015 (2006.01) B60L 53/30 (2019.01) B60L 3/04 (2006.01) H02B 1/03 (2006.01) H02J 7/02 (2016.01) H01H 9/22 (2006.01) H01H 83/20 (2006.01)**
- [25] EN
- [54] **ENCLOSED METERING AND PROTECTIVE ELECTRICAL APPARATUS INCLUDING AN EXTERNAL DISCONNECT HANDLE**
- [54] **APPAREIL ELECTRIQUE DE MESURE ET DE PROTECTION SOUS BOITIER FERME COMPRENANT UNE POIGNEE DE DECONNEXION EXTERIEURE**
- [72] VAN FOSSEN, ANDREW L., US
- [72] JOHNSON, JEFFREY L., US
- [72] WELSH, DAVID R., US
- [72] OCCHIPINTI, MATTHEW D., US
- [72] GEHLBACH, JAMES L., US
- [73] EATON INTELLIGENT POWER LIMITED, [85] 2014-09-25
- [86] 2013-01-30 (PCT/US2013/023763)
- [87] (WO2013/158193)
- [30] US (13/450,571) 2012-04-19

[11] **2,868,029**  
[13] C

- [51] **Int.Cl. F17C 7/02 (2006.01)**
- [25] EN
- [54] **PUMPLESS FLUID DISPENSER**
- [54] **DISTRIBUTEUR DE FLUIDE SANS POMPE**
- [72] MACKEY, MICHAEL, US
- [73] GP STRATEGIES CORPORATION, [85] 2014-09-19
- [86] 2013-04-04 (PCT/US2013/035275)
- [87] (WO2013/152192)
- [30] US (13/439,777) 2012-04-04
- [30] US (13/856,261) 2013-04-03

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,869,015**  
[13] C

[51] **Int.Cl. A01N 31/08 (2006.01) A01N 31/16 (2006.01) A01N 43/54 (2006.01) A01N 47/44 (2006.01) A61L 29/08 (2006.01) A61L 29/14 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR APPLYING A NOVEL ANTIMICROBIAL COATING MATERIAL TO A MEDICAL DEVICE**

[54] **SYSTEMES ET PROCESSES POUR L'APPLICATION D'UN NOUVEAU MATERIAU DE REVETEMENT ANTIMICROBIEN SUR UN DISPOSITIF MEDICAL**

[72] BURKHOLZ, JONATHAN KARL, US

[72] HOANG, MINH QUANG, US

[73] BECTON, DICKINSON AND COMPANY,

[85] 2014-09-29

[86] 2013-03-28 (PCT/US2013/034356)

[87] (WO2013/151860)

[30] US (13/438,559) 2012-04-03

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[11] **2,869,421**  
[13] C

[51] **Int.Cl. B67B 7/92 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR OPENING AN AMPOULE**

[54] **DISPOSITIF ET PROCEDURE D'OUVERTURE D'AMPOULE**

[72] OBERLI, JOEL, CH

[72] RIESEWEBER, GUNNAR, CH

[72] ROTH, CHRISTIAN, CH

[73] DEPUY SYNTHES PRODUCTS, LLC,

[73] DEPUY SYNTHES PRODUCTS, INC.,

[85] 2014-10-02

[86] 2013-03-13 (PCT/US2013/030739)

[87] (WO2013/151696)

[30] US (61/619,756) 2012-04-03

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[11] **2,869,653**  
[13] C

[51] **Int.Cl. A61B 17/06 (2006.01) A61L 17/00 (2006.01)**

[25] EN

[54] **PACKAGED ANTIMICROBIAL MEDICAL DEVICE HAVING IMPROVED SHELF LIFE AND METHOD OF PREPARING SAME**

[54] **DISPOSITIF MEDICAL ANTIMICROBIEN SOUS EMBALLAGE AYANT UNE DUREE DE CONSERVATION AMELIOREE ET SON PROCEDURE DE PREPARATION**

[72] PRIKRIL, MICHAEL DAVID, US

[72] SCALZO, HOWARD L., US

[72] GISIN, LEON, US

[73] ETHICON LLC,

[85] 2014-10-03

[86] 2013-04-05 (PCT/US2013/035401)

[87] (WO2013/152271)

[30] US (61/621,337) 2012-04-06

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[11] **2,869,804**  
[13] C

[51] **Int.Cl. A61G 7/05 (2006.01) A61G 7/012 (2006.01)**

[25] EN

[54] **PATIENT SUPPORT GUARD STRUCTURE**

[54] **STRUCTURE DE PROTECTION D'UN SUPPORT DE PATIENT**

[72] ROUSSY, RICHARD B., CA

[72] GEORGE, CHRISTOPHER A., CA

[72] JACOB, CHRISTOPHER S., CA

[72] CONNELL, JASON, CA

[73] STRYKER CORPORATION,

[85] 2014-10-07

[86] 2013-04-12 (PCT/CA2013/000354)

[87] (WO2013/152438)

[30] US (61/623,559) 2012-04-12

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[11] **2,869,829**  
[13] C

[51] **Int.Cl. E01H 5/00 (2006.01) E01H 5/07 (2006.01) E01H 5/09 (2006.01)**

[25] EN

[54] **SNOW REMOVAL DEVICE**

[54] **DISPOSITIF DE DENEIGEMENT**

[72] ARNTZ, HENDRIKUS PETRUS MARIA, NL

[73] SNOCOM B.V.,

[85] 2014-10-07

[86] 2013-04-08 (PCT/EP2013/057325)

[87] (WO2013/153040)

[30] US (61/623,918) 2012-04-13

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[11] **2,869,833**  
[13] C

[51] **Int.Cl. C02F 1/44 (2006.01) B01D 61/02 (2006.01) B01D 61/14 (2006.01) B01D 61/16 (2006.01) B01D 61/58 (2006.01) C02F 1/04 (2006.01) C02F 1/58 (2006.01) C02F 1/60 (2006.01) C02F 9/00 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR TREATING ACCOMPANIED WATER FROM WELL**

[54] **PROCEDURE ET DISPOSITIF DE TRAITEMENT DE L'EAU ASSOCIEE ISSUE D'UN PUIT**

[72] FUJIWARA, SHIGEKI, JP

[72] WATANABE, ERI, JP

[72] TOMIDA, YOHEI, JP

[72] FUCHIGAMI, KOJI, JP

[72] TSUJI, TAKESHI, JP

[72] MINAMIZATO, YASUHIRO, JP

[72] ANDO, YASUTO, JP

[72] MORIYAMA, YOSHITAKA, JP

[73] JFE ENGINEERING CORPORATION,

[85] 2014-10-07

[86] 2012-11-26 (PCT/JP2012/007552)

[87] (WO2013/153587)

[30] JP (2012-090536) 2012-04-11

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[11] **2,869,919**  
[13] C

[51] **Int.Cl. F01D 5/02 (2006.01) F16D 1/10 (2006.01)**

[25] FR

[54] **COUPLING OF SHAFTS USING VARIABLE-PROFILE SPLINES**

[54] **ACCOUPLLEMENT D'ARBRES PAR CANNELURES A PROFIL EVOLUTIF**

[72] BOIS, STEPHANE, FR

[72] PATIN, GUILLAUME, FR

[73] SNECMA,

[85] 2014-10-08

[86] 2013-04-12 (PCT/FR2013/050795)

[87] (WO2013/153339)

[30] FR (1253432) 2012-04-13

**Brevets canadiens délivrés  
14 janvier 2020**

[11] **2,870,152**

[13] C

- [51] **Int.Cl. B23K 9/095 (2006.01) H01R 9/05 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR DETECTING WELDING AND CUTTING PARAMETERS**  
[54] **SYSTEMES ET METHODES DE DETECTION DE PARAMETRES DE SOUDAGE ET DE COUPE**  
[72] HOLVERSON, TODD EARL, US  
[72] LEITERITZ, NATHAN GERALD, US  
[72] SCHROEDER, JEFFERY P., US  
[73] ILLINOIS TOOL WORKS INC.,  
[85] 2014-10-09  
[86] 2013-04-16 (PCT/US2013/036720)  
[87] (WO2013/158601)  
[30] US (61/636,014) 2012-04-20  
[30] US (61/636,292) 2012-04-20  
[30] US (13/770,769) 2013-02-19

[11] **2,870,162**

[13] C

- [51] **Int.Cl. B23K 9/10 (2006.01) B23K 9/173 (2006.01) B23K 9/32 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR PAIRING WELDING DEVICES**  
[54] **SYSTEME ET PROCEDE D'ACCOUPLLEMENT DE DISPOSITIFS DE SOUDAGE**  
[72] BEISTLE, EDWARD G., US  
[72] NELSON, ANDREW D., US  
[73] ILLINOIS TOOL WORKS INC.,  
[85] 2014-10-09  
[86] 2013-05-30 (PCT/US2013/043486)  
[87] (WO2013/181470)  
[30] US (61/653,887) 2012-05-31  
[30] US (13/857,509) 2013-04-05

[11] **2,870,268**

[13] C

- [51] **Int.Cl. F02B 47/02 (2006.01) F02M 25/03 (2006.01)**  
[25] EN  
[54] **INTERNALLY COOLED HIGH COMPRESSION LEAN-BURNING INTERNAL COMBUSTION ENGINE**  
[54] **MOTEUR A COMBUSTION INTERNE A MELANGE PAUVRE, A COMPRESSION ELEVEE ET A REFROIDISSEMENT INTERNE**  
[72] MULYE, NIRMAL, US  
[73] NOSTRUM ENERGY PTE. LTD.,  
[85] 2014-10-10  
[86] 2012-04-11 (PCT/US2012/033088)  
[87] (WO2012/142135)  
[30] US (61/474,240) 2011-04-11

[11] **2,872,130**

[13] C

- [51] **Int.Cl. G06F 13/00 (2006.01)**  
[25] EN  
[54] **INFORMATION PROCESSING APPARATUS, RENDERING APPARATUS, METHOD AND PROGRAM**  
[54] **APPAREIL DE TRAITEMENT D'INFORMATIONS, APPAREIL, PROCEDE ET PROGRAMME DE RENDU**  
[72] PERRIN, CYRIL, FR  
[72] TAIT, ALEX, CA  
[73] SQUARE ENIX HOLDINGS CO., LTD.,  
[85] 2014-05-26  
[86] 2014-02-28 (PCT/JP2014/055886)  
[87] (WO2014/136920)  
[30] US (61/772,690) 2013-03-05

[11] **2,873,378**

[13] C

- [51] **Int.Cl. C12P 7/64 (2006.01) A23C 19/04 (2006.01) C11B 3/00 (2006.01) C11C 3/00 (2006.01) C11C 3/02 (2006.01)**  
[25] EN  
[54] **LIPASE IN SHORT-CHAIN ESTERIFICATION OF FATTY ACIDS**  
[54] **LIPASE UTILISEE DANS L'ESTERIFICATION D'ACIDES GRAS A CHAINE COURTE**  
[72] SPELBRINK, ROBIN ERIC JACOBUS, NL  
[72] GIUSEPPIN, MARCO LUIGI FEDERICO, NL  
[72] EGMOND, MAARTEN ROBERT, NL  
[73] COOPERATIE AVEBE U.A.,  
[85] 2014-11-12  
[86] 2013-07-03 (PCT/NL2013/050489)  
[87] (WO2014/007622)  
[30] EP (12174894.1) 2012-07-04

[11] **2,873,381**

[13] C

- [51] **Int.Cl. A23J 1/00 (2006.01) A23J 3/00 (2006.01) A23J 3/14 (2006.01)**  
[25] EN  
[54] **POTATO PROTEIN ISOLATES**  
[54] **ISOLATS DE PROTEINES DE POMME DE TERRE**  
[72] GIUSEPPIN, MARCO LUIGI FEDERICO, NL  
[72] LAUS, MARC CHRISTIAAN, NL  
[72] SCHIPPER, JAN, NL  
[73] COOPERATIE AVEBE U.A.,  
[85] 2014-11-12  
[86] 2013-07-10 (PCT/NL2013/050522)  
[87] (WO2014/011042)  
[30] EP (12175944.3) 2012-07-11

**Canadian Patents Issued  
January 14, 2020**

---

[11] **2,873,663**  
[13] C

[51] **Int.Cl. C07D 403/04 (2006.01)**  
[25] EN  
[54] **AMORPHOUS FORM OF AN AKT INHIBITING PYRIMIDINYL-CYCLOPENTANE COMPOUND, COMPOSITIONS AND METHODS THEREOF**  
[54] **FORME AMORPHE D'UN COMPOSE PYRIMIDINYL-CYCLOPENTANE INHIBITEUR DE AKT, COMPOSITIONS ET PROCEDES DE CELLE-CI**  
[72] CHAKRAVARTY, PAROMA, US  
[72] KOTHARI, SANJEEV, US  
[72] GOSSELIN, FRANCIS, US  
[72] SAVAGE, SCOTT J., US  
[72] STULTS, JEFFREY, US  
[73] GENENTECH, INC.,  
[85] 2014-11-13  
[86] 2013-05-17 (PCT/US2013/041728)  
[87] (WO2013/173811)  
[30] US (61/648,536) 2012-05-17

---

[11] **2,874,565**  
[13] C

[51] **Int.Cl. B23K 26/38 (2014.01) H01S 3/042 (2006.01)**  
[25] FR  
[54] **METHOD AND DEVICE FOR DRILLING A WORKPIECE WITH LASER PULSES**  
[54] **PROCEDE ET DISPOSITIF DE PERCAGE D'UNE PIECE PAR IMPULSIONS LASER**  
[72] LE MEUR, YVES, FR  
[72] MOTTIN, JEAN-BAPTISTE, FR  
[73] SNECMA,  
[85] 2014-11-24  
[86] 2013-05-30 (PCT/FR2013/051214)  
[87] (WO2013/178950)  
[30] FR (1255128) 2012-06-01

---

[11] **2,874,912**  
[13] C

[51] **Int.Cl. A61M 16/04 (2006.01)**  
[25] EN  
[54] **LARYNGEAL MASK HAVING A SUPRAGLOTTIC TUBE**  
[54] **MASQUE LARYNGE MUNI D'UN TUBE SUPRAGLOTTIQUE**  
[72] DUBACH, WERNER F., CH  
[73] SINGULARITY AG,  
[85] 2014-11-27  
[86] 2013-05-29 (PCT/EP2013/061017)  
[87] (WO2013/182457)  
[30] CH (00767/12) 2012-06-04

---

[11] **2,875,204**  
[13] C

[51] **Int.Cl. B44B 1/02 (2006.01) B44B 1/00 (2006.01)**  
[25] EN  
[54] **JEWELRY MANDREL PLIERS AND METHOD OF USING SAME**  
[54] **PINCE A BECS POUR BIJOUTERIE ET PROCEDE POUR SON UTILISATION**  
[72] BULLARD, PATRICIA, US  
[73] WUBBERS, LLC,  
[85] 2014-11-28  
[86] 2012-06-08 (PCT/US2012/041719)  
[87] (WO2012/170927)  
[30] US (61/494,705) 2011-06-08  
[30] US (13/491,755) 2012-06-08

---

[11] **2,875,647**  
[13] C

[51] **Int.Cl. B65D 35/02 (2006.01)**  
[25] FR  
[54] **BUTT-WELDED TUBULAR PACKAGING BODY**  
[54] **CORPS TUBULAIRE D'EMBALLAGE SOUDE BOUT A BOUT**  
[72] THOMASSET, JACQUES, CH  
[72] KELLER, GERHARD, CH  
[73] AISAPACK HOLDING S.A.,  
[85] 2014-12-03  
[86] 2013-06-12 (PCT/IB2013/054816)  
[87] (WO2013/186723)  
[30] EP (12172306.8) 2012-06-15

---

[11] **2,875,952**  
[13] C

[51] **Int.Cl. B66B 29/00 (2006.01)**  
[25] EN  
[54] **SAFETY BRAKE FOR AN ESCALATOR OR FOR A TRAVELATOR**  
[54] **FREIN DE SECURITE DESTINE A UN ESCALIER ROULANT OU A UN TROTTOIR ROULANT**  
[72] BERGER, MICHAEL, AT  
[72] MATHEISL, MICHAEL, AT  
[72] SCHULZ, ROBERT, AT  
[72] ILLEDITS, THOMAS, AT  
[72] EIDLER, WERNER, AT  
[73] INVENTIO AG,  
[85] 2014-12-05  
[86] 2013-07-03 (PCT/EP2013/064073)  
[87] (WO2014/009227)  
[30] EP (12176419.5) 2012-07-13

---

[11] **2,878,405**  
[13] C

[51] **Int.Cl. C08G 69/20 (2006.01)**  
[25] EN  
[54] **CATALYSTS FOR THE PRODUCTION OF CAST POLYAMIDE, PROCESSES FOR PRODUCTION THEREOF AND USE THEREOF**  
[54] **CATALYSEURS DE PRODUCTION DE POLYAMIDE COULE, LEUR PROCEDE DE PRODUCTION ET UTILISATION DE CEUX-CI**  
[72] LAUFER, WILHELM, DE  
[72] UESTUENBAS, SERDAR, DE  
[73] LANXESS DEUTSCHLAND GMBH,  
[85] 2015-01-06  
[86] 2013-06-06 (PCT/EP2013/061726)  
[87] (WO2014/005791)  
[30] EP (12175416.2) 2012-07-06

---

[11] **2,879,660**  
[13] C

[51] **Int.Cl. G05D 7/01 (2006.01) B04C 11/00 (2006.01) E03F 5/10 (2006.01) F15D 1/02 (2006.01)**  
[25] EN  
[54] **METHOD OF CONFIGURING A VORTEX FLOW CONTROL DEVICE AND A VORTEX FLOW CONTROL DEVICE**  
[54] **PROCEDE DE CONFIGURATION D'UN DISPOSITIF DE COMMANDE D'ECOULEMENT TOURBILLONNAIRE, ET DISPOSITIF DE COMMANDE D'ECOULEMENT TOURBILLONNAIRE**  
[72] JARMAN, DANIEL STUART, GB  
[72] ANDOH, ROBERT YAW GYAMFI, US  
[72] LECORNU, JEREMY PAUL, GB  
[72] OSEI, KWABENA, US  
[73] HYDRO INTERNATIONAL PLC,  
[85] 2015-01-20  
[86] 2013-07-25 (PCT/GB2013/051987)  
[87] (WO2014/020314)  
[30] GB (1213721.2) 2012-08-02

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,880,021**  
[13] C

[51] **Int.Cl. C07D 403/10 (2006.01) A61K 31/495 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **QUINONE COMPOUNDS AND THEIR USES FOR THE TREATMENT OF CANCER**  
[54] **COMPOSES DE QUINONE ET LEURS UTILISATIONS POUR LE TRAITEMENT DE CANCER**  
[72] MCGOWN, ALAN, GB  
[72] HADFIELD, JOHN, GB  
[72] BUTLER, JOHN, GB  
[73] ONCO-NX LIMITED,  
[85] 2015-01-23  
[86] 2013-07-30 (PCT/EP2013/065968)  
[87] (WO2014/020012)  
[30] GB (1213486.2) 2012-07-30

---

[11] **2,880,110**  
[13] C

[51] **Int.Cl. A61B 10/04 (2006.01)**  
[25] EN  
[54] **ENDOSCOPIC BIOPSY INSTRUMENT, ENDOSCOPE, AND METHOD FOR TAKING A BIOPSY SAMPLE**  
[54] **INSTRUMENT DE BIOPSIE ENDOSCOPIQUE, ENDOSCOPE ET PROCEDE DE PRELEVEMENT D'UN ECHANTILLON DE BIOPSIE**  
[72] WALTHER, CHARLES, SE  
[73] BIBBINSTRUMENTS AB,  
[85] 2015-01-26  
[86] 2013-08-02 (PCT/EP2013/066275)  
[87] (WO2014/020150)  
[30] SE (1250909-7) 2012-08-03

---

[11] **2,880,361**  
[13] C

[51] **Int.Cl. C23F 11/14 (2006.01) F16L 58/00 (2006.01) F17D 3/12 (2006.01)**  
[25] EN  
[54] **CORROSION INHIBITION COMPOSITION FOR PIPELINES, PROCESS OF ELABORATION AND SYNTHESIS**  
[54] **COMPOSITION ANTIROUILLE POUR LES PIPELINES, PROCEDE D'ELABORATION ET SYNTHESE**  
[72] MARIN CRUZ, JESUS, MX  
[72] VEGA PAZ, ARACELI, MX  
[72] MONTIEL SANCHEZ, LUISA ELENA, MX  
[72] CASTILLO CERVANTES, SALVADOR, MX  
[72] MARTINEX PALOU, RAFAEL, MX  
[72] ESTRADA MARTINEZ, ARQUIMEDES, MX  
[72] QUEJ AKE, LUIS MANUEL, MX  
[72] BENITEZ AGUILAR, JOSE LUIS RODOLFO, MX  
[72] SANCHEZ GARCIA, VERONICA, MX  
[73] INSTITUTO MEXICANO DEL PETROLEO,  
[86] (2880361)  
[87] (2880361)  
[22] 2015-01-28

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[11] **2,880,897**  
[13] C

[51] **Int.Cl. C07K 14/33 (2006.01)**  
[25] EN  
[54] **METHODS FOR THE MANUFACTURE OF PROTEOLYTICALLY PROCESSED POLYPEPTIDES**  
[54] **PROCEDES POUR REALISER DES POLYPEPTIDES TRAITES DE MANIERE PROTEOLYTIQUE**  
[72] RUMMEL, ANDREAS, DE  
[73] IPSEN BIOINNOVATION LIMITED,  
[85] 2015-02-03  
[86] 2012-11-21 (PCT/EP2012/073283)  
[87] (WO2014/079495)

---

[11] **2,881,225**  
[13] C

[51] **Int.Cl. C08L 77/00 (2006.01) A61L 29/00 (2006.01) B26B 21/44 (2006.01) C08L 75/04 (2006.01)**  
[25] EN  
[54] **LUBRICATING RESIN COMPOSITION**  
[54] **COMPOSITION DE RESINE LUBRIFIANTE**  
[72] OZAWA, HITOSHI, JP  
[72] TAKEMORI, SHINICHI, JP  
[72] MASUDA, TSUYOSHI, JP  
[73] SUMITOMO SEIKA CHEMICALS CO., LTD.,  
[85] 2015-02-05  
[86] 2013-07-26 (PCT/JP2013/070363)  
[87] (WO2014/024706)  
[30] JP (2012-178432) 2012-08-10

---

[11] **2,881,238**  
[13] C

[51] **Int.Cl. A61K 31/132 (2006.01) A61P 15/00 (2006.01)**  
[25] EN  
[54] **PUTRESCINE AND METHOD TO REDUCE RISK OF ANEUPLOID PREGNANCY**  
[54] **PUTRESCINE ET PROCEDE DE REDUCTION DU RISQUE DE GROSSESSE ANEUPLOIDE**  
[72] LIU, XINGQUAN JOHNE, CA  
[72] TAO, YONG, CA  
[73] OTTAWA HOSPITAL RESEARCH INSTITUTE,  
[85] 2015-02-06  
[86] 2013-08-21 (PCT/CA2013/050645)  
[87] (WO2014/029023)  
[30] US (61/692,306) 2012-08-23

---

[11] **2,881,349**  
[13] C

[51] **Int.Cl. A61B 17/80 (2006.01)**  
[25] FR  
[54] **DEVICE FOR COAPTATION OF BONE FRAGMENTS AND METHODS FOR PRODUCING SUCH A DEVICE.**  
[54] **DISPOSITIF DE COAPTATION DE FRAGMENTS D'OS ET PROCEDES DE FABRICATION D'UN TEL DISPOSITIF.**  
[72] IMPELLIZZERI, FREDERIC, FR  
[73] TORNIER,  
[85] 2015-02-05  
[86] 2013-08-09 (PCT/FR2013/051920)  
[87] (WO2014/027160)  
[30] FR (1257787) 2012-08-13

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,882,402**  
[13] C

[51] **Int.Cl. B29B 11/16 (2006.01) B29C 53/04 (2006.01) B29C 70/22 (2006.01) B29C 70/46 (2006.01)**

[25] FR

[54] **DEVICE AND METHOD FOR PRODUCING PREFORMS**

[54] **DISPOSITIF ET PROCÉDE POUR LA RÉALISATION DE PREFORMES**

[72] MATHON, RICHARD, FR

[72] MAGNAUDEIX, DOMINIQUE, FR

[72] SOUHAITE, NOEMIE, FR

[72] MARCHAL, YANN, FR

[72] GIMAT, MATTHIEU, US

[73] SNECMA,

[85] 2015-02-18

[86] 2013-08-14 (PCT/FR2013/051942)

[87] (WO2014/033390)

[30] FR (1258041) 2012-08-28

---

[11] **2,882,466**  
[13] C

[51] **Int.Cl. B25J 19/02 (2006.01) B25J 9/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR POSITIONING AN AUTOMATED ASSEMBLY TOOL RELATIVE TO A STRUCTURE**

[54] **SYSTEME ET METHODE DE POSITIONNEMENT D'UN OUTIL AUTOMATISE RELATIVEMENT A UNE STRUCTURE**

[72] REID, ERIC M., US

[72] BANKS, DAVID PAUL, US

[72] JONES, DARRELL DARWIN, US

[73] THE BOEING COMPANY,

[86] (2882466)

[87] (2882466)

[22] 2015-02-18

[30] US (61/986,796) 2014-04-30

[30] US (14/558,853) 2014-12-03

---

[11] **2,882,770**  
[13] C

[51] **Int.Cl. B65B 5/10 (2006.01) B65B 57/20 (2006.01) G01S 17/02 (2006.01)**

[25] EN

[54] **A STORAGE AND DOSING STATION FOR STORAGE AND DISPENSING DOSED QUANTITIES OF SOLID DRUG PORTIONS**

[54] **STATION DE STOCKAGE ET DE DOSAGE, POUR LE STOCKAGE ET LA DISTRIBUTION DE QUANTITES DOSEES DE PORTIONS DE MEDICAMENTS SOLIDES**

[72] VAN WIJNGAARDEN, ARIE, NL

[73] BD SWITZERLAND SARL,

[85] 2015-02-23

[86] 2013-08-16 (PCT/EP2013/067174)

[87] (WO2014/032996)

[30] EP (12182634.1) 2012-08-31

---

[11] **2,884,174**  
[13] C

[51] **Int.Cl. C08J 9/18 (2006.01)**

[25] EN

[54] **MANUFACTURE OF POLYLACTIC ACID FOAMS USING LIQUID CARBON DIOXIDE**

[54] **FABRICATION DE MOUSSES D'ACIDE POLYLACTIQUE AU MOYEN DE DIOXYDE DE CARBONE LIQUIDE**

[72] GARANCHER, JEAN-PHILIPPE PAUL MARIE PIERRE, NZ

[73] BIOPOLYMER NETWORK LIMITED,

[85] 2015-03-04

[86] 2013-09-05 (PCT/IB2013/058296)

[87] (WO2014/037889)

[30] US (61/697,029) 2012-09-05

---

[11] **2,886,152**  
[13] C

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/395 (2006.01) A61K 49/00 (2006.01) A61K 51/10 (2006.01) A61P 37/06 (2006.01) C07K 14/54 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **ANTIGENS ASSOCIATED WITH INFLAMMATORY BOWEL DISEASE**

[54] **ANTIGENES ASSOCIES A LA MALADIE INFLAMMATOIRE CHRONIQUE DE L'INTESTIN**

[72] NERI, GIOVANNI, IT

[72] SCHWAGER, KATHRIN, CH

[72] RUZEK, MELANIE, US

[72] O'HARA, DENISE, US

[72] CHEN, JIANQING, US

[73] PHILOGEN S.P.A.,

[85] 2015-03-25

[86] 2012-10-03 (PCT/US2012/058574)

[87] (WO2014/055073)

---

[11] **2,887,093**  
[13] C

[51] **Int.Cl. B61L 3/12 (2006.01) B61L 15/00 (2006.01)**

[25] EN

[54] **OPERATOR CONTROL SYSTEM FOR OPERATOR CONTROL OF FUNCTIONAL UNITS FOR A RAIL VEHICLE**

[54] **SYSTEME DE COMMANDE POUR COMMANDER DES UNITES FONCTIONNELLES DANS UN VEHICULE FERROVIAIRE**

[72] KESSNER, MARTIN, DE

[73] SIEMENS MOBILITY GMBH,

[85] 2015-04-02

[86] 2013-09-18 (PCT/EP2013/069328)

[87] (WO2014/053318)

[30] DE (10 2012 218 143.1) 2012-10-04

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,887,157**  
[13] C

[51] **Int.Cl. C09D 143/02 (2006.01) C09D 133/00 (2006.01)**  
[25] EN  
[54] **AQUEOUS COATING COMPOSITION WITH IMPROVED VISCOSITY STABILITY**  
[54] **COMPOSITION DE REVETEMENT AQUEUSE AYANT UNE STABILITE DE VISCOSITE AMELIOREE**  
[72] WANG, TAO, CN  
[72] LI, JUAN, CN  
[72] CHEN, JUNYU, CN  
[72] CUI, LONGLAN, CN  
[73] DOW GLOBAL TECHNOLOGIES LLC,  
[73] ROHM AND HAAS COMPANY,  
[85] 2015-03-31  
[86] 2012-10-12 (PCT/CN2012/082845)  
[87] (WO2014/056184)

---

[11] **2,887,441**  
[13] C

[51] **Int.Cl. C08L 77/00 (2006.01) C08K 7/14 (2006.01)**  
[25] EN  
[54] **POLYAMIDE MOULDING COMPOSITION AND USE THEREOF**  
[54] **COMPOSITION DE MOULAGE EN POLYAMIDE ET SON UTILISATION**  
[72] AEPLI, ETIENNE, CH  
[73] EMS-PATENT AG,  
[86] (2887441)  
[87] (2887441)  
[22] 2015-04-07  
[30] EP (EP 14 164 801.4) 2014-04-15

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[11] **2,888,275**  
[13] C

[51] **Int.Cl. B32B 37/30 (2006.01) B65D 30/08 (2006.01)**  
[25] EN  
[54] **THERMOPLASTIC MULTI-PLY FILM WITH METALLIC APPEARANCE**  
[54] **FILM THERMOPLASTIQUE MULTICOUCHE PRESENTANT UN ASPECT METALLIQUE**  
[72] CISEK, KENNETH E., US  
[72] FISH, THEODORE J., US  
[72] LAROCQUE, TIM, US  
[72] FRASER, ROBERT W., US  
[73] THE GLAD PRODUCTS COMPANY,  
[85] 2015-04-16  
[86] 2013-10-22 (PCT/US2013/066088)  
[87] (WO2014/066329)  
[30] US (13/660,844) 2012-10-25

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[11] **2,888,331**  
[13] C

[51] **Int.Cl. C08B 15/08 (2006.01) D21H 11/18 (2006.01) D21H 11/20 (2006.01)**  
[25] EN  
[54] **CELLULOSE NANOFIBERS**  
[54] **NANOFIBRES DE CELLULOSE**  
[72] TSUJI, SHIHO, JP  
[72] NAKAYAMA, TAKESHI, JP  
[72] MIYAWAKI, SHOICHI, JP  
[73] NIPPON PAPER INDUSTRIES, CO., LTD.,  
[85] 2015-04-14  
[86] 2013-10-07 (PCT/JP2013/077220)  
[87] (WO2014/061485)  
[30] JP (2012-228681) 2012-10-16

---

[11] **2,889,959**  
[13] C

[51] **Int.Cl. B65D 88/08 (2006.01) B65D 90/02 (2019.01)**  
[25] EN  
[54] **VERTICAL FLUID STORAGE TANK**  
[54] **RESERVOIR VERTICAL DE STOCKAGE DE LIQUIDE**  
[72] HUGHES, MATTHEW J., US  
[72] SPECIALE, MARC, US  
[73] JWF INDUSTRIES INC.,  
[86] (2889959)  
[87] (2889959)  
[22] 2015-05-05  
[30] US (61/989,236) 2014-05-06  
[30] US (14/703,272) 2015-05-04

---

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[11] **2,889,997**  
[13] C

[51] **Int.Cl. A45D 6/04 (2006.01)**  
[25] FR  
[54] **HAIR ROLLER WINDER**  
[54] **ENROULEUR DE BIGOUDIS**  
[72] JULEMONT, PIERRE, BE  
[73] BABYLISS FACO SPRL,  
[85] 2015-04-30  
[86] 2014-02-06 (PCT/EP2014/052307)  
[87] (WO2014/122203)  
[30] EP (13154350.6) 2013-02-07

---

[11] **2,890,019**  
[13] C

[51] **Int.Cl. B65G 1/16 (2006.01) B65G 3/00 (2006.01) B66C 13/18 (2006.01) B66C 13/48 (2006.01) B66C 17/06 (2006.01)**  
[25] EN  
[54] **METHOD FOR ARRANGING COILS IN A WAREHOUSE**  
[54] **PROCEDE D'AGENCEMENT DE BOBINES DANS UN ENTREPOT**  
[72] TSAFARIDIS, DEMETRIUS, CA  
[72] BONI, MARTIN, CA  
[73] CAREGO INNOVATIVE SOLUTIONS INC.,  
[85] 2015-04-28  
[86] 2013-04-05 (PCT/CA2013/000329)  
[87] (WO2014/066976)  
[30] US (61/721,865) 2012-11-02  
[30] CA (2,795,624) 2012-11-14

---

[11] **2,890,689**  
[13] C

[51] **Int.Cl. C12P 7/06 (2006.01) B01D 53/62 (2006.01) C12N 1/20 (2006.01) C12P 7/08 (2006.01)**  
[25] EN  
[54] **A PROCESS FOR CULTURING MICROORGANISMS ON A SELECTED SUBSTRATE**  
[54] **PROCEDE POUR CULTIVER DES MICRO-ORGANISMES SUR UN SUBSTRAT SELECTIONNE**  
[72] SENARATNE, RYAN, US  
[73] INEOS BIO SA,  
[73] SENARATNE, RYAN,  
[85] 2015-05-07  
[86] 2013-05-14 (PCT/US2013/041029)  
[87] (WO2013/176931)  
[30] US (61/650,098) 2012-05-22  
[30] US (61/650,093) 2012-05-22  
[30] US (61/650,077) 2012-05-22  
[30] US (61/650,084) 2012-05-22  
[30] US (13/892,482) 2013-05-13

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,891,488**  
[13] C

[51] **Int.Cl. C10B 57/14 (2006.01) C10B 53/02 (2006.01) C10L 9/08 (2006.01)**

[25] EN

[54] **MULTI-LEVEL FURNACE AND METHOD FOR THERMAL TREATMENT OF A MATERIAL FLOW**

[54] **FOUR A PLUSIEURS ETAGES ET PROCEDE DE TRAITEMENT THERMIQUE D'UN FLUX DE MATIERE**

[72] LAMPE, KARL, DE

[72] KARAKUS, YILMAZ, DE

[72] DENKER, JURGEN, DE

[72] FLEUTER, PETER, DE

[73] THYSSENKRUPP INDUSTRIAL SOLUTIONS AG,

[85] 2015-05-14

[86] 2013-11-08 (PCT/EP2013/073349)

[87] (WO2014/076000)

[30] DE (10 2012 111 050.6) 2012-11-16

---

[11] **2,892,148**  
[13] C

[51] **Int.Cl. F16H 25/20 (2006.01) F16D 3/68 (2006.01) F16H 25/24 (2006.01)**

[25] EN

[54] **LINEAR ACTUATOR FOR MOTION SIMULATOR**

[54] **ACTIONNEUR LINEAIRE POUR SIMULATEUR DE MOUVEMENT**

[72] BOULAIS, STEVE, CA

[72] ROUSSEAU, ROBERT, CA

[72] SENEAL, PIERRE, CA

[73] D-BOX TECHNOLOGIES INC.,

[85] 2015-05-20

[86] 2013-12-02 (PCT/US2013/072605)

[87] (WO2014/085803)

[30] US (61/731,578) 2012-11-30

---

[11] **2,893,266**  
[13] C

[51] **Int.Cl. G01L 19/08 (2006.01) G01L 19/14 (2006.01)**

[25] EN

[54] **OXYGEN SYSTEM HAVING SENSORS WITH A PASSIVE RFD INTERFACE**

[54] **SYSTEME D'OXYGENE AYANT DES CAPTEURS COMPRENANT UNE INTERFACE RFD PASSIVE**

[72] RICHARDSON, CHAD, US

[72] NOEHREN, WAYNE, US

[73] B/E AEROSPACE, INC.,

[85] 2015-05-29

[86] 2013-10-31 (PCT/US2013/067816)

[87] (WO2014/085021)

[30] US (61/732,160) 2012-11-30

[30] US (14/041,752) 2013-09-30

---

[11] **2,894,501**  
[13] C

[51] **Int.Cl. D04H 1/4209 (2012.01) D04H 1/4218 (2012.01) D04H 1/4226 (2012.01)**

[25] EN

[54] **A METHOD OF FORMING A CURED MINERAL FIBRE PRODUCT**

[54] **PROCEDE POUR FORMER UN PRODUIT A BASE DE FIBRES MINERALES DURCIES**

[72] NIELSEN, DAG, DK

[72] ROSENBERG, GORM, DK

[73] ROCKWOOL INTERNATIONAL A/S,

[85] 2015-06-08

[86] 2013-12-05 (PCT/EP2013/075607)

[87] (WO2014/090670)

[30] EP (12196426.6) 2012-12-11

---

[11] **2,894,812**  
[13] C

[51] **Int.Cl. G01N 21/77 (2006.01) H04W 88/02 (2009.01) G01N 1/34 (2006.01) G01N 21/62 (2006.01) G01N 33/53 (2006.01) G01N 37/00 (2006.01) G06K 9/18 (2006.01) H04N 5/335 (2011.01)**

[25] EN

[54] **WIRELESS COMMUNICATION DEVICE-BASED DETECTION SYSTEM**

[54] **SYSTEME DE DETECTION A BASE DE DISPOSITIF DE COMMUNICATION SANS FIL**

[72] CHAN, WARREN CHE WOR, CA

[72] MING, KEVIN, CA

[73] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO,

[85] 2015-06-11

[86] 2013-12-11 (PCT/CA2013/050953)

[87] (WO2014/089700)

[30] US (61/735,847) 2012-12-11

---

[11] **2,895,367**  
[13] C

[51] **Int.Cl. C05C 9/00 (2006.01)**

[25] EN

[54] **METHOD FOR REDUCING THE VISIBLE DOWNWIND DETACHED PLUME OPACITY**

[54] **PROCEDE PERMETTANT DE REDUIRE L'OPACITE DU PANACHE ISOLE VISIBLE EN AVAL**

[72] POTTHOFF, MATHIAS, DE

[72] FRANZRAHE, HARALD, DE

[72] VANMARCKE, LUC ALBERT, BE

[73] UHDE FERTILIZER TECHNOLOGY B.V.,

[85] 2015-06-17

[86] 2013-12-05 (PCT/EP2013/003676)

[87] (WO2014/094987)

[30] EP (12008535.2) 2012-12-21

**Brevets canadiens délivrés  
14 janvier 2020**

---

[11] **2,895,370**  
[13] C

[51] **Int.Cl. B65G 33/08 (2006.01)**  
[25] EN  
[54] **OPERATING GRANULAR MATERIAL CONVEYORS NEAR CAPACITY**  
[54] **FONCTIONNEMENT DE CONVOYEURS DE MATIERE GRANULAIRE A PRESQUE CAPACITE**  
[72] BEAUJOT, NORBERT, CA  
[72] KINCH, OWEN, CA  
[73] SEEDMASTER MANUFACTURING LTD.,  
[86] (2895370)  
[87] (2895370)  
[22] 2015-06-25

---

[11] **2,896,130**  
[13] C

[51] **Int.Cl. G09F 7/20 (2006.01) F16M 11/04 (2006.01) F16M 11/16 (2006.01) F16M 11/18 (2006.01) G09F 9/00 (2006.01) H05K 7/14 (2006.01)**  
[25] EN  
[54] **FIXING DEVICE**  
[54] **DISPOSITIF DE FIXATION**  
[72] WANG, JIE, CN  
[72] ZHANG, LONGHU, CN  
[73] LEYARD OPTOELECTRONIC CO., LTD.,  
[85] 2015-06-22  
[86] 2013-07-03 (PCT/CN2013/078767)  
[87] (WO2014/139251)  
[30] CN (201310081786.X) 2013-03-14

---

[11] **2,897,162**  
[13] C

[51] **Int.Cl. B64G 1/22 (2006.01) F02C 7/25 (2006.01) F02K 9/97 (2006.01) C09D 5/24 (2006.01)**  
[25] FR  
[54] **LIGHTNING PROTECTION DEVICE AND METHOD OF PRODUCING SAME**  
[54] **DISPOSITIF DE PROTECTION CONTRE LA FOUDRE ET SON PROCEDE DE REALISATION**  
[72] SOULIGNAC, THIERRY, FR  
[72] BOMBLED, FLORINE, FR  
[72] SIERRA, GUILLAUME, FR  
[73] ARIANEGROUP SAS,  
[85] 2015-07-03  
[86] 2014-01-09 (PCT/FR2014/050031)  
[87] (WO2014/108639)  
[30] FR (1300041) 2013-01-10

---

[11] **2,898,323**  
[13] C

[51] **Int.Cl. B05B 13/04 (2006.01) B05C 1/06 (2006.01) B05C 5/02 (2006.01) B25J 9/00 (2006.01) B25J 15/00 (2006.01)**  
[25] EN  
[54] **FLUID APPLICATION DEVICE**  
[54] **DISPOSITIF D'APPLICATION DE FLUIDE**  
[72] TOMUTA, RAUL, US  
[72] DAVANCENS, ANGELICA, US  
[72] TOPF, RICHARD P., US  
[72] SARH, BRANKO, US  
[73] THE BOEING COMPANY,  
[85] 2015-07-15  
[86] 2014-01-16 (PCT/US2014/011879)  
[87] (WO2014/126675)  
[30] US (13/769,569) 2013-02-18

---

[11] **2,898,370**  
[13] C

[51] **Int.Cl. A61K 35/76 (2015.01) C12N 7/00 (2006.01)**  
[25] EN  
[54] **USE OF A GENETICALLY MODIFIED INFECTIOUS MEASLES VIRUS WITH ENHANCED PRO-APOPTOTIC PROPERTIES (MV-DELTAC VIRUS) IN CANCER THERAPY**  
[54] **UTILISATION D'UN VIRUS DE LA ROUGEOLE INFECTIEUX GENETIQUEMENT MODIFIE PRESENTANT DES PROPRIETES PRO-APOPTOTIQUES AMELIOREES (VIRUS MV-DELTAC) POUR LE TRAITEMENT DU CANCER**  
[72] TANGY, FREDERIC, FR  
[72] GREGOIRE, MARC, FR  
[72] FONTENEAU, JEAN-FRANCOIS, FR  
[72] GUILLERME, JEAN-BAPTISTE, FR  
[72] COMBREDT, CHANTAL, FR  
[73] INSTITUT PASTEUR,  
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE,  
[73] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE,  
[73] UNIVERSITE DE NANTES,  
[85] 2015-07-16  
[86] 2014-01-20 (PCT/EP2014/051063)  
[87] (WO2014/114605)  
[30] EP (13305086.4) 2013-01-24

---

[11] **2,898,946**  
[13] C

[51] **Int.Cl. H02M 7/49 (2007.01)**  
[25] EN  
[54] **MODULAR MULTI-STAGE INVERTER COMPRISING SURGE ARRESTER**  
[54] **CONVERTISSEUR MODULAIRE MULTI-ETAGE POURVU D'UN CONDUCTEUR DE PROTECTION**  
[72] DOMMASCHK, MIKE, DE  
[72] EBNER, GUNTER, DE  
[72] WURFLINGER, KLAUS, DE  
[73] SIEMENS AKTIENGESSELLSCHAFT,  
[85] 2015-07-22  
[86] 2013-01-24 (PCT/EP2013/051349)  
[87] (WO2014/114339)

---

[11] **2,899,160**  
[13] C

[51] **Int.Cl. F01D 25/00 (2006.01)**  
[25] FR  
[54] **DEVICE FOR SECURING AND RETAINING AT LEAST ONE ELECTRICAL HARNESS IN A TURBOMACHINE**  
[54] **DISPOSITIF DE FIXATION ET DE MAINTIEN D'AU MOINS UN HARNAIS ELECTRIQUE DANS UNE TURBOMACHINE**  
[72] BOUDEBIZA, TEWFIK, FR  
[72] MARCILLAUD, GUILLAUME, FR  
[72] ZIEGLER, MICHEL HENRI, FR  
[73] SNECMA,  
[85] 2015-07-23  
[86] 2014-01-21 (PCT/FR2014/050107)  
[87] (WO2014/114869)  
[30] FR (1350614) 2013-01-24

---

[11] **2,899,260**  
[13] C

[51] **Int.Cl. C06B 23/04 (2006.01) C06B 25/18 (2006.01) C06B 25/34 (2006.01) C06B 45/12 (2006.01)**  
[25] EN  
[54] **POWDER FOR ACCELERATING PROJECTILES FOR MORTAR SYSTEMS**  
[54] **POUDRE POUR ACCELERER DES PROJECTILES POUR MORTIERS**  
[72] SCHADELI, ULRICH, CH  
[72] ANTENEN, DOMINIK, CH  
[72] VOGELSANGER, BEAT, CH  
[72] GFELLER, VINCENT, CH  
[73] NITROCHEMIE WIMMIS AG,  
[85] 2015-07-24  
[86] 2013-01-29 (PCT/CH2013/000017)  
[87] (WO2014/117280)

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,899,505**  
[13] C

[51] **Int.Cl. B01F 1/00 (2006.01) C02F 1/68 (2006.01)**  
[25] FR  
[54] **DEVICE FOR METERING A REAGENT BY DISSOLUTION IN A LIQUID FLOW**  
[54] **DISPOSITIF DE DOSAGE D'UN REACTIF PAR DISSOLUTION DANS UN ECOULEMENT DE LIQUIDE**  
[72] BOUKARI, MOROU, FR  
[73] PRODOSE,  
[85] 2015-07-27  
[86] 2013-02-08 (PCT/FR2013/050272)  
[87] (WO2013/124567)  
[30] FR (1251558) 2012-02-21

---

[11] **2,899,846**  
[13] C

[51] **Int.Cl. F03B 13/10 (2006.01) F03B 13/26 (2006.01) F03B 15/00 (2006.01) F03D 5/00 (2006.01)**  
[25] EN  
[54] **POWER PLANT COMPRISING A STRUCTURE AND A VEHICLE**  
[54] **CENTRALE ELECTRIQUE COMPRENANT UNE STRUCTURE ET UN VEHICULE**  
[72] MARZELIUS, OLOF, SE  
[72] QUAPPEN, ARNE, SE  
[73] MINESTO AB,  
[85] 2015-07-30  
[86] 2013-02-04 (PCT/SE2013/050091)  
[87] (WO2014/120058)

---

[11] **2,900,332**  
[13] C

[51] **Int.Cl. F16C 29/06 (2006.01)**  
[25] EN  
[54] **SUPPORT AND GUIDE DEVICE**  
[54] **DISPOSITIF DE SUPPORT ET DE GUIDAGE**  
[72] MOCHIZUKI, HIROAKI, JP  
[72] KURIBAYASHI, HIROOMI, JP  
[72] KANEKO, AKITO, JP  
[73] THK CO., LTD.,  
[85] 2015-08-05  
[86] 2014-02-06 (PCT/JP2014/052722)  
[87] (WO2014/148135)  
[30] JP (2013-058718) 2013-03-21

---

[11] **2,901,974**  
[13] C

[51] **Int.Cl. C12N 15/09 (2006.01) C12N 1/19 (2006.01) C12P 7/06 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING ETHANOL USING RECOMBINANT YEAST**  
[54] **PROCEDE DE PRODUCTION D'ETHANOL AU MOYEN DE LEVURE RECOMBINANTE**  
[72] ONISHI, TORU, JP  
[72] TADA, NOBUKI, JP  
[72] YASUTANI, NORIKO, JP  
[72] KATAHIRA, SATOSHI, JP  
[72] ISHIDA, NOBUHIRO, JP  
[72] NAGURA, RISA, JP  
[73] TOYOTA JIDOSHA KABUSHIKI KAISHA,  
[85] 2015-08-20  
[86] 2014-02-27 (PCT/JP2014/054915)  
[87] (WO2014/133092)  
[30] JP (2013-037501) 2013-02-27  
[30] JP (2014-036652) 2014-02-27

---

[11] **2,903,496**  
[13] C

[51] **Int.Cl. C07K 1/22 (2006.01) C07K 1/36 (2006.01) C07K 14/31 (2006.01)**  
[25] EN  
[54] **METHODS OF INCREASING PROTEIN PURITY USING PROTEIN A BASED CHROMATOGRAPHY**  
[54] **PROCEDES D'AUGMENTATION DE LA PURETE DE PROTEINES EN UTILISANT LA CHROMATOGRAPHIE A BASE DE PROTEINE A**  
[72] BIAN, NANYING, US  
[72] HOLSTEIN, MELISSA, US  
[73] EMD MILLIPORE CORPORATION,  
[85] 2015-09-01  
[86] 2014-03-07 (PCT/US2014/021802)  
[87] (WO2014/159064)  
[30] US (61/783,381) 2013-03-14

---

[11] **2,904,046**  
[13] C

[51] **Int.Cl. A61K 31/198 (2006.01) A61K 31/196 (2006.01) A61P 11/00 (2006.01)**  
[25] EN  
[54] **MATERIALS AND METHODS FOR IMPROVING LUNG FUNCTION AND FOR PREVENTION AND/OR TREATMENT OF RADIATION-INDUCED LUNG COMPLICATIONS**  
[54] **MATIERES ET PROCEDES POUR AMELIORER UNE FONCTION PULMONAIRE ET POUR PREVENIR ET/OU TRAITER DES COMPLICATIONS PULMONAIRES INDUITES PAR RAYONNEMENT**  
[72] VIDYASAGAR, SADASIVAN, US  
[72] OKUNIEFF, PAUL, US  
[73] UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED,  
[85] 2015-09-03  
[86] 2014-03-11 (PCT/US2014/023363)  
[87] (WO2014/164736)  
[30] US (61/775,754) 2013-03-11

---

[11] **2,905,175**  
[13] C

[51] **Int.Cl. A01G 9/02 (2018.01) G06Q 30/06 (2012.01) G06Q 50/02 (2012.01) A01G 9/029 (2018.01) B65D 85/52 (2006.01)**  
[25] EN  
[54] **INSERT AND APPARATUS FOR TRANSPLANTING PLANTS**  
[54] **INSERT ET APPAREIL POUR TRANSPLANTER DES PLANTES**  
[72] VAN ROOIJEN, NICOLAAS, AU  
[73] GOLDFIELDS COLLECTIONS PTY LTD,  
[85] 2015-09-10  
[86] 2014-03-13 (PCT/AU2014/000253)  
[87] (WO2014/138794)  
[30] AU (2013900861) 2013-03-13

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,905,336**  
[13] C

[51] **Int.Cl. A01C 7/06 (2006.01) A01C 7/08 (2006.01)**  
[25] EN  
[54] **AUXILIARY TANK EXHAUST SYSTEM FOR AN AGRICULTURAL PRODUCT DISTRIBUTION SYSTEM**  
[54] **DISPOSITIF D'ECHAPPEMENT DE RESERVOIR AUXILIAIRE POUR UN MECANISME DE DISTRIBUTION DE PRODUIT AGRICOLE**  
[72] SCHILLING, ROBIN BRUNO, CA  
[72] STUART, GRAHAM DOUGLAS, CA  
[72] ROBERGE, MARTIN J., CA  
[73] CNH INDUSTRIAL CANADA, LTD.,  
[86] (2905336)  
[87] (2905336)  
[22] 2015-09-21  
[30] US (62/075,163) 2014-11-04

---

[11] **2,905,430**  
[13] C

[51] **Int.Cl. F01D 25/00 (2006.01) B08B 3/04 (2006.01) B08B 3/14 (2006.01) F02C 7/00 (2006.01) F02C 7/30 (2006.01)**  
[25] EN  
[54] **ENGINE WASH COLLECTOR**  
[54] **COLLECTEUR DE LAVAGE DE MOTEUR**  
[72] NORDLUND, SEBASTIAN, SE  
[72] RICE, ROBERT M., US  
[72] LINDERHOLM, NIKLAS, SE  
[73] ECOSERVICES, LLC,  
[85] 2015-09-10  
[86] 2014-03-14 (PCT/US2014/028255)  
[87] (WO2014/144023)  
[30] US (61/789,028) 2013-03-15

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[11] **2,906,969**  
[13] C

[51] **Int.Cl. F04D 13/08 (2006.01) F04D 1/12 (2006.01) F04D 29/42 (2006.01) F04D 29/60 (2006.01)**  
[25] EN  
[54] **LOW PROFILE PUMP WITH THE ABILITY TO BE MOUNTED IN VARIOUS CONFIGURATIONS**  
[54] **POMPE A PROFIL BAS AYANT LA CAPACITE D'ETRE MONTEE DANS DIVERSES CONFIGURATIONS**  
[72] GELL, WILLIAM A., III, US  
[72] LOPES, JEFFREY D., US  
[72] ESTRADA, JESUS, MX  
[72] MOORMANN, RANDALL H., US  
[73] FLOW CONTROL LLC.,  
[85] 2015-09-14  
[86] 2014-03-19 (PCT/US2014/031212)  
[87] (WO2014/153403)  
[30] US (61/803,265) 2013-03-19  
[30] US (61/824,151) 2013-05-16

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[11] **2,907,584**  
[13] C

[51] **Int.Cl. G01N 17/00 (2006.01)**  
[25] EN  
[54] **DEVICE AND METHOD FOR DETECTING AND ANALYZING DEPOSITS**  
[54] **DISPOSITIF ET PROCEDE PERMETTANT DE DETECTER ET D'ANALYSER DES DEPOTS**  
[72] BIERGANNNS, PATRIC, DE  
[72] BROCHER, MARKUS, DE  
[73] SOLENIS TECHNOLOGIES CAYMAN, L.P.,  
[85] 2015-09-17  
[86] 2014-04-16 (PCT/EP2014/057796)  
[87] (WO2014/170395)  
[30] EP (13164319.9) 2013-04-18

---

[11] **2,907,899**  
[13] C

[51] **Int.Cl. F01C 21/10 (2006.01) B65B 31/02 (2006.01) F04C 2/344 (2006.01) F04C 13/00 (2006.01)**  
[25] FR  
[54] **VANE-TYPE ROTARY VACUUM PUMP**  
[54] **POMPE A VIDE ROTATIVE A PALETTES**  
[72] MULLER, DIDIER, SE  
[72] SCHALLER, CHRISTIAN, SE  
[73] ATELIERS BUSCH SA,  
[85] 2015-09-24  
[86] 2013-04-19 (PCT/EP2013/058182)  
[87] (WO2014/169962)

---

[11] **2,908,177**  
[13] C

[51] **Int.Cl. B01J 38/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR REGENERATING DENITRIFICATION CATALYST**  
[54] **PROCEDE PERMETTANT LA REGENERATION D'UN CATALYSEUR DE DENITRIFICATION**  
[72] YOSHIKAWA, TOSHIKAZU, JP  
[72] YOSHIDA, KAZUHIRO, JP  
[72] SHIMADA, HIROSHI, JP  
[72] NOBORI, MISAO, JP  
[72] ITO, ATSUSHI, JP  
[72] MIYAKE, FUMIHIRO, JP  
[72] MORIZANE, YUICHIRO, JP  
[72] KAGAWA, HIROYUKI, JP  
[73] THE CHUGOKU ELECTRIC POWER CO., INC.,  
[85] 2015-09-25  
[86] 2013-03-28 (PCT/JP2013/059382)  
[87] (WO2014/155628)

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[11] **2,908,345**  
[13] C

[51] **Int.Cl. F16L 55/11 (2006.01) F16L 55/136 (2006.01) F22B 37/22 (2006.01) G01M 3/02 (2006.01)**  
[25] FR  
[54] **PIPE-SEALING DEVICE FOR ISOLATING A TANK, A PIPE OR A SET OF TANKS AND PIPES**  
[54] **DISPOSITIF D'OBTURATION DE CANALISATION POUR L'ISOLEMENT DE BACHE, DE CANALISATION OU D'UN ENSEMBLE DE BACHES ET CANALISATIONS**  
[72] NOYON, EMMANUEL, FR  
[73] ELECTRICITE DE FRANCE,  
[85] 2015-09-28  
[86] 2013-10-04 (PCT/EP2013/070716)  
[87] (WO2014/161612)  
[30] FR (1352998) 2013-04-03

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,908,896**  
[13] C

[51] **Int.Cl. A47K 10/42 (2006.01) B65D 83/08 (2006.01)**  
[25] EN  
[54] **STACK AND METHOD OF DISPENSING**  
[54] **EMPILEMENT ET PROCEDE DE DISTRIBUTION**  
[72] STENBERG, MARTIN, SE  
[73] ESSITY HYGIENE AND HEALTH AKTIEBOLAG,  
[85] 2015-10-05  
[86] 2013-04-22 (PCT/SE2013/050432)  
[87] (WO2014/175791)

---

[11] **2,909,259**  
[13] C

[51] **Int.Cl. H04N 19/124 (2014.01) H04N 19/119 (2014.01) H04N 19/14 (2014.01) H04N 19/176 (2014.01)**  
[25] EN  
[54] **VIDEO ENCODING AND DECODING DEVICE AND METHOD IN WHICH THE GRANULARITY OF THE QUANTIZATION IS CONTROLLED**  
[54] **DISPOSITIF DE CODAGE ET DECODAGE VIDEO ET METHODE DANS LAQUELLE LA GRANULARITE DE LA QUANTIFICATION EST CONTROLEE**  
[72] AOKI, HIROFUMI, JP  
[72] CHONO, KEIICHI, JP  
[72] SENDA, YUZO, JP  
[72] SENZAKI, KENTA, JP  
[73] NEC CORPORATION,  
[86] (2909259)  
[87] (2909259)  
[22] 2012-03-08  
[62] 2,829,034  
[30] JP (2011-051291) 2011-03-09  
[30] JP (2011-095395) 2011-04-21

---

[11] **2,909,723**  
[13] C

[51] **Int.Cl. B64D 37/00 (2006.01) B60K 15/03 (2006.01) B64D 37/02 (2006.01) B64D 37/34 (2006.01)**  
[25] EN  
[54] **COOLING SYSTEM FOR A CENTER WING TANK OF AN AIRCRAFT**  
[54] **DISPOSITIF DE REFROIDISSEMENT D'UN RESERVOIR CENTRAL D'AILE D'UN AERONEF**  
[72] MORAVEC, BRADFORD A., US  
[72] GRAHAM, RODNEY N., US  
[72] GRIM, ALAN, US  
[72] MULVANEY, PATRICK J., US  
[72] ADKINS II, DAVID A., US  
[72] OLSON, ERIC C., US  
[72] JOJIC, IVANA, US  
[72] THORNTON, MARK M., US  
[72] BELIERES, JEAN-PHILIPPE A., US  
[73] THE BOEING COMPANY,  
[86] (2909723)  
[87] (2909723)  
[22] 2015-10-20  
[30] US (14/557,959) 2014-12-02

---

[11] **2,910,642**  
[13] C

[51] **Int.Cl. G08G 5/00 (2006.01) G08G 5/04 (2006.01)**  
[25] EN  
[54] **AIRCRAFT TURNS FOR INTERVAL MANAGEMENT**  
[54] **ROTATION D'UN AERONEF POUR LA GESTION DES INTERVALLES**  
[72] SCHARL, JULIEN EMILE SEBASTIEN, US  
[72] MYERS, DAVID M., US  
[72] HARALDSDOTTIR, ASLAUG, US  
[73] THE BOEING COMPANY,  
[86] (2910642)  
[87] (2910642)  
[22] 2015-10-28  
[30] US (14/568,581) 2014-12-12

---

[11] **2,912,582**  
[13] C

[51] **Int.Cl. A61B 1/267 (2006.01) A61B 5/00 (2006.01) A61M 16/04 (2006.01)**  
[25] EN  
[54] **GUIDED ENDOTRACHEAL INTUBATION SYSTEM**  
[54] **SYSTEME D'INTUBATION ENDOTRACHEALE GUIDEE**  
[72] HAYUT, ITAI, IL  
[72] FRIED, ELCHANAN, IL  
[72] NAHMIA, YAAKOV, IL  
[72] WEISS-SADAN, TOMMY, IL  
[72] SHREM, ARIEL, IL  
[73] YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSAM LTD.,  
[73] HADASIT MEDICAL RESEARCH SERVICES AND DEVELOPMENT LTD.,  
[85] 2015-11-16  
[86] 2014-05-16 (PCT/IL2014/050428)  
[87] (WO2014/184796)  
[30] US (61/824,015) 2013-05-16  
[30] US (61/950,413) 2014-03-10

---

[11] **2,913,213**  
[13] C

[51] **Int.Cl. F23C 9/00 (2006.01) F23D 14/22 (2006.01) F23D 14/24 (2006.01)**  
[25] EN  
[54] **MIXING OF RECYCLE GAS WITH FUEL GAS TO A BURNER**  
[54] **MELANGE D'UN GAZ DE RECYCLAGE AVEC UN GAZ COMBUSTIBLE POUR UN BRULEUR**  
[72] STARCKE, CLAUS ROBERT, DK  
[73] HALDOR TOPSOE A/S,  
[85] 2015-11-23  
[86] 2014-06-13 (PCT/EP2014/062401)  
[87] (WO2015/000675)  
[30] EP (13174685.1) 2013-07-02

**Brevets canadiens délivrés  
14 janvier 2020**

[11] **2,914,447**  
[13] C

- [51] **Int.Cl. H04W 16/18 (2009.01)**  
[25] EN  
[54] **DEVICE AND METHOD IN WIRELESS COMMUNICATION SYSTEM**  
[54] **DISPOSITIF ET PROCÉDE DANS UN SYSTÈME DE COMMUNICATION SANS FIL**  
[72] XU, XIAODONG, CN  
[72] YU, CUIBO, CN  
[72] HONG, YATENG, CN  
[72] LIU, YA, CN  
[72] ZHENG, CONG, CN  
[72] WEI, LIYAO, CN  
[72] SONG, XIAOJIA, CN  
[72] QIN, ZHONGBIN, CN  
[73] SONY CORPORATION,  
[85] 2015-12-03  
[86] 2014-05-30 (PCT/CN2014/078950)  
[87] (WO2014/194796)  
[30] CN (201310216858.7) 2013-06-03

[11] **2,915,038**  
[13] C

- [51] **Int.Cl. B65C 3/18 (2006.01) B67B 5/03 (2006.01)**  
[25] EN  
[54] **PLANT FOR APPLYING PROTECTIVE MEMBRANES ON BEVERAGE CANS**  
[54] **INSTALLATION POUR APPLIQUER DES MEMBRANES DE PROTECTION SUR DES CANETTES**  
[72] RIBI, LEON ANTOINE, CH  
[73] RIBI PACK SPA,  
[85] 2015-11-25  
[86] 2013-03-13 (PCT/IB2013/051966)  
[87] (WO2014/140690)

[11] **2,915,126**  
[13] C

- [51] **Int.Cl. B26B 21/40 (2006.01) B26B 21/44 (2006.01)**  
[25] EN  
[54] **SHAVING BLADE ASSEMBLY**  
[54] **ENSEMBLE LAME DE RASAGE**  
[72] BOZIKIS, IOANNIS, GR  
[73] BIC-VIOLEX SA,  
[85] 2015-12-10  
[86] 2013-06-19 (PCT/EP2013/062811)  
[87] (WO2014/202139)

[11] **2,917,379**  
[13] C

- [51] **Int.Cl. G06Q 30/02 (2012.01) G06Q 30/08 (2012.01) G06Q 50/30 (2012.01)**  
[25] EN  
[54] **PRICING ADVERTISEMENTS PRESENTED BY A CLIENT DEVICE IN A LIMITED FUNCTIONALITY STATE**  
[54] **TARIFICATION DE PUBLICITES PRESENTÉES PAR UN DISPOSITIF CLIENT EN ETAT DE FONCTIONNALITE LIMITEE**  
[72] GE, HONG, US  
[72] CATHCART, ROBERT WILLIAM, US  
[72] HOOFIEN, NIMROD, US  
[73] FACEBOOK, INC.,  
[85] 2016-01-04  
[86] 2014-08-05 (PCT/US2014/049699)  
[87] (WO2015/026519)  
[30] US (13/970,068) 2013-08-19

[11] **2,921,907**  
[13] C

- [51] **Int.Cl. F28F 27/02 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR DAMPENING FLOW VARIATIONS AND PRESSURIZING CARBON DIOXIDE**  
[54] **PROCÉDE ET APPAREIL PERMETTANT D'ATTENUER LES VARIATIONS DE DÉBIT ET DE MAINTENIR SOUS PRESSION DU DIOXYDE DE CARBONE**  
[72] GUERRA, PETER D., US  
[73] DENBURY RESOURCES INC.,  
[85] 2016-02-19  
[86] 2014-07-11 (PCT/US2014/046286)  
[87] (WO2015/013047)  
[30] US (13/950,350) 2013-07-25

[11] **2,929,368**  
[13] C

- [51] **Int.Cl. E21B 47/00 (2012.01) E21B 47/09 (2012.01) E21B 49/00 (2006.01) G01N 21/17 (2006.01)**  
[25] EN  
[54] **TEMPERATURE CORRECTION OF A GAMMA DETECTOR**  
[54] **CORRECTION DE TEMPERATURE D'UN DÉTECTEUR GAMMA**  
[72] MOAKE, GORDON L., US  
[73] HALLIBURTON ENERGY SERVICES, INC.,  
[85] 2016-05-02  
[86] 2013-12-04 (PCT/US2013/073088)  
[87] (WO2015/084339)

[11] **2,930,848**  
[13] C

- [51] **Int.Cl. B01D 71/64 (2006.01) B01D 67/00 (2006.01) B01D 71/62 (2006.01) C08G 73/10 (2006.01) C08G 73/22 (2006.01)**  
[25] EN  
[54] **MEMBRANES FOR FLUE GAS SEPARATION COMPRISING CROSSLINKED, THERMALLY REARRANGED POLY(BENZOXAZOLE-CO-IMIDE) AND PREPARATION METHOD THEREOF**  
[54] **MEMBRANE DE SEPARATION DE GAZ DE CARNEAU COMPRENANT UN COPOLYMÈRE POLY(BENZOXAZOLE-IMIDE) THERMIQUEMENT REARRANGÉ AYANT UNE STRUCTURE RETICULEE, ET SON PROCÉDE DE PREPARATION**  
[72] LEE, YOUNG MOO, KR  
[72] CALLE, MARIOLA, KR  
[72] JO, HYE JIN, KR  
[72] LEE, JONG MYOUNG, KR  
[73] IUCF-HYU (INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSIT,  
[85] 2016-05-16  
[86] 2014-11-05 (PCT/KR2014/010537)  
[87] (WO2015/072694)  
[30] KR (10-2013-0139217) 2013-11-15  
[30] KR (10-2013-0139389) 2013-11-15  
[30] KR (10-2013-0139396) 2013-11-15

[11] **2,931,949**  
[13] C

- [51] **Int.Cl. A61M 5/162 (2006.01) A61M 5/145 (2006.01) A61M 5/46 (2006.01)**  
[25] EN  
[54] **MEDICAMENT DEVICE**  
[54] **DISPOSITIF POUR MÉDICAMENT**  
[72] CRONENBERG, RICHARD, US  
[72] RAJ, ABHIJITSINH, US  
[72] CHARVIN, MATTHIEU, FR  
[72] BOOTH, DAVID, US  
[73] BECTON, DICKINSON AND COMPANY,  
[85] 2016-05-27  
[86] 2014-12-01 (PCT/US2014/067925)  
[87] (WO2015/081337)  
[30] US (61/910,373) 2013-12-01

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,932,764**  
[13] C

[51] **Int.Cl. B26B 21/40 (2006.01)**  
[25] EN  
[54] **A SHAVING BLADE CARTRIDGE**  
[54] **CARTOUCHE DE LAME DE RASAGE**  
[72] NTAVOS, VASILEIOS, GR  
[72] GEORGAKIS, GEORGIOS, GR  
[72] BAGOURDAS, IOANNIS, GR  
[72] PAPAGEORGIS-PAPADOPOULOS, PHAEDON, GR  
[73] BIC-VIOLEX SA,  
[85] 2016-06-03  
[86] 2013-12-18 (PCT/EP2013/077172)  
[87] (WO2015/090385)

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[11] **2,934,856**  
[13] C

[51] **Int.Cl. H04S 5/00 (2006.01) H04S 7/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR GENERATING FILTER FOR AUDIO SIGNAL, AND PARAMETERIZATION DEVICE FOR SAME**  
[54] **PROCEDE DE GENERATION D'UN FILTRE POUR UN SIGNAL AUDIO, ET DISPOSITIF DE PARAMETRAGE POUR CELUI-CI**  
[72] LEE, TAEGYU, KR  
[72] OH, HYUNOH, KR  
[73] WILUS INSTITUTE OF STANDARDS AND TECHNOLOGY INC.,  
[85] 2016-06-22  
[86] 2014-12-23 (PCT/KR2014/012758)  
[87] (WO2015/099424)  
[30] KR (10-2013-0161114) 2013-12-23

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[11] **2,935,734**  
[13] C

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/01 (2006.01)**  
[25] EN  
[54] **CATHETER ASSEMBLIES HAVING A PROTECTIVE LUBRICIOUS SLEEVE**  
[54] **ENSEMBLES CATHETERS COMPORTANT UNE GAINE LUBRIFIEE PROTECTRICE**  
[72] O'FLYNN, PADRAIG M., IE  
[72] MORAN, MARTIN T., IE  
[72] FOLEY, ADAM J., IE  
[72] FITZPATRICK, JAMES, IE  
[73] HOLLISTER INCORPORATED,  
[85] 2016-06-30  
[86] 2015-01-08 (PCT/US2015/010574)  
[87] (WO2015/105942)  
[30] US (61/925,292) 2014-01-09

---

[11] **2,935,809**  
[13] C

[51] **Int.Cl. E21B 49/00 (2006.01) E21B 43/00 (2006.01)**  
[25] EN  
[54] **ANALYZING AN OILFIELD NETWORK FOR OILFIELD PRODUCTION**  
[54] **ANALYSE D'UN RESEAU DE GISEMENTS DE PETROLE POUR L'EXPLOITATION D'UN GISEMENT DE PETROLE**  
[72] WATTERS, COLIN, GB  
[72] FERRAMOSCA, ADRIAN, GB  
[72] BENNETT, JAMES, GB  
[72] LUCAS-CLEMENTS, DANIEL, GB  
[73] SCHLUMBERGER CANADA LIMITED,  
[86] (2935809)  
[87] (2935809)  
[22] 2009-02-20  
[62] 2,717,502  
[30] US (61/034,893) 2008-03-07  
[30] US (12/388,718) 2009-02-19

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[11] **2,938,250**  
[13] C

[51] **Int.Cl. H04N 21/433 (2011.01) H04N 21/432 (2011.01) H04N 21/482 (2011.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR CACHING DATA IN MEDIA-ON-DEMAND SYSTEMS**  
[54] **SYSTEMES ET PROCEDES DE MISE EN ANTEMEMOIRE DE DONNEES DANS DES SYSTEMES DE MEDIAS A LA DEMANDE**  
[72] ELLIS, MICHAEL D., US  
[73] ROVI GUIDES, INC.,  
[86] (2938250)  
[87] (2938250)  
[22] 2001-10-09  
[62] 2,860,962  
[30] US (60/239,377) 2000-10-11  
[30] US (60/270,351) 2001-02-21

---

[11] **2,938,623**  
[13] C

[51] **Int.Cl. H01M 10/0565 (2010.01) H01M 6/22 (2006.01) H01M 8/18 (2006.01)**  
[25] EN  
[54] **GELATED IONIC LIQUID FILM-COATED SURFACES AND USES THEREOF**  
[54] **SURFACES RECOUVERTES D'UN FILM LIQUIDE IONIQUE GELIFIE ET LEURS UTILISATIONS**  
[72] MASCHMEYER, THOMAS, AU  
[72] EASTON, MAX, AU  
[72] WARD, ANTONY, AU  
[73] GELION TECHNOLOGIES PTY LTD,  
[85] 2016-08-03  
[86] 2015-02-06 (PCT/AU2015/000062)  
[87] (WO2015/117189)  
[30] AU (2014900359) 2014-02-06  
[30] AU (2014905263) 2014-12-24

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[11] **2,939,600**  
[13] C

[51] **Int.Cl. G06F 3/14 (2006.01)**  
[25] EN  
[54] **DISPLAYING MULTIPLE ROW AND COLUMN HEADER AREAS IN A SUMMARY TABLE**  
[54] **AFFICHAGE DE PLUSIEURS ZONES D'EN-TETE A RANGEES ET COLONNES DANS UN TABLEAU RECAPITULATIF**  
[72] FOLTING, ALLAN, US  
[73] MICROSOFT TECHNOLOGY LICENSING, LLC,  
[86] (2939600)  
[87] (2939600)  
[22] 2010-01-22  
[62] 2,748,876  
[30] US (12/369,004) 2009-02-11

---

[11] **2,940,384**  
[13] C

[51] **Int.Cl. A61M 25/06 (2006.01)**  
[25] EN  
[54] **DILATOR AND CATHETER INTRODUCER SYSTEM**  
[54] **DILATATEUR ET SYSTEME D'INTRODUCTION DE CATHETER**  
[72] HAARER, JOSHUA C., US  
[73] W.L. GORE & ASSOCIATES, INC.,  
[85] 2016-08-22  
[86] 2014-09-19 (PCT/US2014/056511)  
[87] (WO2015/042368)  
[30] US (61/880,020) 2013-09-19

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,942,013**  
[13] C

[51] **Int.Cl. E21B 31/107 (2006.01) E21B 21/10 (2006.01) E21B 31/113 (2006.01)**

[25] EN

[54] **REACTION VALVE DRILLING JAR SYSTEM**

[54] **SYSTEME DE COULISSE DE FORAGE A SOUPEPE DE REACTION**

[72] STRACHAN, MICHAEL J., US

[73] HALLIBURTON ENERGY SERVICES, INC.,

[85] 2016-09-08

[86] 2014-04-18 (PCT/US2014/034699)

[87] (WO2015/160365)

---

[11] **2,942,706**  
[13] C

[51] **Int.Cl. A61K 38/46 (2006.01) A61P 31/12 (2006.01)**

[25] EN

[54] **RNASE FOR USE IN TREATING OR PREVENTING VIRAL INFECTIONS**

[54] **RNASE POUR UNE UTILISATION DANS LE TRAITEMENT OU LA PREVENTION D'INFECTIONS VIRALES**

[72] HODGE, THOMAS, US

[73] TAMIR BIOTECHNOLOGY, INC.,

[85] 2016-09-13

[86] 2015-03-26 (PCT/US2015/022670)

[87] (WO2015/148768)

[30] US (14/229,816) 2014-03-28

[30] US (14/247,723) 2014-04-08

[30] US (14/316,893) 2014-06-27

[30] US (62/040,885) 2014-08-22

[30] US (62/063,551) 2014-10-14

[30] US (62/102,671) 2015-01-13

[30] US (14/667,282) 2015-03-24

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[11] **2,943,131**  
[13] C

[51] **Int.Cl. H04L 12/24 (2006.01) H04L 9/32 (2006.01) H04L 12/12 (2006.01)**

[25] EN

[54] **AUTOMATIC PROVISIONING OF SERVICES TO NETWORK-CONNECTED DEVICES**

[54] **APPROVISIONNEMENT AUTOMATIQUE DE SERVICE AUX DISPOSITIFS CONNECTES A UN RESEAU**

[72] CHOW, ARTHUR CARROLL, CA

[72] CHAN, PAUL MON-WAH, CA

[72] HALDENBY, PERRY AARON JONES, CA

[72] JETHWA, RAKESH THOMAS, CA

[72] LAW, EDDIE CHEUK LONG, CA

[72] LEE, JOHN JONG SUK, CA

[72] MCCANN, STEPHEN JOHN, CA

[73] THE TORONTO-DOMINION BANK,

[86] (2943131)

[87] (2943131)

[22] 2016-09-26

[30] US (15/275,657) 2016-09-26

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[11] **2,943,828**  
[13] C

[51] **Int.Cl. H04W 74/08 (2009.01) H04W 28/04 (2009.01) H04W 84/12 (2009.01)**

[25] EN

[54] **RETRANSMISSION METHOD AT TIME OF SHARING TRANSMISSION OPPORTUNITY IN WIRELESS LAN SYSTEM, AND DEVICE THEREFOR**

[54] **PROCEDE DE RETRANSMISSION AU MOMENT DU PARTAGE D'UNE OPPORTUNITE DE TRANSMISSION DANS UN SYSTEME DE LAN SANS FIL, ET DISPOSITIF ASSOCIE**

[72] KIM, JEONGKI, KR

[72] RYU, KISEON, KR

[72] CHOI, JINSOO, KR

[72] PARK, GIWON, KR

[72] KIM, SUHWOOK, KR

[72] CHO, HANGYU, KR

[73] LG ELECTRONICS INC.,

[85] 2016-09-23

[86] 2015-04-09 (PCT/KR2015/003566)

[87] (WO2015/156616)

[30] US (61/977,640) 2014-04-10

---

[11] **2,944,259**  
[13] C

[51] **Int.Cl. A61B 90/00 (2016.01) A61B 6/12 (2006.01)**

[25] EN

[54] **ENDOSCOPIC ULTRASOUND FINE NEEDLE FIDUCIAL SYSTEM**

[54] **DISPOSITIF DE REPERAGE DE CADRE D'AIGUILLE FINE ULTRASONIQUE ENDOSCOPIQUE**

[72] CAMPBELL, EUGENE, US

[72] MCWEENEY, JOHN O., US

[72] TINKHAM, BRIAN, US

[72] TULLY, STEPHEN J., US

[73] COVIDIEN LP,

[86] (2944259)

[87] (2944259)

[22] 2016-10-05

[30] US (62/238,242) 2015-10-07

[30] US (15/284,683) 2016-10-04

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[11] **2,945,295**  
[13] C

[51] **Int.Cl. A61K 35/32 (2015.01) A61L 2/18 (2006.01) A61L 27/36 (2006.01) A61L 27/44 (2006.01) A61L 27/54 (2006.01) A61P 19/00 (2006.01)**

[25] EN

[54] **METHOD OF TREATING TISSUE**

[54] **PROCEDE DE TRAITEMENT D'UN TISSU**

[72] SHIMP, LAWRENCE A., US

[72] WEI, GUOBAO, US

[72] BEHNAM, KEYVAN, US

[73] WARSAW ORTHOPEDIC, INC.,

[86] (2945295)

[87] (2945295)

[22] 2008-06-16

[62] 2,690,816

[30] US (60/944,408) 2007-06-15

**Canadian Patents Issued  
January 14, 2020**

---

[11] **2,945,398**  
[13] C

[51] **Int.Cl. H04W 52/36 (2009.01) H04W 52/24 (2009.01) H04W 92/20 (2009.01)**  
[25] EN  
[54] **POWER OFFSET SIGNALING TECHNIQUES FOR NETWORK-ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION (NAICS) RECEIVERS**  
[54] **PROCEDES DE SIGNALISATION DE DECALAGE DE PUISSANCE POUR RECEPTEURS A ANNULATION ET SUPPRESSION DE BROUILLAGE ASSISTEES PAR LE RESEAU (NAICS)**  
[72] DAVYDOV, ALEXEI, RU  
[72] CHOI, GI WAN, US  
[72] MALTSEV, ALEXANDER, RU  
[72] MOROZOV, GREGORY V., RU  
[73] INTEL CORPORATION,  
[85] 2016-10-07  
[86] 2015-04-27 (PCT/US2015/027735)  
[87] (WO2015/183446)  
[30] US (62/003,329) 2014-05-27  
[30] US (14/583,648) 2014-12-27

---

[11] **2,947,535**  
[13] C

[51] **Int.Cl. C25D 3/58 (2006.01) C25D 3/56 (2006.01) C25D 5/26 (2006.01) C25D 7/00 (2006.01) F16L 15/04 (2006.01)**  
[25] EN  
[54] **PLATING SOLUTION FOR THREADED CONNECTION FOR PIPE OR TUBE AND PRODUCING METHOD OF THREADED CONNECTION FOR PIPE OR TUBE**  
[54] **SOLUTION DE PLAQUAGE DESTINEE A UNE CONNEXION FILETEE D'UN TUYAU OU D'UN TUBE ET METHODE DE PRODUCTION DE CONNEXION FILETEE DESTINEE UN TUYAU OU UN TUBE**  
[72] KIMOTO, MASANARI, JP  
[72] ISHII, KAZUYA, JP  
[72] GOTO, KUNIO, JP  
[72] YAMAMOTO, TATSUYA, JP  
[72] OSHIMA, MASAHIRO, JP  
[72] NAKAO, SEIICHIRO, JP  
[72] YAMAGUCHI, DAISUKE, JP  
[73] VALLOUREC OIL AND GAS FRANCE,  
[73] NIPPON STEEL CORPORATION,  
[85] 2016-10-31  
[86] 2015-05-15 (PCT/JP2015/002460)  
[87] (WO2015/174097)  
[30] JP (2014-101798) 2014-05-15

---

[11] **2,948,042**  
[13] C

[51] **Int.Cl. A61J 1/20 (2006.01)**  
[25] EN  
[54] **TRANSFER DEVICE**  
[54] **DISPOSITIF DE TRANSFERT**  
[72] SCHULDT-LIEB, SONJA, DE  
[72] PIPELKA, FRIEDRICH, AT  
[73] MEDAC GESELLSCHAFT FUR KLINISCHE SPEZIALPRAPARATE MBH,  
[85] 2016-09-12  
[86] 2015-03-20 (PCT/EP2015/055922)  
[87] (WO2015/144581)  
[30] DE (10 2014 104 281.6) 2014-03-27

---

[11] **2,948,044**  
[13] C

[51] **Int.Cl. G01N 21/21 (2006.01)**  
[25] EN  
[54] **MULTIMODE SPECTROSCOPY APPARATUS AND METHODS**  
[54] **APPAREILS ET PROCEDES DE SPECTROSCOPIE MULTIMODALE**  
[72] MOJAHEDI, MOHAMMAD, CA  
[72] BHRAMI, FARSHID, CA  
[72] AITCHISON, JAMES STEWART, CA  
[73] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO,  
[85] 2016-11-04  
[86] 2015-05-08 (PCT/CA2015/000300)  
[87] (WO2015/168776)  
[30] US (61/990,272) 2014-05-08

---

[11] **2,951,061**  
[13] C

[51] **Int.Cl. A61K 31/4709 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **METHODS AND USES OF QUINOLINE DERIVATIVES IN THE TREATMENT OF SOFT TISSUE SARCOMAS AND PHARMACEUTICAL COMPOSITIONS FOR TREATMENT OF SAME**  
[54] **METHODE D'UTILISATION DE DERIVES DE LA QUINOLEINE POUR LE TRAITEMENT DES SARCOMES DES TISSUS MOUS, APPLICATIONS ET COMPOSITION PHARMACEUTIQUE LES CONTENANT DESTINEE AU TRAITEMENT DES SARCOMES DES TISSUS MOUS**  
[72] ZHANG, XIQUAN, CN  
[72] WANG, XUNQIANG, CN  
[72] ZHAN, XIAOLE, CN  
[72] DAI, JIE, CN  
[72] TIAN, XIN, CN  
[72] YANG, LING, CN  
[73] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD.,  
[73] ADVENCHEN LABORATORIES NANJING LTD.,  
[85] 2016-12-02  
[86] 2015-06-05 (PCT/CN2015/080870)  
[87] (WO2015/185014)  
[30] CN (201410249705.7) 2014-06-06

**Brevets canadiens délivrés  
14 janvier 2020**

---

[11] **2,951,304**  
[13] C

[51] **Int.Cl. D06M 10/02 (2006.01) B41F 23/00 (2006.01) D21H 25/04 (2006.01) H01T 19/00 (2006.01)**

[25] EN

[54] **POSITION ADJUSTMENT MECHANISM FOR A CORONA TREATMENT APPARATUS**

[54] **MECANISME D'AJUSTEMENT DE POSITION DESTINE A UN APPAREIL DE TRAITEMENT CORONAIRE**

[72] WOLF, RORY A., US

[72] URBAN, ERIC JOHN, US

[72] KLEINSCHMIDT, ROBERT ALAN, US

[73] ILLINOIS TOOL WORKS INC.,

[86] (2951304)

[87] (2951304)

[22] 2016-12-09

[30] US (15/145,327) 2016-05-03

---

[11] **2,951,520**  
[13] C

[51] **Int.Cl. C09D 5/00 (2006.01) C09D 7/20 (2018.01) C09D 7/40 (2018.01) C09D 5/22 (2006.01) C09D 133/00 (2006.01) C09D 163/00 (2006.01) C09D 175/04 (2006.01)**

[25] EN

[54] **COATING COMPOSITION FOR PREVENTING ADHESION OF ADVERTISING MATERIAL AND METHOD FOR COATING BY THEREOF**

[54] **COMPOSITION DE REVETEMENT POUR EMPECHER LA FIXATION DE PROSPECTUS ET PROCEDE DE REVETEMENT L'UTILISANT**

[72] RYU, YOUNG-OK, KR

[73] SINDO DNT CO. LTD.,

[85] 2016-12-07

[86] 2015-05-14 (PCT/KR2015/004844)

[87] (WO2016/035973)

[30] KR (10-2014-0116975) 2014-09-03

---

[11] **2,954,736**  
[13] C

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 43/25 (2006.01) E21B 47/00 (2012.01)**

[25] EN

[54] **FLOW SENSING IN SUBTERRANEAN WELLS**

[54] **DETECTION D'ECOULEMENT DANS DES Puits SOUTERRAINS**

[72] JAASKELAINEN, MIKKO, US

[72] RANJAN, PRIYESH, US

[72] KALIA, NITIKA, US

[73] HALLIBURTON ENERGY SERVICES, INC.,

[85] 2017-01-10

[86] 2014-08-20 (PCT/US2014/051871)

[87] (WO2016/028288)

---

[11] **2,955,529**  
[13] C

[51] **Int.Cl. F16H 57/028 (2012.01) F01D 25/16 (2006.01) F02C 7/06 (2006.01) F02C 7/36 (2006.01) F16C 27/04 (2006.01)**

[25] EN

[54] **GEARBOX PLANET SQUEEZE FILM DAMPER**

[54] **AMORTISSEUR A PELLICULE D'HUILE DESTINE A UN ENGRENAGE PLANETAIRE**

[72] NIERGARTH, DANIEL ALAN, US

[72] MILLER, BRANDON WAYNE, US

[72] ERTAS, BUGRA HAN, US

[72] BRADLEY, DONALD ALBERT, US

[72] DICKMAN, JOSEPH ROBERT, US

[73] GENERAL ELECTRIC COMPANY,

[86] (2955529)

[87] (2955529)

[22] 2017-01-19

[30] US (15/008,907) 2016-01-28

---

[11] **2,956,101**  
[13] C

[51] **Int.Cl. C11D 1/83 (2006.01) C11D 3/37 (2006.01) C11D 17/08 (2006.01)**

[25] EN

[54] **DETERGENT COMPOSITION COMPRISING A CATIONIC POLYMER**

[54] **COMPOSITION DE DETERGENT COMPRENANT UN POLYMERE CATIONIQUE**

[72] FOSSUM, RENAE DIANNA, US

[72] VETTER, NICHOLAS DAVID, US

[72] AGUILERA-MERCADO, BERNARDO M., US

[72] BARRERA, CAROLA, US

[73] THE PROCTER & GAMBLE COMPANY,

[85] 2017-01-23

[86] 2015-08-25 (PCT/US2015/046630)

[87] (WO2016/032994)

[30] US (62/042,366) 2014-08-27

---

[11] **2,956,230**  
[13] C

[51] **Int.Cl. G01N 35/00 (2006.01) G01N 21/65 (2006.01) G01N 21/84 (2006.01) G01N 33/483 (2006.01) G01N 35/04 (2006.01) G01B 21/20 (2006.01)**

[25] EN

[54] **MULTI-MODAL OPTICAL IMAGING SYSTEM FOR TISSUE ANALYSIS**

[54] **SYSTEME D'IMAGERIE OPTIQUE MULTIMODAL DESTINE A L'ANALYSE DES TISSUS**

[72] FRANJIC, KRESIMIR, CA

[72] MAK, SIU WAI JACKY, CA

[72] HYNNA, KAI MICHAEL, CA

[72] WOOD, MICHAEL FRANK GUNTER, CA

[72] KUCHNIO, PIOTR, CA

[72] BISMILLA, YUSUF, CA

[72] HOLMES, LACHLAN NOEL, CA

[72] BRIGHT, STEWART, CA

[72] CHEUNG, AARON YU LAI, CA

[72] KUZYK, YURI ALEXANDER, CA

[72] TAUB, ARYEH BENJAMIN, CA

[72] REZAEI, SANAZ, CA

[73] SYNAPTIVE MEDICAL (BARBADOS) INC.,

[85] 2017-01-26

[86] 2016-04-29 (PCT/CA2016/050502)

[87] (WO2017/185161)

**Canadian Patents Issued  
January 14, 2020**

---

[11] **2,957,596**  
[13] C

[51] **Int.Cl. B65D 65/38 (2006.01)**  
[25] EN  
[54] **PRECISION SCORED WRAPPER FOR IN HOME USE**  
[54] **EMBALLEUR A MARQUAGE DE PRECISION DESTINE A UN USAGE DOMESTIQUE**  
[72] HUFFER, SCOTT WILLIAM, US  
[73] SONOCO DEVELOPMENT, INC.,  
[86] (2957596)  
[87] (2957596)  
[22] 2017-02-09  
[30] US (15/076,744) 2016-03-22

---

[11] **2,958,966**  
[13] C

[51] **Int.Cl. C07D 417/14 (2006.01) A61K 31/433 (2006.01) A61K 31/437 (2006.01) A61K 31/443 (2006.01) A61K 31/498 (2006.01) A61K 31/502 (2006.01) A61K 31/506 (2006.01) A61K 31/519 (2006.01) C07D 401/12 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 413/12 (2006.01) C07D 413/14 (2006.01) C07D 417/12 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 513/04 (2006.01)**  
[25] EN  
[54] **SUBSTITUTED CYCLIC AMINES AS GLUCOSIDASE INHIBITORS**  
[54] **AMINES CYCLIQUES SUBSTITUEES COMME INHIBITEURS DE GLUCOSIDASE**  
[72] QUATTROPANI, ANNA, CH  
[72] KULKARNI, SANTOSH S., IN  
[72] GIRI, AWADUT GAJENDRA, IN  
[73] ASCENEURON SA,  
[85] 2017-02-22  
[86] 2015-08-27 (PCT/EP2015/069598)  
[87] (WO2016/030443)  
[30] IN (2766/MUM/2014) 2014-08-28

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[11] **2,959,706**  
[13] C

[51] **Int.Cl. A61J 3/00 (2006.01) G16H 20/10 (2018.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR PREPARING A PHARMACEUTICAL COMPOUND**  
[54] **SYSTEME ET PROCEDE DE PREPARATION D'UN COMPOSE PHARMACEUTIQUE**  
[72] SANDMANN, CHRISTIAN, US  
[72] THOMAS, MATT, US  
[72] MURRAY, CHRIS, US  
[72] HANKE, CHRISTIAN, AT  
[72] HOERNER, HELMUT, AT  
[72] TANNEN, ROBERT, US  
[72] TURPAULT, MATHIEU, US  
[72] WITT, ERIK KURT, US  
[73] BECTON, DICKINSON AND COMPANY,  
[85] 2017-02-28  
[86] 2015-09-08 (PCT/US2015/048940)  
[87] (WO2016/040323)  
[30] US (62/047,325) 2014-09-08  
[30] US (62/072,160) 2014-10-29  
[30] US (62/072,054) 2014-10-29  
[30] US (62/078,067) 2014-11-11  
[30] US (62/077,968) 2014-11-11

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[11] **2,961,005**  
[13] C

[51] **Int.Cl. A61K 31/704 (2006.01) A61P 1/16 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **COMPOSITION FOR PREVENTING OR TREATING LIVER CANCER CONTAINING GINSENOSE F2**  
[54] **COMPOSITION DESTINEE A PREVENIR OU TRAITER UN CANCER DU FOIE RENFERMANT DU GINSENOSE F2**  
[72] JEONG, WON II, KR  
[72] KIM, MYUNG HO, KR  
[72] JEONG, JONG MIN, KR  
[72] KIM, SO YEON, KR  
[72] KIM, SUN CHANG, KR  
[73] INTELLIGENT SYNTHETIC BIOLOGY CENTER,  
[86] (2961005)  
[87] (2961005)  
[22] 2017-03-15  
[30] KR (10-2016-0099978) 2016-08-05

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[11] **2,961,051**  
[13] C

[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01) A61M 25/10 (2013.01)**  
[25] EN  
[54] **EXPANDABLE MEMBER FOR DEPLOYING A PROSTHETIC DEVICE**  
[54] **ELEMENT EXTENSIBLE SERVANT A DEPLOYER UNE PROTHESE**  
[72] TAYLOR, DAVID M., US  
[72] MARCHAND, PHILIPPE, US  
[72] WOOD, LARRY, US  
[72] BOWES, ROBERT, US  
[73] EDWARDS LIFESCIENCES CORPORATION,  
[86] (2961051)  
[87] (2961051)  
[22] 2009-03-02  
[62] 2,714,605  
[30] US (61/032,851) 2008-02-29

---

[11] **2,961,688**  
[13] C

[51] **Int.Cl. F16L 37/107 (2006.01) A61M 39/10 (2006.01) A61M 39/18 (2006.01) F16L 37/08 (2006.01) F16L 37/098 (2006.01) F16L 37/133 (2006.01)**  
[25] EN  
[54] **CONNECTOR ASSEMBLIES, FLUID SYSTEMS INCLUDING CONNECTOR ASSEMBLIES, AND PROCEDURES FOR MAKING FLUID CONNECTIONS**  
[54] **ASSEMBLAGES DE CONNEXEUR, SYSTEMES FLUIDIQUES COMPORTANT LES ASSEMBLAGES DE CONNEXEUR, ET PROCEDURES DE FABRICATION DE CONNEXIONS FLUIDIQUES**  
[72] KESSELAAR, DANIEL JAMES, GB  
[72] ROTHWELL, CHARLES NICHOLAS, GB  
[72] BALLARD, RICHARD JOHN, GB  
[72] BOWDERY, DANNIEL, GB  
[73] PALL CORPORATION,  
[86] (2961688)  
[87] (2961688)  
[22] 2017-03-22  
[30] US (15/085,042) 2016-03-30

**Brevets canadiens délivrés  
14 janvier 2020**

---

[11] **2,961,947**  
[13] C

[51] **Int.Cl. G06F 21/30 (2013.01) G06F 21/44 (2013.01) B33Y 40/00 (2015.01) B41J 2/175 (2006.01) G03G 21/14 (2006.01)**

[25] EN

[54] **REPLACEABLE ITEM AUTHENTICATION**

[54] **AUTHENTICATION D'ELEMENT REMPLACABLE**

[72] NESS, ERIK D., US

[72] PANSHIN, STEPHEN D., US

[72] WARD, JEFFERSON P., US

[73] HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.,

[85] 2017-03-23

[86] 2016-06-17 (PCT/US2016/038211)

[87] (WO2017/218016)

---

[11] **2,962,663**  
[13] C

[51] **Int.Cl. G01S 19/51 (2010.01)**

[25] EN

[54] **AIRCRAFT NAVIGATION USING EXPONENTIAL MAP**

[54] **NAVIGATION D'AERONEF AU MOYEN D'UNE CARTE EXPONENTIELLE**

[72] CABELLO, JUAN JOSE, MX

[73] GE AVIATION SYSTEMS LLC,

[86] (2962663)

[87] (2962663)

[22] 2017-03-30

[30] US (15/097,330) 2016-04-13

---

[11] **2,962,733**  
[13] C

[51] **Int.Cl. F02K 3/06 (2006.01) F01D 9/04 (2006.01) F02C 7/00 (2006.01)**

[25] EN

[54] **STATOR-VANE STRUCTURE AND TURBOFAN ENGINE EMPLOYING THE SAME**

[54] **STRUCTURE D'AUBES FIXES ET TURBOREACTEUR METTANT EN OEUVRE CELLE-CI**

[72] YAGI, HIROYUKI, JP

[72] KAJIWARA, RINTAROU, JP

[72] INADA, TAKAOMI, JP

[72] ENOKI, TOMONORI, JP

[73] IHI CORPORATION,

[85] 2017-03-27

[86] 2015-10-01 (PCT/JP2015/077962)

[87] (WO2016/056463)

[30] JP (2014-206430) 2014-10-07

---

[11] **2,963,321**  
[13] C

[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/4709 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **NOVEL METHYL-PIPERIDINE COMPOUNDS USEFUL FOR INHIBITING MICROSOMAL PROSTAGLANDIN E2 SYNTHASE-1**

[54] **NOUVEAUX COMPOSES METHYL-PIPERIDINE SERVANT A INHIBER LA PROSTAGLANDINE E2 SYNTHASE-1 MICROSOmale**

[72] FISHER, MATTHEW JOSEPH, US

[72] KUKLISH, STEVEN LEE, US

[72] MANNINEN, PETER RUDOLPH, US

[72] PARTRIDGE, KATHERINE MARIE, US

[72] SCHIFFLER, MATTHEW ALLEN, US

[72] WARSHAWSKY, ALAN M., US

[72] YORK, JEREMY SCHULENBURG, US

[73] ELI LILLY AND COMPANY,

[85] 2017-03-30

[86] 2015-10-22 (PCT/US2015/056960)

[87] (WO2016/069376)

[30] US (62/072,196) 2014-10-29

---

[11] **2,964,559**  
[13] C

[51] **Int.Cl. C12P 19/34 (2006.01) C12N 9/12 (2006.01)**

[25] EN

[54] **REDUCED INHIBITION OF ONE-STEP RT-PCR**

[54] **INHIBITION REDUITE D'ACP DE RT EN UNE SEULE ETAPE**

[72] GONG, XIAO-SONG, US

[72] WANG, YAN, US

[73] BIO-RAD LABORATORIES, INC.,

[86] (2964559)

[87] (2964559)

[22] 2008-11-25

[62] 2,706,444

[30] US (61/004,516) 2007-11-27

---

[11] **2,965,036**  
[13] C

[51] **Int.Cl. B60P 7/08 (2006.01)**

[25] EN

[54] **SWIVEL MOUNT CARGO WINCH**

[54] **TREUIL DE MARCHANDISE INSTALLE SUR PIVOT**

[72] OLSON, BRIAN R., CA

[73] POWER PIN INC.,

[86] (2965036)

[87] (2965036)

[22] 2017-04-24

---

[11] **2,965,139**  
[13] C

[51] **Int.Cl. A61B 5/11 (2006.01) A61B 5/103 (2006.01) G08B 21/00 (2006.01)**

[25] EN

[54] **POSTURE IMPROVEMENT DEVICE, SYSTEM, AND METHOD**

[54] **DISPOSITIF, SYSTEME ET PROCEDURE D'AMELIORATION DE LA POSTURE**

[72] ROSENBLOOD, KENNETH LAWRENCE, US

[73] ROSENBLOOD, KENNETH LAWRENCE,

[85] 2017-04-19

[86] 2015-10-20 (PCT/US2015/056504)

[87] (WO2016/064905)

[30] US (62/066,800) 2014-10-21

[30] US (14/918,334) 2015-10-20

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[11] **2,965,222**  
[13] C

[51] **Int.Cl. F24H 9/20 (2006.01) F24H 1/14 (2006.01) F24H 1/40 (2006.01)**

[25] EN

[54] **IGNITION TEMPERATURE CONTROL APPARATUS OF GAS WATER HEATER**

[54] **APPAREIL DE COMMANDE DE TEMPERATURE D'ALLUMAGE D'UN CHAUFFE-EAU AU GAZ**

[72] QUI, BU, CN

[72] BI, DAYAN, CN

[72] CAI, MAOHU, CN

[72] LI, WEI, CN

[73] A.O. SMITH (CHINA) WATER HEATER CO., LTD.,

[86] (2965222)

[87] (2965222)

[22] 2017-04-25

[30] CN (2016102669368) 2016-04-26

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,965,618**  
[13] C

[51] **Int.Cl. E21B 43/22 (2006.01) C09K 8/02 (2006.01) E21B 47/06 (2012.01)**

[25] EN

[54] **DETERMINING DEPTH OF LOSS ZONES IN SUBTERRANEAN FORMATIONS**

[54] **DETERMINATION DE PROFONDEUR DE ZONES DE PERTES DANS DES FORMATIONS SOUTERRAINES**

[72] YERUBANDI, KRISHNA BABU, US

[72] SAVERY, MARK RYAN, US

[73] HALLIBURTON ENERGY SERVICES, INC.,

[85] 2017-04-24

[86] 2014-11-26 (PCT/US2014/067545)

[87] (WO2016/085483)

---

[11] **2,965,654**  
[13] C

[51] **Int.Cl. C01B 3/34 (2006.01) C01B 3/02 (2006.01) C01B 3/48 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR PRODUCING A HYDROGEN-CONTAINING PRODUCT**

[54] **METHODE ET APPAREIL DE PRODUCTION D'UN PRODUIT RENFERMANT DE L'HYDROGENE**

[72] SALOWAY, SIMON CRAIG, GB

[73] AIR PRODUCTS AND CHEMICALS, INC.,

[86] (2965654)

[87] (2965654)

[22] 2017-05-03

[30] US (15/148,207) 2016-05-06

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[11] **2,965,681**  
[13] C

[51] **Int.Cl. H04M 1/2745 (2006.01) H04W 4/00 (2018.01) H04M 3/493 (2006.01)**

[25] EN

[54] **TOLL-FREE TELECOMMUNICATIONS MANAGEMENT PLATFORM**

[54] **PLATEFORME DE GESTION DE TELECOMMUNICATIONS SANS FRAIS**

[72] SHARMA, SRIRAM, US

[72] CARTER, WILLIAM, US

[72] KIMMEL, MICHAEL, US

[73] SOMOS, INC.,

[85] 2017-04-24

[86] 2015-10-30 (PCT/US2015/058401)

[87] (WO2016/070095)

[30] US (62/073,976) 2014-11-01

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[11] **2,965,743**  
[13] C

[51] **Int.Cl. B32B 37/12 (2006.01) B32B 37/20 (2006.01) B32B 38/10 (2006.01) H05B 6/80 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR FORMING LAMINATES**

[54] **SYSTEMES ET PROCEDES POUR FORMER DES STRATIFIES**

[72] WALSH, JOSEPH C., US

[73] GRAPHIC PACKAGING INTERNATIONAL, LLC,

[85] 2017-04-24

[86] 2015-12-22 (PCT/US2015/067329)

[87] (WO2016/106301)

[30] US (62/124,563) 2014-12-22

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[11] **2,966,138**  
[13] C

[51] **Int.Cl. C07H 19/10 (2006.01) A61K 31/7068 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**

[25] EN

[54] **THIONUCLEOSIDE DERIVATIVE OR SALT THEREOF, AND PHARMACEUTICAL COMPOSITION**

[54] **DERIVE DE THIONUCLEOSIDE OU SEL DE CELUI-CI, ET COMPOSITION PHARMACEUTIQUE**

[72] KUNIYOSHI, HIDENOBU, JP

[72] NAKAGAWA, DAISUKE, JP

[72] MATSUMOTO, TAKUYA, JP

[72] YOSHIMITSU, YUJI, JP

[73] FUJIFILM CORPORATION,

[85] 2017-04-27

[86] 2015-11-02 (PCT/JP2015/080885)

[87] (WO2016/068341)

[30] JP (2014-222527) 2014-10-31

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[11] **2,966,475**  
[13] C

[51] **Int.Cl. D06F 67/04 (2006.01)**

[25] EN

[54] **BUFFERING DEVICE IN AUTOMATIC CLOTH FEEDER**

[54] **DISPOSITIF D'AMORTISSEMENT POUR UN DISPOSITIF DE CHARGEMENT D'ARTICLE EN TISSU AUTOMATISE**

[72] MAEJIMA, YOZO, JP

[73] TOTOFOLDER MANUFACTURING CO., LTD.,

[85] 2017-05-01

[86] 2015-04-17 (PCT/JP2015/061842)

[87] (WO2016/084401)

[30] JP (2014-237821) 2014-11-25

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[11] **2,967,154**  
[13] C

[51] **Int.Cl. B61D 49/00 (2006.01) B61D 23/00 (2006.01)**

[25] EN

[54] **RAILCAR SAFETY APPLIANCES**

[54] **APPAREILS DE SECURITE DE WAGON**

[72] HUCK, KENNETH W., US

[73] TRINITY RAIL GROUP, LLC,

[86] (2967154)

[87] (2967154)

[22] 2017-05-12

[30] US (62/335,481) 2016-05-12

[30] US (15/583,614) 2017-05-01

---

[11] **2,967,490**  
[13] C

[51] **Int.Cl. B65D 3/22 (2006.01)**

[25] EN

[54] **RECYCLABLE COMPOSITE CONTAINER**

[54] **RECIPIENT COMPOSITE RECYCLABLE**

[72] GUERTIN, RICHARD, CA

[73] GUERTIN, RICHARD,

[85] 2017-05-11

[86] 2015-11-16 (PCT/CA2015/051192)

[87] (WO2016/074104)

[30] US (62/079,637) 2014-11-14

---

[11] **2,967,870**  
[13] C

[51] **Int.Cl. B29B 7/00 (2006.01) B29B 7/90 (2006.01) C08K 9/04 (2006.01) C09C 1/02 (2006.01) B29B 7/10 (2006.01) B29B 7/28 (2006.01) B29B 7/38 (2006.01) B29B 9/08 (2006.01)**

[25] EN

[54] **SURFACE-TREATED COMPACTED MATERIAL**

[54] **MATERIAU COMPRI ME TRAIT E EN SURFACE**

[72] BRUNNER, MARTIN, CH

[72] KNERR, MICHAEL, CH

[72] HIRSIGER, CHRISTOPH, CH

[72] RIESEN, ROLAND, CH

[72] SCHIROSI, GIUSEPPE, CH

[72] TINKL, MICHAEL, CH

[72] SCHULZ, KARSTEN UDO, DE

[72] MURATORE, ANTONIO, IT

[73] OMYA INTERNATIONAL AG,

[85] 2017-05-15

[86] 2015-11-25 (PCT/EP2015/077678)

[87] (WO2016/087286)

[30] EP (14195970.0) 2014-12-02

**Brevets canadiens délivrés  
14 janvier 2020**

[11] **2,968,096**  
[13] C

- [51] **Int.Cl. F16L 3/015 (2006.01) F16D 3/28 (2006.01) F16D 3/64 (2006.01)**  
[25] EN  
[54] **MECHANICAL LINK**  
[54] **LIEN MECANIQUE**  
[72] KEEN, PHIL, GB  
[73] ULTRA ELECTRONICS LIMITED,  
[86] (2968096)  
[87] (2968096)  
[22] 2017-05-24  
[30] GB (GB1609381.7) 2016-05-27

[11] **2,969,459**  
[13] C

- [51] **Int.Cl. C04B 28/00 (2006.01) C04B 22/06 (2006.01) C09K 8/473 (2006.01) C04B 18/04 (2006.01) E21B 33/14 (2006.01)**  
[25] EN  
[54] **METHODS OF CEMENTING AND SPENT CRACKING CATALYST-CONTAINING CEMENT COMPOSITIONS**  
[54] **PROCEDES DE CIMENTATION ET CATALYSEUR DE CRAQUAGE USE CONTENANT DES COMPOSITIONS DE CIMENT**  
[72] PANDEY, VANDANA NEERAJ, IN  
[72] PATIL RAHUL CHANDRAKANT, IN  
[72] KOYITTI, REMITHA ANANDOTH, IN  
[73] HALLIBURTON ENERGY SERVICES, INC.,  
[86] (2969459)  
[87] (2969459)  
[22] 2013-08-05  
[62] 2,917,286

[11] **2,969,607**  
[13] C

- [51] **Int.Cl. B66F 11/04 (2006.01) B66C 23/78 (2006.01) B66F 17/00 (2006.01)**  
[25] EN  
[54] **STABILIZER ARRANGEMENT**  
[54] **AGENCEMENT DE STABILISATEUR**  
[72] RICHARDSON, MARK JOHN, GB  
[72] KING, BRIAN ROBERT, GB  
[73] JLG INDUSTRIES, INC,  
[85] 2017-06-02  
[86] 2015-11-27 (PCT/GB2015/053617)  
[87] (WO2016/087824)  
[30] GB (1421571.9) 2014-12-04  
[30] GB (1517285.1) 2015-09-30

[11] **2,970,100**  
[13] C

- [51] **Int.Cl. B21J 15/32 (2006.01) B21J 15/14 (2006.01) B23P 19/00 (2006.01) B65G 47/74 (2006.01)**  
[25] EN  
[54] **FEEDER MECHANISM FOR FEEDING MECHANICAL FASTENERS**  
[54] **MECANISME DE DISTRIBUTION PERMETTANT DE DISTRIBUER DES ELEMENTS DE FIXATION MECANIQUES**  
[72] SARRAMOÛNE, PIERRE, FR  
[72] PY, ALAIN, FR  
[73] KUKA SYSTEMS AEROSPACE,  
[85] 2017-06-06  
[86] 2015-12-17 (PCT/EP2015/080256)  
[87] (WO2016/102305)  
[30] EP (14307141.3) 2014-12-22

[11] **2,971,251**  
[13] C

- [51] **Int.Cl. F04B 43/02 (2006.01) F04B 43/04 (2006.01) F04B 43/12 (2006.01) F04B 43/14 (2006.01)**  
[25] EN  
[54] **DELIVERY DEVICE**  
[54] **DISPOSITIF DE REFOULEMENT**  
[72] BEENKER, JAN W., DE  
[73] QONQAVE GMBH,  
[85] 2017-06-16  
[86] 2015-12-17 (PCT/EP2015/080236)  
[87] (WO2016/097153)  
[30] DE (10 2014 118 924.8) 2014-12-17

[11] **2,971,253**  
[13] C

- [51] **Int.Cl. F04B 43/02 (2006.01) F04B 43/04 (2006.01) F04B 43/08 (2006.01)**  
[25] EN  
[54] **DELIVERY DEVICE**  
[54] **DISPOSITIF DE REFOULEMENT**  
[72] BEENKER, JAN W., DE  
[73] QONQAVE GMBH,  
[85] 2017-06-16  
[86] 2015-12-17 (PCT/EP2015/080238)  
[87] (WO2016/097154)  
[30] DE (10 2014 118 925.6) 2014-12-17

[11] **2,971,262**  
[13] C

- [51] **Int.Cl. F04B 43/02 (2006.01) F04B 43/04 (2006.01) F04B 43/08 (2006.01)**  
[25] EN  
[54] **DELIVERY DEVICE**  
[54] **DISPOSITIF DE TRANSPORT**  
[72] BEENKER, JAN W., DE  
[72] RITSCHKA, RAYMOND, DE  
[72] REDSCHLAG, LARS, DE  
[73] QONQAVE GMBH,  
[85] 2017-06-16  
[86] 2015-12-17 (PCT/EP2015/080292)  
[87] (WO2016/097184)  
[30] DE (10 2014 118 924.8) 2014-12-17  
[30] DE (10 2014 118 925.6) 2014-12-17  
[30] DE (10 2014 118 926.4) 2014-12-17

[11] **2,971,267**  
[13] C

- [51] **Int.Cl. F04B 43/02 (2006.01) F04B 43/04 (2006.01) F04B 43/08 (2006.01) F04B 43/12 (2006.01)**  
[25] EN  
[54] **CONVEYING DEVICE**  
[54] **DISPOSITIF DE TRANSPORT**  
[72] BEENKER, JAN W., DE  
[73] QONQAVE GMBH,  
[85] 2017-06-16  
[86] 2015-12-17 (PCT/EP2015/080297)  
[87] (WO2016/097185)  
[30] DE (10 2014 118 926.4) 2014-12-17

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,972,416**  
[13] C

[51] **Int.Cl. A61N 5/06 (2006.01) A61B 18/04 (2006.01) A61B 18/18 (2006.01) A61B 18/20 (2006.01) A61N 7/00 (2006.01)**

[25] EN

[54] **PULSATING ELECTROMAGNETIC AND ULTRASOUND THERAPY FOR STIMULATING TARGETED HEAT SHOCK PROTEINS AND FACILITATING PROTEIN REPAIR**

[54] **THERAPIE ELECTROMAGNETIQUE PULSEE ET PAR ULTRASONS POUR STIMULER DES PROTEINES DE CHOC THERMIQUE CIBLEES ET FACILITER UNE REPARATION DE PROTEINE**

[72] LUTTRULL, JEFFREY K., US  
[72] MARGOLIS, BENJAMIN W. L., US  
[72] CHANG, DAVID B., US  
[73] OJAI RETINAL TECHNOLOGY, LLC,  
[85] 2017-06-27  
[86] 2015-11-16 (PCT/US2015/060893)  
[87] (WO2016/122752)  
[30] US (14/607,959) 2015-01-28  
[30] US (62/153,616) 2015-04-28  
[30] US (14/922,885) 2015-10-26

---

[11] **2,972,901**  
[13] C

[51] **Int.Cl. G06F 11/20 (2006.01) G06F 15/16 (2006.01)**

[25] EN

[54] **FAILURE RESISTANT DISTRIBUTED COMPUTING SYSTEM**

[54] **SYSTEME INFORMATIQUE DISTRIBUE RESISTANT AUX DEFAILLANCES**

[72] CHANDRASHEKAR, SRIDHAR, US  
[72] PATEL, SWAPNESH, US  
[72] SHAH, VIRAL, US  
[72] GARG, ANURAG, US  
[72] CHABLANI, ANJALI, US  
[73] SERVICENOW, INC.,  
[85] 2017-06-30  
[86] 2015-12-31 (PCT/US2015/068243)  
[87] (WO2016/109778)  
[30] US (62/098,430) 2014-12-31

---

[11] **2,972,988**  
[13] C

[51] **Int.Cl. A47J 37/08 (2006.01)**

[25] EN

[54] **APPARATUS FOR HEATING FOOD**

[54] **APPAREIL POUR CHAUFFER UN ALIMENT**

[72] MOUGHTON, COLIN, GB  
[73] STRIX LIMITED,  
[85] 2017-07-04  
[86] 2016-01-08 (PCT/GB2016/050045)  
[87] (WO2016/110713)  
[30] GB (1500342.9) 2015-01-09

---

[11] **2,973,462**  
[13] C

[51] **Int.Cl. B01D 53/04 (2006.01) B01D 35/06 (2006.01) B01D 53/12 (2006.01) B01J 20/06 (2006.01) B01J 20/34 (2006.01)**

[25] EN

[54] **CO2 CONCENTRATION REDUCING DEVICE**

[54] **DISPOSITIF DE REDUCTION DE LA CONCENTRATION DE CO2**

[72] YOSHIKAWA, KOHEI, JP  
[72] KANEEDA, MASATO, JP  
[72] NAKAMURA, HIDEHIRO, JP  
[72] SHIRASAKA, TOSHIKI, JP  
[73] HITACHI CHEMICAL COMPANY, LTD.,  
[85] 2017-07-10  
[86] 2016-02-24 (PCT/JP2016/055383)  
[87] (WO2016/152363)  
[30] JP (2015-064101) 2015-03-26

---

[11] **2,973,618**  
[13] C

[51] **Int.Cl. B29C 64/153 (2017.01) B29C 64/393 (2017.01) B22F 3/105 (2006.01)**

[25] EN

[54] **THREE-DIMENSIONAL SHAPING METHOD**

[54] **METHODE DE FACONNAGE TRIDIMENSIONNEL**

[72] AMAYA, KOUICHI, JP  
[72] ISHIMOTO, KOUSUKE, JP  
[72] YAMADA, TAKESHI, JP  
[73] MATSUURA MACHINERY CORPORATION,  
[86] (2973618)  
[87] (2973618)  
[22] 2017-07-14

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[11] **2,974,071**  
[13] C

[51] **Int.Cl. C12P 1/00 (2006.01) C12M 1/14 (2006.01) C12M 3/04 (2006.01) C12N 7/00 (2006.01) C12P 21/00 (2006.01)**

[25] EN

[54] **METHOD OF CULTURING CELLS USING A POROUS POLYIMIDE FILM**

[54] **PROCEDE DE PRODUCTION DE SUBSTANCE**

[72] HAGIHARA, MASAHIKO, JP  
[72] SHIMIZU, MOTOHISA, JP  
[72] WADA, YUKINORI, JP  
[73] UBE INDUSTRIES, LTD.,  
[85] 2017-07-17  
[86] 2016-01-26 (PCT/JP2016/052207)  
[87] (WO2016/121768)  
[30] JP (2015-012834) 2015-01-26

---

[11] **2,974,737**  
[13] C

[51] **Int.Cl. A61C 19/02 (2006.01)**

[25] EN

[54] **CONTAINER FOR ORAL CARE TOOLS AND METHOD OF ASSEMBLY AND USE**

[54] **CONTENANT D'OUTILS DE SOINS BUCCAUX ET METHODE D'ASSEMBLAGE ET UTILISATION**

[72] FRIEDT, NICHOLAS, US  
[72] KOLLAR, KEVIN J., US  
[73] RANIR, LLC,  
[86] (2974737)  
[87] (2974737)  
[22] 2017-07-27  
[30] US (15/231,225) 2016-08-08

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,975,166**  
[13] C

[51] **Int.Cl. C12N 15/11 (2006.01) C12N 15/113 (2010.01) C07H 21/00 (2006.01) C12N 9/22 (2006.01) C12N 15/09 (2006.01) C12N 15/63 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **CRISPR HYBRID DNA/RNA POLYNUCLEOTIDES AND METHODS OF USE**

[54] **POLYNUCLEOTIDES ADN/ARN CRISPR HYBRIDES ET LEURS PROCEDES D'UTILISATION**

[72] MAY, ANDREW P., US

[72] DONOHOUE, PAUL D., US

[73] PIONEER HI-BRED INTERNATIONAL, INC.,

[85] 2017-07-26

[86] 2016-01-27 (PCT/US2016/015145)

[87] (WO2016/123230)

[30] US (62/108,931) 2015-01-28

[30] US (62/251,548) 2015-11-05

---

[11] **2,975,222**  
[13] C

[51] **Int.Cl. G06F 3/0481 (2013.01) G06F 3/0484 (2013.01)**

[25] EN

[54] **GRAPHICALLY REPRESENTING CONTENT RELATIONSHIPS ON A SURFACE OF GRAPHICAL OBJECT**

[54] **REPRESENTATION GRAPHIQUE DE RELATIONS DE CONTENU SUR UNE SURFACE D'UN OBJET GRAPHIQUE**

[72] PALEY, KATE C., US

[73] WORD DIAMONDS LLC,

[86] (2975222)

[87] (2975222)

[22] 2009-10-02

[62] 2,738,484

[30] US (61/102,663) 2008-10-03

---

[11] **2,975,372**  
[13] C

[51] **Int.Cl. A61K 31/519 (2006.01) A61P 11/02 (2006.01) A61P 17/00 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01) A61P 37/02 (2006.01) A61P 37/08 (2006.01) C07D 487/04 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **PREVENTIVE AND/OR THERAPEUTIC AGENT OF IMMUNE DISEASE**

[54] **AGENT PROPHYLACTIQUE ET/OU THERAPEUTIQUE DESTINE A DES MALADIES IMMUNITAIRES**

[72] HOSOI, FUMIHITO, JP

[72] NAKACHI, YOSHINORI, JP

[72] KAJIWARA, DAISUKE, JP

[73] TAIHO PHARMACEUTICAL CO., LTD.,

[85] 2017-07-28

[86] 2016-01-29 (PCT/JP2016/052732)

[87] (WO2016/121953)

[30] JP (2015-017386) 2015-01-30

---

[11] **2,975,818**  
[13] C

[51] **Int.Cl. B61J 3/12 (2006.01) B61L 25/00 (2006.01)**

[25] EN

[54] **VISUAL ASSIST FOR RAILCAR MOVER**

[54] **AIDE VISUELLE DESTINEE A UN OPERATEUR DE DEPLACEMENT DE WAGON**

[72] TRAMMELL, THOMAS WILLIAM, US

[72] MANTLE, JUSTIN RYAN, US

[73] TRACKMOBILE LLC,

[86] (2975818)

[87] (2975818)

[22] 2017-08-10

[30] US (62/374,969) 2016-08-15

---

[11] **2,976,139**  
[13] C

[51] **Int.Cl. C11D 3/60 (2006.01) C11D 1/66 (2006.01) C11D 3/06 (2006.01) C11D 3/10 (2006.01) C11D 3/33 (2006.01)**

[25] EN

[54] **SYNERGISTIC PROTEIN SOIL REMOVAL THROUGH NOVEL CHELATOR COMBINATION**

[54] **ELIMINATION SYNERGIQUE DE SALISSURES PROTEINIQUES AU MOYEN D'UNE NOUVELLE COMBINAISON DE CHELATEURS**

[72] MEIER, TIMOTHY, US

[72] DOTZAUER, DAVID, US

[72] FOSTER, TOBIAS NEIL, DE

[72] MANSERGH, JOHN, US

[73] ECOLAB USA INC.,

[85] 2017-08-09

[86] 2015-03-04 (PCT/EP2015/054541)

[87] (WO2016/138954)

---

[11] **2,976,477**  
[13] C

[51] **Int.Cl. B66F 11/04 (2006.01) B60K 15/063 (2006.01) B62D 21/00 (2006.01) B66C 23/687 (2006.01) B66C 23/72 (2006.01)**

[25] EN

[54] **VEHICLE WITH A LOW GRAVITY CENTER AND AERIAL WORK PLATFORM**

[54] **VEHICULE A CENTRE DE GRAVITE BAS ET PLATEFORME DE TRAVAIL AERIENNE**

[72] XU, SHUGEN, CN

[73] ZHEJIANG DINGLI MACHINERY CO., LTD.,

[86] (2976477)

[87] (2976477)

[22] 2017-08-15

[30] CN (2016107786758) 2016-08-31

---

[11] **2,976,812**  
[13] C

[51] **Int.Cl. G01S 13/08 (2006.01) G01S 17/08 (2006.01)**

[25] EN

[54] **RANGING METHOD AND APPARATUS**

[54] **PROCEDE ET DISPOSITIF DE MESURE DE DISTANCE**

[72] WANG, YAN, CN

[73] HUAWEI TECHNOLOGIES CO., LTD.,

[85] 2017-08-16

[86] 2015-02-16 (PCT/CN2015/073208)

[87] (WO2016/131184)

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,976,941**  
[13] C

[51] **Int.Cl. E21B 43/02 (2006.01) E21B 43/10 (2006.01)**  
[25] EN  
[54] **DEPOSITED MATERIAL SAND CONTROL MEDIA**  
[54] **MEDIUMS FILTRANTS DE CONTROLE DU SABLE COMPRENANT UNE MATIERE DEPOSEE**  
[72] BARNARD, JASON J., US  
[72] MANN, CHANCE ETHAN, US  
[72] WINNON, STEVE M., US  
[72] HETZ, SHAY, US  
[73] BAKER HUGHES, A GE COMPANY, LLC,  
[85] 2017-08-16  
[86] 2016-02-17 (PCT/US2016/018239)  
[87] (WO2016/134001)  
[30] US (62/117,225) 2015-02-17

---

[11] **2,977,619**  
[13] C

[51] **Int.Cl. C22C 38/38 (2006.01) C22C 38/02 (2006.01)**  
[25] EN  
[54] **STAINLESS STEEL HAVING EXCELLENT BRAZEABILITY**  
[54] **ACIER INOXYDABLE PRESENTANT UNE EXCELLENTE APTITUDE AU BRASAGE**  
[72] HIRAIDE, NOBUHIKO, JP  
[72] HAYASHI, ATSUTAKA, JP  
[73] NIPPON STEEL & SUMIKIN STAINLESS STEEL CORPORATION,  
[85] 2017-08-23  
[86] 2016-03-22 (PCT/JP2016/058987)  
[87] (WO2016/152854)  
[30] JP (2015-063569) 2015-03-26

---

[11] **2,978,452**  
[13] C

[51] **Int.Cl. H04R 1/10 (2006.01)**  
[25] EN  
[54] **PERSONAL ACOUSTIC SYSTEMS AND FLEXIBLE EARPIECE MOUNTS FOR THE SAME**  
[54] **SYSTEMES ACOUSTIQUES PERSONNELS ET SUPPORTS D'ECOUTEUR SOUPLES POUR CES DERNIERS**  
[72] BLAIR, NICHOLAS STANFORD, US  
[73] KOSS CORPORATION,  
[85] 2017-08-31  
[86] 2016-02-02 (PCT/US2016/016144)  
[87] (WO2016/148786)  
[30] US (14/660,292) 2015-03-17

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[11] **2,979,663**  
[13] C

[51] **Int.Cl. B61F 1/12 (2006.01) B61D 3/08 (2006.01) B61D 45/00 (2006.01) B61F 1/14 (2006.01)**  
[25] EN  
[54] **PROPPANT STORAGE AND TRANSFER SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE DE STOCKAGE ET DE TRANSFERT D'AGENT DE SOUTENEMENT**  
[72] OREN, JOHN, US  
[72] OREN, JOSHUA, US  
[73] OREN TECHNOLOGIES, LLC,  
[85] 2017-09-13  
[86] 2015-10-27 (PCT/US2015/057601)  
[87] (WO2016/160067)  
[30] US (62/139,323) 2015-03-27  
[30] US (14/738,485) 2015-06-12  
[30] US (14/922,836) 2015-10-26

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[11] **2,980,410**  
[13] C

[51] **Int.Cl. A61L 2/18 (2006.01) A23B 9/18 (2006.01) A23L 3/3409 (2006.01) A61L 2/20 (2006.01)**  
[25] FR  
[54] **METHOD AND DEVICE FOR THE CONTINUOUS OZONE-BASED TREATMENT OF PARTICULATE PRODUCTS, COMPRISING MEANS FOR CONVEYING AND VIBRATING SAID PRODUCTS**  
[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT A L'OZONE EN CONTINU DE PRODUITS DIVISES COMPRENANT DES MOYENS DE CONVOYAGE ET DE VIBRATION DES PRODUITS**  
[72] LEPEZ, OLIVIER, FR  
[72] SAJET, PHILIPPE, FR  
[72] GUZUN, TATIANA, FR  
[73] E.T.I.A. - EVALUATION TECHNOLOGIQUE, INGENIERIE ET APPLICATIONS,  
[85] 2017-09-20  
[86] 2016-04-08 (PCT/EP2016/057812)  
[87] (WO2016/162511)  
[30] FR (1553146) 2015-04-10

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[11] **2,980,878**  
[13] C

[51] **Int.Cl. C22C 38/38 (2006.01) C21D 8/00 (2006.01) C22C 38/02 (2006.01) C22C 38/26 (2006.01) C22C 38/28 (2006.01) C22C 38/32 (2006.01)**  
[25] FR  
[54] **PARTS WITH A BAINITIC STRUCTURE HAVING HIGH STRENGTH PROPERTIES AND MANUFACTURING PROCESS**  
[54] **PIECES A STRUCTURE BAINITIQUE A HAUTES PROPRIETES DE RESISTANCE ET PROCEDE DE FABRICATION**  
[72] PERROT-SIMONETTA, MARIE-THERESE, FR  
[72] RESIAK, BERNARD, FR  
[72] VOLL, ULRICH, DE  
[73] ARCELORMITTAL,  
[85] 2017-09-25  
[86] 2016-03-23 (PCT/IB2016/000343)  
[87] (WO2016/151390)  
[30] IB (PCT/IB2015/000384) 2015-03-23

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[11] **2,980,969**  
[13] C

[51] **Int.Cl. C09K 5/04 (2006.01)**  
[25] EN  
[54] **NON-OZONE DEPLETING AND LOW GLOBAL WARMING REFRIGERANT BLENDS**  
[54] **MELANGES DE REFRIGERANT N'APPAUVRISANT PAS LA COUCHE D'OZONE ET AYANT PEU D'INFLUENCE SUR LE RECHAUFFEMENT CLIMATIQUE**  
[72] POOLE, JOHN EDWARD, GB  
[72] POWELL, RICHARD, GB  
[73] RPL HOLDINGS LIMITED,  
[85] 2017-09-26  
[86] 2016-03-23 (PCT/GB2016/050827)  
[87] (WO2016/156812)  
[30] GB (1505230.1) 2015-03-27  
[30] GB (1602586.8) 2016-02-12

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**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,982,068**  
[13] C

[51] **Int.Cl. C22C 38/14 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01)**

[25] EN

[54] **STEEL SHEET FOR HEAT TREATMENT**

[54] **TOLE D'ACIER POUR TRAITEMENT THERMIQUE**

[72] SUWA, YOSHIHIRO, JP

[72] TABATA, SHINICHIRO, JP

[72] AZUMA, MASAFUMI, JP

[72] HIKIDA, KAZUO, JP

[73] NIPPON STEEL CORPORATION,

[85] 2017-10-06

[86] 2016-04-07 (PCT/JP2016/061424)

[87] (WO2016/163467)

[30] JP (2015-079386) 2015-04-08

[30] JP (2015-079389) 2015-04-08

[30] JP (2015-141643) 2015-07-15

[30] JP (2015-141646) 2015-07-15

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[11] **2,982,989**  
[13] C

[51] **Int.Cl. E21B 33/129 (2006.01) E21B 23/06 (2006.01) E21B 33/12 (2006.01)**

[25] EN

[54] **DOWNHOLE TOOL AND SYSTEM, AND METHOD OF USE**

[54] **OUTIL ET SYSTEME POUR DES OPERATIONS DE FOND DE TROU ET PROCÉDES POUR CE DERNIER**

[72] DAVIES, EVAN, US

[72] VANLUE, DUKE, US

[73] THE WELLBOSS COMPANY, LLC,

[85] 2017-10-16

[86] 2016-04-17 (PCT/US2016/028010)

[87] (WO2016/168782)

[30] US (62/148,938) 2015-04-17

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[11] **2,983,099**  
[13] C

[51] **Int.Cl. A63H 33/00 (2006.01) A63H 9/00 (2006.01) A63H 17/02 (2006.01)**

[25] EN

[54] **TRANSFORMING TOY**

[54] **JOUET TRANSFORMABLE**

[72] CHOI, JONG-ILL, KR

[73] CHOIROCK CONTENTS FACTORY CO., LTD.,

[85] 2017-10-17

[86] 2015-05-12 (PCT/KR2015/004711)

[87] (WO2016/182096)

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[11] **2,983,963**  
[13] C

[51] **Int.Cl. G01D 21/02 (2006.01) G07B 17/00 (2006.01)**

[25] EN

[54] **DYNAMIC SCALE FOR FLAT GOODS TRANSPORTED LYING ON THEIR SIDE, AND CONTROL METHOD OF THE DYNAMIC SCALE**

[54] **BALANCE DYNAMIQUE DESTINEE A DES PRODUITS PLATS TRANSPORTES REPOSANT SUR LE COTE, ET METHODE DE COMMANDE DE LA BALANCE DYNAMIQUE**

[72] GESERICH, FRANK, DE

[73] FRANCO TYP-POSTALIA GMBH,

[86] (2983963)

[87] (2983963)

[22] 2017-10-27

[30] DE (20 2016 106 125.3) 2016-11-01

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[11] **2,983,977**  
[13] C

[51] **Int.Cl. C07K 4/12 (2006.01) A61K 38/03 (2006.01)**

[25] EN

[54] **SHORT SYNTHETIC PEPTIDE FOR THE TREATMENT AND/OR PROPHYLAXIS OF AUTOIMMUNE AND INFLAMMATORY DISORDERS**

[54] **PEPTIDE SYNTHETIQUE COURT DESTINE AU TRAITEMENT OU A LA PROPHYLAXIE DE TROUBLES AUTO-IMMUNS ET INFLAMMATOIRES**

[72] TSAO, YEOU-PING, CN

[72] HO, TSUNG-CHUAN, CN

[73] MACKAY MEMORIAL HOSPITAL,

[85] 2017-10-24

[86] 2016-04-14 (PCT/CN2016/079284)

[87] (WO2016/173401)

[30] US (62/152,980) 2015-04-27

---

[11] **2,984,030**  
[13] C

[51] **Int.Cl. G10L 19/005 (2013.01) G10L 19/08 (2013.01)**

[25] EN

[54] **AUDIO DECODER AND METHOD FOR PROVIDING A DECODED AUDIO INFORMATION USING AN ERROR CONCEALMENT MODIFYING A TIME DOMAIN EXCITATION SIGNAL**

[54] **DECODEUR AUDIO ET PROCÉDE DE FOURNITURE D'INFORMATIONS AUDIO DECODEES AU MOYEN D'UN MASQUAGE D'ERREURS MODIFIANT UN SIGNAL D'EXCITATION DE DOMAINE TEMPOREL**

[72] LECOMTE, JEREMIE, DE

[73] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V.,

[86] (2984030)

[87] (2984030)

[22] 2014-10-27

[62] 2,928,974

[30] EP (EP13191133) 2013-10-31

[30] EP (EP14178825) 2014-07-28

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[11] **2,984,217**  
[13] C

[51] **Int.Cl. B65G 47/46 (2006.01)**

[25] EN

[54] **CONVEYOR WITH ACCUMULATION TABLE**

[54] **TRANSPORTEUR A COURROIE DOTE D'UNE TABLE D'ACCUMULATION**

[72] ANCA, DAN CONSTANTIN, CA

[73] NJM PACKAGING INC.,

[86] (2984217)

[87] (2984217)

[22] 2017-10-30

[30] US (62/416,460) 2016-11-02

**Canadian Patents Issued  
January 14, 2020**

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[11] **2,984,532**  
[13] C

[51] **Int.Cl. G10L 19/005 (2013.01) G10L 19/08 (2013.01)**  
[25] EN  
[54] **AUDIO DECODER AND METHOD FOR PROVIDING A DECODED AUDIO INFORMATION USING AN ERROR CONCEALMENT BASED ON A TIME DOMAIN EXCITATION SIGNAL**  
[54] **DECODEUR AUDIO ET PROCEDE POUR FOURNIR UNE INFORMATION AUDIO DECODEE EN UTILISANT UNE DISSIMULATION D'ERREUR BASEE SUR UN SIGNAL D'EXCITATION DANS LE DOMAINE TEMPOREL**  
[72] LECOMTE, JEREMIE, DE  
[72] MARKOVIC, GORAN, DE  
[72] SCHNABEL, MICHAEL, DE  
[72] PIETRZYK, GRZEGORZ, DE  
[73] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V.,  
[86] (2984532)  
[87] (2984532)  
[22] 2014-10-27  
[62] 2,929,012  
[30] EP (EP13191133) 2013-10-31  
[30] EP (EP14178824) 2014-07-28

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[11] **2,984,562**  
[13] C

[51] **Int.Cl. G10L 19/005 (2013.01) G10L 19/08 (2013.01)**  
[25] EN  
[54] **AUDIO DECODER AND METHOD FOR PROVIDING A DECODED AUDIO INFORMATION USING AN ERROR CONCEALMENT BASED ON A TIME DOMAIN EXCITATION SIGNAL**  
[54] **DECODEUR AUDIO ET PROCEDE POUR FOURNIR UNE INFORMATION AUDIO DECODEE EN UTILISANT UNE DISSIMULATION D'ERREUR BASEE SUR UN SIGNAL D'EXCITATION DANS LE DOMAINE TEMPOREL**  
[72] LECOMTE JEREMIE, DE  
[72] MARKOVIC, GORAN, DE  
[72] SCHNABEL, MICHAEL, DE  
[72] PIETRZYK, GRZEGORZ, DE  
[73] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V.,  
[86] (2984562)  
[87] (2984562)  
[22] 2014-10-27  
[62] 2,929,012  
[30] EP (EP13191133) 2013-10-31  
[30] EP (EP14178824) 2014-07-28

---

[11] **2,984,573**  
[13] C

[51] **Int.Cl. G10L 19/005 (2013.01)**  
[25] EN  
[54] **AUDIO DECODER AND METHOD FOR PROVIDING A DECODED AUDIO INFORMATION USING AN ERROR CONCEALMENT BASED ON A TIME DOMAIN EXCITATION SIGNAL**  
[54] **DECODEUR AUDIO ET PROCEDE POUR FOURNIR UNE INFORMATION AUDIO DECODEE EN UTILISANT UNE DISSIMULATION D'ERREUR BASEE SUR UN SIGNAL D'EXCITATION DANS LE DOMAINE TEMPOREL**  
[72] LECOMTE, JEREMIE, DE  
[72] MARKOVIC, GORAN, DE  
[72] SCHNABEL, MICHAEL, DE  
[72] PIETRZYK, GRZEGORZ, DE  
[73] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V.,  
[86] (2984573)  
[87] (2984573)  
[22] 2014-10-27  
[62] 2,929,012  
[30] EP (EP13191133) 2013-10-31  
[30] EP (EP14178824) 2014-07-28

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[11] **2,984,906**  
[13] C

[51] **Int.Cl. G01R 19/00 (2006.01) G01R 21/06 (2006.01) H04W 84/18 (2009.01) G01W 1/14 (2006.01)**  
[25] EN  
[54] **WEATHER RESISTANT UNGROUNDED POWER LINE SENSOR**  
[54] **CAPTEUR POUR LIGNE D'ENERGIE NON MISE A LA TERRE RESISTANTE AUX INTEMPERIES**  
[72] MEEKER, DAVID C., US  
[72] BERGLUND, JOSHUA, US  
[72] MASON, TIMOTHY J., US  
[72] MURPHREE, MICHAEL L., US  
[72] POST, ALEXANDER E., US  
[72] GODFREY, JAMES F., US  
[73] FOSTER-MILLER, INC.,  
[85] 2017-11-02  
[86] 2016-02-05 (PCT/US2016/016675)  
[87] (WO2016/209322)  
[30] US (14/745,825) 2015-06-22

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,985,304**  
[13] C

[51] **Int.Cl. B60B 33/00 (2006.01)**  
[25] EN  
[54] **CASTER ADAPTER OR WHEEL ASSEMBLY FOR MOBILE WHEEL BASE**  
[54] **ADAPTEUR DE ROULETTE OU ENSEMBLE DE ROUES DESTINE A UNE BASE MOBILE SUR ROUES**  
[72] FRANZONE, ANDREW, JR., US  
[72] AHEARN, ROBERT, US  
[72] SEGER, ERIC, US  
[73] ALLEN FIELD COMPANY, INC.,  
[86] (2985304)  
[87] (2985304)  
[22] 2017-11-14  
[30] US (62/421,668) 2017-11-14

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[11] **2,986,605**  
[13] C

[51] **Int.Cl. H04W 74/04 (2009.01)**  
[25] EN  
[54] **DATA TRANSMISSION METHOD, APPARATUS, AND SYSTEM, AND ACCESS POINT**  
[54] **PROCEDE, DISPOSITIF ET SYSTEME DE TRANSMISSION DE DONNEES, ET POINT D'ACCES**  
[72] LIU, LE, CN  
[72] LAN, ZHOU, CN  
[73] HUAWEI TECHNOLOGIES CO., LTD.,  
[85] 2017-11-21  
[86] 2015-05-21 (PCT/CN2015/079496)  
[87] (WO2016/183842)

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[11] **2,987,175**  
[13] C

[51] **Int.Cl. B64F 5/00 (2017.01) B64C 7/00 (2006.01) B64C 27/82 (2006.01)**  
[25] FR  
[54] **OPTIMIZATION PROCESS FOR SECTIONS OF A TAIL BOOM INTENDED FOR A ROTARY WING AIRCRAFT**  
[54] **PROCEDE D'OPTIMISATION DES SECTIONS D'UNE POUTRE DE QUEUE DESTINEE A UN AERONEF A VOILURE TOURNANTE**  
[72] ALFANO, DAVID, FR  
[72] LEGRAS, GUILLAUME, FR  
[72] LEUSINK, DEBBIE, FR  
[73] AIRBUS HELICOPTERS,  
[86] (2987175)  
[87] (2987175)  
[22] 2017-11-28

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[11] **2,987,216**  
[13] C

[51] **Int.Cl. C12N 5/10 (2006.01) A01H 6/54 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**  
[25] EN  
[54] **SOYBEAN VARIETY CL21924007**  
[54] **VARIETE DE SOJA CL21924007**  
[72] CAMPBELL, WILLIAM M., US  
[73] AGRIGENETICS, INC.,  
[86] (2987216)  
[87] (2987216)  
[22] 2017-11-30  
[30] US (62/588582) 2017-11-20

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[11] **2,987,618**  
[13] C

[51] **Int.Cl. E05B 59/00 (2006.01) E05B 17/20 (2006.01)**  
[25] EN  
[54] **MULTIPOINT LOCK**  
[54] **VERROU MULTIPOINT**  
[72] JASKIEWICZ, TOMASZ, US  
[72] HEID, GEORGE, US  
[72] JOHNSON, ERIC, US  
[72] KENDALL, ADAM, US  
[73] ENDURA PRODUCTS, INC.,  
[86] (2987618)  
[87] (2987618)  
[22] 2017-12-04  
[30] US (15/828,640) 2017-12-01  
[30] US (62/508,460) 2017-05-19  
[30] US (62/488,098) 2017-04-21  
[30] US (62/447,955) 2017-01-19

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[11] **2,988,243**  
[13] C

[51] **Int.Cl. F16K 3/312 (2006.01) F16K 3/10 (2006.01) F16K 3/16 (2006.01)**  
[25] EN  
[54] **LINE BLIND VALVE**  
[54] **VALVE DE TYPE OBTURATEUR AMOVIBLE**  
[72] PRONTACK, RYAN JOSEPH, CA  
[72] KEEN, JOHN LAWRENCE, CA  
[72] HALLIDAY, KYLE, CA  
[73] EVERGREEN MECHANICAL DESIGN LTD.,  
[85] 2017-05-05  
[86] 2014-11-17 (PCT/CA2014/000830)  
[87] (WO2015/070338)  
[30] US (61904764) 2013-11-15  
[30] US (61963693) 2014-04-24

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[11] **2,989,832**  
[13] C

[51] **Int.Cl. C22B 3/42 (2006.01) C22B 1/00 (2006.01) C22B 7/00 (2006.01) C22B 59/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR RECOVERING SCANDIUM FROM RED MUD LEFT FROM ALUMINA PRODUCTION**  
[54] **METHODE DE RECUPERATION DE SCANDIUM DE LA BOUE ROUGE ISSUE DE LA PRODUCTION D'ALUMINE**  
[72] KOZYREV, ALEKSANDR BORISOVICH, RU  
[72] PETRAKOVA, OL'GA VIKTOROVNA, RU  
[72] SUSS, ALEKSANDR GENNADIEVICH, RU  
[72] GORBACHEV, SERGEJ NIKOLAEVICH, RU  
[72] PANOV, ANDREJ VLADIMIROVICH, RU  
[73] OBSHCHESTVO S OGRANICHENNOY OTVETSTVENNOST'YU "OBEDINENNAYA KOMPANIYA SAL INZHENERNO-TEKHNOLOGICHESKIY TSENTR",  
[85] 2017-12-21  
[86] 2017-06-21 (PCT/RU2017/000438)  
[87] (WO2018/236240)

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[11] **2,990,491**  
[13] C

[51] **Int.Cl. A45D 1/18 (2006.01)**  
[25] EN  
[54] **HOT IRON AND CURLER WITH BRUSH BRISTLES**  
[54] **FER CHAUD ET APPAREIL A FRISER A POILS DE BROsse**  
[72] XIAO, YONG, CN  
[72] CHANG, HUAN, CN  
[73] FAROUK SYSTEMS, INC.,  
[85] 2017-12-21  
[86] 2016-07-11 (PCT/CN2016/089593)  
[87] (WO2017/005221)  
[30] CN (201520493412.3) 2015-07-09

**Canadian Patents Issued  
January 14, 2020**

[11] **2,990,502**  
[13] C

[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/315 (2006.01)**  
[25] EN  
[54] **PREFILLABLE AUTO-RETRACTABLE SAFETY SYRINGE**  
[54] **SERINGUE DE SECURITE AUTORETRACTABLE PREREMPLISSABLE**  
[72] LIN LEE, LEE, CN  
[72] CHANG, WEN-HSU, CN  
[73] BENCHA INTERNATIONAL GROUP INC.,  
[86] (2990502)  
[87] (2990502)  
[22] 2013-12-19  
[62] 2,894,138  
[30] US (61/740,207) 2012-12-20

[11] **2,990,542**  
[13] C

[51] **Int.Cl. B61C 17/00 (2006.01) B60W 50/08 (2012.01)**  
[25] EN  
[54] **DEVICES, SYSTEMS, AND METHODS FOR RELAYING VOICE MESSAGES TO OPERATOR CONTROL UNITS OF REMOTE CONTROL LOCOMOTIVES**  
[54] **DISPOSITIFS, SYSTEMES ET METHODE DE TRANSMISSION DE MESSAGES VOCAUX AUX MODULES DE CONTROLE OPERATEUR DE LOCOMOTIVES TELECOMMANDEES**  
[72] JOVENALL, JEREMY, US  
[72] SZKLAR, OLEH, CA  
[73] CONTROL SOLUTIONS ENTERPRISES, INC.,  
[86] (2990542)  
[87] (2990542)  
[22] 2018-01-02  
[30] US (15/397,186) 2017-01-03

[11] **2,990,926**  
[13] C

[51] **Int.Cl. E03C 1/04 (2006.01) B05B 1/18 (2006.01) F16K 31/44 (2006.01)**  
[25] EN  
[54] **FAUCETS PROVIDING MIXED WATER AND AIR FLOW**  
[54] **ROBINETS FOURNISSANT LE MELANGE D'ECOULEMENT D'EAU ET D'AIR**  
[72] YUAN, CHIAHUA, TW  
[72] LIN, YIPING, TW  
[72] CHIU, HUILING, TW  
[72] CHANG, YUANHAO, TW  
[73] GLOBE UNION INDUSTRIAL CORP.,  
[86] (2990926)  
[87] (2990926)  
[22] 2018-01-05

[11] **2,991,781**  
[13] C

[51] **Int.Cl. A61M 1/16 (2006.01) B01J 20/02 (2006.01)**  
[25] EN  
[54] **CARTRIDGES USEFUL IN CLEANING DIALYSIS SOLUTIONS**  
[54] **CARTOUCHES UTILES POUR LE NETTOYAGE DE SOLUTIONS DE DIALYSE**  
[72] MERCHANT, STEPHEN A., US  
[73] FRESENIUS MEDICAL CARE HOLDINGS, INC.,  
[85] 2018-01-08  
[86] 2016-07-22 (PCT/US2016/043442)  
[87] (WO2017/048358)  
[30] US (62/219,369) 2015-09-16

[11] **2,991,834**  
[13] C

[51] **Int.Cl. D06N 3/04 (2006.01) C09D 7/65 (2018.01) B60R 21/235 (2006.01) C09D 5/00 (2006.01) C09D 175/04 (2006.01) C10M 107/38 (2006.01)**  
[25] EN  
[54] **COATED FABRIC PRODUCTS**  
[54] **PRODUITS EN TISSU REVETU**  
[72] BARTH, MARITA, DE  
[72] BLACKWOOD, WILLIAM, US  
[72] CLERICI, VITTORIO, DE  
[72] MOUNTNEY, ANDREW WILLIAM, GB  
[73] DOW CORNING CORPORATION,  
[86] (2991834)  
[87] (2991834)  
[22] 2010-11-12  
[62] 2,915,366  
[30] US (61/260,526) 2009-11-12

[11] **2,993,392**  
[13] C

[51] **Int.Cl. E21B 44/00 (2006.01) E21B 41/00 (2006.01) E21B 47/04 (2012.01)**  
[25] EN  
[54] **CONTROL SYSTEM FOR DOWNHOLE OPERATIONS**  
[54] **SYSTEME DE COMMANDE POUR OPERATIONS EN FOND DE TROU**  
[72] VUYK, ADRIAN, JR., US  
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC,  
[86] (2993392)  
[87] (2993392)  
[22] 2012-06-14  
[62] 2,838,339  
[30] US (61/496,784) 2011-06-14

[11] **2,993,509**  
[13] C

[51] **Int.Cl. B64C 1/14 (2006.01) B64D 15/20 (2006.01) G01N 27/04 (2006.01) G01N 27/12 (2006.01) G01N 27/22 (2006.01) G01R 27/26 (2006.01)**  
[25] EN  
[54] **AEROSPACE TRANSPARENCY HAVING MOISTURE SENSORS**  
[54] **VITRAGE D'AERONEF COMPRENANT DES CAPTEURS D'HUMIDITE**  
[72] JIAO, YU, US  
[72] ACORD, JEREMY D., US  
[72] DUARTE, NICOLAS B., US  
[73] PPG INDUSTRIES OHIO, INC.,  
[85] 2018-01-24  
[86] 2016-05-26 (PCT/US2016/034307)  
[87] (WO2017/019165)  
[30] US (14/810,517) 2015-07-28

[11] **2,994,862**  
[13] C

[51] **Int.Cl. E21B 43/26 (2006.01)**  
[25] EN  
[54] **MANIFOLD TRAILER HAVING A SINGLE HIGH PRESSURE OUTPUT MANIFOLD**  
[54] **REMORQUE A COLLECTEUR COMPRENANT UN SEUL COLLECTEUR DE SORTIE HAUTE PRESSION**  
[72] DILLE, MARK C., US  
[72] JOHNSON, ANDREW J., US  
[73] FORUM US, INC.,  
[85] 2018-02-05  
[86] 2016-10-26 (PCT/US2016/058764)  
[87] (WO2017/078996)  
[30] US (14/932,084) 2015-11-04

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **2,995,012**  
[13] C

[51] **Int.Cl. A61M 5/168 (2006.01) A61M 5/172 (2006.01) G01F 1/66 (2006.01)**  
[25] EN  
[54] **FLOW SENSOR SYSTEM WITH ABSORBER**  
[54] **SYSTEME DE CAPTEUR D'ECOULEMENT AVEC ABSORBEUR**  
[72] DEKALB, SHAWN WAYNE, US  
[73] CRISI MEDICAL SYSTEMS, INC.,  
[85] 2018-02-06  
[86] 2016-08-25 (PCT/US2016/048719)  
[87] (WO2017/040208)  
[30] US (62/211,309) 2015-08-28

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[11] **2,995,183**  
[13] C

[51] **Int.Cl. B61F 5/12 (2006.01)**  
[25] EN  
[54] **RAILWAY CAR TRUCK FRICTION SHOE**  
[54] **SABOT DE FRICTION DESTINE A UN WAGON**  
[72] COSEGLIA, JOHN, US  
[73] AMSTED RAIL COMPANY, INC.,  
[86] (2995183)  
[87] (2995183)  
[22] 2018-02-15  
[30] US (15/453,489) 2017-03-08

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[11] **2,995,504**  
[13] C

[51] **Int.Cl. D21G 1/02 (2006.01) C08J 5/04 (2006.01) C08L 75/04 (2006.01)**  
[25] EN  
[54] **POLYURETHANE ROLL COVER FOR CALENDER ROLL FOR PAPERMAKING MACHINE**  
[54] **RETEMENT DE ROULEAU EN POLYURETHANE POUR ROULEAU DE CALANDRE POUR MACHINE A PAPIER**  
[72] XU, JUN, US  
[72] HILL, CHRISTOPHER, US  
[72] TYSON, CHRISTOPHER, US  
[72] HUNTER, CHARLES, US  
[73] STOWE WOODWARD LICENSCO, LLC,  
[85] 2018-02-12  
[86] 2016-11-01 (PCT/US2016/059815)  
[87] (WO2017/087152)  
[30] US (62/256,312) 2015-11-17

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[11] **2,995,907**  
[13] C

[51] **Int.Cl. F16D 55/36 (2006.01)**  
[25] EN  
[54] **WORK VEHICLE**  
[54] **ENGIN DE CHANTIER**  
[72] NAITOU, SHINICHI, JP  
[72] ISHIZAKA, TAKUYA, JP  
[73] KOMATSU LTD.,  
[85] 2018-02-16  
[86] 2016-03-16 (PCT/JP2016/058332)  
[87] (WO2017/158759)

---

[11] **2,996,144**  
[13] C

[51] **Int.Cl. H05B 37/02 (2006.01) B61L 9/04 (2006.01) H05B 37/04 (2006.01)**  
[25] EN  
[54] **HOT STANDBY FOR LAMP DRIVER**  
[54] **ATTENTE A CHAUD DESTINEE A UN AMPLIFICATEUR DE VOYANT**  
[72] HOGAN, BRIAN JOSEPH, US  
[72] SCHMIDT, HOLGER, US  
[73] SIEMENS INDUSTRY, INC.,  
[86] (2996144)  
[87] (2996144)  
[22] 2018-02-23  
[30] US (15/442766) 2017-02-27

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[11] **2,997,891**  
[13] C

[51] **Int.Cl. B41F 19/00 (2006.01) B41F 16/00 (2006.01)**  
[25] EN  
[54] **SHEET-FED STAMPING PRESS HAVING A FOIL LAMINATING UNIT**  
[54] **PRESSE A GAUFRE D'ACHEMINEMENT DE FEUILLE AYANT UNE UNITE DE STRATIFICATION DE FEUILLE**  
[72] GYGI, MATTHIAS, CH  
[72] BAUER, REGINA, DE  
[72] KRIEGE, BJORN, DE  
[73] KBA-NOTASYS SA,  
[85] 2018-03-07  
[86] 2016-11-03 (PCT/IB2016/056619)  
[87] (WO2017/077478)  
[30] EP (15193279.5) 2015-11-05

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[11] **2,998,496**  
[13] C

[51] **Int.Cl. E05C 17/22 (2006.01)**  
[25] EN  
[54] **VEHICLE DOOR CHECKER**  
[54] **APPAREIL DE VERIFICATION DE PORTE DE VEHICULE**  
[72] CARSWELL, DAVID EDWARD, CA  
[72] GRUBER, RUDOLF, CA  
[73] MULTIMATIC INC.,  
[85] 2018-03-12  
[86] 2015-11-06 (PCT/US2015/059495)  
[87] (WO2017/078737)

---

[11] **2,998,939**  
[13] C

[51] **Int.Cl. A61M 5/168 (2006.01) A61M 5/142 (2006.01) A61M 5/145 (2006.01) A61M 5/172 (2006.01) A61M 5/50 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR DETECTING OCCLUSIONS IN AN AMBULATORY INFUSION PUMP**  
[54] **PROCEDE ET APPAREIL DE DETECTION D'OCCLUSIONS DANS UNE POMPE DE PERFUSION AMBULATOIRE**  
[72] MOBERG, SHELDON B., US  
[72] HANSON, IAN B., US  
[72] TALBOT, CARY D., US  
[73] MEDTRONIC MINIMED, INC.,  
[86] (2998939)  
[87] (2998939)  
[22] 2006-12-21  
[62] 2,930,776  
[30] US (11/323104) 2005-12-30

---

[11] **3,001,287**  
[13] C

[51] **Int.Cl. H04N 7/18 (2006.01) B60R 1/00 (2006.01)**  
[25] EN  
[54] **DISPLAY ASSISTANCE DEVICE AND DISPLAY ASSISTANCE METHOD**  
[54] **DISPOSITIF ET PROCEDE D'ASSISTANCE D'AFFICHAGE**  
[72] KUSAYANAGI, YOSHINORI, JP  
[72] KISHI, NORIMASA, JP  
[73] NISSAN MOTOR CO., LTD.,  
[85] 2018-04-06  
[86] 2016-09-09 (PCT/JP2016/076566)  
[87] (WO2017/061230)  
[30] JP (2015-199918) 2015-10-08

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**Canadian Patents Issued  
January 14, 2020**

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[11] **3,002,268**  
[13] C

[51] **Int.Cl. A61B 34/20 (2016.01) A61B 34/30 (2016.01)**  
[25] EN  
[54] **OPTICAL-BASED INPUT FOR MEDICAL DEVICES**  
[54] **SIGNAL D'ENTREE FONDE SUR L'OPTIQUE DESTINE AUX DISPOSITIFS MEDICAUX**  
[72] SRIMOHANARAJAH, KIRUSHA, CA  
[72] LUI, DOROTHY, CA  
[72] SELA, GAL, CA  
[72] SOMAN, STEPHEN ELLIOTT, CA  
[72] MOVAGHATI, SEPIDE, CA  
[73] SYNAPTIVE MEDICAL (BARBADOS) INC.,  
[85] 2018-04-20  
[86] 2016-12-08 (PCT/CA2016/051440)  
[87] (WO2018/102904)

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[11] **3,003,043**  
[13] C

[51] **Int.Cl. B60W 20/10 (2016.01) B60W 20/40 (2016.01)**  
[25] EN  
[54] **DRIVE UNIT FOR HYBRID VEHICLE**  
[54] **MODULE D'ENTRAINEMENT POUR VEHICULE HYBRIDE**  
[72] ENDO, TAKAHITO, JP  
[72] KOMADA, HIDEAKI, JP  
[72] IMAMURA, TATSUYA, JP  
[72] HATA, KENSEI, JP  
[72] NISHIMINE, AKIKO, JP  
[73] TOYOTA JIDOSHA KABUSHIKI KAISHA,  
[86] (3003043)  
[87] (3003043)  
[22] 2018-04-27  
[30] JP (2017-089914) 2017-04-28

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[11] **3,004,206**  
[13] C

[51] **Int.Cl. G01B 5/20 (2006.01) G01B 5/24 (2006.01)**  
[25] EN  
[54] **TACTILE RUNOUT MEASUREMENT AND LENGTH MEASUREMENT**  
[54] **MESURE DE PLANEITE ET MESURE DE LONGUEUR PAR VOIE TACTILE**  
[72] RATTUNDE, ULRICH, DE  
[73] RATTUNDE AG,  
[85] 2018-05-03  
[86] 2016-11-14 (PCT/EP2016/077573)  
[87] (WO2017/085013)  
[30] DE (10 2015 120 177.1) 2015-11-20

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[11] **3,006,442**  
[13] C

[51] **Int.Cl. B60Q 1/05 (2006.01) E04H 12/18 (2006.01) F16B 7/10 (2006.01) F16B 7/14 (2006.01) F21V 21/22 (2006.01) H01Q 1/10 (2006.01) H01Q 1/12 (2006.01)**  
[25] EN  
[54] **LATCH FOR SEQUENTIALLY EXTENDED MECHANICAL MAST**  
[54] **LOQUET POUR MAT MECANIQUE A EXTENSION SEQUENTIELLE**  
[72] WASSON, ANDREW PAUL, US  
[72] JACOBS, DOUGLAS ANTHONY, US  
[73] THE WILL-BURT COMPANY,  
[85] 2018-05-25  
[86] 2016-11-22 (PCT/US2016/063223)  
[87] (WO2017/131846)  
[30] US (15/007,323) 2016-01-27

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[11] **3,006,690**  
[13] C

[51] **Int.Cl. A47L 15/22 (2006.01)**  
[25] EN  
[54] **SPRAYING ASSEMBLY FOR DISH WASHING MACHINE AND DISH WASHING MACHINE HAVING SAME**  
[54] **ENSEMBLE BRAS DE PULVERISATION DE LAVE-VAISSELLE ET LAVE-VAISSELLE COMPRENANT CELUI-CI**  
[72] LI, MINGFENG, CN  
[72] GAO, FENG, CN  
[73] FOSHAN SHUNDE MIDEA WASHING APPLIANCES MFG. CO., LTD.,  
[73] MIDEA GROUP CO., LTD.,  
[85] 2018-05-29  
[86] 2015-12-01 (PCT/CN2015/096165)  
[87] (WO2017/091982)

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[11] **3,007,712**  
[13] C

[51] **Int.Cl. H04M 3/523 (2006.01) H04M 3/36 (2006.01) H04M 3/51 (2006.01)**  
[25] EN  
[54] **TECHNIQUES FOR L3 PAIRING AND WORKFORCE MANAGEMENT IN A CONTACT CENTER SYSTEM**  
[54] **TECHNIQUE DE PAIRAGE L3 ET GESTION DE MAIN D'OEUVRE DANS UN SYSTEME DE CENTRE DE CONTACT**  
[72] CHISHTI, ZIA, US  
[73] AFINITI EUROPE TECHNOLOGIES LIMITED,  
[85] 2018-06-28  
[86] 2017-12-18 (PCT/IB2017/001748)  
[87] (WO2018/122614)  
[30] US (15/395,469) 2016-12-30  
[30] US (15/395,505) 2016-12-30  
[30] US (15/395,517) 2016-12-30  
[30] US (15/395,529) 2016-12-30

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[11] **3,007,896**  
[13] C

[51] **Int.Cl. E04H 15/20 (2006.01) E04B 1/343 (2006.01) E04H 15/44 (2006.01)**  
[25] EN  
[54] **MULTI-LAYERED PNEUMATICALLY SUPPORTED STRUCTURES**  
[54] **STRUCTURES MULTICOUCHES SUPPORTEES DE MANIERE PNEUMATIQUE**  
[72] WARNER, HAROLD A., CA  
[72] LUKASIEWICZ, STANISLAW A., CA  
[72] STRATTON, JOHN CHARLES, CA  
[73] DYNAMIC SHELTERS INC.,  
[85] 2018-07-13  
[86] 2018-02-02 (PCT/CA2018/050120)  
[87] (WO2018/141065)  
[30] US (62/454,363) 2017-02-03

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **3,008,725**  
[13] C

[51] **Int.Cl. B64F 1/36 (2017.01) G06Q 50/30 (2012.01) B64F 1/32 (2006.01) G01G 19/52 (2006.01) G01G 23/16 (2006.01) G01G 23/42 (2006.01)**

[25] EN

[54] **LUGGAGE PROCESSING STATION AND SYSTEM THEREOF**

[54] **STATION DE TRAITEMENT DE BAGAGES ET SYSTEME ASSOCIE**

[72] DINKELMANN, RICHARD, AU

[72] DINKELMANN, RAINER, AU

[73] ICM AIRPORT TECHNICS AUSTRALIA PTY LTD,

[86] (3008725)

[87] (3008725)

[22] 2015-02-27

[62] 2,939,977

[30] AU (2014900670) 2014-02-28

[30] AU (2014900987) 2014-03-21

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[11] **3,009,198**  
[13] C

[51] **Int.Cl. B65D 88/64 (2006.01) A01F 25/14 (2006.01) B65D 83/06 (2006.01) B65D 88/66 (2006.01)**

[25] EN

[54] **BULK MATERIAL UNLOADING SYSTEM**

[54] **SYSTEME DE DECHARGEMENT DE MATERIAUX EN VRAC**

[72] SWANSON, MALCOLM L., US

[73] ASTEC INDUSTRIES, INC.,

[85] 2018-06-19

[86] 2017-02-16 (PCT/US2017/018124)

[87] (WO2017/143030)

[30] US (62/295,553) 2016-02-16

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[11] **3,010,104**  
[13] C

[51] **Int.Cl. B29C 65/44 (2006.01) B29C 65/30 (2006.01) B29C 65/64 (2006.01)**

[25] EN

[54] **METAL-RESIN JOINING DEVICE**

[54] **DISPOSITIF DE JOINTAGE METAL-RESINE**

[72] IWAMOTO, YOSHIAKI, JP

[72] SAEKI, SHUHEI, JP

[73] DENGGENSHA TOA CO., LTD.,

[85] 2018-08-01

[86] 2018-01-05 (PCT/JP2018/000104)

[87] (WO2018/220892)

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[11] **3,010,192**  
[13] C

[51] **Int.Cl. A61H 23/02 (2006.01) A61F 5/00 (2006.01)**

[25] EN

[54] **WEARABLE THORAX PERCUSSION DEVICE**

[54] **DISPOSITIF DE PERCUSSION THORACIQUE PORTABLE**

[72] DEVLIEGER, MARTEN JAN, CA

[72] DRLIK, MARK S., CA

[72] LEE, RYAN, CA

[73] HILL-ROM SERVICES PTE. LTD.,

[86] (3010192)

[87] (3010192)

[22] 2013-06-28

[62] 2,819,683

[30] US (13/538,716) 2012-06-29

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[11] **3,012,339**  
[13] C

[51] **Int.Cl. E05F 1/06 (2006.01) E05D 11/10 (2006.01)**

[25] EN

[54] **ANGLE-ADJUSTABLE POSITIONING AND SELF-CLOSING HINGE FOR HIGHLY SEALED DOOR**

[54] **CHARNIERE A POSITIONNEMENT ANGULAIRE REGLABLE ET FERMETURE AUTOMATIQUE POUR PORTE FORTEMENT SCELLEE**

[72] WU, YULONG, CN

[73] TONGGUAN (XIAMEN) ELECTRONIC TECHNOLOGY CO., LTD.,

[85] 2018-07-12

[86] 2016-09-28 (PCT/CN2016/100555)

[87] (WO2017/054728)

[30] CN (201510631334.3) 2015-09-29

[30] CN (201520761852.2) 2015-09-29

[30] CN (201610794539.8) 2016-08-31

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[11] **3,012,545**  
[13] C

[51] **Int.Cl. B60L 50/72 (2019.01) H01M 8/04746 (2016.01) B60L 50/70 (2019.01) H01M 2/12 (2006.01)**

[25] EN

[54] **FUEL CELL VEHICLE AND CONTROL METHOD OF FUEL CELL VEHICLE**

[54] **VEHICULE A PILE A COMBUSTIBLE ET METHODE DE COMMANDE D'UN VEHICULE A PILE A COMBUSTIBLE**

[72] YAMAMORI, KEITARO, JP

[73] TOYOTA JIDOSHA KABUSHIKI KAISHA,

[86] (3012545)

[87] (3012545)

[22] 2018-07-26

[30] JP (2017-197449) 2017-10-11

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[11] **3,013,004**  
[13] C

[51] **Int.Cl. A47L 11/40 (2006.01) A47L 7/00 (2006.01) A47L 11/34 (2006.01)**

[25] EN

[54] **LIQUID EXTRACTION APPARATUS AND METHOD**

[54] **APPAREIL D'EXTRACTION DE LIQUIDE ET METHODE**

[72] FOSTER, RICHARD, US

[72] ANDERSON, STANLEY, US

[72] TERPSTRA, CHRISTOPHER, US

[72] VALENTIC, JAN, US

[72] MA, XINTAO, CN

[72] CHAVANA, ERNEST MATTHEW, JR., US

[73] RUG DOCTOR, LLC,

[86] (3013004)

[87] (3013004)

[22] 2018-07-31

[30] US (15/709,010) 2017-09-19

**Canadian Patents Issued  
January 14, 2020**

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[11] **3,013,734**  
[13] C

[51] **Int.Cl. A61K 31/554 (2006.01) A61K 31/277 (2006.01) A61P 31/22 (2006.01)**  
[25] EN  
[54] **METHOD AND COMPOSITION FOR TREATMENT AND PREVENTION OF BROAD SPECTRUM VIRUS AILMENTS**  
[54] **METHODE ET COMPOSITION DESTINEES AU TRAITEMENT ET A LA PREVENTION D'UNE VASTE GAMME D'AFFECTIONS VIRALES**  
[72] ADAMS, KENNETH W., CA  
[73] DR. KENNETH ADAMS MEDICINE PROFESSIONAL CORPORATION,  
[86] (3013734)  
[87] (3013734)  
[22] 2009-12-03  
[62] 2,687,013

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[11] **3,014,757**  
[13] C

[51] **Int.Cl. C09D 5/02 (2006.01) A01N 55/08 (2006.01) C09D 5/14 (2006.01)**  
[25] EN  
[54] **BENZOXABOROLE-CONTAINING COATING RESISTANT TO CELLULOSE-SUPPORTABLE FUNGUS**  
[54] **REVEITEMENT CONTENANT DU BENZOXABOROLE RESISTANT A UN CHAMPIGNON SUSCEPTIBLE D'ETRE PORTE PAR LA CELLULOSE**  
[72] BENKOVIC, STEPHEN J., US  
[72] LIU, CHUN YU, US  
[72] KAISER, EDWARD Q., US  
[73] THE PENN STATE RESEARCH FOUNDATION,  
[85] 2018-08-15  
[86] 2016-08-03 (PCT/US2016/045329)  
[87] (WO2017/024022)  
[30] US (62/201,836) 2015-08-06  
[30] US (15/227,154) 2016-08-03

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[11] **3,015,426**  
[13] C

[51] **Int.Cl. C12N 5/10 (2006.01) A01H 6/20 (2018.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) C11B 1/00 (2006.01) C12N 9/00 (2006.01) C12N 9/02 (2006.01) C12N 15/52 (2006.01) C12N 15/53 (2006.01) C12N 15/82 (2006.01) C12P 7/62 (2006.01) C12P 7/64 (2006.01)**  
[25] EN  
[54] **RECOMBINANT CELLS COMPRISING EXOGENOUS .DELTA.5 AND .DELTA.6 DESATURASES, .DELTA.5 AND .DELTA.6 ELONGASES, AND .DELTA.4 DESATURASES**  
[54] **CELLULES RECOMBINANTES RENFERMANT DES DELTA-5 DESATURASES ET DELTA-6 DESATURASES EXOGENES ET DES DELTA-6 ELONGASES ET DES DELTA-4 DESATURASES**  
[72] PETRIE, JAMES ROBERTSON, AU  
[72] MACKENZIE, ANNE MAREE, AU  
[72] LIU, QING, AU  
[72] SHRESTHA, PUSHKAR, AU  
[72] NICHOLS, PETER DAVID, AU  
[72] BLACKBURN, SUSAN IRENE ELLIS, AU  
[72] MANSOUR, MAGED PETER, AU  
[72] ROBERT, STANLEY SURESH, AU  
[72] FRAMPTON, DION MATTHEW FREDERICK, AU  
[72] ZHOU, XUE-RONG, AU  
[72] SINGH, SURINDER PAL, AU  
[72] WOOD, CRAIG CHRISTOPHER, AU  
[73] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION,  
[73] GRAINS RESEARCH AND DEVELOPMENT CORPORATION,  
[86] (3015426)  
[87] (3015426)  
[22] 2009-11-17  
[62] 2,743,880  
[30] US (61/199669) 2008-11-18  
[30] US (61/270710) 2009-07-09

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[11] **3,017,437**  
[13] C

[51] **Int.Cl. H01M 8/04119 (2016.01) H01M 8/04746 (2016.01) H01M 8/04 (2016.01)**  
[25] EN  
[54] **WET STATE CONTROL METHOD FOR FUEL CELL SYSTEM AND WET STATE CONTROL DEVICE FOR THE SAME**  
[54] **PROCEDE DE REGULATION D'ETAT DE MOUILLAGE POUR SYSTEME DE PILE A COMBUSTIBLE, ET DISPOSITIF DE REGULATION D'ETAT DE MOUILLAGE**  
[72] CHIKUGO, HAYATO, JP  
[72] TOMITA, YOUSUKE, JP  
[72] AOKI, TETSUYA, JP  
[73] NISSAN MOTOR CO., LTD.,  
[85] 2018-09-11  
[86] 2016-12-08 (PCT/JP2016/086636)  
[87] (WO2017/158957)  
[30] JP (2016-051340) 2016-03-15

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[11] **3,018,524**  
[13] C

[51] **Int.Cl. A61G 13/12 (2006.01) A61G 15/12 (2006.01)**  
[25] EN  
[54] **HEADREST FOR AN IMMOBILIZATION SYSTEM**  
[54] **APPUI-TETE POUR SYSTEME D'IMMOBILISATION**  
[72] WORTMANN, MANUEL, DE  
[72] BEREKET, ANDREAS, DE  
[73] BRAINLAB AG,  
[85] 2018-10-11  
[86] 2018-04-06 (PCT/EP2018/058866)  
[87] (WO2018/192782)  
[30] EP (PCT/EP2017/059420) 2017-04-20

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[11] **3,018,659**  
[13] C

[51] **Int.Cl. B60W 40/02 (2006.01) B60W 30/165 (2012.01)**  
[25] EN  
[54] **COURSE PREDICTION METHOD AND COURSE PREDICTION DEVICE**  
[54] **PROCEDE ET DISPOSITIF D'ESTIMATION DE PARCOURS**  
[72] UEDA, HIROTOSHI, JP  
[73] NISSAN MOTOR CO., LTD.,  
[85] 2018-09-21  
[86] 2016-03-24 (PCT/JP2016/059396)  
[87] (WO2017/163366)

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**Brevets canadiens délivrés  
14 janvier 2020**

[11] **3,019,467**

[13] C

- [51] **Int.Cl. G09B 9/00 (2006.01) A61N 1/39 (2006.01) G01R 29/02 (2006.01)**  
[25] EN  
[54] **DEFIBRILLATING SIMULATOR**  
[54] **SIMULATEUR DE DEFIBRILLATION**  
[72] CARON, FRANCOIS, CA  
[72] FLAMAND, JEAN-SEBASTIEN, CA  
[73] CAE HEALTHCARE CANADA INC.,  
[85] 2018-09-28  
[86] 2017-03-24 (PCT/CA2017/050374)  
[87] (WO2017/165966)  
[30] US (15/085,307) 2016-03-30

[11] **3,020,697**

[13] C

- [51] **Int.Cl. H04M 3/42 (2006.01) H04L 12/18 (2006.01) H04M 3/51 (2006.01) H04M 3/56 (2006.01) H04M 3/58 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR PROVIDING A MULTI-CHANNEL COMMUNICATION SERVICE**  
[54] **SYSTEMES ET METHODES DE FOURNITURE D'UN SERVICE DE COMMUNICATION MULTICANAL**  
[72] NADALIN, ERIC, US  
[72] STRATFORD, NEIL, US  
[72] SELMER, ROLAND, US  
[73] NEXMO, INC.,  
[85] 2018-10-11  
[86] 2017-04-07 (PCT/US2017/026555)  
[87] (WO2017/180463)  
[30] US (62/321,659) 2016-04-12  
[30] US (15/373,904) 2016-12-09

[11] **3,020,995**

[13] C

- [51] **Int.Cl. G06K 9/00 (2006.01)**  
[25] EN  
[54] **IMPROVING OPTICAL CHARACTER RECOGNITION (OCR) ACCURACY BY COMBINING RESULTS ACROSS VIDEO FRAMES**  
[54] **AMELIORATION DE LA PRECISION D'UNE RECONNAISSANCE OPTIQUE DE CARACTERES (OCR) GRACE A LA COMBINAISON DE RESULTATS OBTENUS SUR DES TRAMES VIDEO**  
[72] YELLAPRAGADA, VIJAY, US  
[72] CHIANG, PEIJUN, US  
[72] MADDIKA, SREENEEL K., US  
[73] INTUIT INC.,  
[85] 2018-10-12  
[86] 2017-05-04 (PCT/US2017/030995)  
[87] (WO2018/022166)  
[30] US (15/218,907) 2016-07-25

[11] **3,021,043**

[13] C

- [51] **Int.Cl. G06K 9/00 (2006.01)**  
[25] EN  
[54] **IDENTIFICATION OF DUPLICATE COPIES OF A FORM IN A DOCUMENT**  
[54] **IDENTIFICATION DE COPIES DUPLIQUEES D'UNE FORME DANS UN DOCUMENT**  
[72] YELLAPRAGADA, VIJAY, US  
[72] CHIANG, PEIJUN, US  
[72] MADDIKA, SREENEEL K., US  
[73] INTUIT INC.,  
[85] 2018-10-12  
[86] 2017-05-04 (PCT/US2017/031000)  
[87] (WO2018/022167)  
[30] US (15/221,057) 2016-07-27

[11] **3,022,531**

[13] C

- [51] **Int.Cl. E21B 33/12 (2006.01) E21B 23/06 (2006.01)**  
[25] EN  
[54] **ANNULUS ISOLATION IN DRILLING/MILLING OPERATIONS**  
[54] **ISOLATION D'ANNEAU DANS DES OPERATIONS DE FORAGE/BROYAGE**  
[72] MEEKS, ARTHUR W., US  
[72] GARCIA, MATTHEW D., US  
[72] ODELL, ALBERT, II, US  
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC,  
[85] 2018-10-29  
[86] 2017-06-28 (PCT/US2017/039644)  
[87] (WO2018/013348)  
[30] US (15/208,472) 2016-07-12

[11] **3,023,284**

[13] C

- [51] **Int.Cl. B01D 47/06 (2006.01) B01D 47/10 (2006.01) B01D 53/58 (2006.01) C05C 9/00 (2006.01) C07C 273/16 (2006.01)**  
[25] EN  
[54] **SUBMICRON PARTICLE REMOVAL FROM GAS STREAMS**  
[54] **ELIMINATION DE PARTICULES SUBMICRONIQUES DE FLUX GAZEUX**  
[72] HIGGINS, BRIAN SAYRE, NL  
[72] TATE, JOHN MARSHALL, III, NL  
[72] YATES, ROBERT ARTHUR, NL  
[72] POMERLEAU, MARCEL JULIEN, NL  
[72] HEON, JON MICHAEL, NL  
[72] DIRKX, WILFRIED MARC RENAAT, NL  
[72] COLOMA GONZALEZ, JUAN, NL  
[73] STAMICARBON B.V.,  
[85] 2018-11-05  
[86] 2017-05-09 (PCT/NL2017/050287)  
[87] (WO2017/196167)  
[30] EP (16168796.7) 2016-05-09

**Canadian Patents Issued  
January 14, 2020**

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[11] **3,023,606**  
[13] C

[51] **Int.Cl. E21B 33/12 (2006.01) E21B 17/00 (2006.01) E21B 23/06 (2006.01)**  
[25] EN  
[54] **RETRACTABLE PUMP DOWN RING**  
[54] **BAGUE DE REGLAGE DE POMPE RETRACTABLE**  
[72] DAVIS, KYLE, US  
[72] MERRON, MATTHEW JAMES, US  
[73] HALLIBURTON ENERGY SERVICES, INC.,  
[85] 2018-11-07  
[86] 2016-07-20 (PCT/US2016/043091)  
[87] (WO2018/017073)

---

[11] **3,026,860**  
[13] C

[51] **Int.Cl. F21V 29/70 (2015.01) F21S 4/28 (2016.01) F21V 23/04 (2006.01)**  
[25] EN  
[54] **LIGHTS INTEGRATED COOLING SYSTEM FOR INDOOR GROWING ENVIRONMENT**  
[54] **SYSTEME DE REFROIDISSEMENT INTEGRE DE LAMPES DESTINE A DES ENVIRONNEMENTS DE CULTURE INTERIEURS**  
[72] SMITH, DAMON HENRY, US  
[72] GRAUBERGER, KEVIN, US  
[73] MJNN, LLC,  
[85] 2018-12-06  
[86] 2017-07-17 (PCT/US2017/042322)  
[87] (WO2018/017451)  
[30] US (62/363,538) 2016-07-18

---

[11] **3,030,396**  
[13] C

[51] **Int.Cl. B23B 51/06 (2006.01) B23B 27/10 (2006.01) B23C 5/28 (2006.01) B23Q 11/10 (2006.01)**  
[25] EN  
[54] **CUTTING TOOL**  
[54] **OUTIL DE COUPE**  
[72] AMAYA, KOUICHI, JP  
[72] TANAKA, RYUZO, JP  
[72] KANO, YOSHIAKI, JP  
[72] TAKEZAWA, YASUNORI, JP  
[72] IGARASHI, TETSUYA, JP  
[73] MATSUURA MACHINERY CORPORATION,  
[86] (3030396)  
[87] (3030396)  
[22] 2019-01-17  
[30] JP (2018-008835) 2018-01-23

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[11] **3,032,068**  
[13] C

[51] **Int.Cl. G01C 21/30 (2006.01) G05D 1/00 (2006.01) G08G 1/16 (2006.01)**  
[25] EN  
[54] **SELF-POSITION ESTIMATION METHOD AND SELF-POSITION ESTIMATION DEVICE**  
[54] **PROCEDE D'ESTIMATION DE POSITION AUTOMATIQUE ET APPAREIL D'ESTIMATION DE POSITION AUTOMATIQUE**  
[72] TAKANO, HIROYUKI, JP  
[72] SANO, YASUHIRO, JP  
[72] TSUCHIYA, CHIKAO, JP  
[72] NANRI, TAKUYA, JP  
[73] NISSAN MOTOR CO., LTD.,  
[85] 2019-01-25  
[86] 2016-07-26 (PCT/JP2016/071922)  
[87] (WO2018/020589)

---

[11] **3,033,884**  
[13] C

[51] **Int.Cl. A41D 13/11 (2006.01) A62B 7/10 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR WRAPPING TIES IN A FACEMASK MANUFACTURING PROCESS**  
[54] **METHODE ET SYSTEME D'ENTOURAGE D'ATTACHES DANS UN PROCEDE DE FABRICATION DE MASQUE FACIAL**  
[72] PAMPERIN, MARK T., US  
[72] WEBER, JOSEPH P., US  
[72] SPENCER, ANTHONY S., US  
[72] STEINDORF, ERIC C., US  
[73] O&M HALYARD INTERNATIONAL UNLIMITED COMPANY,  
[85] 2019-02-14  
[86] 2017-08-16 (PCT/US2017/047057)  
[87] (WO2019/035819)

---

[11] **3,038,192**  
[13] C

[51] **Int.Cl. A01G 25/09 (2006.01) B62B 3/00 (2006.01) B65H 75/42 (2006.01) F16M 3/00 (2006.01)**  
[25] EN  
[54] **SELF-PRIMING WATER TURBINE-DRIVEN REEL SPRINKLER IRRIGATION MACHINE**  
[54] **MACHINE D'IRRIGATION PAR GICLEUR A TAMBOUR ENTRAINEE PAR UNE TURBINE A EAU A AUTOAMORCAGE**  
[72] QUI, ZHIPENG, CN  
[72] PENG, TAO, CN  
[72] LIU, PEIYONG, CN  
[72] ZHANG, JINXIANG, CN  
[72] ZHU, ZHENCAI, CN  
[72] JIANG, FAN, CN  
[73] JIANGSU HUAYUAN WATER-SAVING CO.,LTD,  
[73] CHINA UNIVERSITY OF MINING AND TECHNOLOGY,  
[85] 2019-03-27  
[86] 2018-06-25 (PCT/CN2018/092576)  
[87] (3038192)  
[30] CN (201810235831.5) 2018-03-21

---

[11] **3,038,871**  
[13] C

[51] **Int.Cl. B07C 5/02 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR SORTING GEMSTONES**  
[54] **APPAREIL ET PROCEDE DE TRI DE PIERRES SEMI-PRECIEUSES**  
[72] SMITH, JAMES GORDON CHARTERS, GB  
[73] DE BEERS UK LTD,  
[85] 2019-03-29  
[86] 2017-09-28 (PCT/GB2017/052917)  
[87] (WO2018/060717)  
[30] GB (1616683.7) 2016-09-30

**Brevets canadiens délivrés  
14 janvier 2020**

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[11] **3,040,083**  
[13] C

[51] **Int.Cl. G10L 19/02 (2013.01) G10L 25/18 (2013.01) G10L 25/21 (2013.01) H03H 17/02 (2006.01)**

[25] EN

[54] **METHOD FOR REDUCTION OF ALIASING INTRODUCED BY SPECTRAL ENVELOPE ADJUSTMENT IN REAL-VALUED FILTERBANKS**

[54] **PROCEDE PERMETTANT DE REDUIRE LE REPLIEMENT INTRODUIT PAR REGLAGE D'ENVELOPPE SPECTRALE DANS DES BANCS DE FILTRES A VALEURS REELLES**

[72] KJORLING, KRISTOFER, SE  
[72] VILLEMOES, LARS, SE  
[73] DOLBY INTERNATIONAL AB,  
[86] (3040083)  
[87] (3040083)  
[22] 2003-08-27  
[62] 2,924,913  
[30] SE (0202770-4) 2002-09-18

---

[11] **3,040,353**  
[13] C

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 34/10 (2016.01) A61B 90/00 (2016.01) G09B 9/00 (2006.01) G09B 23/28 (2006.01)**

[25] EN

[54] **MEASUREMENT RING FOR A MANNEQUIN AND SIMULATOR INTERACTING THEREWITH**

[54] **ANNEAU DE MESURE POUR UN MANNEQUIN ET SIMULATEUR INTERAGISSANT AVEC CELUI-CI**

[72] AZEVEDO, HUGO, CA  
[73] CAE HEALTHCARE CANADA INC.,  
[85] 2018-09-28  
[86] 2016-03-29 (PCT/CA2016/050360)  
[87] (WO2016/154746)  
[30] US (14/674,060) 2015-03-31

---

[11] **3,041,135**  
[13] C

[51] **Int.Cl. H04N 17/00 (2006.01) H04N 13/327 (2018.01)**

[25] EN

[54] **AUTOMATIC CALIBRATION PROJECTION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE PROJECTION A ETALONNAGE AUTOMATIQUE**

[72] BOUJUT-BURGUN, HUGO, CA  
[72] LABONTE, DANIEL, CA  
[72] ROMPRE, SEBASTIEN, CA  
[73] REALISATIONS INC. MONTREAL,  
[85] 2019-04-18  
[86] 2017-11-20 (PCT/CA2017/051382)  
[87] (WO2018/094513)  
[30] US (62/425,947) 2016-11-23

---

[11] **3,042,392**  
[13] C

[51] **Int.Cl. G01S 17/02 (2006.01) G01S 17/88 (2006.01) G01S 17/89 (2006.01) G01S 17/93 (2006.01)**

[25] EN

[54] **APPARATUS FOR DETECTING SEA MINES**

[54] **APPAREIL DE DETECTION DE MINES MARINES**

[72] ACKER, ANDREW N., US  
[72] MISRA, ANUPAM K., US  
[72] SHARMA, SHIV K., US  
[73] BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC.,  
[85] 2019-04-30  
[86] 2017-10-25 (PCT/US2017/058307)  
[87] (WO2018/140101)  
[30] US (15/340,732) 2016-11-01

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[11] **3,043,121**  
[13] C

[51] **Int.Cl. C08F 2/01 (2006.01) C08F 2/34 (2006.01) C08F 10/02 (2006.01)**

[25] EN

[54] **OLEFIN POLYMERIZATION PROCESS IN A GAS-PHASE REACTOR COMPRISING A RISER UNIT AND A DOWNCOMER**

[54] **PROCEDE DE POLYMERISATION D'OLEFINES DANS UN REACTEUR EN PHASE GAZEUSE COMPRENANT UNE UNITE DE COLONNE MONTANTE ET UN DEVERSOIR**

[72] MEIER, GERHARDUS, DE  
[72] SCHUELLER, ULF, DE  
[72] MEI, GABRIELE, IT  
[72] COVEZZI, MASSIMO, IT  
[72] BAITA, PIETRO, IT  
[72] MARTURANO, LORELLA, IT  
[73] BASELL POLYOLEFINE GMBH,  
[85] 2019-05-07  
[86] 2017-11-09 (PCT/EP2017/078729)  
[87] (WO2018/087214)  
[30] EP (16198262.4) 2016-11-10  
[30] EP (17179386.2) 2017-07-03

---

[11] **3,044,482**  
[13] C

[51] **Int.Cl. H05B 37/00 (2006.01) H02J 7/35 (2006.01) H02M 1/10 (2006.01)**

[25] EN

[54] **LED LIGHTING SYSTEM AND A METHOD THEREFOR**

[54] **SYSTEME D'ECLAIRAGE A DEL ET PROCEDE ASSOCIE**

[72] PAHLEVANI, MAJID (A.K.A. MAJID PAHLEVANINEZHAD), CA  
[72] SCHERWITZ, SAM, CA  
[72] SHEKARI, DAWOOD (A.K.A. DAWOOD SHEKARI BEYRAGH), CA  
[73] 10644137 CANADA INC.,  
[85] 2019-05-21  
[86] 2018-09-20 (PCT/CA2018/051181)  
[87] (WO2019/056113)  
[30] US (62/560,780) 2017-09-20

**Canadian Patents Issued  
January 14, 2020**

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[11] **3,044,555**  
[13] C

[51] **Int.Cl. H02H 7/055 (2006.01) H01F 29/04 (2006.01)**  
[25] EN  
[54] **MONITORING TAP CHANGER SWITCHING**  
[54] **SURVEILLANCE DE COMMUTATION DE CHANGEUR DE PRISE**  
[72] STENESTAM, BENGT-OLOF, SE  
[73] ABB SCHWEIZ AG,  
[85] 2019-05-22  
[86] 2017-10-31 (PCT/EP2017/077873)  
[87] (WO2018/095703)  
[30] EP (16200009.5) 2016-11-22

---

[11] **3,045,097**  
[13] C

[51] **Int.Cl. H04J 3/06 (2006.01) H04L 7/00 (2006.01) H04L 12/26 (2006.01)**  
[25] EN  
[54] **ONE-WAY PACKET DELAY MEASUREMENT**  
[54] **MESURE DE RETARD UNIDIRECTIONNEL DE PAQUET**  
[72] ZIGELBOIM, GABRIEL, IL  
[72] GEVA, ALON, IL  
[72] STEIN, YAAKOV, IL  
[73] RAD DATA COMMUNICATIONS LTD.,  
[85] 2019-05-27  
[86] 2017-11-28 (PCT/IL2017/051295)  
[87] (WO2018/096548)  
[30] US (15/361,517) 2016-11-28

---

[11] **3,045,709**  
[13] C

[51] **Int.Cl. H01F 3/02 (2006.01) H01F 3/10 (2006.01) H01F 27/245 (2006.01) H01F 41/02 (2006.01)**  
[25] EN  
[54] **SEMI-HYBRID TRANSFORMER CORE**  
[54] **NOYAU DE TRANSFORMATEUR SEMI-HYBRIDE**  
[72] PRADHAN, MANOJ, SE  
[73] ABB SCHWEIZ AG,  
[85] 2019-05-31  
[86] 2017-11-17 (PCT/EP2017/079631)  
[87] (WO2018/099737)  
[30] EP (16201865.9) 2016-12-02

---

[11] **3,047,663**  
[13] C

[51] **Int.Cl. B01J 2/04 (2006.01) B22F 9/08 (2006.01)**  
[25] EN  
[54] **PROCESS AND APPARATUS FOR PRODUCING POWDER PARTICLES BY ATOMIZATION OF A FEED MATERIAL IN THE FORM OF AN ELONGATED MEMBER**  
[54] **PROCEDE ET APPAREIL DE PRODUCTION DE PARTICULES DE POUDRE PAR ATOMISATION D'UNE SUBSTANCE DE BASE SOUS LA FORME D'UN ELEMENT ALLONGE**  
[72] BOULOS, MAHER I., CA  
[72] JUREWICZ, JERZY W., CA  
[72] AUGER, ALEXANDRE, CA  
[73] TEKNA PLASMA SYSTEMS INC.,  
[86] (3047663)  
[87] (3047663)  
[22] 2015-03-09  
[62] 2,912,282  
[30] US (61/950,915) 2014-03-11  
[30] US (62/076,150) 2014-11-06

---

[11] **3,050,566**  
[13] C

[51] **Int.Cl. H04M 3/523 (2006.01) H04L 9/32 (2006.01)**  
[25] EN  
[54] **CONTACT CENTRE USER AUTHENTICATION**  
[54] **AUTHENTIFICATION D'UTILISATEUR DE CENTRE DE CONTACT**  
[72] ROSS, CAMERON PETER SUTHERLAND, GB  
[72] HEATH, JAMES, GB  
[72] BURTON, ASHLEY, GB  
[73] ECKOH UK LIMITED,  
[86] (3050566)  
[87] (3050566)  
[22] 2019-07-25  
[30] GB (1812151.7) 2018-07-25

---

[11] **3,053,736**  
[13] C

[51] **Int.Cl. H04L 12/24 (2006.01) G06F 21/10 (2013.01) H04L 9/00 (2006.01)**  
[25] EN  
[54] **METHOD OF AND SYSTEM FOR PROVIDING LIMITED DISTRIBUTION OF A DIGITAL MEDIA FILE**  
[54] **PROCEDE ET SYSTEME PERMETTANT DE FOURNIR UNE DISTRIBUTION LIMITEE D'UN FICHER MULTIMEDIA NUMERIQUE**  
[72] MARION, SIMON-PIERRE, CA  
[73] SCENAREX INC.,  
[85] 2019-08-15  
[86] 2018-02-22 (PCT/IB2018/051119)  
[87] (WO2018/154489)  
[30] CA (2,958,668) 2017-02-23

---

[11] **3,057,610**  
[13] C

[51] **Int.Cl. B60R 19/04 (2006.01) F16F 7/00 (2006.01) F16F 7/12 (2006.01)**  
[25] EN  
[54] **BUMPER BEAM**  
[54] **POUTRE DE PARE-CHOCS**  
[72] KOGA, ATSUO, JP  
[72] NAKAZAWA, YOSHIKI, JP  
[72] HIROSE, SATOSHI, JP  
[73] NIPPON STEEL CORPORATION,  
[85] 2019-09-23  
[86] 2018-03-07 (PCT/JP2018/008856)  
[87] (WO2018/173759)  
[30] JP (2017-057766) 2017-03-23

# Canadian Applications Open to Public Inspection

December 29, 2019 to January 4, 2020

## Demandes canadiennes mises à la disponibilité du public

29 décembre 2019 au 4 janvier 2020

<p>[21] <b>3,010,045</b> [13] A1</p> <p>[51] <b>Int.Cl. E05D 7/00 (2006.01) E06B 3/48 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>HINGE ASSEMBLY FOR FOLDING CLOSURE</b></p> <p>[54] <b>ENSEMBLE CHARNIERE DE FERMETURE PLIABLE</b></p> <p>[72] SVENSON, JULILAN MICHAEL, CA</p> <p>[71] DYNAMIC CLOSURES CORPORATION, CA</p> <p>[22] 2018-07-03</p> <p>[41] 2020-01-03</p>	<p>[21] <b>3,010,151</b> [13] A1</p> <p>[51] <b>Int.Cl. B62B 3/04 (2006.01) B60P 1/00 (2006.01) B62B 5/00 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>INDUSTRIAL CART COMPRISING A MOTHER OR PRIMARY CART AND A SECONDARY OR DAUGHTER CART</b></p> <p>[54] <b>CHARRIOT INDUSTRIEL COMPORTANT UN CHARRIOT MERE OU PRIMAIRE ET UN CHARRIOT FILLE OU SECONDAIRE</b></p> <p>[72] SCARTH, IAN, CA</p> <p>[72] PITCHER, DANNY, CA</p> <p>[72] DAWSON, SHAWN, CA</p> <p>[71] SAILRAIL AUTOMATED SYSTEMS INC., CA</p> <p>[22] 2018-06-29</p> <p>[41] 2019-12-29</p>	<p>[21] <b>3,010,166</b> [13] A1</p> <p>[51] <b>Int.Cl. E02B 15/02 (2006.01) B63B 35/00 (2006.01) B63B 39/08 (2006.01) B63H 25/42 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>A VESSEL AND A METHOD OF MANAGING ICEBERG MOVEMENT THEREWITH</b></p> <p>[54] <b>UN NAVIRE ET UN PROCEDE DE GESTION DU DEPLACEMENT DES ICEBERGS DANS CELUI-CI</b></p> <p>[72] JACOBSEN, PETER KRAGH, DK</p> <p>[72] MORENCY, FRANCOIS-X, DK</p> <p>[72] BRATEN, HANS, DK</p> <p>[72] ANDERSEN, MADDS LYKKE, DK</p> <p>[71] MAERSK SUPPLY SERVICES A/S, DK</p> <p>[22] 2018-07-03</p> <p>[41] 2020-01-03</p>
<p>[21] <b>3,010,061</b> [13] A1</p> <p>[51] <b>Int.Cl. B01F 17/52 (2006.01) A61K 9/107 (2006.01) A61P 17/00 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>AQUEOUS COMPOSITIONS AND ASSOCIATED CREAM FORMULATIONS</b></p> <p>[54] <b>COMPOSITIONS AQUEUSES ET FORMULATIONS DE CREME CONNEXES</b></p> <p>[72] BLAKE, ALEXIA, CA</p> <p>[71] MEDRELEAF CORP., CA</p> <p>[22] 2018-06-29</p> <p>[41] 2019-12-29</p>	<p>[21] <b>3,010,165</b> [13] A1</p> <p>[51] <b>Int.Cl. B65D 25/00 (2006.01) B31B 50/26 (2017.01) B65D 1/02 (2006.01) B65D 25/54 (2006.01) B65D 85/72 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>CONTAINER AND PACKAGING SYSTEM</b></p> <p>[54] <b>RECIPIENT ET SYSTEME D~EMBALLAGE</b></p> <p>[72] THOMPSON, PRESTON FORBES, US</p> <p>[72] BEVIER, ALEX DEAN, US</p> <p>[71] RING CONTAINER TECHNOLOGIES, LLC, US</p> <p>[22] 2018-07-03</p> <p>[41] 2020-01-03</p>	<p>[21] <b>3,010,169</b> [13] A1</p> <p>[51] <b>Int.Cl. E21B 19/16 (2006.01) F16L 1/06 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>PIPE SPINNER AND LIFTER</b></p> <p>[54] <b>DISPOSITIF DE ROTATION ET APPAREIL DE LEVAGE D~UN TUYAU</b></p> <p>[72] TWERDOCLEB, COLIN, CA</p> <p>[72] RISTAU, NATHAN, CA</p> <p>[71] PRECISION FIBERGLASS PIPING INC., CA</p> <p>[22] 2018-07-03</p> <p>[41] 2020-01-03</p>
<p>[21] <b>3,010,149</b> [13] A1</p> <p>[51] <b>Int.Cl. B65F 1/14 (2006.01)</b></p> <p>[25] FR</p> <p>[54] <b>COLLECTION INDICATOR FOR DOMESTIC ROLLING BIN</b></p> <p>[54] <b>INDICATEUR DE COLLECTE POUR BAC ROULANT DOMESTIQUE</b></p> <p>[72] LABRECQUE, DENIS, CA</p> <p>[71] LABRECQUE, DENIS, CA</p> <p>[22] 2018-07-03</p> <p>[41] 2020-01-03</p>		

**Canadian Applications Open to Public Inspection  
December 29, 2019 to January 4, 2020**

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[21] **3,010,170**  
[13] A1

[51] **Int.Cl. A01M 29/30 (2011.01)**  
[25] EN  
[54] **MICE PREVENTION IN TOYOTA COROLLA CARS**  
[54] **PREVENTION DE L~ENTREE DES SOURIS DANS LES VOITURES TOYOTA COROLLA**  
[72] UNKNOWN, XX  
[71] MYERS, EDWARD P., CA  
[71] MYERS, BEVERLEY E., CA  
[22] 2018-07-03  
[41] 2020-01-03

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[21] **3,010,171**  
[13] A1

[51] **Int.Cl. G06F 16/901 (2019.01)**  
[25] EN  
[54] **METHODS FOR ORGANIZING DATA**  
[54] **PROCEDE D~ORGANISATION DE DONNEES**  
[72] GILLIS, ARCHIE, CA  
[71] GILLIS, JOHN ARCHIE, CA  
[22] 2018-07-03  
[41] 2020-01-03

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[21] **3,010,173**  
[13] A1

[51] **Int.Cl. A61M 37/00 (2006.01)**  
[25] EN  
[54] **TATTOO NEEDLE VACUUM INK REMOVING AND CLEANING SYSTEM USED BETWEEN CHANGING OF PIGMENTS**  
[54] **SYSTEME DE RETRAIT D'ENCRE ET DE NETTOYAGE POUR AIGUILLE DE TATOUAGE UTILISE ENTRE LES CHANGEMENTS DE PIGMENTS**  
[72] UNKNOWN, XX  
[71] WILLIAMS, REESE E. S., CA  
[22] 2018-07-03  
[41] 2020-01-03

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[21] **3,010,245**  
[13] A1

[51] **Int.Cl. E21B 17/00 (2006.01) B23G 1/22 (2006.01) C23C 4/08 (2016.01)**  
[25] EN  
[54] **OILFIELD TUBING AND METHODS FOR MAKING OILFIELD TUBING**  
[54] **EXTRACTION D~UN CHAMP DE PETROLE ET PROCEDE DE PRODUCTION D~UNE EXTRACTION D~UN CHAMP DE PETROLE**  
[72] XIE, WEI, CA  
[71] XIE, WEI, CA  
[22] 2018-07-03  
[41] 2020-01-03

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[21] **3,010,246**  
[13] A1

[51] **Int.Cl. A45F 3/16 (2006.01) A47G 19/22 (2006.01) A47G 21/18 (2006.01)**  
[25] EN  
[54] **DRINKING CONTAINER WITH PIVOTING CLOSURE**  
[54] **CONTENANT DE BOISSON AVEC UNE FERMETURE PIVOTANTE**  
[72] HERLING, NICHOLAS, CA  
[72] HEINKE, MARC, CA  
[71] PRECIDIO DESIGN INC., CA  
[22] 2018-07-03  
[41] 2020-01-03

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[21] **3,010,248**  
[13] A1

[51] **Int.Cl. A41D 27/12 (2006.01) A41D 13/04 (2006.01)**  
[25] EN  
[54] **LEG WRAP GARMENT PROTECTOR SYSTEM**  
[54] **SYSTEME DE PROTECTION DE L~ENVELOPPE DU BANDAGE DE PATTE**  
[72] DEZIEL, JOSEPH, CA  
[71] DEZIEL, JOSEPH, CA  
[22] 2018-07-03  
[41] 2019-12-29  
[30] US (16024612) 2018-06-29

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[21] **3,010,261**  
[13] A1

[51] **Int.Cl. H02J 15/00 (2006.01) H02M 7/04 (2006.01)**  
[25] EN  
[54] **A SYSTEM AND METHOD UTILIZING DEFLECTION CONVERSION FOR INCREASING THE ENERGY EFFICIENCY OF A CIRCUIT AND TIME RATE WHILE CHARGING AN ELECTRICAL STORAGE DEVICE, DIFFERENT CIRCUIT CONFIGURATIONS COMPOSING A GROUP TERMED DEFLECTION CONVERTERS, WHERE THIS INVENTION UTILIZES A CURRENT LOOP AND OR FEEDBACK**  
[54] **SYSTEME ET METHODE D'UTILISATION DE CONVERSION DE DEVIATION DESTINES A AUGMENTER L'EFFICACITE ENERGETIQUE D'UN CIRCUIT ET LA PUISSANCE HORAIRE TOUT EN CHARGEANT UN DISPOSITIF DE STOCKAGE ELECTRIQUE, CONFIGURATIONS DE DIFFERENTS CIRCUITS COMPOSANT UN GROUPE DE CONVERTISSEURS DE DEVIATION DESIGNES DANS LESQUELLES CETTE INVENTION UTILISE UNE BOUCLE DE COURANT O**  
[72] MILLER, MITCHELL B., CA  
[71] MILLER, MITCHELL B., CA  
[22] 2018-06-29  
[41] 2019-12-29

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[21] **3,010,276**  
[13] A1

[51] **Int.Cl. B01D 21/28 (2006.01) B01D 21/00 (2006.01) B01D 45/00 (2006.01)**  
[25] EN  
[54] **GT-MAG**  
[54] **GT-MAG**  
[72] AWADALLA, HESHAM, CA  
[71] AWADALLA, HESHAM, CA  
[22] 2018-06-29  
[41] 2019-12-29

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**Demandes canadiennes mises à la disponibilité du public**  
**29 décembre 2019 au 4 janvier 2020**

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[21] **3,010,291**  
[13] A1

[51] **Int.Cl. G01F 23/02 (2006.01)**  
[25] EN  
[54] **MOLDED SIGHT TUBE FOR A FLUID LEVEL VERIFICATION APPARATUS**  
[54] **TUBE DE REGARD MOULE POUR UN APPAREIL DE VERIFICATION DE NIVEAU DE FLUIDE**  
[72] BOLDT, M. CAROLYN, US  
[72] WECH, MICHAEL J., US  
[71] OIL-RITE CORPORATION, US  
[22] 2018-06-29  
[41] 2019-12-29

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[21] **3,010,363**  
[13] A1

[51] **Int.Cl. A23F 5/14 (2006.01) A23F 5/46 (2006.01)**  
[25] EN  
[54] **DRY MIX COFFEE COMPOSITION**  
[54] **COMPOSITION DE CAFE DE MELANGE SEC**  
[72] KENDALL-SINGH, DONNAMARIE J., CA  
[72] GIL, MONICA, CA  
[71] KENDALL-SINGH, DONNAMARIE J., CA  
[71] GIL, MONICA, CA  
[22] 2018-07-04  
[41] 2020-01-04

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[21] **3,010,381**  
[13] A1

[51] **Int.Cl. G09F 9/33 (2006.01) F21K 9/00 (2016.01) H02K 53/00 (2006.01) H05K 9/00 (2006.01)**  
[25] EN  
[54] **MAGNETIC GENERATOR POWERED SIGNAGE**  
[54] **SIGNALISATION MAGNETIQUE ALIMENTEE PAR GENERATEUR**  
[72] GOOSEN-IANNI, AMANDA A., CA  
[71] GOOSEN-IANNI, AMANDA A., CA  
[22] 2018-07-04  
[41] 2020-01-04

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[21] **3,010,392**  
[13] A1

[51] **Int.Cl. G06Q 50/16 (2012.01) H04W 4/021 (2018.01) G08B 21/02 (2006.01) G08B 25/10 (2006.01)**  
[25] EN  
[54] **SOCIAL NETWORK APPLICATION FOR REAL ESTATE**  
[54] **APPLICATION DE RESEAU SOCIAL POUR LES BIENS IMMOBILIERS**  
[72] MORGAN, ROBERT M., SR., US  
[71] QUITCHET, LLC, US  
[22] 2018-07-04  
[41] 2020-01-04

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[21] **3,010,626**  
[13] A1

[51] **Int.Cl. A61M 37/00 (2006.01)**  
[25] EN  
[54] **TATTOO NEEDLE VACUUM INK REMOVING AND CLEANING SYSTEM USED BETWEEN CHANGING OF PIGMENTS**  
[54] **SYSTEME DE RETRAIT D'ENCRE ET DE NETTOYAGE POUR AIGUILLE DE TATOUAGE UTILISE ENTRE LES CHANGEMENTS DE PIGMENTS**  
[72] UNKNOWN, XX  
[71] WILLIAMS, REESE E. S., CA  
[22] 2018-07-03  
[41] 2020-01-03

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[21] **3,012,034**  
[13] A1

[51] **Int.Cl. H02S 10/12 (2014.01) F03D 7/00 (2006.01)**  
[25] EN  
[54] **WIND-SOLAR-GAS COMPLEMENTARY AND COUPLED POWER GENERATION SYSTEM AND METHOD**  
[54] **PROCEDE ET SYSTEME DE PRODUCTION D-ENERGIE COMPLEMENTAIRE ET COUPLE EOLIENNE, SCOLAIRE ET AU GAZ**  
[72] CUI, HUA, CN  
[72] YANG, YUSEN, CN  
[72] XU, BO, CN  
[72] TAN, ZHI, CN  
[72] CHEN, HUI, CN  
[71] HEPU TECHNOLOGY DEVELOPMENT (BEIJING) CO. LTD., CN  
[22] 2018-07-20  
[41] 2020-01-02  
[30] CN (201810712359.X) 2018-07-02

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[21] **3,013,500**  
[13] A1

[51] **Int.Cl. C02F 11/16 (2006.01)**  
[25] EN  
[54] **METHOD AND ARRANGEMENT FOR DEWATERING SLUDGE**  
[54] **PROCEDE POUR LA DISPOSITION ET L-ASSECHEMENT DES BOUES**  
[72] EKSTRAND, STEFAN, SE  
[72] ERIKSSON, JENS, SE  
[71] ELAJO TECHNOLOGY SOLUTIONS AB, SE  
[22] 2018-08-07  
[41] 2020-01-04  
[30] EP (18181726.3) 2018-07-04

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**Canadian Applications Open to Public Inspection  
December 29, 2019 to January 4, 2020**

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[21] **3,015,403**  
[13] A1

[51] **Int.Cl. A01D 41/06 (2006.01) A01D 41/14 (2006.01) A01D 67/00 (2006.01)**

[25] EN

[54] **CROP HEADER WITH WING BALANCE CALIBRATION**

[54] **COLLECTEUR POUR MOISSONNEUSE AVEC CALIBRATION DE L~EQUILIBRE DES AILES**

[72] SHEARER, BRUCE R., CA

[72] GRENIER, ERIC, CA

[72] WILLER, LANCE, CA

[72] TALBOT, FRANCOIS, CA

[71] MACDON INDUSTRIES LTD., CA

[22] 2018-08-27

[41] 2019-12-29

[30] US (62763122) 2018-06-29

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[21] **3,018,684**  
[13] A1

[51] **Int.Cl. B23C 5/02 (2006.01) B23C 5/20 (2006.01)**

[25] EN

[54] **CUTTING INSERT APPLICABLE TO MACHINING TOOLS AND THE TOOL BEARING IT**

[54] **PLAQUETTE DE COUPE APPLICABLE A DES MACHINES D~USINAGE ET L~OUTIL QUI LE PORTE**

[72] FARRARONS MALLEN, GUILLEM, ES

[71] HERRAMIENTAS PREZISS, S.L., ES

[22] 2018-09-26

[41] 2019-12-29

[30] ES (P201830656) 2018-06-29

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[21] **3,025,556**  
[13] A1

[51] **Int.Cl. A01G 9/24 (2006.01) A01G 9/14 (2006.01)**

[25] EN

[54] **IMPROVEMENTS IN AND RELATING TO ENVIRONMENT-CONTROLLED MULTI-SPAN STRUCTURED GREENHOUSE**

[54] **AMA~LIORATIONS RELATIVES AUX SERRES A~ MULTIVOILET CONTRA~LA~ PAR LA~ENVIRONNEMENT**

[72] GUPTA, SAT PARKASH, IN

[71] GUPTA, SAT PARKASH, IN

[22] 2018-11-28

[41] 2020-01-02

[30] IN (201811024549) 2018-07-02

[30] IN (201811042923) 2018-11-15

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[21] **3,029,525**  
[13] A1

[51] **Int.Cl. H05K 5/02 (2006.01) H04L 12/00 (2006.01)**

[25] EN

[54] **NETWORK INTERFACE DEVICES**

[54] **DISPOSITIFS DA~INTERFACE RA~SEAU**

[72] STOUT, CECILIA L., US

[72] LANE, DAVID J., US

[72] BALL, SHIRLEY, US

[72] MILLER, WILLIAM, US

[72] CIGNARALE, JOSEPH, US

[71] AFL TELECOMMUNICATIONS LLC, US

[22] 2019-01-10

[41] 2020-01-03

[30] US (16/026,871) 2018-07-03

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[21] **3,034,417**  
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01) G06Q 10/04 (2012.01) G06N 20/00 (2019.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR GENERATING CUSTOMER DECISION TREE THROUGH MACHINE LEARNING**

[54] **MA~THODE ET SYSTA~ME POUR GA~NA~RER UN ARBRE DA~CISIONNEL PAR LE BIAIS DE LA~APPRENTISSAGE MACHINE**

[72] T, JEISOBERS, IN

[71] TATA CONSULTANCY SERVICES LIMITED, IN

[22] 2019-02-19

[41] 2019-12-29

[30] IN (201821024236) 2018-06-29

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[21] **3,037,592**  
[13] A1

[51] **Int.Cl. G01D 5/12 (2006.01)**

[25] EN

[54] **REDUNDANT POSITION SENSOR**

[54] **CAPTEUR DE POSITION REDONDANT**

[72] ANTRAYGUE, M. CEDRIC, FR

[71] RATIER-FIGEAC SAS, FR

[22] 2019-03-20

[41] 2020-01-04

[30] EP (18305872.6) 2018-07-04

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[21] **3,037,624**  
[13] A1

[51] **Int.Cl. E05F 15/655 (2015.01) B62D 63/08 (2006.01) B65D 88/12 (2006.01)**

[25] EN

[54] **ELECTRIC DOOR OPENER FOR MULTI-DOOR TRAILER**

[54] **PORTIER AUTOMATIQUE POUR REMORQUE A~ PORTES MULTIPLES**

[72] THOUIN, FRANCOIS, CA

[71] REMORQUES CFT INC., CA

[22] 2019-03-22

[41] 2019-12-29

[30] US (62691924) 2018-06-29

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[21] **3,038,587**  
[13] A1

[51] **Int.Cl. B23P 6/00 (2006.01) B23K 26/382 (2014.01) F02C 7/00 (2006.01) F23R 3/00 (2006.01)**

[25] EN

[54] **METHOD FOR REPAIRING A PART**

[54] **PROCA~DA~ DE RA~PARATION DA~UNE PIA~CE**

[72] TURCOTTE, JULIEN, CA

[72] MBARECHE, OMAR, CA

[72] JACQUES, SAMUEL, CA

[72] ROY, BENJAMIN, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2019-04-01

[41] 2019-12-29

[30] US (16/024,065) 2018-06-29

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[21] **3,040,680**  
[13] A1

[51] **Int.Cl. F28F 7/02 (2006.01) B29C 64/10 (2017.01) F28D 21/00 (2006.01) F28F 9/00 (2006.01)**

[25] EN

[54] **ADDITIVELY MANUFACTURED HEAT TRANSFER DEVICE**

[54] **APPAREIL DE TRANSFERT THERMIQUE ISSU DE LA FABRICATION ADDITIVE**

[72] ASTON, RICHARD W., US

[72] HERRMANN, MATTHEW JOSEPH, US

[72] LANGMACK, MICHAEL JOHN, US

[72] HASTINGS, NICOLE M., US

[72] PUROHIT, SUMIT K., US

[71] THE BOEING COMPANY, US

[22] 2019-04-18

[41] 2019-12-29

[30] US (16/024582) 2018-06-29

**Demandes canadiennes mises à la disponibilité du public**  
**29 décembre 2019 au 4 janvier 2020**

[21] **3,042,349**  
[13] A1

[51] **Int.Cl. H01H 3/26 (2006.01) H01H 1/42 (2006.01) H01H 3/40 (2006.01) H02J 7/35 (2006.01) H02J 13/00 (2006.01)**

[25] EN

[54] **IN-LINE MOTORIZED DOUBLE BREAK DISCONNECT SWITCH**

[54] **INTERRUPTEUR GENERAL A RUPTURE DE 2 CONTACTS MOTORISES DISPOSE EN LIGNE**

[72] KOWALIK, PETER M., US

[72] SHYCHUCK, JAMES R., US

[71] CLEAVELAND/PRICE INC., US

[22] 2019-05-06

[41] 2020-01-02

[30] US (62692932) 2018-07-02

[30] US (16271795) 2019-02-09

[21] **3,042,792**  
[13] A1

[51] **Int.Cl. A01C 5/06 (2006.01) A01B 63/24 (2006.01) A01C 7/08 (2006.01) A01C 7/20 (2006.01)**

[25] EN

[54] **DEPTH ADJUSTMENT FEATURES FOR A SEED PLANTING UNIT OF AN AGRICULTURAL IMPLEMENT**

[54] **CARACTERISTIQUES DE REGLAGE DE LA PROFONDEUR DE L~UNITE DE PLANTATION DE GRAINES D~UN OUTIL AGRICOLE**

[72] KOWALCHUK, TREVOR L., CA

[71] CNH INDUSTRIAL CANADA, LTD., CA

[22] 2019-05-09

[41] 2020-01-02

[30] US (16/025,346) 2018-07-02

[21] **3,043,556**  
[13] A1

[51] **Int.Cl. A01B 37/00 (2006.01) A01B 33/16 (2006.01) A01B 35/32 (2006.01)**

[25] EN

[54] **METHOD OF MITIGATING COMPACTION AND A COMPACTION MITIGATION SYSTEM**

[54] **PROCEDE ET SYSTEME D~ATTENUATION DU COMPACTAGE**

[72] MCDONALD, BRANDON M., US

[72] MAYER, JACOB D., US

[72] MUELLER, THOMAS G., US

[72] SMITH, BENJAMIN M., US

[72] JENSEN, RYAN, US

[71] DEERE & COMPANY, US

[22] 2019-05-16

[41] 2019-12-29

[30] US (16/023,699) 2018-06-29

[21] **3,044,153**  
[13] A1

[51] **Int.Cl. E21B 33/138 (2006.01) F24T 10/20 (2018.01) F24T 50/00 (2018.01) C09K 5/00 (2006.01) C09K 8/50 (2006.01) C09K 8/72 (2006.01) E21B 21/00 (2006.01) E21B 43/30 (2006.01) F03G 4/02 (2006.01)**

[25] EN

[54] **METHOD FOR FORMING HIGH EFFICIENCY GEOTHERMAL WELLBORES**

[54] **PROCEDE DE FORMATION DE Puits DE Forage Geothermique A Haute Efficacite**

[72] TOEWS, MATTHEW, CA

[72] CAIRNS, PAUL, CA

[72] ANDREWS, PETER, CA

[72] CURTIS-SMITH, ANDREW, CA

[72] HALE, JONATHAN, CA

[71] EAVOR TECHNOLOGIES INC., CA

[22] 2019-05-23

[41] 2020-01-04

[30] US (62/693950) 2018-07-04

[30] US (62/714674) 2018-08-04

[21] **3,044,236**  
[13] A1

[51] **Int.Cl. B64C 11/50 (2006.01) B64C 11/40 (2006.01) B64D 31/12 (2006.01)**

[25] EN

[54] **PROPELLER BLADE SYNCHROPHASING USING PHONIC WHEEL**

[54] **SYNCHRONISATION PAR PHASE DES PALES D~HELICE A L~AIDE D~UNE ROUE PHONIQUE**

[72] YAKOBOV, ELLA, CA

[72] JARVO, JIM R., CA

[72] TABAR, ROJA, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2019-05-23

[41] 2019-12-29

[30] US (16/024,678) 2018-06-29

[21] **3,044,240**  
[13] A1

[51] **Int.Cl. G01D 5/00 (2006.01) B64C 11/50 (2006.01) B64D 31/12 (2006.01) F02C 7/00 (2006.01) F02K 3/06 (2006.01) G01P 3/00 (2006.01)**

[25] EN

[54] **PHONIC WHEEL WITH OUTPUT VOLTAGE TUNING**

[54] **ROUE PHONIQUE AYANT UN REGLAGE A TENSION DE SORTIE**

[72] YAKOBOV, ELLA, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2019-05-23

[41] 2019-12-29

[30] US (16/023,072) 2018-06-29

[21] **3,044,618**  
[13] A1

[51] **Int.Cl. E02F 3/96 (2006.01) E02F 3/36 (2006.01)**

[25] EN

[54] **QUICK-CHANGE COUPLER DEVICE**

[54] **DISPOSITIF DE COUPLAGE DE CHANGEMENT RAPIDE**

[72] KOLLMANN, MICHAEL, DE

[71] OILQUICK DEUTSCHLAND GMBH, DE

[22] 2019-05-29

[41] 2020-01-02

[30] DE (10 2018 115 949.8) 2018-07-02

[30] EP (18 199 339.5) 2018-10-09

**Canadian Applications Open to Public Inspection  
December 29, 2019 to January 4, 2020**

[21] **3,045,130**  
[13] A1

[51] **Int.Cl. B65D 21/032 (2006.01) A61J 1/03 (2006.01) B65D 6/10 (2006.01) B65D 6/28 (2006.01) B65D 25/02 (2006.01) B65D 43/02 (2006.01) B65D 55/02 (2006.01)**

[25] EN

[54] **CONTAINER WITH SUPPORT SKIRT AND INNER CHAMBER**

[54] **RECIPIENT AVEC UNE JUPE DE SUPPORT ET UNE CHAMBRE INTERIEURE**

[72] BROZELL, LEONARA M., US

[71] MOLD-RITE PLASTICS, LLC, US

[22] 2019-06-03

[41] 2020-01-02

[30] US (62/693,116) 2018-07-02

[30] US (16/295,798) 2019-03-07

[21] **3,045,191**  
[13] A1

[51] **Int.Cl. A01D 47/00 (2006.01) A01D 41/06 (2006.01)**

[25] EN

[54] **SUSPENSION COMPLIANCE TO REDUCE FRAME LOADING**

[54] **CONFORMITE DE LA SUSPENSION POUR REDUIRE LE CHARGEMENT DU CADRE**

[72] YANKE, BRYAN R., US

[72] BOMLENY, DUANE M., US

[72] BRAET, ANDREW J., US

[72] VANDEVEN, MICHAEL L., US

[72] MARVIN, PAUL D., US

[71] DEERE & COMPANY, US

[22] 2019-06-05

[41] 2020-01-02

[30] US (62/693,278) 2018-07-02

[30] US (16/414,573) 2019-05-16

[21] **3,045,274**  
[13] A1

[51] **Int.Cl. D03D 13/00 (2006.01) B60N 2/58 (2006.01) D03D 1/00 (2006.01)**

[25] EN

[54] **WOVEN FABRIC FOR SEATS**

[54] **TISSU TISSE POUR LES SIEGES**

[72] SONG, GUOQIANG, CN

[71] DONGGUAN SHICHANG METALS FACTORY LTD., CN

[22] 2019-06-05

[41] 2019-12-29

[30] CN (201821027080X) 2018-06-29

[30] US (16/046,411) 2018-07-26

[21] **3,045,282**  
[13] A1

[51] **Int.Cl. F24T 50/00 (2018.01) F24T 10/17 (2018.01)**

[25] EN

[54] **GEOHERMAL SYSTEM OPERABLE BETWEEN HEAT RECOVERY AND HEAT STORAGE MODES**

[54] **SYSTEME GEOTHERMIQUE POUVANT FONCTIONNER ENTRE LA RECUPERATION DE CHALEUR ET LES MODES DE STOCKAGE THERMIQUE**

[72] GRAHAM, PETER S. W., CA

[72] SHUNK, BLAIR C., CA

[71] GRAHAM, PETER S. W., CA

[71] SHUNK, BLAIR C., CA

[22] 2019-06-05

[41] 2020-01-04

[30] US (62693939) 2018-07-04

[21] **3,045,511**  
[13] A1

[51] **Int.Cl. B21D 53/88 (2006.01) B64C 1/18 (2006.01) F16S 3/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A CROSSMEMBER FOR A VEHICLE AND A CROSSMEMBER FOR A VEHICLE**

[54] **PROCEDE DE PRODUCTION D-UN ELEMENT TRANSVERSAL POUR UN VEHICULE**

[72] NOEBEL, TORSTEN, DE

[72] EILKEN, WOLFGANG, DE

[72] SCHULZE, WOLFGANG, DE

[72] TIRYAKI, MEMIS, DE

[71] AIRBUS OPERATIONS GMBH, DE

[22] 2019-06-07

[41] 2019-12-29

[30] DE (102018115740.1) 2018-06-29

[21] **3,045,536**  
[13] A1

[51] **Int.Cl. F16L 21/08 (2006.01) F16L 9/12 (2006.01) F16L 21/035 (2006.01) F16L 49/02 (2006.01)**

[25] EN

[54] **HIGH PRESSURE COMPOSITE PIPE JOINING SYSTEM**

[54] **SYSTEME DE JONCTION DU TUYAU COMPOSITE HAUTE PRESSION**

[72] INGLEHART, LAMONT THOMAS, US

[71] VARCO I/P, INC., US

[22] 2019-06-06

[41] 2019-12-29

[30] US (16/023,371) 2018-06-29

[21] **3,045,861**  
[13] A1

[51] **Int.Cl. A45F 5/02 (2006.01) A41D 13/00 (2006.01) A41D 13/015 (2006.01) A41D 13/05 (2006.01) A63B 71/12 (2006.01) F41H 1/02 (2006.01)**

[25] EN

[54] **FLEXIBLE MATERIAL WITH RADIAL MOLLE CUT PATTERN**

[54] **MATERIAU SOUPLE AYANT UN MODELE DE COUPE DE L-EQUIPEMENT MOU RADIAL**

[72] LEMARBE, RANDALL JERED, US

[71] POINT BLANK ENTERPRISES, INC., US

[22] 2019-06-12

[41] 2019-12-29

[30] US (16/023,976) 2018-06-29

**Demandes canadiennes mises à la disponibilité du public**  
**29 décembre 2019 au 4 janvier 2020**

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[21] **3,046,469**  
[13] A1

[51] **Int.Cl. H02S 20/23 (2014.01) E04D 13/18 (2018.01)**  
[25] EN  
[54] **ROOF INTEGRATED PHOTOVOLTAIC SYSTEM WITH IMPROVED SERVICEABILITY**  
[54] **DISPOSITIF PHOTOVOLTAIQUE INTEGRE A LA TOITURE PRESENTANT UNE FONCTIONNALITE AMELIOREE**  
[72] RODRIGUES, TOMMY F., US  
[72] GENNRICH, DAVID J., US  
[72] DZOBA, NAZAR, US  
[72] MASI, LUCAS, US  
[72] BOSS, DANIEL E., US  
[72] RAILKAR, SUDHIR, US  
[71] BUILDING MATERIALS INVESTMENT CORPORATION, US  
[22] 2019-06-13  
[41] 2020-01-03  
[30] US (62/693,770) 2018-07-03  
[30] US (62/793,724) 2018-10-01

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[21] **3,046,513**  
[13] A1

[51] **Int.Cl. B65D 88/16 (2006.01) B65B 7/00 (2006.01) B65D 88/22 (2006.01) B65D 90/00 (2006.01)**  
[25] EN  
[54] **FLEXIBLE INTERMEDIATE BULK CONTAINER WITH COLLECTION SKIRT**  
[54] **RECIPIENT SOUPLE INTERMEDIAIRE A VRAC DOTE D~UNE JUPE DE RETENTION**  
[72] MCATARIAN, PATRICK F., US  
[72] MCATARIAN, MARK, US  
[71] ANDAX INDUSTRIES LLC, US  
[22] 2019-06-13  
[41] 2020-01-03  
[30] US (16/026,984) 2018-07-03

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[21] **3,046,516**  
[13] A1

[51] **Int.Cl. B66C 1/12 (2006.01) B65D 25/10 (2006.01) B65D 30/00 (2006.01) B65D 33/14 (2006.01) B65D 81/00 (2006.01) B65D 85/86 (2006.01) B65D 88/22 (2006.01)**  
[25] EN  
[54] **EQUIPMENT TRANSPORT BAG**  
[54] **SAC DE TRANSPORT DU MATERIEL**  
[72] MCATARIAN, PATRICK F., US  
[72] MCATARIAN, MARK, US  
[71] ANDAX INDUSTRIES LLC, US  
[22] 2019-06-13  
[41] 2020-01-03  
[30] US (16/026,942) 2018-07-03

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[21] **3,046,519**  
[13] A1

[51] **Int.Cl. H04L 12/22 (2006.01) G06F 21/56 (2013.01) H04L 9/14 (2006.01) H04L 9/32 (2006.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR DEFENDING AN INFRASTRUCTURE AGAINST A DISTRIBUTED DENIAL OR SERVICE ATTACK**  
[54] **METHODES ET SYSTEMES POUR DEFENDRE UNE INFRASTRUCTURE CONTRE UNE ATTAQUE PAR DENI DE SERVICE DISTRIBUE**  
[72] MERIOT, SEBASTIEN, FR  
[71] OVH, FR  
[22] 2019-06-14  
[41] 2019-12-30  
[30] EP (18315013.5) 2018-06-30

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[21] **3,046,685**  
[13] A1

[51] **Int.Cl. F04B 53/10 (2006.01) F04B 47/02 (2006.01) F04B 47/12 (2006.01) F16K 1/12 (2006.01) F16K 15/04 (2006.01)**  
[25] EN  
[54] **STREAMLINED VALVE ASSEMBLY FOR DOWNHOLE PUMP OR RECIPROCATING PUMP SYSTEM**  
[54] **ENSEMBLE DE SOUPAPES PROFILEES POUR POMPE DE FOND OU SYSTEME DE POMPE ALTERNATIVE**  
[72] STACHOWIAK, JOHN E., JR., US  
[71] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US  
[22] 2019-06-17  
[41] 2020-01-03  
[30] US (16/026,400) 2018-07-03

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[21] **3,046,771**  
[13] A1

[51] **Int.Cl. H05B 37/02 (2006.01)**  
[25] EN  
[54] **LIGHTING SYSTEM WITH CONFIGURABLE DIMMING**  
[54] **SYSTEME D~ECLAIRAGE DOTE D~UN ASSOMBRISSEMENT CONFIGURABLE**  
[72] CHOWDHURY, TOWFIQ M., US  
[72] CHEN, FENG, US  
[71] ABL IP HOLDING LLC, US  
[22] 2019-06-14  
[41] 2019-12-29  
[30] US (16/022,892) 2018-06-29

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[21] **3,047,003**  
[13] A1

[51] **Int.Cl. E21B 33/08 (2006.01) F04B 47/02 (2006.01) F04B 53/02 (2006.01)**  
[25] EN  
[54] **WIPER RING ASSEMBLY WITH ENERGIZING MEMBER**  
[54] **ENSEMBLE D~ANNEAUX FROTTEURS AYANT UN ELEMENT D~EXCITATION**  
[72] STACHOWIAK, JOHN E., JR., US  
[71] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US  
[22] 2019-06-17  
[41] 2020-01-03  
[30] US (16/026,296) 2018-07-03

**Canadian Applications Open to Public Inspection  
December 29, 2019 to January 4, 2020**

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[21] **3,047,036**  
[13] A1

- [51] **Int.Cl. F25B 47/02 (2006.01) F25B 5/02 (2006.01)**  
[25] EN  
[54] **COOLING SYSTEM**  
[54] **SYSTEME DE REFROIDISSEMENT**  
[72] HOLLISTER, MIKE, US  
[72] ZHA, SHITONG, US  
[71] HEATCRAFT REFRIGERATION PRODUCTS LLC, US  
[22] 2019-06-18  
[41] 2020-01-02  
[30] US (16/024,970) 2018-07-02

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[21] **3,047,252**  
[13] A1

- [51] **Int.Cl. E21B 10/46 (2006.01) E21B 10/56 (2006.01) E21B 29/00 (2006.01)**  
[25] EN  
[54] **FIXED CUTTER COMPLETIONS BIT**  
[54] **TREPAN D~ACHEVEMENT A MOLETTES FIXES**  
[72] HOWARD, JOHNATHAN WALTER, US  
[72] STROEVER, MATTHEW CHARLES, US  
[72] JOHNSON, JEFFERY LEWAYNE, US  
[72] JOHNSON, CHARLES DANIEL, US  
[71] VAREL INTERNATIONAL IND., L.L.C., US  
[22] 2019-06-19  
[41] 2019-12-29  
[30] US (62/692,134) 2018-06-29

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[21] **3,047,465**  
[13] A1

- [51] **Int.Cl. A47K 3/20 (2006.01)**  
[25] EN  
[54] **MULTI-SECTION BATHING STRUCTURES**  
[54] **STRUCTURES DE BAIN A SECTIONS MULTIPLES**  
[72] PRIMUCCI, DOMINIC, CA  
[72] ALLI, RAYMAN, CA  
[71] MIROLIN INDUSTRIES CORP, CA  
[22] 2019-06-20  
[41] 2019-12-29  
[30] US (62/691,847) 2018-06-29  
[30] US (16/426,721) 2019-05-30

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[21] **3,047,571**  
[13] A1

- [51] **Int.Cl. G01N 33/24 (2006.01)**  
[25] FR  
[54] **PROCESS FOR THE QUANTIFICATION OF PYRITE SULPHUR AND ORGANIC SULPHUR FROM A ROCK SAMPLE**  
[54] **PROCEDE POUR LA QUANTIFICATION DU SOUFRE PYRITIQUE ET DU SOUFRE ORGANIQUE D'UN ECHANTILLON DE ROCHE**  
[72] ABOUSSOU, ANABEL, FR  
[72] LAMOUREUX-VAR, VIOLAINE, FR  
[72] PILLOT, DANIEL, FR  
[72] KOWALEWSKI, ISABELLE, FR  
[72] GARCIA, BRUNO, FR  
[72] WAGNER, THOMAS, GB  
[72] MARZ, CHRISTIAN, GB  
[71] IFP ENERGIES NOUVELLES, FR  
[22] 2019-06-20  
[41] 2019-12-29  
[30] FR (18 56 042) 2018-06-29

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[21] **3,047,681**  
[13] A1

- [51] **Int.Cl. G06F 21/57 (2013.01) H04W 12/00 (2009.01) G06F 8/72 (2018.01)**  
[25] EN  
[54] **METHOD FOR DETERMINING A VALIDITY OF AN APPLICATION CODE, CORRESPONDING DEVICE AND COMPUTER PROGRAM PRODUCT**  
[54] **PROCEDE POUR DETERMINER LA VALIDITE D~UN CODE D~APPLICATION, APPAREIL CORRESPONDANT ET PROGRAMME INFORMATIQUE**  
[72] ROLIN, CHRISTIAN, FR  
[72] BERNELAS, MAXIME, FR  
[71] INGENICO GROUP, FR  
[22] 2019-06-20  
[41] 2019-12-29  
[30] FR (1856056) 2018-06-29

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[21] **3,047,682**  
[13] A1

- [51] **Int.Cl. E04B 9/04 (2006.01) E04B 1/86 (2006.01) E04B 9/00 (2006.01)**  
[25] EN  
[54] **HIGH SOUND ATTENUATION BUILDING PANELS**  
[54] **PANNEAUX DE PLAFOND D~ATTENUATION ACOUSTIQUE ELEVEE**  
[72] OLESKE, PETER J., US  
[72] GARMAN, ROBERT C., US  
[72] PETERSON, JACOB D., US  
[72] MEARIG, STEPHEN G., US  
[71] ARMSTRONG WORLD INDUSTRIES, INC., US  
[22] 2019-06-21  
[41] 2020-01-02  
[30] US (62/692,995) 2018-07-02

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[21] **3,047,771**  
[13] A1

- [51] **Int.Cl. B29C 39/10 (2006.01) A42B 3/20 (2006.01) A42C 99/00 (2006.01) A63B 71/10 (2006.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR DESIGN AND PRODUCTION OF CUSTOMIZED WEARABLE EQUIPMENT**  
[54] **PROCEDES ET SYSTEMES DE CONCEPTION ET DE PRODUCTION D~EQUIPEMENT PORTABLE PERSONNALISE**  
[72] BOISSONNEAULT, RAYMOND, CA  
[72] LAPERRIERE, JEAN-FRANCOIS, CA  
[72] DUROCHER, JACQUES, CA  
[72] POITRAS, MATHIEU, CA  
[72] KRICK, THIERRY, CA  
[72] LEMELIN, THOMAS, CA  
[71] BAUER HOCKEY, LTD., CA  
[22] 2019-06-21  
[41] 2019-12-29  
[30] US (62/692,057) 2018-06-29

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[21] **3,047,949**  
[13] A1

- [51] **Int.Cl. G06Q 50/16 (2012.01)**  
[25] EN  
[54] **VALUE MAP GENERATION AND PROCESSING**  
[54] **CREATION ET TRAITEMENT D~UNE CARTE DE VALEUR**  
[72] HEASTON, RICHARD ALAN, US  
[71] REIMAGINE SELLING LLC, US  
[22] 2019-06-26  
[41] 2019-12-29  
[30] US (62/692,305) 2018-06-29

**Demandes canadiennes mises à la disponibilité du public**  
**29 décembre 2019 au 4 janvier 2020**

[21] **3,047,950**  
 [13] A1

[51] **Int.Cl. A01D 41/12 (2006.01) A01D 34/04 (2006.01)**

[25] EN

[54] **A CUTTING UNIT FOR AN AGRICULTURAL WORKING MACHINE AND A METHOD FOR ADJUSTING A CUTTING UNIT**

[54] **UNITE DE COUPE POUR UNE MACHINE DE TRAVAIL AGRICOLE ET METHODE DE REGLAGE D~UNE UNITE DE COUPE**

[72] MADARASI, GERGELY, HU

[72] DENKE, TAMAS, HU

[72] MEGYERI, TAMAS, HU

[72] LORINCZ, GYORY ZOLTAN, HU

[72] FUCHTLING, CHRISTIAN, DE

[72] RIEPING, ANDREAS, DE

[72] PAZSIK, ANDRAS, HU

[71] CLAAS HUNGARIA KFT., HU

[22] 2019-06-26

[41] 2020-01-04

[30] DE (102018116232.4) 2018-07-04

[30] DE (102018116213.8) 2018-07-04

[21] **3,047,951**  
 [13] A1

[51] **Int.Cl. B65D 5/20 (2006.01) B65B 5/02 (2006.01)**

[25] EN

[54] **ONE PIECE CONVERTIBLE PACKAGES AND DISPLAY SYSTEMS**

[54] **EMBALLAGES CONVERTIBLES EN UNE PIECE ET SYSTEMES DE PRESENTOIRS**

[72] SHAFFER, DOUGLAS, US

[71] WESTROCK SHARED SERVICES, LLC, US

[22] 2019-06-26

[41] 2019-12-29

[30] US (62/691931) 2018-06-29

[21] **3,047,954**  
 [13] A1

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/32 (2012.01)**

[25] EN

[54] **METHOD FOR CARRYING OUT A TRANSACTION, CORRESPONDING TERMINAL, SERVER AND COMPUTER PROGRAM**

[54] **METHODE DE REALISATION D~UNE TRANSACTION, TERMINAL CORRESPONDANT, SERVEUR ET LOGICIEL**

[72] QUENTIN, PIERRE, FR

[71] INGENICO GROUP, FR

[22] 2019-06-25

[41] 2019-12-29

[30] FR (1856009) 2018-06-29

[21] **3,047,955**  
 [13] A1

[51] **Int.Cl. B65D 5/52 (2006.01) B65D 5/20 (2006.01) G09F 1/06 (2006.01)**

[25] EN

[54] **ONE PIECE PACKAGING WITH SIDE GRAPHIC PANEL**

[54] **EMBALLAGE EN UNE PIECE ET PANNEAU LATERAL GRAPHIQUE**

[72] SIN, ALEXANDER C., US

[71] WESTROCK SHARED SERVICES, LLC, US

[22] 2019-06-26

[41] 2020-01-02

[30] US (62/692900) 2018-07-02

[21] **3,047,973**  
 [13] A1

[51] **Int.Cl. B65D 1/40 (2006.01) B65D 1/02 (2006.01)**

[25] EN

[54] **SQUARE BOTTLE**

[54] **BOUTEILLE CARREE**

[72] SUGIZAKI, TAKUMI, JP

[72] OGUCHI, HIROKI, JP

[71] YOSHINO KOGYOSHO CO., LTD., JP

[22] 2019-06-25

[41] 2019-12-29

[30] JP (2018-123818) 2018-06-29

[21] **3,047,982**  
 [13] A1

[51] **Int.Cl. A01N 25/02 (2006.01) A01C 15/00 (2006.01) A01C 21/00 (2006.01) A01M 7/00 (2006.01) A01N 25/30 (2006.01) B05B 1/28 (2006.01)**

[25] EN

[54] **DRIFT REDUCTION ADJUVANT COMPOSITIONS AND METHODS OF USING SAME**

[54] **COMPOSITIONS D~ADJUVANTS DE REDUCTION DE LA DERIVE ET METHODES D~UTILISATION**

[72] BISSELL, DANIEL C., US

[72] BROWN, DANNY, US

[71] WINFIELD SOLUTIONS, LLC, US

[22] 2019-06-27

[41] 2019-12-29

[30] US (16/023,790) 2018-06-29

[21] **3,047,990**  
 [13] A1

[51] **Int.Cl. F16C 35/06 (2006.01) F03B 11/06 (2006.01) F16C 33/76 (2006.01)**

[25] EN

[54] **SEALED BEARING MODULE**

[54] **MODULE DE ROULEMENT ETANCHE**

[72] BAUMANN, MICHAEL, DE

[72] HOFMANN, MATTHIAS, DE

[71] AKTIEBOLAGET SKF, SE

[22] 2019-06-27

[41] 2020-01-04

[30] DE (102018211020.4) 2018-07-04

[21] **3,047,994**  
 [13] A1

[51] **Int.Cl. A01D 41/06 (2006.01) A01D 41/14 (2006.01) A01D 47/00 (2006.01) A01D 67/00 (2006.01)**

[25] EN

[54] **CROP HEADER WITH WING BALANCE CALIBRATION**

[54] **COLLECTEUR POUR MOISSONNEUSE AVEC CALIBRATION DE L~EQUILIBRE DES AILES**

[72] SHEARER, BRUCE R., CA

[72] GRENIER, ERIC, CA

[72] WILLER, LANCE, CA

[72] TALBOT, FRANCOIS R., CA

[71] MACDON INDUSTRIES LTD., CA

[22] 2019-06-25

[41] 2019-12-29

[30] US (16113521) 2018-08-27

[30] US (62763122) 2018-06-29

**Canadian Applications Open to Public Inspection  
December 29, 2019 to January 4, 2020**

[21] **3,048,000**  
[13] A1

[51] **Int.Cl. H04W 4/30 (2018.01) G10L 15/25 (2013.01) G06Q 30/00 (2012.01) G10L 15/22 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PRE-COMMUNICATING SHOPPERS' COMMUNICATION PREFERENCES TO RETAILERS**

[54] **SYSTEMES ET METHODES DE COMMUNICATION PREALABLE AUX DETAILLANTS DES PREFERENCES DE COMMUNICATION DES CLIENTS**

[72] AZNAURASHVILI, ZVIAD, US

[72] SHERIF, TIMUR, US

[72] BLANCHET, STEVE, US

[72] JOUHIKAINEN, HANNES, US

[71] CAPITAL ONE SERVICES, LLC, US

[22] 2019-06-27

[41] 2019-12-29

[30] US (16/023623) 2018-06-29

[21] **3,048,007**  
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01) B65G 1/00 (2006.01) B65G 1/18 (2006.01) G05D 1/02 (2006.01)**

[25] EN

[54] **AUTOMATED GUIDED VEHICLE CONTROL AND ORGANIZING INVENTORY ITEMS USING STOCK KEEPING UNIT CLUSTERS**

[54] **COMMANDE AUTOMATISEE DE VEHICULES GUIDES ET ORGANISATION DES ARTICLES EN STOCK AU MOYEN DE GRAPPES D~UNITES DE GESTION DES STOCKS**

[72] SIKKA, SANDEEP, US

[72] VERMA, NITIN, US

[72] BHASKARAN, MICHAEL, US

[71] STAPLES, INC., US

[22] 2019-06-27

[41] 2019-12-30

[30] US (16/024744) 2018-06-30

[21] **3,048,016**  
[13] A1

[51] **Int.Cl. G01N 21/84 (2006.01) C12M 1/34 (2006.01)**

[25] EN

[54] **CELL OBSERVATION APPARATUS**

[54] **APPAREIL D~OBSERVATION DE CELLULES**

[72] KESYOU, TORU, JP

[72] WATANABE, DAISUKE, JP

[72] KONISHI, TOMOHIRO, JP

[71] SHIBUYA CORPORATION, JP

[22] 2019-06-26

[41] 2019-12-29

[30] JP (2018-125387) 2018-06-29

[21] **3,048,036**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/194 (2006.01) A61K 31/4196 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) A61K 9/20 (2006.01)**

[25] EN

[54] **NOVEL CRYSTALLINE FORM OF RIBOCICLIB SUCCINATE**

[54] **NOUVELLE FORME CRISTALLINE DE SUCCINATE DE RIBOCICLIB**

[72] SOUZA, FABIO E.S., CA

[72] KHALILI, BAHAREH, CA

[71] APOTEX INC, CA

[22] 2019-06-26

[41] 2020-01-02

[30] US (62693011) 2018-07-02

[21] **3,048,089**  
[13] A1

[51] **Int.Cl. B01D 53/62 (2006.01)**

[25] EN

[54] **CARBON DIOXIDE REMOVAL FROM STEAM PRODUCT FROM DIRECT CONTACT STEAM GENERATION PROCESS**

[54] **ELIMINATION DU DIOXYDE DE CARBONE D~UN PRODUIT DE VAPEUR OBTENU D~UN PROCEDE DE GENERATION DE VAPEUR EN CONTACT DIRECT**

[72] ASIRI, MOHAMMAD, CA

[72] HERAGE, TED, CA

[72] CLEMENTS, BRUCE, CA

[72] POMALIS, RICHARD, CA

[72] WU, LIJUN, CA

[72] MATTA, JOHNNY, CA

[72] CHEN, STEVEN, CA

[71] HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE MINISTE OF NATURAL RESOURCES, CA

[22] 2019-06-26

[41] 2019-12-29

[30] US (62/691,697) 2018-06-29

[21] **3,048,092**  
[13] A1

[51] **Int.Cl. A01D 34/68 (2006.01)**

[25] EN

[54] **WALK-BEHIND ELECTRIC GARDENING DEVICE**

[54] **APPAREIL DE JARDINAGE ELECTRIQUE A COMMANDE ARRIERE**

[72] CHUNG, KOON FOR, CN

[71] TTI (MACAO COMMERCIAL OFFSHORE) LIMITED, CN

[22] 2019-06-27

[41] 2019-12-29

[30] EP (18180959.1) 2018-06-29

**Demandes canadiennes mises à la disponibilité du public**  
**29 décembre 2019 au 4 janvier 2020**

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[21] **3,048,097**  
[13] A1

[51] **Int.Cl. H04B 17/00 (2015.01) H04W 4/38 (2018.01) B05B 7/00 (2006.01) B05B 12/00 (2018.01) B08B 3/02 (2006.01) B08B 13/00 (2006.01) B25F 5/00 (2006.01) H01M 10/48 (2006.01)**

[25] EN

[54] **BATTERY COMMUNICATION SYSTEM**

[54] **SYSTEME DE COMMUNICATION AVEC UNE PILE**

[72] GILPATRICK, RICHARD J., US

[72] ALEXANDER, CHRIS, US

[71] FNA GROUP, INC., US

[22] 2019-06-27

[41] 2019-12-29

[30] US (16/022,995) 2018-06-29

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[21] **3,048,103**  
[13] A1

[51] **Int.Cl. A61B 5/042 (2006.01) A61B 34/20 (2016.01) A61B 18/14 (2006.01) A61M 25/095 (2006.01)**

[25] EN

[54] **REFERENCE WIRES TO REMOVE NOISE AND ARTIFACTS IN CARDIAC MAPPING CATHETER**

[54] **FILS DE REFERENCE POUR ELIMINER LE BRUIT ET LES ARTEFACTS DANS UN CATHETER D-IMAGERIE CARDIAQUE**

[72] VAN NIEKERK, PIETER E., US

[72] SOLIS, MARIO A., US

[72] FUENTES-ORTEGA, CESAR, US

[72] TOBEY, DUSTIN R., US

[71] BIOSENSE WEBSTER (ISRAEL) LTD., IL

[22] 2019-06-26

[41] 2019-12-29

[30] US (62/691,908) 2018-06-29

[30] US (16/421,533) 2019-05-24

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[21] **3,048,190**  
[13] A1

[51] **Int.Cl. H05K 13/00 (2006.01) G01R 31/26 (2014.01)**

[25] EN

[54] **APPARATUS FOR BURNING IN ELECTRONIC COMPONENTS**

[54] **APPAREIL DE RODAGE DE COMPOSANTS ELECTRONIQUES**

[72] BOUSSADIA, MOHAMED, FR

[71] 3D PLUS, FR

[22] 2019-06-28

[41] 2019-12-29

[30] FR (1855957) 2018-06-29

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[21] **3,048,194**  
[13] A1

[51] **Int.Cl. E04B 9/22 (2006.01) E04F 13/26 (2006.01)**

[25] EN

[54] **CONNECTION CLIP FOR SECURING A PANEL TO A SUPPORT GRID**

[54] **ETRIER DE RACCORD POUR FIXER UN PANNEAU A UNE GRILLE DE SOUTIEN**

[72] CHITSAZ, ALI R., CA

[72] WIESENER, CHRISTOPHER, CA

[71] CERTAINTEED CANADA, INC., CA

[22] 2019-06-28

[41] 2019-12-29

[30] US (62/691,985) 2018-06-29

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[21] **3,048,196**  
[13] A1

[51] **Int.Cl. G06F 11/00 (2006.01) G06F 9/44 (2018.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR FAILURE DETECTION WITH ORCHESTRATION LAYER**

[54] **SYSTEMES ET METHODES POUR LA DETECTION DE DEFAILLANCE DANS UNE COUCHE D-ORCHESTRATION**

[72] DWIVEDI, VIPIN, US

[72] MITTAL, SHILPA, US

[72] PASCAS, RENJITH, US

[71] CAPITAL ONE SERVICES, LLC, US

[22] 2019-06-28

[41] 2020-01-02

[30] US (16/025,410) 2018-07-02

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[21] **3,048,235**  
[13] A1

[51] **Int.Cl. A47L 13/16 (2006.01) A46B 5/00 (2006.01) A47L 1/15 (2006.01) B24D 15/02 (2006.01) B24D 15/04 (2006.01)**

[25] EN

[54] **COATED SCRUBBING DEVICE WITH A PROTECTIVE HANDLE**

[54] **APPAREIL D-EPURATION AVEC POIGNEE PROTECTRICE**

[72] KONKEY, KENNETH J., US

[71] AMERICAN INVENTED PRODUCTS, INC., US

[22] 2019-06-28

[41] 2019-12-29

[30] US (16/023,715) 2018-06-29

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[21] **3,048,239**  
[13] A1

[51] **Int.Cl. E04F 13/22 (2006.01) B21D 53/36 (2006.01) E04F 13/24 (2006.01)**

[25] EN

[54] **COLD FORMED, DUAL SEAL ANCHOR AND METHOD OF MAKING**

[54] **ANCRE FORMEE A FROID A DOUBLE JOINT D-ETANCHEITE ET METHODE DE FABRICATION**

[72] HOHMANN, RONALD P., JR., US

[71] MITEK HOLDINGS, INC., US

[22] 2019-06-28

[41] 2019-12-29

[30] US (62/692406) 2018-06-29

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[21] **3,048,256**  
[13] A1

[51] **Int.Cl. H04L 12/22 (2006.01)**

[25] EN

[54] **NETWORK THREAT INDICATOR EXTRACTION AND RESPONSE**

[54] **EXTRACTION D-UN INDICATEUR DE MENACE AU RESEAU ET REPONSE**

[72] REGO, ISAAC D., US

[72] LOGAN, BRADLEY R., US

[71] THE BOEING COMPANY, US

[22] 2019-07-02

[41] 2020-01-03

[30] US (16/026629) 2018-07-03

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[21] **3,048,257**  
[13] A1

[51] **Int.Cl. B65D 90/02 (2019.01) B62D 63/08 (2006.01)**

[25] EN

[54] **COMPOSITE SIDEWALL AND CARGO BODY HAVING SAME**

[54] **PAROI LATERALE COMPOSITE ET CHASSIS DE CARGAISON L-UTILISANT**

[72] FENTON, GARY L., US

[71] STI HOLDINGS, INC., US

[22] 2019-07-02

[41] 2020-01-03

[30] US (62/693,743) 2018-07-03

**Canadian Applications Open to Public Inspection  
December 29, 2019 to January 4, 2020**

[21] **3,048,259**  
[13] A1

[51] **Int.Cl. G01P 3/64 (2006.01) B64D 31/12 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR CONTROLLING A CROSSING THRESHOLD USED IN DETERMINING ROTATIONAL SPEED OF A PROPELLER**  
[54] **METHODE ET SYSTEME DE CONTROLE D~UN SEUIL DE ROTATION UTILISE POUR DETERMINER LA VITESSE DE ROTATION D~UNE HELICE**  
[72] YAKOBOV, ELLA, CA  
[72] FARRELL, IAN, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2019-06-28  
[41] 2020-01-04  
[30] US (62/693,969) 2018-07-04

[21] **3,048,272**  
[13] A1

[51] **Int.Cl. B03D 1/02 (2006.01) B01D 21/01 (2006.01) B03B 9/02 (2006.01)**  
[25] EN  
[54] **TREATMENT OF RESIDUAL HYDROCARBONS IN FLUID TAILINGS**  
[54] **TRAITEMENT D~HYDROCARBURES RESIDUELS DANS LES RESIDUS FLUIDES**  
[72] HOLLANDER, ELCO, CA  
[72] OMOTOSO, OLADIPO, CA  
[72] BROWN, WAYNE, CA  
[71] SUNCOR ENERGY INC., CA  
[22] 2019-06-28  
[41] 2019-12-29  
[30] US (62/692,042) 2018-06-29

[21] **3,048,279**  
[13] A1

[51] **Int.Cl. A61M 25/10 (2013.01) A61B 18/14 (2006.01) A61L 29/04 (2006.01)**  
[25] EN  
[54] **REINFORCEMENT FOR IRRIGATED ELECTROPHYSIOLOGY BALLOON CATHETER WITH FLEXIBLE-CIRCUIT ELECTRODES**  
[54] **RENFORT D~UN CATHETER D~ELECTROPHYSIOLOGIE A BALLONNET IRRIGUE AYANT DES ELECTRODES A CIRCUIT FLEXIBLE**  
[72] JIMENEZ, JOSE, US  
[72] BANANDO, MICHAEL, US  
[72] PHAM, CUONG, US  
[71] BIOSENSE WEBSTER (ISRAEL) LTD., IL  
[22] 2019-06-28  
[41] 2019-12-29  
[30] US (62/692,439) 2018-06-29  
[30] US (16/432,392) 2019-06-05

[21] **3,048,314**  
[13] A1

[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  
[71] GROUPE ANDERSON INC., CA  
[22] 2019-06-28  
[41] 2019-12-29  
[30] US (62/692.117) 2018-06-29

[21] **3,048,315**  
[13] A1

[51] **Int.Cl. G06T 5/00 (2006.01) G06N 20/00 (2019.01) G06T 1/40 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR IMAGE DATA PROCESSING**  
[54] **SYSTEMES ET METHODES DE TRAITEMENT DE DONNEES D~IMAGES**  
[72] FARIVAR, REZA, US  
[72] TAYLOR, KENNETH, US  
[71] CAPITAL ONE SERVICES, LLC, US  
[22] 2019-07-02  
[41] 2020-01-02  
[30] US (16/025444) 2018-07-02

[21] **3,048,325**  
[13] A1

[51] **Int.Cl. B09B 3/00 (2006.01) F23G 5/02 (2006.01) F23G 5/46 (2006.01) F23G 7/12 (2006.01)**  
[25] EN  
[54] **DEVICE, METHOD, AND CONTROL SYSTEM FOR WASTE TO ENERGY GENERATION AND OTHER OUTPUT PRODUCTS**  
[54] **APPAREIL, METHODE ET SYSTEME DE CONTROLE DES DECHETS POUR PRODUIRE DE L~ENERGIE ET D~AUTRES PRODUITS UTILISABLES**  
[72] WARBIS, KELLY, US  
[72] HUTCHINS, MARK, US  
[72] BLACK, ROLAND, US  
[71] EKAMOR, US  
[22] 2019-06-28  
[41] 2019-12-29  
[30] US (62/692,369) 2018-06-29

**Demandes canadiennes mises à la disponibilité du public  
29 décembre 2019 au 4 janvier 2020**

[21] **3,048,345**  
[13] A1

[51] **Int.Cl. H05B 1/02 (2006.01) A01K 1/015 (2006.01) A47C 21/04 (2006.01) A47G 9/02 (2006.01) H05B 3/36 (2006.01) A61F 7/08 (2006.01)**

[25] EN

[54] **TEMPERATURE REGULATED APPARATUSES AND METHODS OF USING SAME**

[54] **APPAREILS A TEMPERATURE CONTROLEE ET METHODES POUR LES UTILISER**

[72] BROWN, MATTHEW S., US

[71] FUSE, LLC, US

[22] 2019-07-02

[41] 2019-12-30

[30] US (62/692,685) 2018-06-30

[30] US (62/820,597) 2019-03-19

[30] US (16/458,821) 2019-07-01

[21] **3,048,350**  
[13] A1

[51] **Int.Cl. C07D 311/80 (2006.01)**

[25] EN

[54] **CRYSTAL PURIFICATION IN A GLASS OR METAL CONTAINER**

[54] **PURIFICATION DE CRISTAUX DANS UN RECIPIENT EN VERRE OU EN METAL**

[72] BETHERS, PRATT, US

[72] GOODMAN, DAVID, III, US

[71] WEST EDISON CANNABIS CONCENTRATES, US

[22] 2019-07-02

[41] 2020-01-02

[30] US (16/025,899) 2018-07-02

[21] **3,048,356**  
[13] A1

[51] **Int.Cl. G06F 17/27 (2006.01) G06N 20/00 (2019.01)**

[25] EN

[54] **UNSTRUCTURED DATA PARSING FOR STRUCTURED INFORMATION**

[54] **PARSAGE DE DONNEES NON STRUCTUREES EN RENSEIGNEMENTS STRUCTURES**

[72] SORENSEN, KASPER, FR

[71] NEOPOST TECHNOLOGIES, FR

[22] 2019-06-27

[41] 2020-01-01

[30] US (62/692,849) 2018-07-01

[30] US (16/225,268) 2018-12-19

[21] **3,048,361**  
[13] A1

[51] **Int.Cl. C30B 35/00 (2006.01) C30B 33/00 (2006.01)**

[25] EN

[54] **APPARATUS FOR PURIFYING CRYSTALS USING SOLVENT VAPORS**

[54] **APPAREIL DE PURIFICATION DE CRISTAUX AU MOYEN DE VAPEURS DE SOLVANT**

[72] BETHERS, PRATT, US

[72] GOODMAN, DAVID, III, US

[71] WEST EDISON CANNABIS CONCENTRATES, US

[22] 2019-07-02

[41] 2020-01-02

[30] US (16/025,771) 2018-07-02

[21] **3,048,391**  
[13] A1

[51] **Int.Cl. E04F 13/09 (2006.01) E04F 13/21 (2006.01)**

[25] EN

[54] **CEILING SYSTEM**

[54] **SYSTEME DE PLAFOND**

[72] LANGEVELD, MICHEL, NL

[72] FICK, JOHN, NL

[71] HUNTER DOUGLAS INDUSTRIES B.V., NL

[22] 2019-07-02

[41] 2020-01-04

[30] EP (18181740.4) 2018-07-04

[21] **3,048,394**  
[13] A1

[51] **Int.Cl. F03B 3/18 (2006.01) F03B 3/06 (2006.01)**

[25] EN

[54] **POWER GENERATION PLANT WITH KAPLAN, BULB, DIAGONAL FLOW OR PROPELLER TURBINE**

[54] **CENTRALE ELECTRIQUE AYANT UNE TURBINE KAPLAN, UN GROUPE BULBE, UNE TURBINE A ECOULEMENT DIAGONAL OU UNE TURBINE-HELICE**

[72] WURM, ERICH, AT

[72] NENNEMANN, BERND, CA

[71] ANDRITZ HYDRO GMBH, AT

[22] 2019-07-02

[41] 2020-01-03

[30] AT (A50568/2018) 2018-07-03

[21] **3,048,396**  
[13] A1

[51] **Int.Cl. C30B 33/00 (2006.01) B01D 9/00 (2006.01)**

[25] EN

[54] **METHOD FOR PURIFYING CRYSTALS USING SOLVENT VAPORS**

[54] **METHODE DE PURIFICATION DE CRISTAUX AU MOYEN DE VAPEURS DE SOLVANT**

[72] BETHERS, PRATT, US

[72] GOODMAN, DAVID, III, US

[71] WEST EDISON CANNABIS CONCENTRATES, US

[22] 2019-07-02

[41] 2020-01-02

[30] US (16/025,967) 2018-07-02

[21] **3,048,421**  
[13] A1

[51] **Int.Cl. C12Q 1/6809 (2018.01) G16B 20/00 (2019.01) G16B 25/10 (2019.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **METHYLOME BASED ANALYSIS AND TREATMENT FOR MENINGIOMA**

[54] **ANALYSE A BASE DE METHYLE ET TRAITEMENT DU MENINGIOME**

[72] ALDAPE, KEN, US

[72] ZADEH, GELAREH, CA

[72] NASSIRI, FARSHAD, CA

[72] MAIMAITIJIANG, YASHENG, CA

[71] UNIVERSITY HEALTH NETWORK, CA

[22] 2019-07-03

[41] 2020-01-04

[30] US (62/693,928) 2018-07-04

**Canadian Applications Open to Public Inspection  
December 29, 2019 to January 4, 2020**

[21] **3,048,425**  
[13] A1

[51] **Int.Cl. H04L 9/32 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR AN ELECTRONIC IDENTITY BROKERAGE**  
[54] **SYSTEME ET METHODE DE VERIFICATION ELECTRONIQUE DE L~IDENTITE**  
[72] ORTIZ, EDISON U., CA  
[72] POURTABATABAIE, ARYA, CA  
[72] SALTER, MARGARET INEZ, CA  
[71] ROYAL BANK OF CANADA, CA  
[22] 2019-07-03  
[41] 2020-01-03  
[30] US (62/693,680) 2018-07-03  
[30] US (62/702,684) 2018-07-24  
[30] US (62/839,408) 2019-04-26

[21] **3,048,435**  
[13] A1

[51] **Int.Cl. F24D 13/02 (2006.01) B82Y 30/00 (2011.01) B29C 65/00 (2006.01) B29C 70/18 (2006.01) B32B 5/28 (2006.01) B32B 27/04 (2006.01) B62D 25/20 (2006.01) B64C 1/18 (2006.01) E04B 5/48 (2006.01) H05B 3/28 (2006.01)**  
[25] EN  
[54] **HIGH TEMPERATURE THERMOPLASTIC PRE-IMPREGNATED STRUCTURE FOR AIRCRAFT HEATED FLOOR PANEL**  
[54] **STRUCTURE PREIMPREGNEE D~UN THERMOPLASTIQUE HAUTE PERFORMANCE POUR UN PANNEAU DE PLANCHER CHAUFFANT D~AERONEF**  
[72] HU, JIN, US  
[72] CHING, NATHANIEL, US  
[72] ZHAO, WENPING, US  
[72] SLANE, CASEY, US  
[72] BOTURA, GALDEMIR CEZAR, US  
[71] GOODRICH CORPORATION, US  
[22] 2019-07-02  
[41] 2020-01-03  
[30] US (16/026,855) 2018-07-03

[21] **3,048,436**  
[13] A1

[51] **Int.Cl. G06F 16/903 (2019.01) G06N 20/00 (2019.01)**  
[25] EN  
[54] **SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR QUERY CLARIFICATION**  
[54] **SYSTEME, METHODE ET LOGICIEL DE CLARIFICATION D~UNE REQUETE**  
[72] RUDZICZ, FRANK, CA  
[72] BOGER, JENNIFER NETANIS, CA  
[72] CHINAEI, HAMIDREZA, CA  
[72] POLGAR, JANICE ANN, CA  
[72] WAMBUA, MUUO, CA  
[71] UNIVERSITY OF WATERLOO, CA  
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA  
[71] THE UNIVERSITY OF WESTERN ONTARIO, CA  
[71] UNIVERSITY HEALTH NETWORK, CA  
[22] 2019-07-02  
[41] 2020-01-03  
[30] US (62/693,888) 2018-07-03

[21] **3,048,438**  
[13] A1

[51] **Int.Cl. F24D 13/02 (2006.01) B82Y 30/00 (2011.01) B29C 70/18 (2006.01) B32B 27/04 (2006.01) B64C 1/18 (2006.01) E04F 15/02 (2006.01) E04F 15/10 (2006.01) E04F 15/18 (2006.01) H05B 3/14 (2006.01) H05B 3/28 (2006.01)**  
[25] EN  
[54] **IMPACT AND KNIFE CUT RESISTANT PRE-IMPREGNATED WOVEN FABRIC FOR AIRCRAFT HEATED FLOOR PANELS**  
[54] **TISSU PREIMPREGNEE RESISTANT AUX CHOCS ET AUX COUTEAUX A L~UTILISATION DANS DES PANNEAUX DE PLANCHER CHAUFFANT D~AERONEF**  
[72] WAINA, DANIEL, US  
[72] HU, JIN, US  
[72] SLANE, CASEY, US  
[72] CLING, NATHANIEL, US  
[72] BOTURA, GALDEMIR CEZAR, US  
[71] GOODRICH CORPORATION, US  
[22] 2019-07-02  
[41] 2020-01-03  
[30] US (62/693,752) 2018-07-03

[21] **3,048,455**  
[13] A1

[51] **Int.Cl. B65D 6/00 (2006.01) B65D 21/02 (2006.01) B65D 21/08 (2006.01)**  
[25] EN  
[54] **MODULAR CONTAINER HAVING MOLDABLE COMPONENT PARTS**  
[54] **CONTENEUR MODULAIRE AYANT DES PARTIES CONSTITUANTES MOULEES**  
[72] THOMAS, DONALD, US  
[72] HABODASZ, ANTHONY, US  
[71] THOMAS, DONALD, US  
[71] HABODASZ, ANTHONY, US  
[22] 2019-07-03  
[41] 2020-01-03  
[30] US (62/693, 532) 2018-07-03

[21] **3,048,463**  
[13] A1

[51] **Int.Cl. E03F 1/00 (2006.01) B29C 49/00 (2006.01) E02B 13/00 (2006.01) E03B 3/02 (2006.01)**  
[25] EN  
[54] **WATER STORAGE CHAMBER CONNECTION SYSTEM**  
[54] **SYSTEME DE RACCORDEMENT DES CHAMBRES DE STOCKAGE DE L~EAU**  
[72] DITULLIO, ROBERT J., US  
[71] DITULLIO, ROBERT J., US  
[22] 2019-07-02  
[41] 2020-01-03  
[30] US (16/026,851) 2018-07-03

[21] **3,048,466**  
[13] A1

[51] **Int.Cl. H04L 12/24 (2006.01) G06F 8/70 (2018.01) G06F 11/30 (2006.01) H04L 12/26 (2006.01) G06F 16/00 (2019.01)**  
[25] EN  
[54] **PERFORMANCE MONITORING OF SYSTEM VERSION RELEASES**  
[54] **SURVEILLANCE DU RENDEMENT COMPARATIF DES VERSIONS D~UN SYSTEME**  
[72] SAGY, GIORA, US  
[71] SERVICENOW, INC., US  
[22] 2019-07-03  
[41] 2020-01-03  
[30] US (16/026,665) 2018-07-03

**Demandes canadiennes mises à la disponibilité du public**  
**29 décembre 2019 au 4 janvier 2020**

[21] **3,048,472**  
 [13] A1

[51] **Int.Cl. E04F 11/06 (2006.01) B60P 3/36 (2006.01) B60R 3/02 (2006.01) B62D 25/22 (2006.01)**

[25] EN  
 [54] **FOLDING STAIRCASE**  
 [54] **ESCALIER PLIANT**  
 [72] TOMPKINS, GARY E., US  
 [72] GRANZOTTO, ANTHONY J., US  
 [71] MORRYDE INTERNATIONAL, INC., US  
 [22] 2019-07-02  
 [41] 2020-01-03  
 [30] US (16026517) 2018-07-03

[21] **3,048,473**  
 [13] A1

[51] **Int.Cl. A61M 15/00 (2006.01) A24F 47/00 (2006.01) A61M 11/00 (2006.01) A61M 15/06 (2006.01)**

[25] EN  
 [54] **HEATING INHALER AND CONTROLLING METHOD THEREOF**  
 [54] **INHALATEUR CHAUFFE ET METHODE DE CONTROLE**  
 [72] FENG, QIAOFANG, CN  
 [71] SHENZHEN SMOORE TECHNOLOGY LIMITED, CN  
 [22] 2019-07-02  
 [41] 2020-01-04  
 [30] CN (201810723694.X) 2018-07-04

[21] **3,048,506**  
 [13] A1

[51] **Int.Cl. H04L 12/24 (2006.01) G06F 16/27 (2019.01) H04L 9/30 (2006.01)**

[25] EN  
 [54] **MULTI-INSTANCE ARCHITECTURE SUPPORTING TRUSTED BLOCKCHAIN-BASED NETWORK**  
 [54] **ARCHITECTURE MULTI-INSTANCE SOUTENANT UN RESEAU DE CONFIANCE AXE SUR LA CHAINE DE BLOCS**  
 [72] SUBRAMANIAM, SREENEVAS, US  
 [71] SERVICENOW, INC., US  
 [22] 2019-07-03  
 [41] 2020-01-03  
 [30] US (16/026,625) 2018-07-03

[21] **3,048,522**  
 [13] A1

[51] **Int.Cl. G06Q 10/04 (2012.01) G06N 20/00 (2019.01)**

[25] EN  
 [54] **DETERMINING RATE OF RECRUITMENT INFORMATION CONCERNING A CLINICAL TRIAL**  
 [54] **DETERMINATION DES RENSEIGNEMENTS SUR LE TAUX DE RECRUTEMENT D-ESSAIS CLINIQUES**  
 [72] YACOBI, ARI, US  
 [72] SHUSTER, MICHELL, US  
 [71] ACCENTURE GLOBAL SOLUTIONS LIMITED, GB  
 [22] 2019-07-02  
 [41] 2020-01-02  
 [30] US (62/693,343) 2018-07-02  
 [30] US (16/452,754) 2019-06-26

[21] **3,048,539**  
 [13] A1

[51] **Int.Cl. A23B 7/01 (2006.01) A23B 7/02 (2006.01) A23L 3/54 (2006.01) A23N 12/08 (2006.01)**

[25] EN  
 [54] **METHODS OF HEATING CANNABIS PLANT MATERIAL**  
 [54] **METHODE DE CHAUFFAGE D-UN MATERIAU VEGETAL DE CANNABIS**  
 [72] MACALUSO, VIRGIL, US  
 [72] LOWDON, COREY, US  
 [72] CHOU, SHIH-SHIN, US  
 [71] MACALUSO, VIRGIL, US  
 [71] BALE, WILLIAM G., US  
 [71] CATALYTIC INDUSTRIAL GROUP, INC., US  
 [22] 2019-07-02  
 [41] 2020-01-03  
 [30] US (62/693,651) 2018-07-03

[21] **3,048,541**  
 [13] A1

[51] **Int.Cl. G21C 11/02 (2006.01) G21C 1/08 (2006.01)**

[25] EN  
 [54] **A NUCLEAR POWER PLANT**  
 [54] **CENTRALE NUCLEAIRE**  
 [72] BECKETT, STEPHEN J., GB  
 [71] ROLLS-ROYCE PLC, GB  
 [22] 2019-07-03  
 [41] 2020-01-04  
 [30] GB (1810951.2) 2018-07-04

[21] **3,048,562**  
 [13] A1

[51] **Int.Cl. H05B 3/02 (2006.01) B32B 27/04 (2006.01) B64C 1/18 (2006.01) E04F 15/02 (2006.01) F24D 13/02 (2006.01) H05B 3/12 (2006.01)**

[25] EN  
 [54] **HEATED FLOOR PANELS**  
 [54] **PANNEAUX DE PLANCHER CHAUFFANT**  
 [72] HU, JIN, US  
 [72] CHING, NATHANIEL, US  
 [72] SLANE, CASEY, US  
 [72] BOTURA, GALDEMIR CEZAR, US  
 [71] GOODRICH CORPORATION, US  
 [22] 2019-07-03  
 [41] 2020-01-03  
 [30] US (62/693,560) 2018-07-03

[21] **3,048,564**  
 [13] A1

[51] **Int.Cl. F24D 13/02 (2006.01) B82Y 30/00 (2011.01) B29C 70/18 (2006.01) B32B 27/04 (2006.01) B64C 1/18 (2006.01) E04F 15/02 (2006.01) E04F 15/10 (2006.01) E04F 15/18 (2006.01) H05B 3/28 (2006.01)**

[25] EN  
 [54] **HEATED FLOOR PANEL WITH IMPACT LAYER**  
 [54] **PANNEAUX DE PLANCHER CHAUFFANT AVEC COUCHE DE PROTECTION**  
 [72] SLANE, CASEY, US  
 [72] CHING, NATHANIEL, US  
 [72] ZHAO, WENPING, US  
 [72] WAINA, DANIEL, US  
 [72] HU, JIN, US  
 [72] HEIN, BRANDON, US  
 [72] OWENS, GEORGE F., US  
 [72] MULLEN, JAMES A., US  
 [71] GOODRICH CORPORATION, US  
 [22] 2019-07-03  
 [41] 2020-01-03  
 [30] US (16/026,899) 2018-07-03

**Canadian Applications Open to Public Inspection  
December 29, 2019 to January 4, 2020**

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[21] **3,048,567**  
[13] A1

[51] **Int.Cl. H05B 3/28 (2006.01) B32B 7/022 (2019.01) B32B 7/025 (2019.01) B32B 3/08 (2006.01) B32B 27/04 (2006.01) B64C 1/18 (2006.01) E04B 5/48 (2006.01) E04F 15/02 (2006.01) E04F 15/10 (2006.01) E04F 15/18 (2006.01) F24D 13/02 (2006.01) H05B 3/14 (2006.01) H05K 3/12 (2006.01)**

[25] EN

[54] **FUSION WELDED POSITIVE TEMPERATURE COEFFICIENT HEATER ASSEMBLIES**

[54] **ASSEMBLAGES D~ELEMENTS CHAUFFANTS A COEFFICIENT DE TEMPERATURE POSITIF SOUDES PAR FUSION**

[72] ZHAO, WENPING, US  
[72] HU, JIN, US  
[72] CHING, NATHANIEL, US  
[72] OWENS, GEORGE, US  
[72] SLANE, CASEY, US  
[72] HEIN, BRANDON, US  
[72] WAINA, DANIEL, US  
[72] MULLEN, JAMES A., US  
[72] PATTERSON, MELISSA, US  
[72] BOTURA, GALDEMIR CEZAR, US  
[71] GOODRICH CORPORATION, US  
[22] 2019-07-03  
[41] 2020-01-03  
[30] US (62/693,759) 2018-07-03

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[21] **3,048,571**  
[13] A1

[51] **Int.Cl. H05B 3/02 (2006.01) B32B 7/022 (2019.01) B32B 27/04 (2006.01) B64C 1/18 (2006.01) E04F 15/00 (2006.01) E04F 15/02 (2006.01) F24D 13/02 (2006.01) H05B 3/12 (2006.01)**

[25] EN

[54] **ASYMMETRIC SURFACE LAYER FOR FLOOR PANELS**

[54] **REVETEMENT ASYMETRIQUE DE PANNEAUX DE PLANCHER**

[72] SLANE, CASEY, US  
[72] CHING, NATHANIEL, US  
[72] HU, JIN, US  
[72] BOTURA, GALDEMIR CEZAR, US  
[71] GOODRICH CORPORATION, US  
[22] 2019-07-03  
[41] 2020-01-03  
[30] US (16/026,377) 2018-07-03

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[21] **3,058,984**  
[13] A1

[51] **Int.Cl. G06Q 10/10 (2012.01) G06Q 50/00 (2012.01) H04L 12/16 (2006.01) H04W 4/21 (2018.01)**

[25] EN

[54] **METHOD OF A PUBLIC UPCOMING POST CALENDAR AND SCHEDULE PRESENTED BY A SOCIAL NETWORKING SYSTEM**

[54] **MA~THODE DE CRA~ATION DA~~UN CALENDRIER ET DA~~UN HORAIRE PUBLICS DE PUBLICATIONS A~ VENIR PRA~SENTA~ES PAR UN SYSTA~ME DE RA~SEAU SOCIAL**

[72] WALL, ELIZABETH, CA  
[71] WALL, ELIZABETH, CA  
[22] 2019-10-17  
[41] 2019-12-30

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[21] **3,058,989**  
[13] A1

[51] **Int.Cl. G06F 9/44 (2018.01) G06F 16/95 (2019.01)**

[25] EN

[54] **RESOURCE MANAGEMENT FOR OBJECTS WITHIN A WEB APPLICATION**

[54] **GESTION DES RESSOURCES DA~~OBJETS DANS UNE APPLICATION WEB**

[72] TUCKER, CHRISTOPHER, US  
[72] ZHANG, QIAN, US  
[72] GUEZ, YARON, US  
[72] HE, SHA, US  
[71] SERVICENOW, INC., US  
[22] 2019-07-02  
[41] 2020-01-03  
[30] US (16/026,694) 2018-07-03

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[21] **3,059,492**  
[13] A1

[51] **Int.Cl. E06B 1/70 (2006.01)**

[25] EN

[54] **A DOOR SILL ASSEMBLY FOR A DOOR**

[54] **ASSEMBLAGE DE SEUIL DE PORTE**

[72] WANG, KUEI-YUNG, CN  
[71] NAN YA PLASTICS CORPORATION, TW  
[22] 2019-10-21  
[41] 2020-01-02

# PCT Applications Entering the National Phase

## Demands PCT entrant en phase nationale

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[21] **3,021,894**  
[13] A1  
[51] **Int.Cl. B60P 1/28 (2006.01) B60K 13/04 (2006.01)**  
[25] EN  
[54] **DUMP BODY AND DUMP TRUCK**  
[54] **BENNE BASCULANTE ET CAMION A BENNE**  
[72] UTSUMI, MASAHIRO, JP  
[71] KOMATSU LTD., JP  
[85] 2018-10-24  
[86] 2018-07-03 (PCT/JP2018/025246)  
[87] (3021894)

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[21] **3,026,914**  
[13] A1  
[51] **Int.Cl. G01C 21/00 (2006.01)**  
[25] EN  
[54] **VEHICLE NAVIGATION SYSTEM USING POSE ESTIMATION BASED ON POINT CLOUD**  
[54] **SYSTEME DE NAVIGATION DE VEHICULE EMPLOYANT L'ESTIMATION DE POSE FONDEE SUR LE NUAGE DE POINTS**  
[72] YANG, SHENG, CN  
[72] MA, TENG, CN  
[72] NIAN, XING, CN  
[71] BEIJING DIDI INFINITY SCIENCE AND DEVELOPMENT CO., LTD., CN  
[85] 2018-12-10  
[86] 2018-07-02 (PCT/CN2018/094118)  
[87] (3026914)

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[21] **3,034,721**  
[13] A1  
[51] **Int.Cl. H04W 12/08 (2009.01) H04W 4/00 (2018.01)**  
[25] EN  
[54] **MANAGING SERVICES ASSOCIATED WITH URL-BASED TWO-DIMENSIONAL CODES**  
[54] **GESTION DES SERVICES ASSOCIES AUX CODES BIDIMENSIONNELS A BASE D'URL**  
[72] ZHENG, JI, CN  
[72] LU, TIANSHUN, CN  
[72] SUN, XI, CN  
[72] PAN, YONG, CN  
[72] ZHENG, QIAOJIAN, CN  
[72] FENG, JIAQI, CN  
[71] ALIBABA GROUP HOLDING LIMINTED, KY  
[85] 2019-02-22  
[86] 2018-06-29 (PCT/CN2018/093696)  
[87] (3034721)

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[21] **3,038,137**  
[13] A1  
[25] EN  
[54] **BATTERY CHARGER FOR MULTIPLE BATTERY PACKS**  
[54] **CHARGEUR DE BATTERIE DE BLOCS DE BATTERIE MULTIPLES**  
[72] LEE, HEI MAN RAYMOND, CN  
[72] LI, YONG MIN, CN  
[72] ZHUANG, MING JUN, CN  
[71] TTI (MACAO COMMERCIAL OFFSHORE) LIMITED, CN  
[85] 2019-03-27  
[86] 2018-07-04 (PCT/CN2018/094467)  
[87] (3038137)

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[21] **3,062,265**  
[13] A1  
[25] EN  
[54] **PROCESS FOR PREPARING INTERMEDIATE OF ANTIBODY DRUG CONJUGATE**  
[54]  
[72] CHANGJIANG, HUANG, CN  
[72] HUI, YE, CN  
[72] XUEJING, YAO, CN  
[72] HAOHUA, JIE, CN  
[72] SHIZHONG, HAI, CN  
[72] JIANMIN, FANG, CN  
[71] REMEGEN, LTD., CN  
[85] 2019-11-20  
[86] 2019-05-20 (PCT/CN2019/087641)  
[87] (3062265)  
[30] CN (201810487856.4) 2018-05-21

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[21] **3,065,082**  
[13] A1  
[51] **Int.Cl. B01D 53/02 (2006.01) F16L 55/09 (2006.01)**  
[25] EN  
[54] **METHOD FOR CONTROLLING TWO CONTAMINANTS IN A GAS STREAM**  
[54] **PROCEDE DE COMMANDE DE DEUX CONTAMINANTS DANS UN FLUX GAZEUX**  
[72] EDWARDS, PAUL, CA  
[71] VITALAIRE CANADA INC., CA  
[85] 2019-11-25  
[86] 2017-06-02 (PCT/IB2017/053292)  
[87] (WO2017/208212)  
[30] CA (2942226) 2016-09-16  
[30] US (15/171,685) 2016-06-02

## PCT Applications Entering the National Phase

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[21] **3,065,132**  
[13] A1

[51] **Int.Cl. F16B 12/44 (2006.01) A47C 7/00 (2006.01) A47C 23/00 (2006.01) F16B 12/56 (2006.01)**

[25] EN

[54] **BEDDING/SEATING PRODUCT WITH LOCKED CORNERS**

[54] **PRODUIT FORMANT LIT/SIEGE A COINS BLOQUES**

[72] JEWETT, JASON V., US

[72] THOMPSON, SETH A., US

[71] L&P PROPERTY MANAGEMENT COMPANY, US

[85] 2019-11-26

[86] 2018-07-19 (PCT/US2018/042865)

[87] (WO2019/018624)

[30] US (62/535,465) 2017-07-21

[30] US (16/033,665) 2018-07-12

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[21] **3,065,150**  
[13] A1

[51] **Int.Cl. B65D 77/06 (2006.01) B01F 7/18 (2006.01) B67D 1/00 (2006.01)**

[25] EN

[54] **APPARATUS, SYSTEMS AND METHODS FOR DISPENSING DRINKS, FOOD, AND OTHER LIQUIDS**

[54] **APPAREIL, SYSTEMES ET PROCEDES DE DISTRIBUTION DE BOISSONS, D'ALIMENTS ET D'AUTRES LIQUIDES**

[72] SHOWALTER, EDWARD, US

[72] SHOWALTER, EDWARD W., US

[71] SHOWALTER, EDWARD, US

[85] 2019-11-26

[86] 2018-07-24 (PCT/US2018/043569)

[87] (WO2018/218258)

[30] US (15/975,700) 2018-05-09

[30] US (15/607,395) 2017-05-26

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[21] **3,065,250**  
[13] A1

[51] **Int.Cl. C08F 222/06 (2006.01) C08F 8/36 (2006.01) C08G 81/02 (2006.01) C08J 3/075 (2006.01) C08J 3/24 (2006.01) C08K 5/37 (2006.01)**

[25] EN

[54] **NOVEL SYNTHETIC POLYMERS AND CROSSLINKED HYDROGEL SYSTEMS**

[54] **NOUVEAUX POLYMERES SYNTHETIQUES ET SYSTEMES D'HYDROGELS RETICULES**

[72] STEWART, SARAH ALISON, CA

[72] STOVER, HARALD DONALD HELMUT, CA

[72] COULSON, MICHAEL BRADLEY, CA

[71] MCMASTER UNIVERSITY, CA

[85] 2019-11-27

[86] 2018-05-29 (PCT/CA2018/050627)

[87] (WO2018/218346)

[30] US (62/512,236) 2017-05-30

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[21] **3,065,256**  
[13] A1

[51] **Int.Cl. A61L 27/26 (2006.01) A61F 2/24 (2006.01) A61F 2/82 (2013.01) A61L 27/14 (2006.01)**

[25] EN

[54] **PROSTHETIC VALVES HAVING A MODIFIED SURFACE**

[54] **VALVULES PROTHETIQUES A SURFACE MODIFIEE**

[72] HO, JEANNETTE, CA

[72] STEEDMAN, MARK A., CA

[72] SWENOR, JAMIE ROBERT, CA

[71] EVONIK CANADA INC., CA

[85] 2019-11-27

[86] 2018-05-30 (PCT/CA2018/050629)

[87] (WO2018/218348)

[30] US (62/512,227) 2017-05-30

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[21] **3,065,274**  
[13] A1

[51] **Int.Cl. C12N 5/071 (2010.01) A61K 35/36 (2015.01) A61K 35/407 (2015.01) A61L 27/38 (2006.01) A61P 1/16 (2006.01) A61P 1/18 (2006.01) C12N 5/02 (2006.01) C12Q 1/02 (2006.01) C12Q 1/68 (2018.01) G01N 33/48 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR OBTAINING ORGANOIDES**

[54] **COMPOSITIONS ET PROCEDES D'OBTENTION D'ORGANOIDES**

[72] SEGERITZ, CHARIS-PATRICIA, CA

[72] CONDER, RYAN, CA

[72] RIEDEL, MICHAEL, CA

[71] STEMCELL TECHNOLOGIES CANADA INC., CA

[85] 2019-11-27

[86] 2018-05-29 (PCT/CA2018/050625)

[87] (WO2018/218344)

[30] US (62/512,138) 2017-05-29

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[21] **3,065,293**  
[13] A1

[51] **Int.Cl. F04D 1/06 (2006.01) F04D 29/041 (2006.01)**

[25] EN

[54] **MULTI-STAGE PUMP WITH ENHANCED THRUST BALANCING FEATURES**

[54] **POMPE A PLUSIEURS ETAGES COMPRENANT DES CARACTERISTIQUES D'EQUILIBRAGE DE POUSSEE AMELIOREES**

[72] BEHNKE, PAUL WALTER, US

[72] DACH, TIMOTHY MICHAEL, US

[72] PRECIADO, CARLOS, US

[71] ITT MANUFACTURING ENTERPRISES LLC, US

[85] 2019-11-27

[86] 2018-05-10 (PCT/US2018/031944)

[87] (WO2018/209011)

[30] US (62/504,166) 2017-05-10

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## Demandes PCT entrant en phase nationale

[21] **3,065,294**  
[13] A1

[51] **Int.Cl. H02J 3/32 (2006.01) H02J 7/00 (2006.01)**  
[25] EN  
[54] **ENERGY STORAGE SYSTEM WITH STRING BALANCE FUNCTION**  
[54] **SYSTEME D'ACCUMULATION D'ENERGIE A FONCTION D'EQUILIBRAGE DE CHAINE**  
[72] DONG, DONG, US  
[72] SADILEK, TOMAS, US  
[72] ZHOU, ZHI, US  
[72] WIEGMAN, HERMAN LUCAS NORBERT, US  
[71] GENERAL ELECTRIC COMPANY, US  
[85] 2019-11-27  
[86] 2018-05-11 (PCT/US2018/032363)  
[87] (WO2018/222373)  
[30] US (62/513,020) 2017-05-31

[21] **3,065,295**  
[13] A1

[51] **Int.Cl. A61K 38/26 (2006.01) A61K 38/28 (2006.01) A61K 45/06 (2006.01) A61P 13/12 (2006.01)**  
[25] EN  
[54] **DULAGLUTIDE FOR THE TREATMENT OF CHRONIC KIDNEY DISEASE**  
[54] **DULAGLUTIDE POUR LE TRAITEMENT DE MALADIES RENALES CHRONIQUES**  
[72] BOTROS, FADY TALAAT, US  
[72] LAKSHMANAN, MARK CHANDRAKANT, US  
[72] TUTTLE, KATHERINE ROSE, US  
[72] ZIMMERMANN, ALAN GEORGE, US  
[71] ELI LILLY AND COMPANY, US  
[85] 2019-11-27  
[86] 2018-05-24 (PCT/US2018/034278)  
[87] (WO2018/222472)  
[30] US (62/513,556) 2017-06-01

[21] **3,065,296**  
[13] A1

[51] **Int.Cl. G01N 33/24 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR METHANE NUMBER GENERATION**  
[54] **SYSTEMES ET PROCEDES DE GENERATION D'INDICE DE METHANE**  
[72] CLINE, RICHARD L., US  
[71] MUSTANG SAMPLING, LLC, US  
[85] 2019-11-27  
[86] 2018-05-24 (PCT/US2018/034408)  
[87] (WO2019/005356)  
[30] US (62/524,836) 2017-06-26  
[30] US (15/973,877) 2018-05-08

[21] **3,065,298**  
[13] A1

[51] **Int.Cl. A61K 31/445 (2006.01) A61P 13/12 (2006.01)**  
[25] EN  
[54] **METHODS OF TREATING FABRY PATIENTS HAVING RENAL IMPAIRMENT**  
[54] **METHODES DE TRAITEMENT DE PATIENTS ATTEINTS DE LA MALADIE DE FABRY SOUFFRANT D'UNE INSUFFISANCE RENALE**  
[72] CASTELLI, JEFF, US  
[71] AMICUS THERAPEUTICS, INC., US  
[85] 2019-11-27  
[86] 2018-05-30 (PCT/US2018/035032)  
[87] (WO2018/222655)  
[30] US (62/512,458) 2017-05-30  
[30] US (62/626,953) 2018-02-06  
[30] US (15/992,336) 2018-05-30

[21] **3,065,299**  
[13] A1

[51] **Int.Cl. H02J 3/32 (2006.01) H02J 7/35 (2006.01)**  
[25] EN  
[54] **CONTROL SYSTEM AND METHOD FOR AN ENERGY STORAGE SYSTEM**  
[54] **SYSTEME ET PROCEDE DE COMMANDE DESTINES A UN SYSTEME DE STOCKAGE D'ENERGIE**  
[72] AGAMY, MOHAMMED, US  
[72] RUSH, KENNETH MCCLELLAN, US  
[72] TONINI, LUCA, US  
[72] RAMABHADRAN, RAMANUJAM, US  
[72] WIEGMAN, HERMAN LUCAS NORBERT, US  
[72] ELASSER, AHMED, US  
[71] GENERAL ELECTRIC COMPANY, US  
[85] 2019-11-27  
[86] 2018-05-30 (PCT/US2018/035066)  
[87] (WO2018/222672)  
[30] US (62/513,102) 2017-05-31

[21] **3,065,300**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) G01N 33/574 (2006.01)**  
[25] EN  
[54] **METHODS OF TREATING CANCER USING ANTIBODIES AND MOLECULES THAT IMMUNOSPECIFICALLY BIND TO BTN1A1**  
[54] **METHODES DE TRAITEMENT DU CANCER A L'AIDE D'ANTICORPS ET DE MOLECULES SE LIANT DE MANIERE IMMUNOSPECIFIQUE A BTN1A1**  
[72] YOO, STEPHEN SUNGHAN, US  
[72] BONG, YONG-SIK, US  
[72] HAN, KYU, LEE, US  
[72] SURACE, MICHAEL JOSEPH, US  
[71] STCUBE & CO., INC., KR  
[85] 2019-11-27  
[86] 2018-05-30 (PCT/US2018/035082)  
[87] (WO2018/222685)  
[30] US (62/513,393) 2017-05-31

## PCT Applications Entering the National Phase

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[21] **3,065,301**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**  
[25] EN  
[54] **ANTIBODIES AND MOLECULES THAT IMMUNOSPECIFICALLY BIND TO BTN1A1 AND THE THERAPEUTIC USES THEREOF**  
[54] **ANTICORPS ET MOLECULES SELIANT DE MANIERE IMMUNOSPECIFIQUE A BTN1A1 ET LEURS UTILISATIONS THERAPEUTIQUES**  
[72] YOO, STEPHEN SUNGHAN, US  
[72] CHUNG, EZRA MYUNG CHUL, US  
[72] BONG, YONG-SIK, US  
[72] KIM, YONG-SOO, US  
[72] PARK, ANDREW H., US  
[71] STCUBE & CO., INC., KR  
[85] 2019-11-27  
[86] 2018-05-30 (PCT/US2018/035090)  
[87] (WO2018/222689)  
[30] US (62/513,389) 2017-05-31

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[21] **3,065,302**  
[13] A1

[51] **Int.Cl. G08B 21/18 (2006.01) G08B 21/10 (2006.01) H02J 13/00 (2006.01)**  
[25] EN  
[54] **POWER CONNECTOR WITH INTEGRATED STATUS MONITORING**  
[54] **CONNECTEUR D'ALIMENTATION A SURVEILLANCE D'ETAT INTEGREE**  
[72] ABUGHAZALEH, SHADI ALEX, US  
[72] SAMOJEDEN, MATTHEW, US  
[72] PAPAGEORGE, RYAN, US  
[72] SCANZILLO, THOMAS, US  
[72] WILLIAMS, MICHAEL, US  
[71] HUBBELL INCORPORATED, US  
[85] 2019-11-27  
[86] 2018-05-30 (PCT/US2018/035104)  
[87] (WO2018/222695)  
[30] US (62/512,479) 2017-05-30  
[30] US (62/544,097) 2017-08-11

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[21] **3,065,303**  
[13] A1

[51] **Int.Cl. A47G 1/06 (2006.01) A47G 1/16 (2006.01) A47G 1/24 (2006.01) G09F 7/00 (2006.01)**  
[25] EN  
[54] **FRAME APPARATUS**  
[54] **APPAREIL FORMANT CADRE**  
[72] HERNANDEZ, LUIS JAIME, US  
[72] FRAGOSO, MARTIN ZAMORANO, MX  
[72] PYLE, MICHAEL LEE, US  
[72] COYLE, ROBERT TERRY, JR., US  
[72] KRESSIN, MATTHEW SCOTT, US  
[71] MCS INDUSTRIES, INC., US  
[85] 2019-11-27  
[86] 2018-05-30 (PCT/US2018/035122)  
[87] (WO2018/222708)  
[30] US (62/513,752) 2017-06-01

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[21] **3,065,304**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/28 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS COMPRISING AN ANTI-LAG-3 ANTIBODY OR AN ANTI-LAG-3 ANTIBODY AND AN ANTI-PD-1 OR ANTI-PD-L1 ANTIBODY**  
[54] **COMPOSITIONS COMPRENANT UN ANTICORPS ANTI-LAG-3 OU UN ANTICORPS ANTI-LAG-3 ET UN ANTICORPS ANTI-PD-1 OU ANTI-PD-L1**  
[72] BURTON, LORI S., US  
[72] YING, WILLIAM, US  
[72] LONBERG, NILS, US  
[72] CHAKRAVARTHI, SUDHIR, US  
[72] SMITH, PEDRO, US  
[71] BRISTOL-MYERS SQUIBB COMPANY, US  
[85] 2019-11-27  
[86] 2018-05-30 (PCT/US2018/035142)  
[87] (WO2018/222722)  
[30] US (62/512,644) 2017-05-30  
[30] US (62/513,816) 2017-06-01

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[21] **3,065,305**  
[13] A1

[51] **Int.Cl. H01R 13/66 (2006.01) H02J 3/14 (2006.01) H02J 13/00 (2006.01)**  
[25] EN  
[54] **TECHNIQUES FOR CONTROLLING POWER DISTRIBUTION IN FURNITURE**  
[54] **TECHNIQUES DE COMMANDE DE DISTRIBUTION D'ALIMENTATION ELECTRIQUE DANS DES MEUBLES**  
[72] PINEWSKI, THOMAS PETER, US  
[72] HAZZARD, NICHOLAS SIMON, US  
[72] AYMOND, JEFFREY, US  
[72] TISCHER, WILLIAM DALE, US  
[72] JAEGER, JASON CHARLES, US  
[71] ERGOTRON, INC., US  
[85] 2019-11-27  
[86] 2018-05-30 (PCT/US2018/035163)  
[87] (WO2018/222735)  
[30] US (15/609,634) 2017-05-31

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[21] **3,065,306**  
[13] A1

[51] **Int.Cl. G06F 21/56 (2013.01)**  
[25] EN  
[54] **REAL-TIME DETECTION OF AND PROTECTION FROM MALWARE AND STEGANOGRAPHY IN A KERNEL MODE**  
[54] **DETECTION ET PROTECTION EN TEMPS REEL DES LOGICIELS MALVEILLANTS ET DE LA STEGANOGRAPHIE DANS UN MODE NOYAU**  
[72] MACLEOD, STEWART P., US  
[72] PIKE, ROBERT, US  
[71] CYEMPTIVE TECHNOLOGIES, INC., US  
[85] 2019-11-27  
[86] 2018-05-30 (PCT/US2018/035205)  
[87] (WO2018/222766)  
[30] US (62/512,659) 2017-05-30

## Demandes PCT entrant en phase nationale

[21] **3,065,307**  
[13] A1

[51] **Int.Cl. A61J 3/00 (2006.01) A61M 15/00 (2006.01) A61M 15/08 (2006.01) B65D 47/14 (2006.01)**

[25] EN

[54] **PRESCRIPTION BOTTLE CAP CAPABLE OF ADMINISTERING OPIOID OVERDOSE REVERSAL AGENT**

[54] **BOUCHON DE BOUTEILLE DE MEDICAMENT SOUS ORDONNANCE SUSCEPTIBLE D'ADMINISTRER UN AGENT D'INVERSION DE SURDOSE D'OPIOIDE**

[72] MEALING, DONALD ROY, US  
[72] PIZITZ, TODD DAVID, US  
[71] COUNTERACT, LLC, US  
[85] 2019-11-27  
[86] 2018-05-30 (PCT/US2018/035208)  
[87] (WO2018/222769)  
[30] US (62/513,768) 2017-06-01

[21] **3,065,659**  
[13] A1

[51] **Int.Cl. G01N 29/04 (2006.01) G01N 29/22 (2006.01) G01N 29/26 (2006.01) G01N 29/38 (2006.01) G01N 29/44 (2006.01)**

[25] FR

[54] **NON-DESTRUCTIVE INSPECTION FOR TUBULAR PRODUCT WITH COMPLEX SHAPE**

[54] **CONTROLE NON DESTRUCTIF POUR PRODUIT TUBULAIRE A FORME COMPLEXE**

[72] LAZZARI, OLIVIER, FR  
[71] VALLOUREC TUBES FRANCE, FR  
[85] 2019-11-29  
[86] 2018-06-19 (PCT/FR2018/051459)  
[87] (WO2018/234678)  
[30] FR (1755793) 2017-06-23

[21] **3,065,661**  
[13] A1

[51] **Int.Cl. C12N 5/00 (2006.01) C07K 16/00 (2006.01) C12P 21/02 (2006.01)**

[25] EN

[54] **CELL CULTURE METHODS**

[54] **PROCEDES DE CULTURE CELLULAIRE**

[72] BEN YAHIA, BASSEM, BE  
[72] MALPHETTES, LAETITIA, BE  
[72] KOCHANOWSKI, NADINE, BE  
[72] RENNER, GILL, GB  
[72] DURRAN, SANDRINE, GB  
[72] YATES, ANDREW JEFFREY, GB  
[71] UCB BIOPHARMA SPRL, BE  
[85] 2019-11-29  
[86] 2018-05-29 (PCT/EP2018/064102)  
[87] (WO2018/219968)  
[30] GB (1708655.4) 2017-05-31

[21] **3,065,663**  
[13] A1

[51] **Int.Cl. A01H 4/00 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **METHOD FOR AUTOMATED TRANSFORMATION OF A PLANT CELL PACK**

[54] **PROCEDE DE TRANSFORMATION AUTOMATISEE D'UN BLOC DE CELLULES VEGETALES**

[72] GENGEBACH, BENJAMIN, DE  
[72] BUYEL, JOHANNES, DE  
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE  
[85] 2019-11-29  
[86] 2018-06-01 (PCT/EP2018/064477)  
[87] (WO2018/220181)  
[30] EP (17174319.8) 2017-06-02

[21] **3,065,664**  
[13] A1

[51] **Int.Cl. E01C 13/08 (2006.01) B01J 20/16 (2006.01)**

[25] EN

[54] **AN ARTIFICIAL TURF INFILL MATERIAL**

[54] **MATERIAU DE REMPLISSAGE DE GAZON ARTIFICIEL**

[72] PINTAT, BENOIT, FR  
[71] PINTAT, BENOIT, FR  
[85] 2019-11-29  
[86] 2018-05-29 (PCT/EP2018/064116)  
[87] (WO2018/219974)  
[30] EP (17174275.2) 2017-06-02

[21] **3,065,665**  
[13] A1

[51] **Int.Cl. A61H 9/00 (2006.01) A61H 19/00 (2006.01)**

[25] EN

[54] **STIMULATION DEVICE**

[54] **DISPOSITIF DE STIMULATION**

[72] WITT, FLORIAN, DE  
[71] EIS GMBH, DE  
[85] 2019-11-29  
[86] 2018-05-31 (PCT/EP2018/064352)  
[87] (WO2018/220120)  
[30] DE (10 2017 005 213.1) 2017-05-31  
[30] DE (10 2017 112 561.2) 2017-06-07

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[21] **3,065,666**  
[13] A1

[51] **Int.Cl. A61K 33/14 (2006.01) A61F 2/28 (2006.01) A61K 9/20 (2006.01) A61P 19/10 (2006.01)**

[25] EN

[54] **CONTROLLABLE ION RELEASE CALCIUM PARTICLES, METHOD FOR PRODUCING SAME AND USE THEREOF**

[54] **PARTICULES DE CALCIUM A LIBERATION D'IONS CONTROLEE, LEUR PROCEDE DE PRODUCTION, ET UTILISATION ASSOCIEE**

[72] ENGEL LOPEZ, ELISABETH, ES  
[72] CASTANO LINARES, OSCAR, ES  
[72] MARTI MUNOZ, JOAN, ES  
[72] PLANELL ESTANY, JOSEP ANTON, ES  
[71] FUNDACIO INSTITUT DE BIOENGINYERIA DE CATALUNYA (IBEC), ES  
[71] UNIVERSITAT POLITECNICA DE CATALUNYA, ES  
[85] 2019-11-29  
[86] 2018-05-31 (PCT/EP2018/064378)  
[87] (WO2018/220141)  
[30] EP (17382325.3) 2017-06-01

## PCT Applications Entering the National Phase

[21] **3,065,667**  
[13] A1

[51] **Int.Cl. C07D 301/08 (2006.01) C07B 33/00 (2006.01) C07B 41/00 (2006.01)**  
[25] EN  
[54] **A PROCESS FOR OXIDATION OF A LOWER ALKENE AT LOW TEMPERATURES IN AMMONIA-CONTAINING GAS MIXTURES**  
[54] **PROCEDE D'OXYDATION D'UN ALCENE INFERIEUR A BASSES TEMPERATURES DANS DES MELANGES GAZEUX CONTENANT DE L'AMMONIAC**  
[72] JANSSENS, TON V.W., DK  
[72] BEATO, PABLO, DK  
[71] HALDOR TOPSOE A/S, DK  
[85] 2019-11-29  
[86] 2018-06-07 (PCT/EP2018/064958)  
[87] (WO2018/234045)  
[30] DK (PA 2017 00375) 2017-06-23

[21] **3,065,668**  
[13] A1

[51] **Int.Cl. B32B 17/10 (2006.01)**  
[25] EN  
[54] **THERMOPLASTIC FILM FOR A LAMINATED GLASS PANE**  
[54] **FEUILLE THERMOPLASTIQUE EN MATERIAU SYNTHETIQUE POUR UNE PLAQUE DE VERRE COMPOSITE**  
[72] ARNDT, MARTIN, DE  
[72] CAPPUCILLI, MICHELE, DE  
[72] VON AVENARIUS, WOLFGANG, DE  
[72] YEH, LI-YA, DE  
[71] SAINT-GOBAIN GLASS FRANCE, FR  
[85] 2019-11-29  
[86] 2018-07-17 (PCT/EP2018/069372)  
[87] (WO2019/020432)  
[30] EP (17183444.3) 2017-07-27

[21] **3,065,669**  
[13] A1

[51] **Int.Cl. G02F 1/1334 (2006.01) G02F 1/17 (2019.01)**  
[25] EN  
[54] **VEHICLE WINDOW PANE WITH PDLC FILM WITH DEFINED DROPLET SIZE DISTRIBUTION FOR REDUCING THE CORONA EFFECT**  
[54] **VITRE DE VEHICULE DOTE E D'UN FILM PDLC A REPARTITION GRANULOMETRIQUE DE GOUTTELETTES DEFINIE POUR REDUIRE L'EFFET DE COURONNE**  
[72] LABROT, MICHAEL, DE  
[72] MANZ, FLORIAN, DE  
[72] DO ROSARIO, JEFFERSON, DE  
[71] SAINT-GOBAIN GLASS FRANCE, FR  
[85] 2019-11-29  
[86] 2018-06-26 (PCT/EP2018/067069)  
[87] (WO2019/020298)  
[30] EP (17183421.1) 2017-07-27

[21] **3,065,671**  
[13] A1

[51] **Int.Cl. F16L 58/00 (2006.01) F16L 11/08 (2006.01) F16L 11/20 (2006.01)**  
[25] EN  
[54] **PIPE FOR CONTROL AND FORCED CIRCULATION OF CORROSION-INHIBITING FLUIDS IN THE ANNULUS THEREOF**  
[54] **TUYAU DE REGULATION ET DE CIRCULATION FORCEE DE FLUIDES INHIBITEURS DE CORROSION DANS L'ESPACE ANNULAIRE DE CELUI-CI**  
[72] CARPIGIANI DE ALMEIDA, MARCOS, BR  
[72] CAMEIRO CAMPELLO, GOERGE, BR  
[72] RIBEIRO, JONATAS, BR  
[72] MELLO SOBREIRA, RAFAEL GUIMARAES DE, BR  
[72] LOUREIRO JUNIOR, WALTER CARRARA, BR  
[72] PIZA PAES, MARCELO TORRES, BR  
[71] PETROLEO BRASILEIRO S.A. - PETROBRAS, BR  
[85] 2019-11-29  
[86] 2018-05-30 (PCT/GB2018/051462)  
[87] (WO2018/220360)  
[30] BR (10 2017 011386-8) 2017-05-30

[21] **3,065,672**  
[13] A1

[51] **Int.Cl. E21B 17/01 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR FORCED CIRCULATION OF FLUIDS THROUGH THE ANNULUS OF A FLEXIBLE PIPE**  
[54] **SYSTEME ET PROCEDE DE CIRCULATION FORCEE DE FLUIDES A TRAVERS L'ESPACE ANNULAIRE D'UN TUYAU FLEXIBLE**  
[72] CARPIGIANI DE ALMEIDA, MARCO, BR  
[72] CAMEIRO CAMPELLO, GOERGE, BR  
[72] RIBEIRO, JONATAS, BR  
[72] MELLO SOBREIRA, RAFAEL GUIMARAES DE, BR  
[72] LOUREIRO JUNIOR, WALTER CARRARA, BR  
[72] PIZA PAES, MARCELO TORRES, BR  
[71] PETROLEO BRASILEIRO S.A. - PETROBRAS, BR  
[85] 2019-11-29  
[86] 2018-05-30 (PCT/GB2018/051463)  
[87] (WO2018/220361)  
[30] BR (10 2017 011384-1) 2017-05-30

[21] **3,065,673**  
[13] A1

[51] **Int.Cl. G01N 11/00 (2006.01) C12Q 1/6806 (2018.01) A61B 5/00 (2006.01) B01L 3/06 (2006.01) G01N 33/49 (2006.01) G01N 33/52 (2006.01)**  
[25] EN  
[54] **METHOD OF MEASURING VISCOSITY IN A MICROFLUIDIC SYSTEM**  
[54] **PROCEDE DE MESURE DE VISCOSITE DANS UN SYSTEME MICROFLUIDIQUE**  
[72] DAJKOVIC, ALEXANDER, FR  
[71] BIOMILLENIA SAS, FR  
[85] 2019-11-29  
[86] 2018-06-11 (PCT/EP2018/065407)  
[87] (WO2018/229018)  
[30] EP (17175474.0) 2017-06-12

## Demandes PCT entrant en phase nationale

[21] **3,065,674**  
[13] A1

[51] **Int.Cl. C08G 18/67 (2006.01) C08G 18/10 (2006.01) C08G 18/32 (2006.01) C08G 18/76 (2006.01) C08L 75/16 (2006.01)**

[25] EN

[54] **MIXTURE OF RADICALLY CURABLE COMPOUNDS AND USE THEREOF**

[54] **MELANGE DE COMPOSES DURCISSABLES PAR VOIE RADICALAIRE ET LEUR UTILISATION**

[72] NICKERL, GEORG, DE  
[72] BUNZEN, JENS, DE  
[72] GNASS, BEATE, DE  
[72] GAEFKE, GERALD, DE  
[72] BURGEL, THOMAS, DE  
[72] SCHAEFERS, KLAUS, DE  
[71] HILTI AKTIENGESELLSCHAFT, LI  
[85] 2019-11-29  
[86] 2018-06-20 (PCT/EP2018/066439)  
[87] (WO2019/007687)  
[30] EP (17179288.0) 2017-07-03

[21] **3,065,680**  
[13] A1

[51] **Int.Cl. A01G 9/22 (2006.01) A01G 9/14 (2006.01)**

[25] EN

[54] **GREENHOUSE SCREEN**

[54] **ECRAN POUR SERRE**

[72] HOLGERSON, PER, SE  
[72] WIDEN, SARA, SE  
[71] AB LUDVIG SVENSSON, SE  
[85] 2019-11-29  
[86] 2018-07-16 (PCT/EP2018/069235)  
[87] (WO2019/016125)  
[30] SE (1751362-3) 2017-11-02  
[30] SE (1750941-5) 2017-07-17

[21] **3,065,681**  
[13] A1

[51] **Int.Cl. C08K 3/22 (2006.01) C08K 3/013 (2018.01) C08L 61/06 (2006.01)**

[25] EN

[54] **PHENOLIC MOULDING MATERIAL**

[54] **MATERIAU DE MOULAGE PHENOLIQUE**

[72] ALBERTELLI, ALDINO, IE  
[72] ZEDDA, ROBERTO, IE  
[71] ACELL INDUSTRIES LIMITED, IE  
[85] 2019-11-29  
[86] 2018-05-31 (PCT/GB2018/051492)  
[87] (WO2018/220383)  
[30] GB (1708688.5) 2017-05-31

[21] **3,065,682**  
[13] A1

[51] **Int.Cl. C07H 1/02 (2006.01) C07F 9/24 (2006.01) C07H 19/10 (2006.01) C07H 19/20 (2006.01)**

[25] EN

[54] **SYNTHESIS OF SUBSTANTIALLY DIASTEREOMERICALLY PURE PHOSPHATE PROTIDES**

[54] **SYNTHESE DE DERIVES DE PHOSPHATE**

[72] GRIFFITH, HUGH, GB  
[72] KENNOVIN, GORDON, GB  
[72] DAMMALAPATI, VENKATA LAKSHMI NARASIMHA RAO, IN  
[72] KOTALA, MANI BUSHAN, IN  
[71] NUCANA PLC, GB  
[85] 2019-11-29  
[86] 2018-06-14 (PCT/GB2018/051638)  
[87] (WO2018/229493)  
[30] GB (1709471.5) 2017-06-14

[21] **3,065,683**  
[13] A1

[51] **Int.Cl. C07D 417/12 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING OPTICALLY ACTIVE COMPOUND**

[54] **PROCEDE DE PRODUCTION D'UN COMPOSE OPTIQUEMENT ACTIF**

[72] HIRANO, SAYURI, JP  
[72] TAKEDA, YOSHIYUKI, JP  
[72] NAKAMOTO, KOJI, JP  
[72] IKEUCHI, MOTOKI, JP  
[72] KITAYAMA, MASATO, JP  
[72] YAMADA, MASATOSHI, JP  
[72] KAWAKAMI, JUN-ICHI, JP  
[71] MILLENNIUM PHARMACEUTICALS, INC., US  
[85] 2019-11-29  
[86] 2018-05-29 (PCT/IB2018/053822)  
[87] (WO2018/220533)  
[30] JP (2017-106280) 2017-05-30

[21] **3,065,737**  
[13] A1

[51] **Int.Cl. F16L 17/04 (2006.01) F16L 21/02 (2006.01) F16L 21/06 (2006.01) F16L 25/14 (2006.01)**

[25] EN

[54] **PIPE COUPLING COMPRISING A SEAL WITH INTERLOCKING LAYERS FOR RANGE OF PIPE DIAMETERS**

[54] **RACCORD DE TUYAU COMPRENANT UN JOINT D'ETANCHEITE AVEC DES COUCHES A VERROUILLAGE MUTUEL POUR UNE PLAGE DE DIAMETRES DE TUYAU**

[72] CHIPROOT, AVI, IL  
[71] KRAUSZ INDUSTRIES LTD., IL  
[85] 2019-11-29  
[86] 2018-05-30 (PCT/IB2018/053857)  
[87] (WO2018/220556)  
[30] US (15/610,794) 2017-06-01

[21] **3,065,738**  
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01) C12P 21/00 (2006.01)**

[25] EN

[54] **CO-EXPRESSION OF HUMAN CHAPERONE PROTEINS IN PLANTS FOR INCREASED EXPRESSION OF HETEROLOGOUS POLYPEPTIDES**

[54] **CO-EXPRESSION DE PROTEINES CHAPERONS HUMAINES DANS DES PLANTES POUR UNE EXPRESSION ACCRUE DE POLYPEPTIDES HETEROLOGUES**

[72] MEYERS, ANN ELIZABETH, ZA  
[72] RYBICKI, EDWARD PETER, ZA  
[72] MARGOLIN, EMMANUEL AUBREY, ZA  
[71] UNIVERSITY OF CAPE TOWN, ZA  
[85] 2019-11-29  
[86] 2018-06-01 (PCT/IB2018/053944)  
[87] (WO2018/220595)  
[30] GB (1708866.7) 2017-06-02

## PCT Applications Entering the National Phase

[21] **3,065,739**  
[13] A1

[51] **Int.Cl. A24F 47/00 (2006.01) H05B 3/18 (2006.01) H05B 3/28 (2006.01) H05B 3/34 (2006.01)**

[25] EN  
[54] **ELECTRONIC CIGARETTE WICK**  
[54] **MECHE DE CIGARETTE ELECTRONIQUE**

[72] WENSLEY, MARTIN, US  
[71] FONTEM HOLDINGS 1 B.V., NL  
[85] 2019-11-29  
[86] 2018-06-01 (PCT/IB2018/053954)  
[87] (WO2018/220599)  
[30] US (62/514,575) 2017-06-02

[21] **3,065,740**  
[13] A1

[51] **Int.Cl. B66D 1/48 (2006.01) E01H 4/02 (2006.01)**

[25] EN  
[54] **WINCH ASSEMBLY FOR ASSISTING THE MOVEMENT OF A TRACKED VEHICLE AND CONTROL METHOD THEREOF**

[54] **ENSEMBLE TREUIL POUR L'AIDE AU MOUVEMENT D'UN VEHICULE A CHENILLE ET SON PROCEDE DE COMMANDE**

[72] PAOLETTI, ALBERTO, IT  
[71] PRINOTH S.P.A., IT  
[85] 2019-11-29  
[86] 2018-06-08 (PCT/IB2018/054163)  
[87] (WO2018/225031)  
[30] IT (102017000064293) 2017-06-09

[21] **3,065,741**  
[13] A1

[51] **Int.Cl. B01J 29/72 (2006.01) B01D 53/94 (2006.01) B01J 35/10 (2006.01) F01N 3/20 (2006.01)**

[25] EN  
[54] **CATALYTIC WASHCOAT WITH CONTROLLED POROSITY FOR NOX ABATEMENT**

[54] **COUCHE D'IMPREGNATION CATALYTIQUE A POROSITE CONTROLEE POUR REDUCTION DE NOX**

[72] PETROVIC, IVAN, US  
[72] MOHANAN, JAYA L., US  
[72] PETENKO, JOSEPH J., US  
[71] BASF CORPORATION, US  
[85] 2019-11-29  
[86] 2018-06-08 (PCT/IB2018/054171)  
[87] (WO2018/225036)  
[30] US (62/517,243) 2017-06-09

[21] **3,065,742**  
[13] A1

[51] **Int.Cl. B64D 33/00 (2006.01) B32B 3/12 (2006.01) B32B 27/34 (2006.01) B64C 1/00 (2006.01) F02C 7/045 (2006.01)**

[25] EN  
[54] **SOUND-ABSORBING PANEL AND MANUFACTURING METHOD FOR SAME**

[54] **PANNEAU INSONORISANT ET SON PROCEDE DE FABRICATION**

[72] OISHI, TSUTOMU, JP  
[72] HOJO, MASAHIRO, JP  
[72] SHIBAGAKI, SHINGO, JP  
[71] IHI CORPORATION, JP  
[71] JAPAN AEROSPACE EXPLORATION AGENCY, JP  
[71] GIFU PLASTIC INDUSTRY CO., LTD., JP  
[85] 2019-11-29  
[86] 2018-06-05 (PCT/JP2018/021486)  
[87] (WO2018/225706)  
[30] JP (2017-112560) 2017-06-07

[21] **3,065,743**  
[13] A1

[51] **Int.Cl. C08L 23/22 (2006.01) C08F 297/04 (2006.01) C08L 53/02 (2006.01)**

[25] EN  
[54] **BUTADIENE-ISOPRENE DIBLOCK COPOLYMERS AND PROCESS FOR THE PREPARATION THEREOF**

[54] **COPOLYMERES BISEQUENCES DE BUTADIENE-ISOPRENE ET LEUR PROCEDE DE PREPARATION**

[72] SOMMAZZI, ANNA, IT  
[72] RICCI, GIOVANNI, IT  
[72] MASI, FRANCESCO, IT  
[72] LEONE, GIUSEPPE, IT  
[71] VERSALIS S.P.A., IT  
[85] 2019-11-29  
[86] 2018-05-30 (PCT/IB2018/053829)  
[87] (WO2018/220538)  
[30] IT (102017000059763) 2017-05-31

[21] **3,065,744**  
[13] A1

[51] **Int.Cl. A61N 1/05 (2006.01) A61B 5/00 (2006.01) A61N 1/365 (2006.01)**

[25] EN  
[54] **METHODS AND DEVICES FOR SECURING A SENSOR AT THE HEART**

[54] **PROCEDES ET DISPOSITIFS DE FIXATION D'UN CAPTEUR AU NIVEAU DU CŒUR**

[72] FOSSE, ERIK, NO  
[72] TYSSO, JONAS, NO  
[71] CARDIACCS AS, NO  
[85] 2019-11-29  
[86] 2018-06-15 (PCT/IB2018/054432)  
[87] (WO2018/229726)  
[30] GB (1709621.5) 2017-06-16  
[30] US (16/008,830) 2018-06-14

[21] **3,065,745**  
[13] A1

[51] **Int.Cl. G21F 9/06 (2006.01) B01D 59/26 (2006.01) B01J 20/08 (2006.01) B01J 20/10 (2006.01) B01J 20/12 (2006.01) B01J 20/18 (2006.01) B01J 20/28 (2006.01) G21F 9/02 (2006.01)**

[25] EN  
[54] **METHOD AND APPARATUS FOR REDUCING HTO CONCENTRATION IN HTO-CONTAINING AQUEOUS SOLUTION**

[54] **PROCEDE ET DISPOSITIF DE REDUCTION DE LA CONCENTRATION DE HTO DANS UNE SOLUTION AQUEUSE CONTENANT DU HTO**

[72] IHARA, TATSUHIKO, JP  
[72] YAMANISHI, HIROKUNI, JP  
[72] NOMA, HIROSHI, JP  
[72] TAIRA, TOSHIFUMI, JP  
[72] HOSHIYA, TAKASHI, JP  
[72] FUJIMOTO, KAZUYA, JP  
[71] KINKI UNIVERSITY, JP  
[71] A ATOM TECHNOL KINDAI, JP  
[71] TOYO ALUMINIUM KABUSHIKI KAISHA, JP  
[85] 2019-11-29  
[86] 2018-05-29 (PCT/JP2018/020607)  
[87] (WO2018/221531)  
[30] JP (2017-105189) 2017-05-29

## Demandes PCT entrant en phase nationale

[21] **3,065,746**  
[13] A1

[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/1495 (2006.01)**

[25] EN

[54] **SYSTEMS, DEVICES, AND METHODS RELATED TO THE INDIVIDUALIZED CALIBRATION AND/OR MANUFACTURING OF MEDICAL DEVICES**

[54] **SYSTEMES, DISPOSITIFS ET PROCEDES SE RAPPORTANT A L'ETALONNAGE ET/OU LA FABRICATION INDIVIDUALISEES DE DISPOSITIFS MEDICAUX**

[72] SCOTT, STEVEN, US

[72] BENNELL, CHRISTOPHER J., GB

[72] BHOGAL, CLAIRE, GB

[72] CRANFIELD, KATIE A., GB

[72] TAUB, MARC B., GB

[72] WINTER, BREE M., GB

[72] REYNOLDS, OWEN D., GB

[72] BABKA, JEAN-PIERRE, US

[72] PATEL, DHARMENDRA S., GB

[72] THOMAS, CHRISTOPHER A., GB

[72] HOSS, UDO, US

[72] YAHNKE, MARK S., US

[72] KAHN, TAHIR S., US

[71] ABBOTT DIABETES CARE INC., US

[85] 2019-11-29

[86] 2018-08-17 (PCT/IB2018/056223)

[87] (WO2019/035073)

[30] US (62/547,635) 2017-08-18

[21] **3,065,747**  
[13] A1

[51] **Int.Cl. A61K 8/73 (2006.01) A61Q 19/00 (2006.01)**

[25] EN

[54] **MOISTURIZING TOPICAL PREPARATION**

[54] **PREPARATION TOPIQUE HYDRATANTE**

[72] ISHIKAWA, KOTARO, JP

[72] KASHIWAMURA, TAKURO, JP

[72] KATO, TAKUYA, JP

[72] KOGA, TORU, JP

[72] ISHIKAWA, SUGURU, JP

[71] OJI HOLDINGS CORPORATION, JP

[85] 2019-11-29

[86] 2018-05-30 (PCT/JP2018/020644)

[87] (WO2018/221547)

[30] JP (2017-108001) 2017-05-31

[30] JP (2017-175133) 2017-09-12

[30] JP (2017-244051) 2017-12-20

[21] **3,065,748**  
[13] A1

[51] **Int.Cl. B01D 71/64 (2006.01) B01D 53/22 (2006.01) B01D 63/10 (2006.01) B01D 69/10 (2006.01) B01D 69/12 (2006.01)**

[25] EN

[54] **GAS SEPARATION MEMBRANE, GAS SEPARATION MEMBRANE ELEMENT, GAS SEPARATOR, AND GAS SEPARATION METHOD**

[54] **MEMBRANE DE SEPARATION DE GAZ, ELEMENT DE MEMBRANE DE SEPARATION DE GAZ, APPAREIL DE SEPARATION DE GAZ ET PROCEDE DE SEPARATION DE GAZ**

[72] TAKAHASHI, RINA, JP

[72] SATO, KAZUKI, JP

[72] KOIWA, MASAKAZU, JP

[72] SASAKI, TAKAO, JP

[71] TORAY INDUSTRIES, INC., JP

[85] 2019-11-29

[86] 2018-05-31 (PCT/JP2018/021067)

[87] (WO2018/221684)

[30] JP (2017-108948) 2017-06-01

[21] **3,065,749**  
[13] A1

[51] **Int.Cl. G02B 27/00 (2006.01) B32B 17/00 (2006.01)**

[25] EN

[54] **LAMINATED GLAZING WITH EMBEDDED DATA TRANSPONDER**

[54] **VITRAGE FEUILLETEE A TRANSPONDEUR DE DONNEES INTEGRE**

[72] THANGAMANI, ARUNVEL, IN

[72] RICHARDSON D, SAMSON, IN

[72] TAMALAPAKULA, JYOTHI LATHA, IN

[72] N, KASINATH, IN

[72] JAYARAM, ROBIN C, IN

[71] SAINT-GOBAIN GLASS FRANCE, FR

[85] 2019-11-29

[86] 2018-06-08 (PCT/IN2018/050379)

[87] (WO2018/225095)

[30] IN (201741020258) 2017-06-09

[21] **3,065,750**  
[13] A1

[51] **Int.Cl. B24B 31/00 (2006.01) B24B 31/12 (2006.01) B24C 1/04 (2006.01) B24C 3/32 (2006.01) B24C 11/00 (2006.01) B60G 21/055 (2006.01)**

[25] EN

[54] **HOLLOW SPRING AND MANUFACTURING METHOD THEREOF**

[54] **RESSORT CREUX ET SON PROCEDE DE FABRICATION**

[72] SAYAMA, HIRONOBU, JP

[71] MITSUBISHI STEEL MFG. CO., LTD., JP

[85] 2019-11-29

[86] 2018-06-28 (PCT/JP2018/024664)

[87] (WO2019/004375)

[30] JP (PCT/JP2018/000511) 2018-01-11

[30] JP (2017-126781) 2017-06-28

[21] **3,065,751**  
[13] A1

[51] **Int.Cl. C07D 213/70 (2006.01) A01N 43/40 (2006.01) A01P 7/00 (2006.01) A01P 7/04 (2006.01) A61K 31/443 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/497 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61P 33/00 (2006.01) C07D 213/71 (2006.01) C07D 239/54 (2006.01) C07D 239/56 (2006.01) C07D 401/04 (2006.01) C07D 417/06 (2006.01) C07F 5/04 (2006.01)**

[25] EN

[54] **HETEROCYCLIC COMPOUND AND COMPOSITION CONTAINING SAME**

[54] **COMPOSE HETEROCYCLIQUE ET COMPOSITION LE CONTENANT**

[72] TANAKA, AYAKA, JP

[72] SUGIMOTO, NAOYA, JP

[72] TSURUDA, TAKESHI, JP

[71] SUMITOMO CHEMICAL COMPANY, LIMITED, JP

[85] 2019-11-29

[86] 2018-06-01 (PCT/JP2018/021157)

[87] (WO2018/221720)

[30] JP (2017-245956) 2017-12-22

[30] JP (2018-070879) 2018-04-02

[30] JP (2017-108998) 2017-06-01

## PCT Applications Entering the National Phase

[21] **3,065,752**  
[13] A1

[51] **Int.Cl. B01J 23/887 (2006.01) B01J 35/08 (2006.01) B01J 35/10 (2006.01) C07C 45/35 (2006.01) C07C 47/22 (2006.01) C07C 51/25 (2006.01) C07C 57/05 (2006.01) C07B 61/00 (2006.01)**

[25] EN  
[54] **CATALYST**  
[54] **CATALYSEUR**  
[72] ITO, MITSUNOBU, JP  
[72] ITO, HIROTO, JP  
[71] MITSUBISHI CHEMICAL CORPORATION, JP  
[85] 2019-11-29  
[86] 2019-03-22 (PCT/JP2019/012001)  
[87] (WO2019/182089)  
[30] JP (2018-055537) 2018-03-23

[21] **3,065,753**  
[13] A1

[51] **Int.Cl. G09B 9/12 (2006.01) G09B 9/14 (2006.01)**

[25] EN  
[54] **DEVICE FOR MAKING THE ELECTRICAL MOVEMENTS OF MOVING PLATFORMS FOR SIMULATORS SAFER**  
[54] **DISPOSITIF DE SECURISATION DES MOUVEMENTS ELECTRIQUES DE PLATEFORMES MOBILES POUR SIMULATEURS**  
[72] LE GUILLOU, RENE, FR  
[72] BONNET, MAXIME, FR  
[71] THALES, FR  
[85] 2019-11-29  
[86] 2018-05-28 (PCT/EP2018/063928)  
[87] (WO2018/219864)  
[30] FR (1700585) 2017-06-01

[21] **3,065,754**  
[13] A1

[51] **Int.Cl. H05B 37/02 (2006.01) H02M 7/02 (2006.01)**

[25] EN  
[54] **MULTI-PHASE POWER SUPPLIES FOR LIGHT FIXTURES**  
[54] **ALIMENTATIONS ELECTRIQUES POLYPHASEES DESTINEES A DES APPAREILS D'ECLAIRAGE**  
[72] ZHANG, HUI, US  
[71] EATON INTELLIGENT POWER LIMITED, IE  
[85] 2019-11-29  
[86] 2017-06-01 (PCT/US2017/035438)  
[87] (WO2018/222196)

[21] **3,065,755**  
[13] A1

[51] **Int.Cl. C09C 1/00 (2006.01) C09D 11/322 (2014.01)**

[25] EN  
[54] **OPTICAL EFFECT PIGMENT**  
[54] **PIGMENT A EFFET OPTIQUE**  
[72] RUIZ QUEVEDO, ANDRES, ES  
[71] SICPA HOLDING SA, CH  
[85] 2019-11-29  
[86] 2018-06-21 (PCT/ES2018/070437)  
[87] (WO2019/002645)  
[30] EP (17382410.3) 2017-06-28

[21] **3,065,756**  
[13] A1

[51] **Int.Cl. H04N 19/583 (2014.01) H04N 19/103 (2014.01) H04N 19/176 (2014.01)**

[25] EN  
[54] **METHOD AND DEVICE FOR VIDEO SIGNAL PROCESSING**  
[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT DE SIGNAL VIDEO**  
[72] LEE, BAE KEUN, KR  
[71] KT CORPORATION, KR  
[85] 2019-11-29  
[86] 2018-08-27 (PCT/KR2018/009867)  
[87] (WO2019/045391)  
[30] KR (10-2017-0109638) 2017-08-29

[21] **3,065,757**  
[13] A1

[51] **Int.Cl. F21S 10/04 (2006.01) F21S 6/00 (2006.01) F21S 9/00 (2006.01) F21S 10/02 (2006.01)**

[25] EN  
[54] **FLAMELESS ELECTRONIC CANDLE**  
[54] **BOUGIE ELECTRONIQUE SANS FLAMME**  
[72] ROBERTS, MICHAEL, US  
[72] NGUYEN-VIVEROS, Y-CO THY, US  
[71] MERCHSOURCE, LLC, US  
[85] 2019-11-29  
[86] 2018-03-28 (PCT/US2018/024901)  
[87] (WO2018/183541)  
[30] US (62/477,668) 2017-03-28

[21] **3,065,759**  
[13] A1

[51] **Int.Cl. C12N 5/074 (2010.01) C12N 5/0789 (2010.01) C12N 5/095 (2010.01)**

[25] EN  
[54] **LIVER ORGANOID COMPOSITIONS AND METHODS OF MAKING AND USING SAME**  
[54] **COMPOSITIONS D'ORGANOIDES HEPATIQUES ET PROCEDES DE PREPARATION ET D'UTILISATION CORRESPONDANTS**  
[72] TAKEBE, TAKANORI, US  
[72] SHINOZAWA, TADAHIRO, US  
[72] KOIKE, HIROYUKI, US  
[72] KIMURA, MASAKI, US  
[71] CHILDREN'S HOSPITAL MEDICAL CENTER, US  
[85] 2019-11-29  
[86] 2018-02-19 (PCT/US2018/018585)  
[87] (WO2018/226267)  
[30] US (62/517,414) 2017-06-09

[21] **3,065,760**  
[13] A1

[51] **Int.Cl. B60L 15/20 (2006.01) H02P 21/18 (2016.01) H02P 5/46 (2006.01)**

[25] EN  
[54] **CONTROL METHOD AND CONTROL DEVICE FOR ELECTRIC VEHICLE**  
[54] **PROCEDE DE COMMANDE POUR VEHICULE ELECTRIQUE, ET DISPOSITIF DE COMMANDE**  
[72] SAWADA, AKIRA, JP  
[72] ITOU, KEN, JP  
[72] FUJIWARA, KENGO, JP  
[71] NISSAN MOTOR CO., LTD., JP  
[85] 2019-11-29  
[86] 2017-06-01 (PCT/JP2017/020521)  
[87] (WO2018/220805)

[21] **3,065,762**  
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01)**

[25] EN  
[54] **WORKFLOW MANAGEMENT VIA BLOCK CHAINS**  
[54] **GESTION DE FLUX DE TRAVAIL PAR L'INTERMEDIAIRE DE CHAINES DE BLOCS**  
[72] SCOTT, GLENN, US  
[71] INTUIT INC., US  
[85] 2019-11-29  
[86] 2017-08-02 (PCT/US2017/045125)  
[87] (WO2019/027453)

## Demandes PCT entrant en phase nationale

[21] **3,065,763**

[13] A1

- [51] **Int.Cl. B29C 63/18 (2006.01)**  
[25] EN  
[54] **METHOD FOR COATING A PIPELINE FIELD JOINT**  
[54] **PROCEDE DE REVETEMENT D'UN RACCORD DE CANALISATION**  
[72] MEHTA, RUJUL M., US  
[72] BROWN II, MARK W., US  
[72] GOODMAN, AMANDA M., US  
[72] KUMAR, BHAWESH, US  
[72] WAN, QICHUN, US  
[71] DOW GLOBAL TECHNOLOGIES LLC, US  
[85] 2019-11-29  
[86] 2018-04-17 (PCT/US2018/027850)  
[87] (WO2018/222284)  
[30] US (62/512,756) 2017-05-31

[21] **3,065,764**

[13] A1

- [51] **Int.Cl. G06F 17/27 (2006.01) G10L 15/22 (2006.01)**  
[25] EN  
[54] **EXTRACTING DOMAIN-SPECIFIC ACTIONS AND ENTITIES IN NATURAL LANGUAGE COMMANDS**  
[54] **EXTRACTION D'ACTIONS ET D'ENTITES SPECIFIQUES AU DOMAINE DANS DES INSTRUCTIONS EN LANGAGE NATUREL**  
[72] KAKIRWAR, PRATEEK, US  
[72] THEKKUMPAT, AVINASH, US  
[72] CHEN, JEFFREY, US  
[71] INTUIT INC., US  
[85] 2019-11-29  
[86] 2017-08-21 (PCT/US2017/047743)  
[87] (WO2019/017984)  
[30] US (15/654,955) 2017-07-20

[21] **3,065,765**

[13] A1

- [51] **Int.Cl. G06F 17/27 (2006.01) G10L 15/22 (2006.01)**  
[25] EN  
[54] **EXTRACTING DOMAIN-SPECIFIC ACTIONS AND ENTITIES IN NATURAL LANGUAGE COMMANDS**  
[54] **EXTRACTION D'ACTIONS ET D'ENTITES SPECIFIQUES A UN DOMAINE DANS DES COMMANDES EN LANGAGE NATUREL**  
[72] KAKIRWAR, PRATEEK, US  
[72] THEKKUMPAT, AVINASH, US  
[72] CHEN, JEFFREY, US  
[71] INTUIT INC., US  
[85] 2019-11-29  
[86] 2017-08-21 (PCT/US2017/047746)  
[87] (WO2019/027484)  
[30] US (15/666,480) 2017-08-01

[21] **3,065,766**

[13] A1

- [51] **Int.Cl. H04W 48/16 (2009.01) H04W 56/00 (2009.01) H04W 72/04 (2009.01)**  
[25] EN  
[54] **USER TERMINAL AND RADIO COMMUNICATION METHOD**  
[54] **TERMINAL UTILISATEUR ET PROCEDE DE COMMUNICATION SANS FIL**  
[72] HARADA, HIROKI, JP  
[72] TAKEDA, DAIKI, JP  
[72] NAGATA, SATOSHI, JP  
[71] NTT DOCOMO, INC., JP  
[85] 2019-11-29  
[86] 2017-06-02 (PCT/JP2017/020700)  
[87] (WO2018/220854)

[21] **3,065,767**

[13] A1

- [51] **Int.Cl. H04L 9/08 (2006.01) G06F 21/62 (2013.01)**  
[25] EN  
[54] **CRYPTOGRAPHIC KEY GENERATION FOR LOGICALLY SHARDED DATA STORES**  
[54] **GENERATION DE CLE CRYPTOGRAPHIQUE POUR MAGASINS DE DONNEES PARTAGES LOGIQUEMENT**  
[72] KESELMAN, GLEB, IL  
[72] NEBEL, ERNESTO, US  
[72] WEBER, JEFFERY, US  
[72] KAUHANE, NOAH, US  
[72] SOMAYAJI, VINU, US  
[72] SHEFFER, YARON, IL  
[71] INTUIT INC., US  
[85] 2019-11-29  
[86] 2017-11-16 (PCT/US2017/062077)  
[87] (WO2019/099014)

[21] **3,065,768**

[13] A1

- [51] **Int.Cl. A63C 9/00 (2012.01) A63C 9/086 (2012.01) A63C 9/20 (2012.01)**  
[25] EN  
[54] **MOVING MECHANISM FOR A SKI BINDING**  
[54] **MECANISME MOBILE DE FIXATION DE SKI**  
[72] GOVERUD-HOLM, THOMAS, NO  
[72] SVENDSEN, OYVAR, NO  
[72] DANIELSEN, JORN FRODE, NO  
[72] ANDERSSSEN, MAGNUS, NO  
[71] ROTTEFELLA AS, NO  
[85] 2019-11-29  
[86] 2017-11-22 (PCT/NO2017/050301)  
[87] (WO2018/222044)  
[30] NO (20170891) 2017-05-30

[21] **3,065,769**

[13] A1

- [51] **Int.Cl. H04W 72/02 (2009.01)**  
[25] EN  
[54] **WIRELESS COMMUNICATION METHOD AND APPARATUS**  
[54] **PROCEDE ET APPAREIL DE COMMUNICATION SANS FIL**  
[72] LIN, YANAN, CN  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2019-11-27  
[86] 2017-06-07 (PCT/CN2017/087450)  
[87] (WO2018/223316)

## PCT Applications Entering the National Phase

[21] **3,065,770**  
[13] A1

[51] **Int.Cl. H04N 21/235 (2011.01) H04N 21/236 (2011.01) H04N 21/4722 (2011.01) H04N 21/482 (2011.01) H04N 21/84 (2011.01) H04N 21/858 (2011.01)**

[25] EN

[54] **VIDEO CONTENT GRAPH INCLUDING ENHANCED METADATA**

[54] **GRAPHE DE CONTENU VIDEO COMPRENANT DES METADONNEES AMELIOREES**

[72] BELLINGHAM, GREGORY JOHN, US

[72] MCNAMARA, WILLIAM A., US

[72] FURTWANGLER, BRANDON C., US

[71] HOME BOX OFFICE, INC., US

[85] 2019-11-29

[86] 2018-05-02 (PCT/US2018/030718)

[87] (WO2018/222334)

[30] US (15/608,530) 2017-05-30

[21] **3,065,771**  
[13] A1

[51] **Int.Cl. F25J 3/00 (2006.01) C07C 7/04 (2006.01) F25J 3/02 (2006.01)**

[25] EN

[54] **HYDROCARBON GAS PROCESSING**

[54] **TRAITEMENT DE GAZ D'HYDROCARBURE**

[72] PIERCE, MICHAEL C., US

[72] CUELLAR, KYLE T., US

[72] MILLER, SCOTT A., US

[72] WILKINSON, JOHN D., US

[72] LYNCH, JOE T., US

[72] HUDSON, HANK M., US

[72] JOHNKE, ANDREW F., US

[72] LEWIS, W. LARRY, US

[71] ORTLOFF ENGINEERS, LTD., US

[71] S.M.E. PRODUCTS LP, US

[85] 2019-11-29

[86] 2018-05-25 (PCT/US2018/034615)

[87] (WO2018/222526)

[30] US (62/513,860) 2017-06-01

[30] US (62/674,928) 2018-05-22

[30] US (15/988,565) 2018-05-24

[21] **3,065,772**  
[13] A1

[51] **Int.Cl. A63C 9/086 (2012.01) A63C 9/20 (2012.01) A63C 9/00 (2012.01)**

[25] EN

[54] **SKI BINDING ATTACHMENT**

[54] **ACCESSOIRE DE FIXATION DE SKI**

[72] DANIELSEN, JORN FRODE, NO

[72] GOVERUD-HOLM, THOMAS, NO

[72] SVENDSEN, OYVAR, NO

[72] ANDERSSSEN, MAGNUS, NO

[71] ROTTEFELLA AS, NO

[85] 2019-11-29

[86] 2017-11-22 (PCT/NO2017/050302)

[87] (WO2018/222045)

[30] NO (20170891) 2017-05-30

[21] **3,065,774**  
[13] A1

[51] **Int.Cl. G01N 31/10 (2006.01) G01N 25/20 (2006.01)**

[25] EN

[54] **METHOD OF DETERMINING A RELATIVE DECREASE IN CATALYTIC EFFICACY OF A CATALYST IN A CATALYST SOLUTION**

[54] **PROCEDE DE DETERMINATION D'UNE DIMINUTION RELATIVE DE L'EFFICACITE CATALYTIQUE D'UN CATALYSEUR DANS UNE SOLUTION DE CATALYSEUR**

[72] MUNRO, IAN M., US

[72] HARLAN, C. JEFF, US

[71] UNIVATION TECHNOLOGIES, LLC, US

[85] 2019-11-29

[86] 2018-06-01 (PCT/US2018/035538)

[87] (WO2018/222955)

[30] US (62/514,388) 2017-06-02

[21] **3,065,775**  
[13] A1

[51] **Int.Cl. C08L 23/08 (2006.01)**

[25] EN

[54] **BLENDS OF LINEAR LOW DENSITY POLYETHYLENES**

[54] **MELANGES DE POLYETHYLENES LINEAIRES BASSE DENSITE**

[72] CHANDAK, SWAPNIL B., US

[72] BORSE, NITIN, US

[71] UNIVATION TECHNOLOGIES, LLC, US

[85] 2019-11-29

[86] 2018-05-29 (PCT/US2018/034845)

[87] (WO2018/222571)

[30] US (62/512,865) 2017-05-31

[21] **3,065,776**  
[13] A1

[51] **Int.Cl. F16L 23/036 (2006.01) F16L 23/00 (2006.01) F16L 55/18 (2006.01)**

[25] EN

[54] **A DEVICE FOR OPERATION ON A PRESSURIZED BOLT CONNECTION BETWEEN A FIRST FLANGED TUBULAR AND A SECOND FLANGED TUBULAR**

[54] **DISPOSITIF D'ACTION SUR UNE LIAISON PAR BOULONS SOUS PRESSION ENTRE UN PREMIER ELEMENT TUBULAIRE A BRIDE ET UN DEUXIEME ELEMENT TUBULAIRE A BRIDE**

[72] AAMODT, KJETIL, NO

[72] HARBOE-WIIG, ODDVAR, NO

[71] IK-NORWAY AS, NO

[85] 2019-11-29

[86] 2018-05-30 (PCT/NO2018/050142)

[87] (WO2018/222051)

[30] NO (20170915) 2017-06-02

## Demandes PCT entrant en phase nationale

[21] **3,065,777**  
[13] A1

[51] **Int.Cl. G10L 17/22 (2013.01) H04N 21/45 (2011.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR CONTROLLING PERMISSIONS TO CHANGE PARENTAL CONTROL SETTINGS BASED ON VOCAL CHARACTERISTICS OF A USER**  
[54] **SYSTEMES ET PROCEDES DE CONTROLE DES PERMISSIONS POUR MODIFIER LES PARAMETRES DE CONTROLE PARENTAL SUR LA BASE DES CARACTERISTIQUES VOCALES D'UN UTILISATEUR**  
[72] ROE, GLEN, E., US  
[72] MCCARTY, MICHAEL, US  
[71] ROVI GUIDES, INC., US  
[85] 2019-11-29  
[86] 2018-05-24 (PCT/US2018/034300)  
[87] (WO2018/222482)  
[30] US (15/612,465) 2017-06-02

[21] **3,065,778**  
[13] A1

[51] **Int.Cl. B05D 5/06 (2006.01) B05D 7/00 (2006.01) B05D 7/14 (2006.01)**  
[25] EN  
[54] **MULTI-LAYERED FINISHES FOR CAN ENDS**  
[54] **FINITIONS MULTICOUCHES POUR EXTREMITES DE BOITES**  
[72] HOEHNE, JOERG, DE  
[72] SCHWAGER, CAECILIA, DE  
[72] CAMPBELL, IAN MUSSEN, DE  
[72] WUTTKE, THOMAS, DE  
[72] WUTTKE, MANUELA, DE  
[71] NOVELIS INC., US  
[85] 2019-11-29  
[86] 2018-05-24 (PCT/US2018/034348)  
[87] (WO2018/226421)  
[30] US (62/516,281) 2017-06-07

[21] **3,065,779**  
[13] A1

[51] **Int.Cl. C09K 8/035 (2006.01)**  
[25] EN  
[54] **DOPED BIODEGRADABLE ELASTOMER FOR DOWNHOLE APPLICATIONS**  
[54] **ELASTOMERE BIODEGRADABLE DOPE POUR APPLICATIONS DE FOND DE TROU**  
[72] GABRIELE, PETER D., US  
[72] SHULL, DENNIS, US  
[72] PIPPERT, FRED B., US  
[71] THE SECANT GROUP, LLC, US  
[71] CDI ENERGY PRODUCTS, INC., US  
[85] 2019-11-29  
[86] 2018-06-01 (PCT/US2018/035619)  
[87] (WO2018/223007)  
[30] US (62/514,050) 2017-06-02

[21] **3,065,780**  
[13] A1

[51] **Int.Cl. G01N 21/64 (2006.01) B01L 3/00 (2006.01) C12Q 1/68 (2018.01) C40B 30/04 (2006.01) C40B 50/14 (2006.01) H01L 27/146 (2006.01) G01N 21/76 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND DEVICES FOR HIGH-THROUGHPUT SEQUENCING WITH SEMICONDUCTOR-BASED DETECTION**  
[54] **SYSTEMES ET DISPOSITIFS DE SEQUENCAGE A HAUT DEBIT AVEC DETECTION BASEE SUR UN SEMI-CONDUCTEUR**  
[72] DEHLINGER, DIETRICH, US  
[72] AGAH, ALI, US  
[72] FUNG, TRACY HELEN, US  
[72] KOSTEM, EMRAH, US  
[72] HETHERINGTON, CRAIG, US  
[71] ILLUMINA, INC., US  
[85] 2019-11-29  
[86] 2019-01-07 (PCT/US2019/012559)  
[87] (WO2019/136388)  
[30] US (62/614,934) 2018-01-08  
[30] US (62/614,930) 2018-01-08  
[30] NL (2020758) 2018-04-12

[21] **3,065,782**  
[13] A1

[51] **Int.Cl. H01F 5/00 (2006.01) H01F 38/14 (2006.01) H02J 7/02 (2016.01) H04B 5/00 (2006.01)**  
[25] EN  
[54] **WIRELESS POWER TRANSFER THIN PROFILE COIL ASSEMBLY**  
[54] **ENSEMBLE BOBINE A PROFIL MINCE DE TRANSFERT D'ENERGIE SANS FIL**  
[72] LONG, BRUCE RICHARD, US  
[72] DAGA, ANDREW W., US  
[72] WOLGEMUTH, JOHN M., US  
[72] SCHRAFEL, PETER C., US  
[72] COHEN, BENJAMIN H., US  
[72] KEENER, MOSES M., US  
[72] MCMAHON, FRANCIS J., US  
[71] MOMENTUM DYNAMICS CORPORATION, US  
[85] 2019-11-29  
[86] 2018-05-30 (PCT/US2018/035060)  
[87] (WO2018/222669)  
[30] US (62/512,544) 2017-05-30

[21] **3,065,783**  
[13] A1

[51] **Int.Cl. A61K 31/337 (2006.01) A61K 31/7068 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **DOSING SCHEDULE FOR TESETAXEL AND CAPECITABINE**  
[54] **PROGRAMME DE DOSAGE POUR TESETAXEL ET CAPECITABINE**  
[72] WEI, THOMAS, US  
[72] TANG, KEVIN, US  
[72] KROLL, STEW, US  
[72] LEMKEY, JOHN G., US  
[72] PFEIFFER, STEVEN, US  
[72] VACIRCA, JEFF, US  
[71] ODONATE THERAPEUTICS, INC., US  
[85] 2019-11-29  
[86] 2018-06-01 (PCT/US2018/035653)  
[87] (WO2018/223029)  
[30] US (62/514,483) 2017-06-02

## PCT Applications Entering the National Phase

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[21] **3,065,784**  
[13] A1

[51] **Int.Cl. G16B 40/20 (2019.01) G16B 20/20 (2019.01)**  
[25] EN  
[54] **VARIANT CLASSIFIER BASED ON DEEP NEURAL NETWORKS**  
[54] **CLASSIFICATEUR DE VARIANTES BASE SUR DES RESEAUX NEURONAUX PROFONDS**  
[72] WISE, AARON, US  
[72] KRUGLYAK, KRISTINA M., US  
[71] ILLUMINA, INC., US  
[85] 2019-11-29  
[86] 2019-04-12 (PCT/US2019/027362)  
[87] (WO2019/200338)  
[30] US (62/656,741) 2018-04-12  
[30] NL (2020861) 2018-05-02

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[21] **3,065,786**  
[13] A1

[51] **Int.Cl. B60R 25/00 (2013.01) B60R 25/104 (2013.01) B60R 25/24 (2013.01) H04W 4/44 (2018.01) H04W 4/80 (2018.01) E05B 19/22 (2006.01)**  
[25] EN  
[54] **VEHICLE KEY LOCKER**  
[54] **CASIER A CLE DE VEHICULE**  
[72] LEE, JASON, US  
[72] KAMINSKI, JASON HENRY, US  
[71] FIRSTECH, LLC, US  
[85] 2019-11-29  
[86] 2018-05-30 (PCT/US2018/035214)  
[87] (WO2018/222772)  
[30] US (62/512,285) 2017-05-30  
[30] US (15/992,832) 2018-05-30

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[21] **3,065,788**  
[13] A1

[51] **Int.Cl. A61B 17/04 (2006.01)**  
[25] EN  
[54] **SUTURE SYSTEM FOR CONNECTING AND CREATING SUSPENSION BETWEEN AT LEAST TWO BODIES**  
[54] **SYSTEME DE SUTURE POUR RELIER ET CREER UNE SUSPENSION ENTRE AU MOINS DEUX CORPS**  
[72] SUMMITT, MATTHEW C., US  
[72] ROFMAN, ROBERT A., US  
[71] CONMED CORPORATION, US  
[85] 2019-11-29  
[86] 2018-05-31 (PCT/US2018/035256)  
[87] (WO2018/226488)  
[30] US (62/515,059) 2017-06-05  
[30] US (62/515,026) 2017-06-05  
[30] US (62/526,601) 2017-06-29  
[30] US (15/711,192) 2017-09-21

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[21] **3,065,789**  
[13] A1

[51] **Int.Cl. B01J 19/12 (2006.01) B65B 13/02 (2006.01) B65B 55/04 (2006.01) B65D 33/00 (2006.01) D06F 95/00 (2006.01) D06G 1/00 (2006.01) H01J 37/24 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR SANITIZING A LAUNDRY SLING**  
[54] **SYSTEMES ET PROCEDES D'ASEPTISATION D'UNE ELINGUE DE BLANCHISSERIE**  
[72] RUPNOW, ANDREW, US  
[72] JEWISON, PAUL, US  
[71] OMNI SOLUTIONS LLC, US  
[85] 2019-11-29  
[86] 2018-06-01 (PCT/US2018/035695)  
[87] (WO2018/223061)  
[30] US (62/513,885) 2017-06-01

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[21] **3,065,790**  
[13] A1

[51] **Int.Cl. A61K 35/22 (2015.01) A61P 13/12 (2006.01) C12N 9/22 (2006.01)**  
[25] EN  
[54] **IMMUNOPRIVILEGED BIOACTIVE RENAL CELLS FOR THE TREATMENT OF KIDNEY DISEASE**  
[54] **CELLULES RENALES BIOACTIVES A IMMUNO-PRIVILEGE POUR LE TRAITEMENT D'UNE MALADIE RENALE**  
[72] BERTRAM, TIMOTHY A., KY  
[72] JAIN, DEEPAK, US  
[72] BASU, JOYDEEP, US  
[72] LUDLOW, JOHN W., US  
[71] BERTRAM, TIMOTHY A., KY  
[71] JAIN, DEEPAK, US  
[85] 2019-11-29  
[86] 2018-06-21 (PCT/US2018/038801)  
[87] (WO2018/237170)  
[30] US (62/523,241) 2017-06-21

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[21] **3,065,791**  
[13] A1

[51] **Int.Cl. H01H 9/52 (2006.01) H01H 9/54 (2006.01) H02H 3/20 (2006.01)**  
[25] EN  
[54] **SURGE ARRESTER SYSTEM AND CIRCUIT BREAKER SYSTEM**  
[54] **SYSTEME DE PARASURTENSEUR ET SYSTEME DE DISJONCTEUR**  
[72] TSCHIDA, COLIN, US  
[72] CAIROLI, PIETRO, US  
[72] PAN, ZHIGUO, US  
[72] AGOSTINI, FRANCESCO, CH  
[72] TORRESIN, DANIELE, CH  
[72] RACITI, LUCA, IT  
[72] LEONI, DAVIDE, IT  
[71] ABB SCHWEIZ AG, CH  
[85] 2019-11-29  
[86] 2018-05-31 (PCT/US2018/035350)  
[87] (WO2018/222842)  
[30] US (15/610,420) 2017-05-31

## Demandes PCT entrant en phase nationale

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[21] **3,065,793**  
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 31/192 (2006.01) A61K 47/34 (2017.01)**

[25] EN

[54] **NANOPARTICLE COMPOSITIONS, METHODS OF FABRICATION, AND USE FOR DRUG DELIVERY**

[54] **COMPOSITIONS DE NANOPARTICULES, LEURS PROCEDES DE FABRICATION ET UTILISATION POUR L'ADMINISTRATION DE MEDICAMENTS**

[72] SIRIANNI, RACHAEL, US

[72] MEDINA, DAVID ALEXANDRO, US

[72] CHUNG, EUGENE, US

[71] DIGNITY HEALTH, US

[85] 2019-11-29

[86] 2018-06-15 (PCT/US2018/037934)

[87] (WO2018/232366)

[30] US (62/520,228) 2017-06-15

---

[21] **3,065,794**  
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **REDUCING THE TOXICITY OF AGROBACTERIUM ENDOTOXIN**

[54] **REDUCTION DE LA TOXICITE D'ENDOTOXINE D'AGROBACTERIUM**

[72] CHEN, QIANG, US

[72] YANG, MING, US

[72] LAI, HUAFANG, US

[71] ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, US

[85] 2019-11-29

[86] 2018-05-31 (PCT/US2018/035422)

[87] (WO2018/226506)

[30] US (62/515,141) 2017-06-05

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[21] **3,065,795**  
[13] A1

[51] **Int.Cl. F25J 3/00 (2006.01) C07C 7/04 (2006.01) F25J 3/02 (2006.01)**

[25] EN

[54] **HYDROCARBON GAS PROCESSING**

[54] **TRAITEMENT DE GAZ D'HYDROCARBURE**

[72] CUELLAR, KYLE T., US

[72] PIERCE, MICHAEL C., US

[72] MILLER, SCOTT A., US

[72] HUDSON, HANK M., US

[72] WILKINSON, JOHN D., US

[72] LYNCH, JOE T., US

[72] JOHNKE, ANDREW F., US

[72] LEWIS, W., LARRY, US

[71] ORTLOFF ENGINEERS, LTD., US

[71] S.M.E. PRODUCTS LP, US

[85] 2019-11-29

[86] 2018-05-25 (PCT/US2018/034624)

[87] (WO2018/222527)

[30] US (62/513,851) 2017-06-01

[30] US (62/667,833) 2018-05-07

[30] US (15/988,639) 2018-05-24

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[21] **3,065,796**  
[13] A1

[51] **Int.Cl. F24H 9/20 (2006.01) F24H 1/20 (2006.01)**

[25] EN

[54] **WATER HEATER USAGE PROFILING UTILIZING ENERGY METER AND ATTACHABLE SENSORS**

[54] **PROFILAGE D'UTILISATION DE CHAUFFE-EAU FAISANT APPEL A UN COMPTEUR D'ENERGIE ET A DES CAPTEURS FIXABLES**

[72] VAN HOUTEN, ARNOUD BRUINS JAN, US

[71] AQUANTA INC., US

[85] 2019-11-29

[86] 2018-07-02 (PCT/US2018/040623)

[87] (WO2019/006461)

[30] US (62/527,803) 2017-06-30

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[21] **3,065,797**  
[13] A1

[51] **Int.Cl. A61K 36/47 (2006.01) A61P 1/00 (2006.01) A61P 1/12 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR TREATING CONGENITAL DIARRHEA DISORDER**

[54] **METHODES ET COMPOSITIONS POUR TRAITER UN TROUBLE DE LA DIARRHEE CONGENITALE**

[72] CONTE, LISA A., US

[72] CHATURVEDI, PRAVIN R., US

[71] NAPO PHARMACEUTICALS, INC., US

[85] 2019-11-29

[86] 2018-05-31 (PCT/US2018/035468)

[87] (WO2018/222919)

[30] US (62/513,251) 2017-05-31

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[21] **3,065,798**  
[13] A1

[51] **Int.Cl. B60R 22/32 (2006.01) A62B 3/00 (2006.01) B60R 21/00 (2006.01) B62D 63/04 (2006.01)**

[25] EN

[54] **SEATBELT MOUNTED COMBINATION CUTTER AND GLASS BREAK TOOL**

[54] **DISPOSITIF DE COUPE ET OUTIL BRISE-VITRE COMBINES MONTES SUR UNE CEINTURE DE SECURITE**

[72] SOUDERS, STEPHEN P., US

[71] SOUDERS, STEPHEN P., US

[85] 2019-11-29

[86] 2018-05-25 (PCT/US2018/034665)

[87] (WO2018/222538)

[30] US (15/608,615) 2017-05-30

## PCT Applications Entering the National Phase

[21] **3,065,799**  
[13] A1

[51] **Int.Cl. B29C 51/24 (2006.01) B29C 51/10 (2006.01) B29C 51/26 (2006.01) B29C 51/36 (2006.01) B65B 9/04 (2006.01) C11D 17/04 (2006.01)**

[25] EN

[54] **APPARATUS AND PROCESS FOR FORMING WATER SOLUBLE POUCHES**

[54] **APPAREIL ET PROCEDE DE FORMATION DE SACHETS HYDROSOLUBLES**

[72] HOWELL, DAVID STUART, II, US

[72] GILL, NATHAN ALAN, US

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2019-11-29

[86] 2018-06-19 (PCT/US2018/038200)

[87] (WO2018/236813)

[30] US (15/626,551) 2017-06-19

[21] **3,065,800**  
[13] A1

[51] **Int.Cl. A61K 36/47 (2006.01) A61K 31/353 (2006.01) A61P 1/12 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR TREATING BILE ACID DIARRHEA, DIARRHEA ASSOCIATED WITH SMALL INTESTINE RESECTION OR GALLBLADDER REMOVAL, AND SHORT BOWEL SYNDROME**

[54] **PROCEDES ET COMPOSITIONS POUR LE TRAITEMENT DE LA DIARRHEE CAUSEE PAR LES ACIDES BILIAIRES, DE LA DIARRHEE ASSOCIEE A UNE RESECTION DE L'INTESTIN GRELE OU A L'ABLATION DE LA VESICULE BILIAIRE, ET DU SYNDROME DE L'INTESTIN COURT**

[72] CONTE, LISA A., US

[72] CHATURVEDI, PRAVIN R., US

[72] CONTE, CHARLES, US

[71] NAPO PHARMACEUTICALS, INC., US

[85] 2019-11-29

[86] 2018-05-31 (PCT/US2018/035471)

[87] (WO2018/222921)

[30] US (62/513,257) 2017-05-31

[21] **3,065,801**  
[13] A1

[51] **Int.Cl. B60R 11/02 (2006.01) A47B 3/00 (2006.01) A47B 83/02 (2006.01) A47C 7/62 (2006.01) A47C 7/70 (2006.01) B60N 3/00 (2006.01) B60R 7/00 (2006.01)**

[25] EN

[54] **PORTABLE ELECTRONIC DEVICE POSITIONING APPARATUS**

[54] **APPAREIL DE POSITIONNEMENT D'UN DISPOSITIF ELECTRONIQUE PORTABLE**

[72] LAMB, JOHN S., JR., US

[72] MARKERT, DENNIS P., US

[71] ASTRONICS ADVANCED ELECTRONIC SYSTEMS CORP., US

[85] 2019-11-29

[86] 2018-06-05 (PCT/US2018/036027)

[87] (WO2018/226672)

[30] US (62/517,113) 2017-06-08

[30] US (15/997,083) 2018-06-04

[21] **3,065,802**  
[13] A1

[51] **Int.Cl. E21C 25/10 (2006.01) E21C 31/02 (2006.01)**

[25] EN

[54] **CUTTING UNIT OF SHEARER, PROVIDED WITH DOUBLE-SPEED ROLLERS**

[54] **UNITE DE COUPE DE HAVEUSE, POURVUE DE ROULEAUX A DOUBLE VITESSE**

[72] GAO, KUIDONG, CN

[72] ZENG, QINGLIANG, CN

[72] ZHANG, XIN, CN

[72] XU, WENBO, CN

[72] WANG, LIANG, CN

[72] ZHANG, XIAODI, CN

[71] SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, CN

[85] 2019-12-02

[86] 2018-04-23 (PCT/CN2018/084112)

[87] (WO2019/109577)

[30] CN (201711266893.4) 2017-12-05

[21] **3,065,803**  
[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01) C12Q 1/37 (2006.01)**

[25] EN

[54] **BIOMARKERS AND PATIENT SELECTION STRATEGIES**

[54] **BIOMARQUEURS ET STRATEGIES DE SELECTION DE PATIENTS**

[72] HASSIG, CHRISTIAN ANDREW, US

[72] STROUSE, BRYAN WILLIAM, US

[72] HANSEN, RYAN JAMES, US

[72] YOU, ANGIE J., US

[71] SIERRA ONCOLOGY, INC., US

[85] 2019-11-29

[86] 2018-06-01 (PCT/US2018/035566)

[87] (WO2018/222970)

[30] US (62/513,954) 2017-06-01

[30] US (62/597,759) 2017-12-12

[30] US (62/628,900) 2018-02-09

[30] US (62/650,199) 2018-03-29

[21] **3,065,804**  
[13] A1

[51] **Int.Cl. H04L 12/24 (2006.01)**

[25] EN

[54] **DYNAMIC TCP STREAM PROCESSING WITH MODIFICATION NOTIFICATION**

[54] **TRAITEMENT DE FLUX TCP DYNAMIQUE A NOTIFICATION DE MODIFICATION**

[72] AMICANGIOLI, ANTHONY D., US

[72] CARP, ANDREW C., US

[72] FIELD, TIMOTHY G., US

[72] GROCHOWINA, DOMINICK S., US

[72] PYATNYCHKO, YURA, US

[72] ROSEN, BERNARD J., US

[71] HYANNIS PORT RESEARCH, INC., US

[85] 2019-11-29

[86] 2018-06-07 (PCT/US2018/036395)

[87] (WO2018/226919)

[30] US (62/516,753) 2017-06-08

## Demandes PCT entrant en phase nationale

[21] **3,065,806**  
[13] A1

[51] **Int.Cl. H04N 7/18 (2006.01)**  
[25] EN  
[54] **CONTROL ACCESS UTILIZING VIDEO ANALYTICS**  
[54] **CONTROLE D'ACCES A L'AIDE D'UNE ANALYSE VIDEO**  
[72] BART, GARY FRANKLIN, US  
[72] CONSTANTINE, DEAN, US  
[71] ALARM.COM INCORPORATED, US  
[85] 2019-11-29  
[86] 2018-06-01 (PCT/US2018/035584)  
[87] (WO2018/222982)  
[30] US (62/513,588) 2017-06-01

[21] **3,065,807**  
[13] A1

[51] **Int.Cl. G06Q 40/02 (2012.01) G06N 99/00 (2019.01) G06Q 20/24 (2012.01) G06Q 20/36 (2012.01) G06Q 20/40 (2012.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR ISSUING A LOAN TO A CONSUMER DETERMINED TO BE CREDITWORTHY**  
[54] **SYSTEME ET PROCEDE PERMETTANT D'EMETTRE UN PRET POUR UN CONSOMMATEUR DETERMINE COMME ETANT SOLVABLE**  
[72] FIDANZA, PAOLO, CO  
[72] ROSSO, ANDRES, CO  
[72] KURINNYI, ANDRII, US  
[71] MO TECNOLOGIAS, LLC, US  
[85] 2019-11-29  
[86] 2018-05-07 (PCT/US2018/031300)  
[87] (WO2018/226337)  
[30] US (62/515,053) 2017-06-05  
[30] US (62/543,443) 2017-08-10  
[30] US (15/847,991) 2017-12-20  
[30] US (15/964,247) 2018-04-27

[21] **3,065,809**  
[13] A1

[51] **Int.Cl. E04G 11/38 (2006.01) E04G 11/48 (2006.01) E04G 25/04 (2006.01)**  
[25] EN  
[54] **SUPPORT HEAD HAVING A LOWERABLE MOUNTING HEIGHT FOR A FORMWORK SUPPORT**  
[54] **TETE D'APPUI A HAUTEUR DE SUPPORT ABAISSABLE POUR UN APPUI DE COFFRAGE**  
[72] HAEBERLE, WILFRIED, DE  
[72] GERELLI, STEPHANE, FR  
[71] PERI GMBH, DE  
[85] 2019-12-02  
[86] 2018-05-30 (PCT/EP2018/064146)  
[87] (WO2018/233993)  
[30] DE (10 2017 210 195.4) 2017-06-19

[21] **3,065,812**  
[13] A1

[51] **Int.Cl. B66F 7/06 (2006.01) B25J 15/06 (2006.01) B65G 49/00 (2006.01) B66C 1/02 (2006.01) B66C 7/02 (2006.01) B66C 11/06 (2006.01)**  
[25] EN  
[54] **PALLETISING ROBOT COMPRISING AN H-BEAM**  
[54] **ROBOT PALETTISEUR A POUTRE DE SUPPORT EN H**  
[72] STEHR, ROLAND, DE  
[71] DUCKER GROUP GMBH, DE  
[85] 2019-12-02  
[86] 2018-05-30 (PCT/EP2018/064311)  
[87] (WO2018/220091)  
[30] DE (10 2017 112 237.0) 2017-06-02

[21] **3,065,815**  
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01) H02J 7/02 (2016.01)**  
[25] EN  
[54] **METHOD, APPARATUS AND SYSTEM FOR CHARGING TWO-TERMINAL PORTABLE ELECTRONIC DEVICES**  
[54] **PROCEDE, APPAREIL ET SYSTEME DE CHARGE DE DISPOSITIFS ELECTRONIQUES PORTABLES A DEUX BORNES**  
[72] WEISSINGER, FREDERICK J., US  
[72] BAKER, RYAN, US  
[71] MOTOROLA SOLUTIONS, INC., US  
[85] 2019-11-29  
[86] 2018-05-09 (PCT/US2018/031882)  
[87] (WO2018/226346)  
[30] US (15/616,718) 2017-06-07

[21] **3,065,816**  
[13] A1

[51] **Int.Cl. A61K 31/713 (2006.01) C12N 15/113 (2010.01) A61P 9/00 (2006.01) A61P 9/10 (2006.01) C12N 15/864 (2006.01)**  
[25] EN  
[54] **TREATMENT OF HEART DISEASE BY INHIBITION OF THE ACTION OF MUSCLE A-KINASE ANCHORING PROTEIN (MAKAP)**  
[54] **TRAITEMENT DE CARDIOPATHIES PAR INHIBITION DE L'ACTION DES PROTEINES D'ANCRAGE AUX PROTEINES KINASES A (MAKAP) DU MUSCLE**  
[72] KAPILOFF, MICHAEL S., US  
[71] KAPILOFF, MICHAEL S., US  
[85] 2019-11-29  
[86] 2018-07-05 (PCT/US2018/040913)  
[87] (WO2019/010301)  
[30] US (62/259,224) 2017-07-06

[21] **3,065,817**  
[13] A1

[51] **Int.Cl. B29C 44/60 (2006.01) B29C 45/76 (2006.01) B29C 45/77 (2006.01) B29C 45/78 (2006.01)**  
[25] EN  
[54] **INJECTION MOLDING OF CROSSLINKING POLYMERS**  
[54] **MOULAGE PAR INJECTION DE POLYMERES DE RETICULATION**  
[72] MONTAGUE, RICHARD LEWIS, II, US  
[72] POLLARD, RICK ALAN, US  
[72] HUANG, CHOW-CHI, US  
[72] ALTONEN, GENE MICHAEL, US  
[72] MCCONNELL, KIMBERLY NICHOLE, US  
[72] NEATE, AARON TIMOTHY, US  
[71] IMFLUX INC., US  
[85] 2019-11-29  
[86] 2018-06-11 (PCT/US2018/036827)  
[87] (WO2018/231676)  
[30] US (62/519,961) 2017-06-15

## PCT Applications Entering the National Phase

[21] **3,065,819**  
[13] A1

[51] **Int.Cl. F16K 47/08 (2006.01)**  
[25] EN  
[54] **METHOD OF MANUFACTURING A FLUID PRESSURE REDUCTION DEVICE**  
[54] **PROCEDE DE FABRICATION D'UN DISPOSITIF DE REDUCTION DE PRESSION DE FLUIDE**  
[72] GABRIEL, THOMAS N., US  
[72] MCCARTY, MICHAEL W., US  
[71] FISHER CONTROLS INTERNATIONAL LLC, US  
[85] 2019-11-29  
[86] 2018-05-17 (PCT/US2018/033076)  
[87] (WO2018/217521)  
[30] US (62/511,181) 2017-05-25  
[30] US (15/887,659) 2018-02-02

[21] **3,065,820**  
[13] A1

[51] **Int.Cl. B29C 45/77 (2006.01) B29C 44/60 (2006.01) B29C 45/76 (2006.01) B29C 45/78 (2006.01)**  
[25] EN  
[54] **INJECTION MOLDING OF CROSSLINKING POLYMERS**  
[54] **MOULAGE PAR INJECTION DE POLYMERES DE RETICULATION**  
[72] MONTAGUE, RICHARD LEWIS, II, US  
[72] POLLARD, RICK ALAN, US  
[72] HUANG, CHOW-CHI, US  
[72] ALTONEN, GENE MICHAEL, US  
[72] MCCONNELL, KIMBERLY NICHOLE, US  
[72] NEATE, AARON TIMOTHY, US  
[71] IMFLUX INC., US  
[85] 2019-11-29  
[86] 2018-06-11 (PCT/US2018/036829)  
[87] (WO2018/231677)  
[30] US (62/520,004) 2017-06-15

[21] **3,065,821**  
[13] A1

[51] **Int.Cl. A61M 39/20 (2006.01) A61M 39/10 (2006.01) A61M 39/16 (2006.01)**  
[25] EN  
[54] **CONNECTOR CAP WITH SAFETY VENT**  
[54] **BOUCHON CONNECTEUR PRESENTANT UN ORIFICE DE SECURITE**  
[72] COYLE, SEAN, US  
[71] BECTON, DICKINSON AND COMPANY, US  
[85] 2019-11-29  
[86] 2018-06-21 (PCT/US2018/038721)  
[87] (WO2018/237122)  
[30] US (62/523,506) 2017-06-22

[21] **3,065,823**  
[13] A1

[51] **Int.Cl. C22B 60/02 (2006.01)**  
[25] EN  
[54] **RECOVERY OF URANIUM**  
[54] **RECUPERATION D'URANIUM**  
[72] BESTER, JACO, NL  
[72] DELAMEILLEURE, STEPHANE, FR  
[72] ZAGANIARIS, EMMANUEL, FR  
[71] DOW GLOBAL TECHNOLOGIES LLC, US  
[85] 2019-11-29  
[86] 2018-05-18 (PCT/US2018/033398)  
[87] (WO2018/222414)  
[30] EP (17290073.0) 2017-06-02

[21] **3,065,825**  
[13] A1

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

[21] **3,065,826**  
[13] A1

[51] **Int.Cl. H01R 4/62 (2006.01) H01R 43/02 (2006.01)**  
[25] EN  
[54] **JOINT OF COPPER TERMINAL AND ALUMINIUM CONDUCTOR AND PLASMA WELDING METHOD THEREFOR**  
[54] **JOINT DE BORNE EN CUIVRE ET DE CONDUCTEUR EN ALUMINIUM ET SON PROCEDE DE SOUDAGE PLASMA**  
[72] WANG, CHAO, CN  
[71] JILIN ZHONG YING HIGH TECHNOLOGY CO., LTD., CN  
[85] 2019-12-02  
[86] 2018-05-31 (PCT/CN2018/089209)  
[87] (WO2018/223887)  
[30] CN (201710415050.X) 2017-06-05

[21] **3,065,828**  
[13] A1

[51] **Int.Cl. E21B 10/42 (2006.01) E21B 10/54 (2006.01)**  
[25] EN  
[54] **CUTTING TOOL WITH PRE-FORMED HARDFACING SEGMENTS**  
[54] **OUTIL DE COUPE DOTE DE SEGMENTS DE RECHARGEMENT DUR PREFORMES**  
[72] ZHANG, YOUHE, US  
[72] SONG, HUIMIN, US  
[72] MORLEY, JAN STEFAN, US  
[71] SMITH INTERNATIONAL, INC., US  
[85] 2019-11-29  
[86] 2018-05-22 (PCT/US2018/033770)  
[87] (WO2018/222436)  
[30] US (62/513,352) 2017-05-31

## Demandes PCT entrant en phase nationale

[21] **3,065,830**  
[13] A1

[51] **Int.Cl. B65G 1/137 (2006.01)**  
[25] EN  
[54] **METHOD AND GOODS STORAGE SYSTEM FOR PICKING GOODS WITH EFFICIENTLY OPERATED DYNAMIC BUFFER**  
[54] **PROCEDE ET SYSTEME D'ENTREPOT POUR LA PREPARATION DE MARCHANDISES AVEC TAMPON DYNAMIQUE EXPLOITE EFFICACEMENT**  
[72] LINDLEY, TIMOTHY, DE  
[72] SCHROPF, HARALD JOHANNES, AT  
[71] TGW LOGISTICS GROUP GMBH, AT  
[85] 2019-12-02  
[86] 2018-05-29 (PCT/AT2018/060109)  
[87] (WO2018/218266)  
[30] AT (A50463/2017) 2017-06-02

[21] **3,065,831**  
[13] A1

[51] **Int.Cl. H04W 72/02 (2009.01)**  
[25] EN  
[54] **DATA TRANSMISSION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE**  
[54] **PROCEDE DE TRANSMISSION DE DONNEES, DISPOSITIF TERMINAL ET DISPOSITIF DE RESEAU**  
[72] TANG, HAI, CN  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2019-12-02  
[86] 2017-09-15 (PCT/CN2017/101953)  
[87] (WO2019/051804)

[21] **3,065,832**  
[13] A1

[51] **Int.Cl. A41G 5/00 (2006.01) A41G 3/00 (2006.01) A45D 8/00 (2006.01) A45D 8/20 (2006.01) A45D 8/24 (2006.01) A45D 8/36 (2006.01)**  
[25] EN  
[54] **HAIR ADDITION**  
[54] **COMPLEMENT CAPILLAIRE**  
[72] JENSEN, JENNAE, US  
[71] PSYKHE HAIR EXTENSIONS, INC, US  
[85] 2019-11-29  
[86] 2018-05-22 (PCT/US2018/033821)  
[87] (WO2018/222440)  
[30] US (62/512,543) 2017-05-30

[21] **3,065,835**  
[13] A1

[51] **Int.Cl. B29C 57/02 (2006.01)**  
[25] EN  
[54] **METHOD FOR EXPANDING AN END OF A PIPE AND EXPANDER TOOL**  
[54] **PROCEDE DE DILATATION D'UNE EXTREMITE D'UN TUYAU ET OUTIL DE DILATATION**  
[72] SAVOLAINEN, MIKA, FI  
[72] LAAKSO, JYRI, FI  
[72] UOSUKAINEN, MIKA, FI  
[72] ROTSO, VESA, FI  
[71] UPONOR INNOVATION AB, SE  
[85] 2019-12-02  
[86] 2018-05-31 (PCT/EP2018/064356)  
[87] (WO2018/224389)  
[30] FI (20175510) 2017-06-05

[21] **3,065,836**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07K 16/46 (2006.01)**  
[25] EN  
[54] **AGENTS FOR CANCER THERAPY OR PROPHYLAXIS AND USES THEREFOR**  
[54] **COMBINAISON DE, OU MOLECULE DE LIAISON BISPECIFIQUE A, UN ANTAGONISTE DE MOLECULE DE POINT DE CONTROLE IMMUNITAIRE ET D'UN ANTAGONISTE RANK L (LIGAND NF-KB) POUR LA THERAPIE OU LA PROPHYLAXIE DU CANCER ET UTILISATIONS CORRESPONDANTES**  
[72] DOUGALL, BILL, AU  
[72] TENG, MICHELE, AU  
[72] AHERN, ELIZABETH, AU  
[72] SMYTH, MARK, AU  
[71] THE COUNCIL OF THE QUEENSLAND INSTITUTE OF MEDICAL RESEARCH, AU  
[85] 2019-12-02  
[86] 2018-06-05 (PCT/AU2018/050557)  
[87] (WO2018/223182)  
[30] AU (2017902125) 2017-06-05

[21] **3,065,838**  
[13] A1

[51] **Int.Cl. H04W 24/08 (2009.01)**  
[25] EN  
[54] **LINK QUALITY DETECTION METHOD AND TERMINAL DEVICE**  
[54] **PROCEDE PERMETTANT DE DETECTER UNE QUALITE DE LIAISON ET DISPOSITIF TERMINAL**  
[72] SHI, ZHIHUA, CN  
[72] CHEN, WENHONG, CN  
[72] ZHANG, ZHI, CN  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2019-12-02  
[86] 2018-02-05 (PCT/CN2018/075299)  
[87] (WO2019/148496)

[21] **3,065,839**  
[13] A1

[51] **Int.Cl. B64D 9/00 (2006.01) A47G 29/14 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR AERIAL CARGO DELIVERY**  
[54] **SYSTEME ET PROCEDE DE LIVRAISON DE MARCHANDISES PAR VOIE AERIENNE**  
[72] GOOVAERTS, BART JEAN MARIE, BE  
[72] PEETERS, IVAN JOS CHRISTINE, BE  
[72] ROTTIERS, KRIS, BE  
[71] DRONE-FUTURE BVBA, BE  
[85] 2019-12-02  
[86] 2018-06-11 (PCT/EP2018/065392)  
[87] (WO2018/224691)  
[30] EP (17175349.4) 2017-06-09

## PCT Applications Entering the National Phase

[21] **3,065,840**  
[13] A1

[51] **Int.Cl. A23P 10/30 (2016.01) A23K 20/105 (2016.01) A23K 20/111 (2016.01) A23K 20/174 (2016.01) A23K 40/30 (2016.01) A23L 33/00 (2016.01) A23L 33/15 (2016.01) A23L 33/155 (2016.01) A61K 9/50 (2006.01) B01J 13/04 (2006.01) B01J 13/06 (2006.01)**

[25] EN

[54] **FAT-SOLUBLE NUTRIENT MICROCAPSULE AND PREPARATION METHOD THEREOF**

[54] **MICROCAPSULE DE NUTRIMENT LIPOSOLUBLE ET SON PROCEDE DE FABRICATION**

[72] LI, JIANDONG, CN  
[72] HU, BAISHAN, CN  
[72] CHEN, ZHIRONG, CN  
[72] SHI, LIFANG, CN  
[72] LI, QICHUAN, CN  
[72] ZHU, XIAOYONG, CN  
[72] QIU, GUI SHENG, CN  
[72] ZHANG, QILEI, CN  
[72] YANG, YOU MIN, CN  
[72] CAI, LINPU, CN  
[71] ZHEJIANG NHU COMPANY LTD., CN  
[71] ZHEJIANG UNIVERSITY, CN  
[85] 2019-12-02  
[86] 2018-04-26 (PCT/CN2018/084596)  
[87] (WO2019/024548)  
[30] CN (201710637373.3) 2017-07-31

[21] **3,065,841**  
[13] A1

[51] **Int.Cl. G06F 3/0481 (2013.01) G06F 3/0484 (2013.01) G06F 17/00 (2019.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR ADAPTIVE DATA VISUALIZATION**

[54] **SYSTEME ET PROCEDE DE VISUALISATION ADAPTATIVE DE DONNEES**

[72] WANG, LUYU, CA  
[72] CAO, YANSHUAI, CA  
[71] ROYAL BANK OF CANADA, CA  
[85] 2019-12-02  
[86] 2018-05-08 (PCT/CA2018/050545)  
[87] (WO2018/227277)  
[30] US (62/518,386) 2016-06-12

[21] **3,065,843**  
[13] A1

[51] **Int.Cl. H04W 76/19 (2018.01)**

[25] EN

[54] **MULTI-CONNECTION RECOVERY METHOD IN NON-ACTIVATED STATE AND DEVICE THEREFOR**

[54] **PROCEDE DE RECUPERATION DE CONNEXIONS MULTIPLES DANS UN ETAT NON ACTIVE ET DISPOSITIF ASSOCIE**

[72] YANG, NING, CN  
[72] LIU, JIANHUA, CN  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2019-12-02  
[86] 2017-07-21 (PCT/CN2017/093954)  
[87] (WO2019/014948)

[21] **3,065,844**  
[13] A1

[51] **Int.Cl. H01R 4/62 (2006.01) H01R 11/12 (2006.01)**

[25] EN

[54] **JOINT BETWEEN COPPER TERMINAL AND ALUMINUM WIRE, AND MAGNETIC INDUCTION WELDING METHOD THEREFOR**

[54] **JOINT ENTRE UNE BORNE EN CUIVRE ET UN FIL D'ALUMINIUM, ET PROCEDE ASSOCIE DE SOUDAGE PAR INDUCTION MAGNETIQUE**

[72] WANG, CHAO, CN  
[71] JILIN ZHONG YING HIGH TECHNOLOGY CO., LTD., CN  
[85] 2019-12-02  
[86] 2018-05-31 (PCT/CN2018/089207)  
[87] (WO2018/223885)  
[30] CN (201710415138.1) 2017-06-05

[21] **3,065,845**  
[13] A1

[51] **Int.Cl. H04W 72/04 (2009.01)**

[25] EN

[54] **METHOD FOR PROCESSING SEMI PERSISTENT SCHEDULING, COMMUNICATION DEVICE, AND STORAGE MEDIUM**

[54] **PROCEDE DE TRAITEMENT D'ORDONNANCEMENT SEMI-PERSISTENT, DISPOSITIF DE COMMUNICATION ET SUPPORT DE STOCKAGE**

[72] TANG, HAI, CN  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2019-12-02  
[86] 2017-08-11 (PCT/CN2017/097235)  
[87] (WO2019/028890)

[21] **3,065,846**  
[13] A1

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

[25] EN

[54] **UNIVERSAL DATA SCAFFOLD BASED DATA MANAGEMENT PLATFORM**

[54] **PLATEFORME DE GESTION DE DONNEES BASEE SUR UN ECHAFAUDAGE DE DONNEES UNIVERSEL**

[72] TAYLOR, BRIAN SAMUEL, US  
[72] MURPHY, MATTHEW, US  
[72] FARIS, JAMES MICHAEL, US  
[71] THINKSPAN, LLC, US  
[85] 2019-12-02  
[86] 2018-06-01 (PCT/US2018/035711)  
[87] (WO2018/223072)  
[30] US (62/514,646) 2017-06-02

[21] **3,065,847**  
[13] A1

[51] **Int.Cl. H01R 4/62 (2006.01) H01R 4/18 (2006.01) H01R 11/12 (2006.01)**

[25] EN

[54] **COPPER-ALUMINIUM CONNECTOR**

[54] **CONNECTEUR CUIVRE-ALUMINIUM**

[72] WANG, CHAO, CN  
[71] JILIN ZHONG YING HIGH TECHNOLOGY CO., LTD., CN  
[85] 2019-12-02  
[86] 2018-05-31 (PCT/CN2018/089208)  
[87] (WO2018/223886)  
[30] CN (201720642529.2) 2017-06-05

## Demandes PCT entrant en phase nationale

[21] **3,065,848**  
[13] A1

[51] **Int.Cl. H01R 4/62 (2006.01) H01R 11/12 (2006.01) H01R 43/02 (2006.01)**  
[25] EN  
[54] **JOINT OF COPPER TERMINAL AND ALUMINIUM CONDUCTOR AND ULTRASONIC WELDING METHOD THEREOF**  
[54] **JOINT DE BORNE EN CUIVRE ET CONDUCTEUR EN ALUMINIUM ET SON PROCEDE DE SOUDAGE PAR ULTRASONS**  
[72] WANG, CHAO, CN  
[71] JILIN ZHONG YING HIGH TECHNOLOGY CO., LTD., CN  
[85] 2019-12-02  
[86] 2018-06-05 (PCT/CN2018/089927)  
[87] (WO2018/223954)  
[30] CN (201710415044.4) 2017-06-05

[21] **3,065,850**  
[13] A1

[51] **Int.Cl. A44B 19/30 (2006.01)**  
[25] EN  
[54] **ZIP FASTENER**  
[54] **FERMETURE A GLISSIERE**  
[72] RITCHIE, LUKE JAMES, CN  
[71] MRM HK LIMITED, CN  
[85] 2019-12-02  
[86] 2018-06-01 (PCT/CN2018/089607)  
[87] (WO2018/219349)  
[30] AU (2017902120) 2017-06-02

[21] **3,065,851**  
[13] A1

[51] **Int.Cl. G01N 21/17 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR MONITORING PLANT HEALTH STATE**  
[54] **PROCEDE ET APPAREIL DE SURVEILLANCE DE L'ETAT DE SANTE DE PLANTES**  
[72] LIU, BO, CN  
[71] GUANGZHOU XAIRCRAFT TECHNOLOGY CO., LTD., CN  
[85] 2019-12-02  
[86] 2018-08-15 (PCT/CN2018/100606)  
[87] (WO2019/034070)  
[30] CN (201710711878.X) 2017-08-18

[21] **3,065,852**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 19/04 (2006.01) C07K 16/00 (2006.01) C07K 16/18 (2006.01) C07K 16/46 (2006.01)**  
[25] EN  
[54] **ANTIBODY CONJUGATES OF IMMUNE-MODULATORY COMPOUNDS AND USES THEREOF**  
[54] **CONJUGUES D'ANTICORPS CONSTITUES DE COMPOSES IMMUNOMODULATEURS ET LEURS UTILISATIONS**  
[72] THOMPSON, PETER ARMSTRONG, US  
[72] EDRIS, BADREDDIN, US  
[72] COBURN, CRAIG ALAN, US  
[72] BAUM, PETER ROBERT, US  
[72] ODEGARD, VALERIE, US  
[71] SILVERBACK THERAPEUTICS, INC., US  
[85] 2019-12-02  
[86] 2018-06-07 (PCT/US2018/036554)  
[87] (WO2018/227018)  
[30] US (62/516,638) 2017-06-07

[21] **3,065,853**  
[13] A1

[51] **Int.Cl. A61M 5/20 (2006.01) A61M 5/32 (2006.01)**  
[25] EN  
[54] **MEDICAMENT DELIVERY DEVICE**  
[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**  
[72] ALEXANDERSSON, OSCAR, SE  
[71] SHL MEDICAL AG, CH  
[85] 2019-12-02  
[86] 2017-05-09 (PCT/EP2017/060965)  
[87] (WO2017/207224)  
[30] SE (1650778-2) 2016-06-03

[21] **3,065,856**  
[13] A1

[51] **Int.Cl. G01N 24/08 (2006.01) G01N 13/00 (2006.01)**  
[25] FR  
[54] **METHOD FOR MEASURING THE DIFFUSION COEFFICIENT OF WATER WITHIN A POROUS MEDIUM BY A NUCLEAR MAGNETIC RESONANCE METHOD**  
[54] **PROCEDE DE MESURE DU COEFFICIENT DE DIFFUSION DE L'EAU AU SEIN D'UN MILIEU POREUX PAR UNE METHODE DE RESONANCE MAGNETIQUE NUCLEAIRE**  
[72] FLEURY, MARC, FR  
[71] IFP ENERGIES NOUVELLES, FR  
[85] 2019-12-02  
[86] 2018-05-15 (PCT/EP2018/062583)  
[87] (WO2018/233936)  
[30] FR (1755552) 2017-06-19

[21] **3,065,857**  
[13] A1

[51] **Int.Cl. G01N 21/65 (2006.01) G01N 21/85 (2006.01) G01N 35/00 (2006.01) G01N 21/84 (2006.01) G01N 33/28 (2006.01)**  
[25] EN  
[54] **FLUID ANALYSIS AND MONITORING USING OPTICAL SPECTROSCOPY**  
[54] **ANALYSE ET SURVEILLANCE DE FLUIDE PAR SPECTROSCOPIE OPTIQUE**  
[72] YOUNG, DUSTIN, US  
[72] CHMIELEWSKI, MARK, US  
[72] MORTON, CHRIS, US  
[72] SIERS, MICHAEL, US  
[72] RUDDER, SCOTT, US  
[71] VIRTUAL FLUID MONITORING SERVICES LLC, US  
[85] 2019-11-27  
[86] 2018-06-04 (PCT/US2018/035915)  
[87] (WO2018/223147)  
[30] US (62/514,572) 2017-06-02  
[30] US (62/569,384) 2017-10-06  
[30] US (62/596,708) 2017-12-08  
[30] US (62/598,912) 2017-12-14  
[30] US (15/997,612) 2018-06-04

## PCT Applications Entering the National Phase

[21] **3,065,859**  
[13] A1

[51] **Int.Cl. G06N 3/063 (2006.01) G06N 99/00 (2019.01)**  
[25] EN  
[54] **QUANTUM NEURAL NETWORK RESEAU NEURONAL QUANTIQUE**  
[72] NEVEN, HARTMUT, US  
[72] FARHI, EDWARD HENRY, US  
[71] GOOGLE LLC, US  
[85] 2019-12-02  
[86] 2018-06-01 (PCT/US2018/035665)  
[87] (WO2018/223037)  
[30] US (62/514,475) 2017-06-02

[21] **3,065,861**  
[13] A1

[51] **Int.Cl. E21B 49/08 (2006.01) G01N 33/28 (2006.01)**  
[25] FR  
[54] **MOBILE FACILITY FOR ANALYSING A FLUID INSTALLATION MOBILE D'ANALYSE D'UN FLUIDE**  
[72] GARCIA, BRUNO, FR  
[72] BESSON, LAURENT, FR  
[71] IFP ENERGIES NOUVELLES, FR  
[71] SEMM LOGGING, FR  
[85] 2019-12-02  
[86] 2018-05-15 (PCT/EP2018/062591)  
[87] (WO2018/233937)  
[30] FR (1755645) 2017-06-21

[21] **3,065,862**  
[13] A1

[51] **Int.Cl. B01L 7/00 (2006.01) C12Q 1/6869 (2018.01)**  
[25] EN  
[54] **PREDICTING REAGENT CHILLER INSTABILITY AND FLOW CELL HEATER FAILURE IN SEQUENCING SYSTEMS PREDICTION D'INSTABILITE DE REFROIDISSEUR DE REACTIF ET DE DEFAILLANCE D'ELEMENT CHAUFFANT DE CELLULE A CIRCULATION DANS DES SYSTEMES DE SEQUENCAGE**  
[72] APKER, GREGORY, US  
[71] ILLUMINA, INC., US  
[85] 2019-12-02  
[86] 2019-01-03 (PCT/US2019/012216)  
[87] (WO2019/136173)  
[30] US (62/613,910) 2018-01-05  
[30] US (16/239,342) 2019-01-03

[21] **3,065,864**  
[13] A1

[51] **Int.Cl. B61B 12/00 (2006.01)**  
[25] EN  
[54] **CABLE-DRAWN TRANSPORTATION DEVICE AND METHOD FOR OPERATING A CABLE-DRAWN TRANSPORTATION DEVICE SYSTEME DE TRANSPORT A TRACTION PAR CABLE ET PROCEDE POUR FAIRE FONCTIONNER CE SYSTEME**  
[72] HEINZLE, FLORIAN, AT  
[72] KOHLER, CHRISTOF, AT  
[71] INNOVA PATENT GMBH, AT  
[85] 2019-12-02  
[86] 2018-05-30 (PCT/EP2018/064194)  
[87] (WO2018/220016)  
[30] AT (A50464/2017) 2017-06-02

[21] **3,065,865**  
[13] A1

[51] **Int.Cl. B66F 7/06 (2006.01) B66C 7/02 (2006.01) B66C 11/06 (2006.01)**  
[25] EN  
[54] **PALLETISING ROBOT WITH A PIVOTING LIFTING DRIVE ROBOT PALETTISEUR A SYSTEME DE LEVAGE ET PIVOTEMENT**  
[72] STEHR, ROLAND, DE  
[71] DUCKER GROUP GMBH, DE  
[85] 2019-12-02  
[86] 2018-06-04 (PCT/EP2018/064614)  
[87] (WO2018/220227)  
[30] DE (10 2017 112 238.9) 2017-06-02

[21] **3,065,866**  
[13] A1

[51] **Int.Cl. B03B 9/06 (2006.01) E21B 21/06 (2006.01)**  
[25] EN  
[54] **SLURRY HANDLING APPARATUS APPAREIL DE MANIPULATION DE BOUE**  
[72] HUMPHREY, ALEX, GB  
[72] EASTWOOD, DARREN, GB  
[71] CDENVIRO LIMITED, GB  
[85] 2019-12-02  
[86] 2018-05-22 (PCT/EP2018/063330)  
[87] (WO2018/224298)  
[30] GB (1708952.5) 2017-06-06  
[30] GB (1720848.9) 2017-12-14

[21] **3,065,867**  
[13] A1

[51] **Int.Cl. B66C 7/02 (2006.01) B25J 15/06 (2006.01) B65G 49/00 (2006.01) B66C 1/02 (2006.01) B66C 11/06 (2006.01) B66F 7/06 (2006.01)**  
[25] EN  
[54] **PALLET ROBOT HAVING SCISSOR-LIFT MEMBERS ROBOT PALETTISEUR COMPRENANT DES SEGMENTS DE CISEAU ELEVATEUR**  
[72] STEHR, ROLAND, DE  
[71] DUCKER GROUP GMBH, DE  
[85] 2019-12-02  
[86] 2018-06-04 (PCT/EP2018/064625)  
[87] (WO2018/220229)  
[30] DE (10 2017 112 240.0) 2017-06-02

[21] **3,065,868**  
[13] A1

[51] **Int.Cl. C07K 16/32 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01)**  
[25] EN  
[54] **HETERO-DIMERIC MULTI-SPECIFIC ANTIBODY FORMAT TARGETING AT LEAST CD3 AND HSA FORMAT D'ANTICORPS HETERODIMERE MULTISPECIFIQUE CIBLANT AU MOINS CD3 ET HSA**  
[72] URECH, DAVID, CH  
[72] GUNDE, TEA, CH  
[72] MEYER, SEBASTIAN, CH  
[72] HESS, CHRISTIAN, CH  
[72] SIMONIN, ALEXANDRE, FR  
[71] NUMAB THERAPEUTICS AG, CH  
[85] 2019-12-02  
[86] 2018-06-04 (PCT/EP2018/064633)  
[87] (WO2018/224443)  
[30] US (62/515,293) 2017-06-05

[21] **3,065,869**  
[13] A1

[51] **Int.Cl. B66F 7/06 (2006.01) B66C 7/02 (2006.01) B66C 11/06 (2006.01)**  
[25] EN  
[54] **PALLET ROBOT HAVING A GRIPPING TOOL ROBOT PALETTISEUR DOTE D'UN OUTIL DE PREHENSION**  
[72] STEHR, ROLAND, DE  
[71] DUCKER GROUP GMBH, DE  
[85] 2019-12-02  
[86] 2018-06-04 (PCT/EP2018/064636)  
[87] (WO2018/220230)  
[30] DE (10 2017 112 239.7) 2017-06-02

## Demandes PCT entrant en phase nationale

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[21] **3,065,874**  
[13] A1

[51] **Int.Cl. C07D 417/12 (2006.01) A61K 31/427 (2006.01) A61P 35/00 (2006.01) C07D 417/14 (2006.01)**

[25] EN  
[54] **COMPOUNDS**  
[54] **COMPOSES**

[72] JAESCHKE, GEORG, CH  
[72] RICCI, ANTONIO, CH  
[72] RUEHER, DANIEL, CH  
[72] STEINER, SANDRA, CH  
[72] DUPLESSIS, MARTIN, US  
[72] NAGEL, YVONNE ALICE, CH  
[72] KUHN, BERND, CH  
[71] F. HOFFMAN-LA ROCHE AG, CH  
[85] 2019-12-02  
[86] 2018-06-01 (PCT/EP2018/064399)  
[87] (WO2018/220149)  
[30] EP (17174334.7) 2017-06-02  
[30] US (62/514,244) 2017-06-02  
[30] US (62/543,438) 2017-08-10

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[21] **3,065,875**  
[13] A1

[51] **Int.Cl. E05D 7/04 (2006.01) E05D 7/12 (2006.01)**

[25] EN  
[54] **HINGE**  
[54] **CHARNIERE**

[72] SANDER, FELIX, DE  
[71] HETTICH-ONI GMBH & CO. KG, DE  
[85] 2019-12-02  
[86] 2018-06-01 (PCT/EP2018/064446)  
[87] (WO2018/224402)  
[30] DE (10 2017 112 767.4) 2017-06-09

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[21] **3,065,878**  
[13] A1

[51] **Int.Cl. G02C 13/00 (2006.01) G06T 19/00 (2011.01) G06T 19/20 (2011.01) G06Q 30/06 (2012.01) G06T 7/10 (2017.01) A61B 5/107 (2006.01) G06T 17/00 (2006.01)**

[25] EN  
[54] **METHOD, DEVICE AND COMPUTER PROGRAM FOR VIRTUALLY ADJUSTING THE SPECTACLE FRAME**

[54] **PROCEDE, DISPOSITIF ET PROGRAMME INFORMATIQUE POUR ADAPTER VIRTUELLEMENT UNE MONTURE DE LUNETTES**

[72] SCHWARZ, OLIVER, DE  
[72] IHRKE, IVO, DE  
[71] CARL ZEISS VISION INTERNATIONAL GMBH, DE  
[85] 2019-12-02  
[86] 2018-06-01 (PCT/EP2018/064519)  
[87] (WO2018/220203)  
[30] EP (17173929.5) 2017-06-01

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[21] **3,065,880**  
[13] A1

[51] **Int.Cl. C01B 3/02 (2006.01) C01C 1/04 (2006.01) F25B 15/06 (2006.01)**

[25] EN  
[54] **A PLANT, SUCH AS AMMONIA PLANT, COMPRISING AN ABSORPTION REFRIGERATION UNIT**

[54] **INSTALLATION, TELLE QU'UNE INSTALLATION D'AMMONIAC, COMPRENANT UNE UNITE DE REFRIGERATION PAR ABSORPTION**

[72] CARLUCCI MAZZAMUTO, MARCO, IT  
[72] PANZA, SERGIO, IT  
[72] GAMBA, SIMONE, IT  
[71] CASALE SA, CH  
[85] 2019-12-02  
[86] 2018-06-05 (PCT/EP2018/064678)  
[87] (WO2018/228851)  
[30] EP (17176411.1) 2017-06-16

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[21] **3,065,881**  
[13] A1

[51] **Int.Cl. C08L 23/12 (2006.01) C08L 23/08 (2006.01)**

[25] EN  
[54] **POLYPROPYLENE COMPOSITION WITH EXCELLENT SURFACE APPEARANCE**

[54] **COMPOSITION DE POLYPROPYLENE PRESENTANT UNE EXCELLENTE APPARENCE DE SURFACE**

[72] LUMMERSTORFER, THOMAS, AT  
[72] MILEVA, DANIELA, AT  
[72] GRESTENBERGER, GEORG, AT  
[71] BOREALIS AG, AT  
[85] 2019-12-02  
[86] 2018-06-21 (PCT/EP2018/066547)  
[87] (WO2019/002078)  
[30] EP (17177842.6) 2017-06-26  
[30] EP (18159755.0) 2018-03-02

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[21] **3,065,883**  
[13] A1

[51] **Int.Cl. H02J 3/38 (2006.01) H02J 3/46 (2006.01)**

[25] EN  
[54] **METHOD FOR SUPPLYING ELECTRIC POWER INTO AN ELECTRIC SUPPLY NETWORK BY MEANS OF A CONVERTER-CONTROLLED SUPPLY DEVICE**

[54] **PROCEDE D'INJECTION DE LA PUISSANCE ELECTRIQUE DANS UN RESEAU D'ALIMENTATION ELECTRIQUE AU MOYEN D'UN DISPOSITIF D'INJECTION COMMANDE PAR UN CONVERTISSEUR**

[72] BROMBACH, JOHANNES, DE  
[71] WOBEN PROPERTIES GMBH, DE  
[85] 2019-12-02  
[86] 2018-06-07 (PCT/EP2018/065028)  
[87] (WO2018/228917)  
[30] DE (10 2017 113 006.3) 2017-06-13

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## PCT Applications Entering the National Phase

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[21] **3,065,885**  
[13] A1

[51] **Int.Cl. A61F 2/50 (2006.01)**  
[25] EN  
[54] **MEDICAL APPATATUS FOR GENERATING A DATA MODEL OF A LIMB STUMP, SET, METHOD AND ADHERENT STOCKING OR SENSOR ARRANGEMENT**

[54] **DISPOSITIF MEDICAL POUR REALISER UN MODELE DE DONNEES D'UN MOIGNON D'UN MEMBRE CORPOREL, ENSEMBLE, PROCEDE ET BAS ADHESIF OU DISPOSITIF DE CAPTEUR**

[72] RADSPIELER, ANDREAS, DE  
[71] RADSPIELER, ANDREAS, DE  
[85] 2019-12-02  
[86] 2018-06-21 (PCT/EP2018/066636)  
[87] (WO2018/234486)  
[30] DE (10 2017 114 001.8) 2017-06-23  
[30] DE (10 2018 100 704.3) 2018-01-14

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[21] **3,065,886**  
[13] A1

[51] **Int.Cl. C08C 19/25 (2006.01) C08C 19/44 (2006.01) C08L 9/00 (2006.01) C08L 47/00 (2006.01)**

[25] EN  
[54] **SILANE FUNCTIONALIZED POLY (FARNESENE) AND RUBBER COMPOUND COMPRISING THE SAME**

[54] **POLY (FARNESENE) A FONCTION SILANE ET COMPOSE DE CAOUTCHOUC LE COMPRENANT**

[72] HENNING, STEVEN K., US  
[72] MONSALLIER, JEAN-MARC, FR  
[72] TIAN, NAN, US  
[71] FINA TECHNOLOGY, INC., US  
[85] 2019-11-29  
[86] 2018-05-22 (PCT/US2018/033849)  
[87] (WO2018/226396)  
[30] US (15/616,169) 2017-06-07

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[21] **3,065,887**  
[13] A1

[51] **Int.Cl. A61B 18/18 (2006.01)**  
[25] EN  
[54] **APPARATUS FOR THERMALLY TREATING LIGAMENTS**

[54] **APPAREIL POUR LE TRAITEMENT THERMIQUE DES LIGAMENTS**

[72] HANCOCK, CHRISTOPHER PAUL, GB  
[72] BURN, PATRICK, GB  
[72] GEOGHEGAN, LEIF, GB  
[71] CREO MEDICAL LIMITED, GB  
[85] 2019-12-02  
[86] 2018-07-03 (PCT/EP2018/067996)  
[87] (WO2019/007984)  
[30] GB (1710793.9) 2017-07-05

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[21] **3,065,888**  
[13] A1

[51] **Int.Cl. G10L 21/034 (2013.01) G10L 25/21 (2013.01) G06F 3/16 (2006.01) G10L 15/22 (2006.01) H03G 3/32 (2006.01) G10L 21/10 (2013.01)**

[25] EN  
[54] **SYSTEMS AND METHODS FOR GENERATING A VOLUME-BASED RESPONSE FOR MULTIPLE VOICE-OPERATED USER DEVICES**

[54] **SYSTEMES ET PROCEDES PERMETTANT DE GENERER UNE REPNSE BASEE SUR LE VOLUME POUR DE MULTIPLES DISPOSITIFS UTILISATEURS A COMMANDE VOCALE**

[72] MCCARTY, MICHAEL, US  
[72] ROE, GLEN E., US  
[71] ROVI GUIDES, INC., US  
[85] 2019-11-29  
[86] 2018-05-23 (PCT/US2018/034080)  
[87] (WO2018/222456)  
[30] US (15/612,516) 2017-06-02

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[21] **3,065,889**  
[13] A1

[51] **Int.Cl. C02F 1/68 (2006.01) C02F 1/66 (2006.01)**  
[25] EN  
[54] **METHOD FOR INCREASING THE MAGNESIUM ION CONCENTRATION IN FEED WATER**

[54] **PROCEDE POUR AUGMENTER LA CONCENTRATION D'IONS MAGNESIUM DANS DE L'EAU D'ALIMENTATION**

[72] NELSON, NICHOLAS CHARLES, CH  
[72] SCHMID, MARIUS, CH  
[71] OMYA INTERNATIONAL AG, CH  
[85] 2019-12-02  
[86] 2018-07-06 (PCT/EP2018/068342)  
[87] (WO2019/011796)  
[30] EP (17181016.1) 2017-07-12  
[30] US (62/534,268) 2017-07-19

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[21] **3,065,890**  
[13] A1

[51] **Int.Cl. C02F 1/68 (2006.01) C02F 1/66 (2006.01)**  
[25] EN  
[54] **METHOD FOR INCREASING THE MAGNESIUM ION CONCENTRATION IN FEED WATER**

[54] **PROCEDE POUR AUGMENTER LA CONCENTRATION D'IONS MAGNESIUM DANS L'EAU D'ALIMENTATION**

[72] NELSON, NICHOLAS CHARLES, CH  
[72] SCHMID, MARIUS, CH  
[71] OMYA INTERNATIONAL AG, CH  
[85] 2019-12-02  
[86] 2018-07-10 (PCT/EP2018/068678)  
[87] (WO2019/011921)  
[30] EP (17181019.5) 2017-07-12  
[30] US (62/534,269) 2017-07-19

## Demandes PCT entrant en phase nationale

[21] **3,065,891**  
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01)**  
[25] EN  
[54] **METHOD FOR ESTIMATING SHAPE PARAMETERS OF THE FOVEA BY OPTICAL COHERENCE TOMOGRAPHY**  
[54] **PROCEDE D'ESTIMATION DE PARAMETRES DE FORME DE LA FOVEA PAR TOMOGRAPHIE PAR COHERENCE OPTIQUE**  
[72] BRANDT, ALEXANDER, DE  
[72] KADAS, ELLA MARIA, DE  
[72] YADAV, SUNIL YUMAR, DE  
[72] MOTAMEDI, SEYEDAMIRHOSEIN, DE  
[72] FRIEDEMANN, PAUL, DE  
[71] CHARITE UNIVERSITATSMEDIZIN BERLIN, DE  
[85] 2019-12-02  
[86] 2018-07-19 (PCT/EP2018/069640)  
[87] (WO2019/016319)  
[30] EP (17182192.9) 2017-07-19

[21] **3,065,892**  
[13] A1

[51] **Int.Cl. G01S 17/95 (2006.01) G01S 17/58 (2006.01)**  
[25] FR  
[54] **METHOD FOR ACQUIRING AND MODELLING AN INCIDENT WIND FIELD BY MEANS OF A LIDAR SENSOR**  
[54] **PROCEDE D'ACQUISITION ET DE MODELISATION PAR UN CAPTEUR LIDAR D'UN CHAMP DE VENT INCIDENT**  
[72] NGUYEN, HOAI-NAM, FR  
[72] GUILLEMIN, FABRICE, FR  
[71] IFP ENERGIES NOUVELLES, FR  
[85] 2019-12-02  
[86] 2018-06-20 (PCT/EP2018/066478)  
[87] (WO2018/234409)  
[30] FR (1755675) 2017-06-21

[21] **3,065,893**  
[13] A1

[51] **Int.Cl. A61K 31/554 (2006.01) A61P 9/10 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS FOR THE TREATMENT OF ISCHEMIC ULCERS AND STRETCH MARKS**  
[54] **COMPOSITIONS POUR LE TRAITEMENT DE STRIES ET D'ULCERES D'ORIGINE ISCHEMIQUE**  
[72] BERNABEU WITTEL, JOSE, ES  
[72] CABRERA FUENTES, RAQUEL, ES  
[71] SERVICIO ANDALUZ DE SALUD, ES  
[85] 2019-12-02  
[86] 2017-06-23 (PCT/ES2017/070460)  
[87] (WO2017/220845)  
[30] ES (P201630856) 2016-06-23

[21] **3,065,894**  
[13] A1

[51] **Int.Cl. E04F 15/02 (2006.01)**  
[25] EN  
[54] **DEVICE FOR LOCKING TWO FLOOR PANELS**  
[54] **SYSTEME POUR ENCLIQUETER DEUX PANNEAUX DE SOL**  
[72] GRAFENAUER, THOMAS, DE  
[71] FALQUON GMBH, DE  
[85] 2019-11-13  
[86] 2018-05-18 (PCT/EP2018/063032)  
[87] (WO2018/211054)  
[30] DE (10 2017 110 878.5) 2017-05-18  
[30] DE (10 2017 110 880.7) 2017-05-18

[21] **3,065,895**  
[13] A1

[51] **Int.Cl. A24F 47/00 (2006.01) G01K 7/02 (2006.01)**  
[25] EN  
[54] **ELECTRONIC VAPOUR PROVISION SYSTEM**  
[54] **SYSTEME DE FOURNITURE DE VAPEUR ELECTRONIQUE**  
[72] MULLIN, MARTIN CONRAD, GB  
[72] BLANDINO, THOMAS P., US  
[72] SCHOFIELD, BOB, US  
[71] NICOVENTURES HOLDINGS LIMITED, GB  
[85] 2019-12-02  
[86] 2018-06-20 (PCT/GB2018/051713)  
[87] (WO2018/234792)  
[30] GB (1709982.1) 2017-06-22

[21] **3,065,896**  
[13] A1

[51] **Int.Cl. C09D 5/02 (2006.01) C09D 163/00 (2006.01) C09D 175/04 (2006.01)**  
[25] EN  
[54] **A METHOD FOR PREVENTING HARDENER COMPOUNDS TO BE FORMED FROM HARDENER PRECURSORS AND EXTENDING SHELF LIFE OF THE DISPERSION**  
[54] **PROCEDE DE PREVENTION DE LA FORMATION DE COMPOSES DURCISSEURS A PARTIR DE PRECURSEURS DE DURCISSEURS ET EXTENSION DE LA DUREE DE CONSERVATION DE LA DISPERSION**  
[72] VAN DER NET, HENDRIK, NL  
[71] MASTON OY, FI  
[85] 2019-12-02  
[86] 2018-06-11 (PCT/FI2018/050437)  
[87] (WO2018/224737)  
[30] FI (20175535) 2017-06-09

[21] **3,065,898**  
[13] A1

[51] **Int.Cl. C07D 471/10 (2006.01) A61K 31/395 (2006.01) A61K 31/4155 (2006.01) A61K 31/438 (2006.01) A61K 31/4439 (2006.01) A61K 31/454 (2006.01) A61K 31/5386 (2006.01) C07D 231/40 (2006.01) C07D 401/06 (2006.01) C07D 401/14 (2006.01) C07D 409/12 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 487/04 (2006.01) C07D 491/048 (2006.01) C07D 491/107 (2006.01) C07D 498/12 (2006.01) C07D 519/00 (2006.01)**  
[25] EN  
[54] **PYRAZOLE MAGL INHIBITORS**  
[54] **INHIBITEURS DE MAGL A BASE DE PYRAZOLE**  
[72] GRICE, CHERYL A., US  
[72] WEBER, OLIVIA D., US  
[72] BUZARD, DANIEL J., US  
[72] SHAGHAFI, MICHAEL B., US  
[72] WIENER, JOHN J. M., US  
[72] CISAR, JUSTIN S., US  
[72] DUNCAN, KATHARINE K., US  
[71] LUNDBECK LA JOLLA RESEARCH CENTER, INC., US  
[85] 2019-11-15  
[86] 2018-05-22 (PCT/US2018/033964)  
[87] (WO2018/217809)  
[30] US (62/510,223) 2017-05-23

## PCT Applications Entering the National Phase

[21] **3,065,899**  
[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01) H04N 21/23 (2011.01) H04N 21/60 (2011.01) H04N 19/00 (2014.01) H04N 19/117 (2014.01) H04N 19/132 (2014.01) H04N 19/136 (2014.01) H04N 19/186 (2014.01) G06T 1/60 (2006.01) H04N 9/64 (2006.01)**

[25] EN

[54] **REGROUPING OF VIDEO DATA BY A NETWORK INTERFACE CONTROLLER**

[54] **REGROUPEMENT DE DONNEES VIDEO PAR UN CONTROLEUR D'INTERFACE DE RESEAU**

[72] LEVI, DOTAN, IL  
[72] KAGAN, MICHAEL, IL  
[71] MELLANOX TECHNOLOGIES, LTD., IL  
[85] 2019-12-02  
[86] 2018-06-14 (PCT/IB2018/054350)  
[87] (WO2018/229697)  
[30] US (15/622,094) 2017-06-14

[21] **3,065,901**  
[13] A1

[51] **Int.Cl. A23L 2/38 (2006.01) A23F 5/24 (2006.01) A23F 5/38 (2006.01) A23G 9/04 (2006.01)**

[25] EN

[54] **ALTERNATIVE FREEZING METHODS FOR LIQUID FROZEN CONTENTS**

[54] **PROCEDES ALTERNATIFS DE CONGELATION POUR CONTENUS LIQUIDES CONGELES**

[72] ROBERTS, MATTHEW P., US  
[72] HOON, DOUGLAS M., US  
[72] WINKLER, KARL, US  
[71] MELTZ, LLC, US  
[85] 2019-12-02  
[86] 2018-05-30 (PCT/US2018/035073)  
[87] (WO2018/222677)  
[30] US (62/512,440) 2017-05-30  
[30] US (62/534,829) 2017-07-20

[21] **3,065,903**  
[13] A1

[51] **Int.Cl. A61K 35/747 (2015.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01)**

[25] EN

[54] **USE OF LACTIC ACID BACTERIA TO TREAT OR PREVENT AT LEAST ONE OF POSTNATAL DEPRESSION AND POSTNATAL ANXIETY**

[54] **UTILISATION DE BACTERIES D'ACIDE LACTIQUE PERMETTANT DE TRAITER OU PREVENIR LA DEPRESSION POSTNATALE ET/OU L'ANXIETE POSTNATALE**

[72] MITCHELL, EDWIN ARTHUR, NZ  
[72] SLYKERMAN, REBECCA, NZ  
[72] STANLEY, THORSTEN VILLIERS, NZ  
[71] UNIVERSITY OF OTAGO, NZ  
[85] 2019-12-02  
[86] 2017-06-02 (PCT/IB2017/053263)  
[87] (WO2018/220429)

[21] **3,065,900**  
[13] A1

[51] **Int.Cl. C07H 15/224 (2006.01) A61P 21/00 (2006.01) A61P 21/04 (2006.01) C07H 15/222 (2006.01) C07H 15/23 (2006.01)**

[25] EN

[54] **AMINOGLYCOSIDE DERIVATIVES AND USES THEREOF IN TREATING GENETIC DISORDERS**

[54] **DERIVES D'AMINOGLYCOSIDES ET LEURS UTILISATIONS DANS LE TRAITEMENT DE TROUBLES GENETIQUES**

[72] BAASOV, TIMOR, IL  
[72] FIRZON, VERA, IL  
[72] BELAKHOV, VALERY, IL  
[72] EYLON, BAT-HEN, IL  
[71] ELOXX PHARMACEUTICALS LTD., IL  
[85] 2019-12-02  
[86] 2018-06-05 (PCT/IL2018/050612)  
[87] (WO2018/225065)  
[30] US (62/515,021) 2017-06-05

[21] **3,065,902**  
[13] A1

[51] **Int.Cl. E01C 11/26 (2006.01)**

[25] FR

[54] **METHOD FOR PRODUCING A ROAD SURFACE COMPRISING A HEAT EXCHANGER DEVICE**

[54] **PROCEDE DE FABRICATION D'UN REVETEMENT DE VOIRIES COMPRENANT UN DISPOSITIF POUR ECHANGEUR DE CHALEUR**

[72] POUTEAU, BERTRAND, FR  
[72] BERRADA, KAMAL, FR  
[72] VERGNE, SANDRINE, FR  
[71] EUROVIA, FR  
[85] 2019-12-02  
[86] 2018-06-07 (PCT/FR2018/051317)  
[87] (WO2018/224781)  
[30] FR (1755039) 2017-06-07

[21] **3,065,904**  
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/403 (2006.01) A61P 25/28 (2006.01) C07D 401/08 (2006.01) C07D 403/04 (2006.01) C07D 403/14 (2006.01) C07D 417/14 (2006.01) C07D 491/107 (2006.01) C07D 498/08 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOUNDS**

[54] **COMPOSES PHARMACEUTIQUES**

[72] BROWN, GILES ALBERT, GB  
[72] CANSFIELD, JULIE, GB  
[72] CONGREVE, MILES STUART, GB  
[72] TEHAN, BENJAMIN GERALD, GB  
[72] TEOBALD, BARRY JOHN, GB  
[71] HEPTARES THERAPEUTICS LIMITED, GB  
[85] 2019-12-02  
[86] 2018-06-18 (PCT/GB2018/051676)  
[87] (WO2018/229511)  
[30] GB (1709652.0) 2017-06-16

## Demandes PCT entrant en phase nationale

[21] **3,065,905**  
[13] A1

[51] **Int.Cl. A61B 5/16 (2006.01) A61B 5/02 (2006.01)**

[25] EN

[54] **METHOD OF PREPARING RECOMMENDATIONS FOR TAKING DECISIONS ON THE BASIS OF A COMPUTERIZED ASSESSMENT OF THE CAPABILITIES OF USERS**

[54] **PROCEDE POUR PREPARER DES RECOMMANDATIONS EN MATIERE DE PRISE DE DECISIONS A BASE D'UNE EVALUATION INFORMATISEE DES CAPACITES DES UTILISATEURS**

[72] MIKHAILOV, IGOR' VALENTINOVICH, RU

[71] WEHIREAI INC., US

[85] 2019-11-26

[86] 2017-10-27 (PCT/RU2017/000791)

[87] (WO2019/083392)

[30] RU (2017137534) 2017-10-27

[21] **3,065,906**  
[13] A1

[51] **Int.Cl. B64C 27/22 (2006.01) B64C 37/00 (2006.01)**

[25] EN

[54] **VEHICLE SYSTEM**

[54] **SYSTEME DE VEHICULE**

[72] BAHARAV, EHUD, IL

[72] TEL OREN, NIR, IL

[71] ISRAEL AEROSPACE INDUSTRIES LTD., IL

[85] 2019-12-02

[86] 2018-06-10 (PCT/IL2018/050633)

[87] (WO2018/229753)

[30] IL (252845) 2017-06-12

[21] **3,065,908**  
[13] A1

[51] **Int.Cl. C07F 3/00 (2006.01) C07F 3/08 (2006.01)**

[25] EN

[54] **ORGANOMETALLIC COMPLEXES AND RELATED COMPOSITIONS AND METHODS**

[54] **COMPLEXES ORGANOMETALLIQUES ET COMPOSITIONS ET PROCEDES APPARENTES**

[72] KREUTZ, FERNANDO THOME, BR

[72] DA SILVA, CAMERON CAPELETTI, BR

[72] MARTINS, FELIPE TERRA, BR

[72] MAIA, LAURO JUNE QUEIROZ, BR

[72] DO NASCIMENTO NETO, JOSE ANTONIO, BR

[71] KREUTZ, FERNANDO THOME, BR

[85] 2019-12-02

[86] 2018-04-28 (PCT/IB2018/052957)

[87] (WO2018/198096)

[30] US (62/491,754) 2017-04-28

[21] **3,065,910**  
[13] A1

[51] **Int.Cl. A61K 31/5517 (2006.01) A61P 13/12 (2006.01)**

[25] EN

[54] **FORMULATIONS OF LIXIVAPTAN FOR THE TREATMENT OF POLYCYSTIC DISEASE**

[54] **FORMULATIONS DE LIXIVAPTAN POUR LE TRAITEMENT DE LA POLYKYSTOSE**

[72] PELLEGRINI, LORENZO, US

[71] PALLADIO BIOSCIENCES, INC., US

[85] 2019-12-02

[86] 2018-06-08 (PCT/US2018/036719)

[87] (WO2018/227128)

[30] US (62/517,793) 2017-06-09

[30] US (62/580,167) 2017-11-01

[21] **3,065,911**  
[13] A1

[51] **Int.Cl. G06F 17/27 (2006.01) G06F 17/00 (2019.01) G06F 17/24 (2006.01) G06F 17/28 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR WORD FILTERING IN LANGUAGE MODELS**

[54] **SYSTEMES ET PROCEDES DE FILTRAGE DE MOTS DANS DES MODELES LINGUISTIQUES**

[72] WOLNIEWICZ, RICHARD H., US

[72] PETERSON, KELLY S., US

[71] 3M INNOVATIVE PROPERTIES COMPANY, US

[85] 2019-12-02

[86] 2018-06-01 (PCT/IB2018/053955)

[87] (WO2018/224936)

[30] US (62/516,934) 2017-06-08

[21] **3,065,913**  
[13] A1

[51] **Int.Cl. G06F 11/34 (2006.01) G06F 11/07 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DETECTING ANOMALIES IN EXECUTION OF COMPUTER PROGRAMS**

[54] **SYSTEMES ET PROCEDES DE DETECTION D'ANOMALIES DANS L'EXECUTION DE PROGRAMMES INFORMATIQUES**

[72] JAIN, NISHANT KUMAR, IN

[72] MURTY, ROHAN NARAYAN, IN

[72] NYCHIS, GEORGE PETER, US

[72] GUPTA, HARSH, IN

[72] KIM, YOONGU, US

[71] SOROCO PRIVATE LIMITED, GB

[71] SOROCO AMERICAS PRIVATE LIMITED, US

[71] SOROCO INDIA PRIVATE LIMITED, IN

[71] JAIN, NISHANT KUMAR, IN

[71] MURTY, ROHAN NARAYAN, IN

[71] NYCHIS, GEORGE PETER, US

[71] GUPTA, HARSH, IN

[71] KIM, YOONGU, US

[85] 2019-12-02

[86] 2018-05-01 (PCT/US2018/030422)

[87] (WO2018/204345)

[30] US (62/500,048) 2017-05-02

[30] US (62/561,139) 2017-09-20

## PCT Applications Entering the National Phase

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[21] **3,065,914**  
[13] A1

[51] **Int.Cl. H04N 19/593 (2014.01) H04N 19/122 (2014.01) H04N 19/176 (2014.01) H04N 19/186 (2014.01)**

[25] EN

[54] **VIDEO SIGNAL PROCESSING METHOD AND DEVICE**

[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT DE SIGNAL VIDEO**

[72] LEE, BAE KEUN, KR

[71] KT CORPORATION, KR

[85] 2019-12-02

[86] 2018-09-20 (PCT/KR2018/011162)

[87] (WO2019/059681)

[30] KR (10-2017-0122110) 2017-09-21

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[21] **3,065,915**  
[13] A1

[51] **Int.Cl. C07D 271/12 (2006.01) A01N 43/836 (2006.01) A01P 7/02 (2006.01) A01P 7/04 (2006.01) A61K 31/4245 (2006.01) A61P 33/14 (2006.01) C07D 498/10 (2006.01)**

[25] EN

[54] **OXADIAZOLINE COMPOUND AND FORMULATION FOR CONTROLLING HARMFUL ORGANISMS**

[54] **COMPOSE OXADIAZOLINE ET AGENT DE LUTTE CONTRE LES ORGANISMES NUISIBLES**

[72] SHIBAYAMA, KOTARO, JP

[72] SUZUKI, HIROTO, JP

[72] IWASA, TAKAO, JP

[72] HIRATA, KOICHI, JP

[72] KIYOTA, RYUTARO, JP

[71] NIPPON SODA CO., LTD., JP

[85] 2019-12-02

[86] 2018-06-12 (PCT/JP2018/022389)

[87] (WO2018/230555)

[30] JP (2017-116852) 2017-06-14

[30] JP (2017-125842) 2017-06-28

[30] JP (2017-134971) 2017-07-10

[30] JP (2017-149700) 2017-08-02

[30] JP (2017-183870) 2017-09-25

[30] JP (2017-200523) 2017-10-16

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[21] **3,065,916**  
[13] A1

[51] **Int.Cl. C07D 307/92 (2006.01) C07C 59/82 (2006.01) C07C 69/732 (2006.01) C07C 69/738 (2006.01)**

[25] EN

[54] **METHOD OF PRODUCING EPD AND ANALOGUES THEREOF**

[54] **PROCEDE DE PRODUCTION D'EPD ET D'ANALOGUES DE CELUI-CI**

[72] VAN HAAFTEN, CAROLINE, NL

[71] VAN HAAFTEN, CAROLINE, NL

[85] 2019-12-02

[86] 2018-06-08 (PCT/NL2018/050377)

[87] (WO2018/226102)

[30] NL (2019035) 2017-06-08

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[21] **3,065,918**  
[13] A1

[51] **Int.Cl. B07B 4/00 (2006.01) B09B 3/00 (2006.01)**

[25] EN

[54] **SINGLE STREAM OF AIR FOR SEPARATING MIXED WASTE STREAM INTO THREE FRACTIONS**

[54] **FLUX D'AIR UNIQUE POUR SEPARER UN FLUX DE DECHETS MELANGES EN TROIS FRACTIONS**

[72] SKINNER, MATTHEW J., US

[71] TIGERCAT INDUSTRIES INC., CA

[71] TIGERCAT INDUSTRIES INC., CA

[85] 2019-12-02

[86] 2018-05-25 (PCT/US2018/034585)

[87] (WO2018/222519)

[30] US (15/611,977) 2017-06-02

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[21] **3,065,919**  
[13] A1

[51] **Int.Cl. A61K 31/4025 (2006.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01)**

[25] EN

[54] **ANTIBODY CONSTRUCT CONJUGATES**

[54] **CONJUGUES DE CONSTRUCTION D'ANTICORPS**

[72] THOMPSON, PETER ARMSTRONG, US

[72] EDRIS, BADREDDIN, US

[72] COBURN, CRAIG ALAN, US

[72] BAUM, PETER ROBERT, US

[71] SILVERBACK THERAPEUTICS, INC., US

[85] 2019-12-02

[86] 2018-06-07 (PCT/US2018/036560)

[87] (WO2018/227023)

[30] US (62/516,667) 2017-06-07

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[21] **3,065,921**  
[13] A1

[51] **Int.Cl. G06F 3/048 (2013.01) G06Q 40/04 (2012.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR GENERATING A GRAPHICAL USER INTERFACE DISPLAYING PARTICIPANT PERFORMANCE INFORMATION**

[54] **SYSTEMES ET PROCEDES POUR GENERER UNE INTERFACE UTILISATEUR GRAPHIQUE AFFICHANT DES INFORMATIONS DE PERFORMANCES DE PARTICIPANT**

[72] ASLLAN, SAKER, SE

[72] O'BRIEN, MICHAEL, SE

[71] NASDAQ TECHNOLOGY AB, SE

[85] 2019-12-02

[86] 2018-06-01 (PCT/SE2018/050564)

[87] (WO2018/222128)

[30] US (62/514,451) 2017-06-02

[30] US (15/994,792) 2018-05-31

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[21] **3,065,922**  
[13] A1

[51] **Int.Cl. H04N 19/593 (2014.01) H04N 19/122 (2014.01) H04N 19/176 (2014.01) H04N 19/186 (2014.01)**

[25] EN

[54] **METHOD AND DEVICE FOR PROCESSING VIDEO SIGNAL**

[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT DE SIGNAL VIDEO**

[72] LEE, BAE KEUN, KR

[71] KT CORPORATION, KR

[85] 2019-12-02

[86] 2018-09-06 (PCT/KR2018/010414)

[87] (WO2019/050292)

[30] KR (10-2017-0115268) 2017-09-08

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## Demandes PCT entrant en phase nationale

[21] **3,065,923**  
[13] A1

[51] **Int.Cl. A01G 23/091 (2006.01) B27B 17/02 (2006.01) B27B 17/14 (2006.01)**

[25] EN

[54] **ARRANGEMENT FOR REPLACING A SAW CHAIN ON A MOTOR SAW**

[54] **AGENCEMENT POUR LE REMPLACEMENT D'UNE CHAINE COUPANTE SUR UNE SCIE A MOTEUR**

[72] FALK, CURT, SE  
[72] SORELL, PETER, SE  
[72] GUSTAFSSON, TORBJORN, SE  
[71] JPS TEKNIK AB, SE  
[85] 2019-12-02  
[86] 2018-06-04 (PCT/SE2018/050578)  
[87] (WO2018/222131)  
[30] SE (1700111-6) 2017-06-02

[21] **3,065,925**  
[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01)**

[25] EN

[54] **DISINTEGRATING BINDERS FOR MULTI-MEMBER CABLE**

[54] **LIANTS A DESINTEGRATION DESTINES A UN CABLE A ELEMENTS MULTIPLES**

[72] PARKE, DANIEL J., US  
[71] COMMSCOPE TECHNOLOGIES LLC, US  
[85] 2019-12-02  
[86] 2018-06-06 (PCT/US2018/036356)  
[87] (WO2018/226896)  
[30] US (62/517,832) 2017-06-09

[21] **3,065,926**  
[13] A1

[51] **Int.Cl. A61B 5/12 (2006.01) A61B 1/06 (2006.01) A61B 1/07 (2006.01) A61B 1/32 (2006.01) G01B 9/02 (2006.01)**

[25] EN

[54] **INFRARED OTOSCOPE FOR CHARACTERIZATION OF EFFUSION**

[54] **OTOSCOPE INFRAROUGE POUR LA CARACTERISATION D'UN EPANCHEMENT**

[72] MOEHRING, MARK, US  
[72] CHESAVAGE, JAY A., US  
[72] GATES, GEORGE A., US  
[72] KREINDLER, DANIEL, US  
[71] OTONEXUS MEDICAL TECHNOLOGIES, INC, US  
[85] 2019-12-02  
[86] 2018-05-30 (PCT/US2018/035228)  
[87] (WO2018/222782)  
[30] US (15/609,015) 2017-05-31

[21] **3,065,927**  
[13] A1

[51] **Int.Cl. G16B 40/10 (2019.01) C12Q 1/6869 (2018.01) G16B 30/00 (2019.01)**

[25] EN

[54] **PREDICTING QUALITY OF SEQUENCING RESULTS USING DEEP NEURAL NETWORKS**

[54] **PREDICTION DE LA QUALITE DE RESULTATS DE SEQUENCAGE UTILISANT DES RESEAUX NEURONAUX PROFONDS**

[72] DUTTA, ANINDITA, US  
[72] KIA, AMIRALI, US  
[71] ILLUMINA, INC., US  
[85] 2019-12-02  
[86] 2019-01-04 (PCT/US2019/012398)  
[87] (WO2019/136284)  
[30] US (15/863,790) 2018-01-05

[21] **3,065,928**  
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) G01N 33/48 (2006.01) G01N 33/50 (2006.01) G01N 33/53 (2006.01) G01N 33/543 (2006.01) G01N 33/549 (2006.01)**

[25] EN

[54] **TRANS-INTERFACIAL MAGNETIC SEPARATION**

[54] **SEPARATION MAGNETIQUE TRANS-INTERFACIALE**

[72] KELSO, DAVID M., US  
[72] AGARWAL, ABHISHEK K., US  
[72] MCFALL, SALLY M., US  
[72] WESTBERG, TOM, US  
[72] BUTZLER, MATTHEW AUSTIN, US  
[72] REED, JENNIFER L., US  
[71] NORTHWESTERN UNIVERSITY, US  
[85] 2019-12-02  
[86] 2018-06-06 (PCT/US2018/036348)  
[87] (WO2018/226891)  
[30] US (62/515,876) 2017-06-06

[21] **3,065,929**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/02 (2006.01)**

[25] EN

[54] **BISPECIFIC ANTIBODIES THAT BIND CD123 AND CD3**

[54] **ANTICORPS BISPECIFIQUES LIANT CD123 CD3**

[72] SAVILLE, MICHAEL WAYNE, US  
[72] FOSTER, PAUL, US  
[71] XENCOR, INC., US  
[85] 2019-12-02  
[86] 2018-06-01 (PCT/US2018/035613)  
[87] (WO2018/223002)  
[30] US (62/513,763) 2017-06-01

## PCT Applications Entering the National Phase

[21] **3,065,930**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) A61K 35/17 (2015.01) A61K 39/395 (2006.01) C07K 14/435 (2006.01) C07K 14/705 (2006.01) C07K 14/71 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)**

[25] EN  
[54] **EXPRESSION OF NOVEL CELL TAGS**  
[54] **EXPRESSION DE NOUVELLES ETIQUETTES DE CELLULES**

[72] SHAH, RUTUL, US  
[72] EMTAGE, PETER, US  
[72] YARLAGADDA, RAMYA, US  
[71] INTREXON CORPORATION, US  
[85] 2019-12-02  
[86] 2018-06-06 (PCT/US2018/036357)  
[87] (WO2018/226897)  
[30] US (62/516,639) 2017-06-07

[21] **3,065,931**  
[13] A1

[51] **Int.Cl. A45F 3/02 (2006.01) A45C 13/30 (2006.01) A45F 3/04 (2006.01) A45F 4/02 (2006.01)**

[25] EN  
[54] **CONVERTIBLE STRAP HANDBAG**  
[54] **SAC A MAIN A SANGLE CONVERTIBLE**

[72] CHUNG, CORAL, US  
[71] CHUNG, CORAL, US  
[85] 2019-12-02  
[86] 2017-06-05 (PCT/US2017/036009)  
[87] (WO2017/210697)  
[30] US (62/345,728) 2016-06-03

[21] **3,065,933**  
[13] A1

[51] **Int.Cl. H04N 21/439 (2011.01) H04L 29/06 (2006.01)**

[25] EN  
[54] **INTEREST-BASED AND BIBLIOGRAPHICAL DATA-BASED MULTIMEDIA CONTENT EXPLORATION, CURATION AND ORGANIZATION**  
[54] **EXPLORATION, EDITION ET ORGANISATION DE CONTENU MULTIMEDIA A BASE DE DONNEES BIBLIOGRAPHIQUES ET EN FONCTION DE L'INTERET**

[72] WEBSTER, AUSTIN, US  
[71] PUSH THROUGH INNOVATION CORP, US  
[85] 2019-12-02  
[86] 2018-06-01 (PCT/US2018/035750)  
[87] (WO2018/223097)  
[30] US (62/513,704) 2017-06-01

[21] **3,065,934**  
[13] A1

[51] **Int.Cl. G01N 21/64 (2006.01) B01L 3/00 (2006.01) C12Q 1/68 (2018.01) C40B 30/04 (2006.01) C40B 50/14 (2006.01) H01L 27/146 (2006.01) G01N 21/76 (2006.01)**

[25] EN  
[54] **HIGH-THROUGHPUT SEQUENCING WITH SEMICONDUCTOR-BASED DETECTION**  
[54] **SEQUENCAGE A HAUT DEBIT A DETECTION A SEMI-CONDUCTEUR**

[72] DEHLINGER, DIETRICH, US  
[72] AGAH, ALI, US  
[72] FUNG, TRACY HELEN, US  
[72] KOSTEM, EMRAH, US  
[71] ILLUMINA, INC., US  
[85] 2019-12-02  
[86] 2019-01-07 (PCT/US2019/012536)  
[87] (WO2019/136376)  
[30] US (62/614,934) 2018-01-08  
[30] US (62/614,930) 2018-01-08  
[30] NL (2020758) 2018-04-12

[21] **3,065,936**  
[13] A1

[51] **Int.Cl. B65B 59/00 (2006.01) B65B 3/26 (2006.01) B65B 3/32 (2006.01) B67C 3/02 (2006.01)**

[25] EN  
[54] **METHOD OF FILLING A CONTAINER**  
[54] **PROCEDE DE REMPLISSAGE D'UN RECIPIENT**

[72] CACCIATORE, JUSTIN THOMAS, US  
[72] GOUDY, ERIC SHAWN, US  
[72] DURHAM, BERNARD GEORGE, US  
[72] LEUNG, BENNY, US  
[72] KULEY, JOHN GLENN, US  
[72] CAPECI, SCOTT WILLIAM, US  
[72] GUIDA, VINCENZO, BE  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 2019-12-02  
[86] 2018-06-07 (PCT/US2018/036425)  
[87] (WO2018/226935)  
[30] US (62/516,969) 2017-06-08

[21] **3,065,937**  
[13] A1

[51] **Int.Cl. C09K 8/26 (2006.01) C09K 8/28 (2006.01) C09K 8/38 (2006.01) C09K 8/584 (2006.01)**

[25] EN  
[54] **ACIDIZING AND INTERFACIAL TENSION REDUCING HYDROLYSABLE OILS FOR SUBTERRANEAN TREATMENTS**  
[54] **HUILES HYDROLYSABLES D'ACIDIFICATION ET DE REDUCTION DE LA TENSION INTERFACIALE POUR DES TRAITEMENTS SOUTERRAINS**

[72] HOLTSLAW, JEREMY, US  
[72] REYES, ENRIQUE ANTONIO, US  
[72] RECIO, ANTONIO III, US  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2019-12-02  
[86] 2017-07-28 (PCT/US2017/044361)  
[87] (WO2019/022763)

## Demandes PCT entrant en phase nationale

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[21] **3,065,938**  
[13] A1

[51] **Int.Cl. C12N 9/10 (2006.01)**  
[25] EN  
[54] **B4GALT1 VARIANTS AND USES THEREOF**  
[54] **VARIANTS DE B4GALT1 ET UTILISATIONS ASSOCIEES**  
[72] MONTASSER, MAY, US  
[72] VAN HOUT, CRISTOPHER, US  
[72] SHULDINER, ALAN, US  
[72] GATTA, GIUSY DELLA, US  
[72] HEALY, MATTHEW, US  
[72] PUURUNEN, MARJA, US  
[71] REGENERON PHARMACEUTICALS, INC., US  
[71] UNIVERSITY OF MARYLAND, BALTIMORE, US  
[85] 2019-12-02  
[86] 2018-06-04 (PCT/US2018/035806)  
[87] (WO2018/226560)  
[30] US (62/515,140) 2017-06-05  
[30] US (62/550,161) 2017-08-25  
[30] US (62/659,344) 2018-04-18

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[21] **3,065,939**  
[13] A1

[51] **Int.Cl. G06N 3/04 (2006.01) G16B 20/20 (2019.01) G16B 40/00 (2019.01)**  
[25] EN  
[54] **DEEP LEARNING-BASED VARIANT CLASSIFIER**  
[54] **CLASSIFICATEUR DE VARIANTS BASE SUR UN APPRENTISSAGE PROFOND**  
[72] SCHULZ-TRIEGLAFF, OLE BENJAMIN, GB  
[72] COX, ANTHONY JAMES, GB  
[72] FARH, KAI-HOW, US  
[71] ILLUMINA, INC., US  
[71] ILLUMINA CAMBRIDGE LIMITED, GB  
[85] 2019-12-02  
[86] 2019-01-14 (PCT/US2019/013534)  
[87] (WO2019/140402)  
[30] US (62/617,552) 2018-01-15

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[21] **3,065,940**  
[13] A1

[51] **Int.Cl. A63B 6/00 (2006.01) A63B 6/02 (2006.01) E04F 15/024 (2006.01) E04F 15/18 (2006.01) E04F 15/22 (2006.01)**  
[25] EN  
[54] **FLOORING SYSTEM INCLUDING A MATERIAL DISPLAYING DILATANT PROPERTIES, AND METHODS FOR INSTALLATION OF AN ATHLETIC FLOORING SYSTEM**  
[54] **SYSTEME DE REVETEMENT DE SOL COMPRENANT UN MATERIAU PRESENTANT DES PROPRIETES DILATANTES, ET PROCEDE D'INSTALLATION D'UN SYSTEME DE REVETEMENT DE SOL D'ATHLETISME**  
[72] HAYES, STEVE, US  
[72] SCHENCK, CYRUS K, US  
[71] MISSION V SPORTS, LLC, US  
[85] 2019-12-02  
[86] 2018-01-02 (PCT/US2018/012024)  
[87] (WO2018/222227)  
[30] US (62/513,948) 2017-06-01

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[21] **3,065,941**  
[13] A1

[51] **Int.Cl. E21B 47/18 (2012.01) E21B 17/10 (2006.01) E21B 19/09 (2006.01)**  
[25] EN  
[54] **COMPENSATOR, THRUST BEARING AND TORSION BAR FOR SERVO-DRIVEN MUD PULSER**  
[54] **COMPENSATEUR, PALIER DE BUTEE ET BARRE DE TORSION POUR GENERATEUR D'IMPULSIONS DANS LA BOUE SERVOCOMMANDE**  
[72] FRITH, BENJAMIN G., US  
[72] FRITH, TERRENCE G., US  
[71] GORDON TECHNOLOGIES, LLC, US  
[85] 2019-12-02  
[86] 2018-06-04 (PCT/US2018/035895)  
[87] (WO2018/223141)  
[30] US (62/514,605) 2017-06-02

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[21] **3,065,942**  
[13] A1

[51] **Int.Cl. E21B 47/12 (2012.01) G06F 13/42 (2006.01)**  
[25] EN  
[54] **WELL CONSTRUCTION COMMUNICATION AND CONTROL**  
[54] **COMMUNICATION ET COMMANDE DE CONSTRUCTION DE PUITS**  
[72] ZHENG, SHUNFENG, US  
[72] ROJAS, JUAN JOSE, US  
[71] SCHLUMBERGER CANADA LIMITED, CA  
[85] 2019-12-02  
[86] 2018-06-13 (PCT/US2018/037209)  
[87] (WO2018/231902)  
[30] US (15/621,107) 2017-06-13

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[21] **3,065,944**  
[13] A1

[51] **Int.Cl. H04N 21/258 (2011.01)**  
[25] EN  
[54] **GEO-FENCING OF MEDIA CONTENT USING DISTRIBUTION AREAS IN A DATABASE**  
[54] **BLOCAGE GEOGRAPHIQUE DE CONTENU MULTIMEDIA A L'AIDE DE ZONES DE DISTRIBUTION SITUEES DANS UNE BASE DE DONNEES**  
[72] MAHRT, DALLAS, US  
[72] LONAC, BRANDON, US  
[72] HWANG, HANK, US  
[72] BROWN, STEPHEN, US  
[72] DALY, WILLIAM, US  
[72] WANG, YINGAN, US  
[71] HULU, LLC, US  
[85] 2019-12-02  
[86] 2018-06-18 (PCT/US2018/038023)  
[87] (WO2018/236722)  
[30] US (15/627,172) 2017-06-19

## PCT Applications Entering the National Phase

[21] **3,065,945**  
[13] A1

[51] **Int.Cl. A61K 31/5575 (2006.01) A61K 31/445 (2006.01) A61P 21/00 (2006.01) A61P 27/02 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR PREVENTING OR TREATING MUSCLE CONDITIONS**

[54] **COMPOSITIONS ET PROCEDES POUR PREVENIR OU TRAITER DES AFFECTIONS MUSCULAIRES**

[72] FISHMAN, HARVEY, US

[72] CURTIN, CATHERINE, US

[72] PAYNE, CHRISTOPHER, US

[72] DELP, SCOTT, US

[72] SHENOY, VIVEK, US

[72] BLAU, HELEN M., US

[72] TRI VAN HO, ANDREW, US

[72] PALLA, ADELAIDA R., US

[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US

[71] MYOFORTE THERAPEUTICS INC., US

[85] 2019-12-02

[86] 2018-06-08 (PCT/US2018/036727)

[87] (WO2018/227134)

[30] US (62/517,758) 2017-06-09

[21] **3,065,946**  
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01) C12N 15/864 (2006.01)**

[25] EN

[54] **ENHANCED MODIFIED VIRAL CAPSID PROTEINS**

[54] **PROTEINES DE CAPSIDE VIRALE MODIFIEES AMELIOREES**

[72] LOILER, SCOTT ALLEN, US

[71] RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL, US

[85] 2019-12-02

[86] 2018-06-04 (PCT/US2018/035906)

[87] (WO2018/226602)

[30] US (62/515,468) 2017-06-05

[30] US (62/562,058) 2017-09-22

[21] **3,065,948**  
[13] A1

[51] **Int.Cl. B65D 81/38 (2006.01) F16L 59/04 (2006.01) F16L 59/065 (2006.01) F16L 59/08 (2006.01) F17C 13/00 (2006.01) F24H 1/18 (2006.01) F25D 23/06 (2006.01) F28D 20/00 (2006.01)**

[25] EN

[54] **METHOD FOR THERMALLY INSULATING AN EVACUABLE CONTAINER**

[54] **PROCEDE D'ISOLATION THERMIQUE D'UN CONTENANT POUVANT ETRE MIS SOUS VIDE**

[72] GEISLER, MATTHIAS, DE

[72] HERR, ANN-KATHRIN, DE

[72] ASBAHR, HARK-OLUF, DE

[72] SCHULTZ, THORSTEN, DE

[72] SCHAFFNER, DIRK, DE

[72] MENZEL, FRANK, DE

[72] MENG, ANDREAS, DE

[72] MEIER, DOMINIK, DE

[71] EVONIK OPERATIONS GMBH, DE

[71] STIEBEL ELTRON GMBH & CO. KG, DE

[85] 2019-12-03

[86] 2018-05-30 (PCT/EP2018/064248)

[87] (WO2018/224377)

[30] DE (10 2017 209 782.5) 2017-06-09

[21] **3,065,949**  
[13] A1

[51] **Int.Cl. H04B 7/155 (2006.01) H01Q 1/22 (2006.01)**

[25] EN

[54] **A POLE INTEGRATED REPEATER SYSTEM**

[54] **SYSTEME DE REPETEUR INTEGRE A UN POTEAU**

[72] MOUSER, MICHAEL JAMES, US

[72] COOK, PATRICK LEE, US

[72] ASHWORTH, CHRISTOPHER KEN, US

[72] NORDGRAN, CASEY JAMES, US

[72] IGLESIAS, EDDIE F., US

[71] WILSON ELECTRONICS, LLC, US

[85] 2019-12-02

[86] 2018-06-18 (PCT/US2018/038103)

[87] (WO2018/232409)

[30] US (62/521,103) 2017-06-16

[21] **3,065,950**  
[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01) G01N 33/569 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **FLOW CYTOMETRY SYSTEM AND METHODS FOR THE DIAGNOSIS OF INFECTIOUS DISEASE**

[54] **SYSTEME DE CYTOMETRIE DE FLUX ET PROCEDES POUR LE DIAGNOSTIC D'UNE MALADIE INFECTIEUSE**

[72] CAPOCASALE, RENOLD JULIUS, US

[72] BICK, JULIE ANN, US

[71] FLOWMETRIC LIFE SCIENCES, INC., US

[85] 2019-12-02

[86] 2018-06-19 (PCT/US2018/038310)

[87] (WO2018/223151)

[30] US (62/514,791) 2017-06-03

[21] **3,065,951**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**

[25] EN

[54] **ANTI-BCMA HEAVY CHAIN-ONLY ANTIBODIES**

[54] **ANTICORPS UNIQUEMENT A CHAINES LOURDES ANTI-BCMA**

[72] TRINKLEIN, NATHAN, US

[72] ALDRED, SHELLEY FORCE, US

[72] CLARKE, STARLYNN, US

[72] VAN SCHOOTEN, WIM, US

[71] TENEONE, INC., US

[85] 2019-12-02

[86] 2018-06-20 (PCT/US2018/038506)

[87] (WO2018/237006)

[30] US (62/522,295) 2017-06-20

## Demandes PCT entrant en phase nationale

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[21] **3,065,952**  
[13] A1

[51] **Int.Cl. G01N 33/569 (2006.01) G01N 15/14 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR DETERMINING THE RISK OF SEVERE ALLERGIC REACTIONS**  
[54] **SYSTEMES ET PROCEDES POUR DETERMINER LE RISQUE D'UNE REACTION ALLERGIQUE GRAVE**  
[72] CAPOCASALE, RENOLD JULIUS, US  
[72] BICK, JULIE ANN, US  
[71] FLOWMETRIC LIFE SCIENCES, INC., US  
[85] 2019-12-02  
[86] 2018-06-04 (PCT/US2018/035922)  
[87] (WO2018/223149)  
[30] US (62/514,794) 2017-06-03

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[21] **3,065,953**  
[13] A1

[51] **Int.Cl. G21F 9/28 (2006.01) G21F 9/34 (2006.01) G21F 9/36 (2006.01)**  
[25] EN  
[54] **STORING HAZARDOUS MATERIAL IN A SUBTERRANEAN FORMATION**  
[54] **STOCKAGE DE MATIERES DANGEREUSES DANS UNE FORMATION SOUTERRAINE**  
[72] MULLER, RICHARD A., US  
[72] MULLER, ELIZABETH A., US  
[71] DEEP ISOLATION, INC., US  
[85] 2019-12-02  
[86] 2018-06-05 (PCT/US2018/035974)  
[87] (WO2018/226636)  
[30] US (62/515,050) 2017-06-05

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[21] **3,065,954**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C12Q 1/6886 (2018.01) A61P 35/02 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR IDENTIFYING AND TREATING RESISTANCE TO CTLA4 ANTAGONISTS IN LEUKEMIA**  
[54] **COMPOSITIONS ET PROCEDES D'IDENTIFICATION ET DE TRAITEMENT DE LA RESISTANCE A DES ANTAGONISTES CTLA4 DANS LA LEUCEMIE**  
[72] BACHIREDDY, PAVAN, US  
[71] DANA-FARBER CANCER INSTITUE, INC., US  
[85] 2019-12-02  
[86] 2018-06-26 (PCT/US2018/039446)  
[87] (WO2019/005757)  
[30] US (62/525,401) 2017-06-27

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[21] **3,065,955**  
[13] A1

[51] **Int.Cl. A61L 15/18 (2006.01) A61L 15/26 (2006.01) A61L 15/42 (2006.01) A61L 15/48 (2006.01)**  
[25] EN  
[54] **FOAM IN WOUND TREATMENT**  
[54] **MOUSSE DANS LE TRAITEMENT DE PLAIES**  
[72] GARDINER, ERIC S., US  
[72] JOHNSON, JASON RAYMOND, US  
[71] MOLNLYCKE HEALTH CARE AB, SE  
[85] 2019-12-03  
[86] 2018-06-05 (PCT/EP2018/064769)  
[87] (WO2018/224499)  
[30] EP (17175238.9) 2017-06-09

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[21] **3,065,956**  
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01)**  
[25] EN  
[54] **REFERENCE SIGNAL DESIGN**  
[54] **CONCEPTION DE SIGNAL DE REFERENCE**  
[72] ABEDINI, NAVID, US  
[72] ISLAM, MUHAMMAD NAZMUL, US  
[72] SADIQ, BILAL, US  
[72] GAAL, PETER, US  
[72] SUN, HAITONG, US  
[71] QUALCOMM INCORPORATED, US  
[85] 2019-12-02  
[86] 2018-07-09 (PCT/US2018/041244)  
[87] (WO2019/014106)  
[30] US (62/532,851) 2017-07-14  
[30] US (16/028,312) 2018-07-05

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[21] **3,065,957**  
[13] A1

[51] **Int.Cl. G06T 5/50 (2006.01) G06T 7/00 (2017.01)**  
[25] EN  
[54] **SUBTRACTION ALGORITHM FOR DETECTION OF TUMORS**  
[54] **ALGORITHME DE SOUSTRACTION POUR LA DETECTION DE TUMEURS**  
[72] SAMANIEGO, RAYMOND, US  
[72] HATCHELL, LAUREN G., US  
[72] TRAN, TUAN T., US  
[72] TOMICH, JOHN L., US  
[72] ANDERSON, BRYAN D., US  
[71] RAYTHEON COMPANY, US  
[85] 2019-12-02  
[86] 2018-08-13 (PCT/US2018/046564)  
[87] (WO2019/036388)  
[30] US (62/545,410) 2017-08-14  
[30] US (16/102,449) 2018-08-13

## PCT Applications Entering the National Phase

[21] **3,065,958**  
[13] A1

[51] **Int.Cl. C07H 19/00 (2006.01) G01N 27/26 (2006.01) G01N 33/483 (2006.01)**

[25] EN

[54] **LABELED NUCLEOTIDES AND USES THEREOF**

[54] **NUCLEOTIDES MARQUES ET LEURS UTILISATIONS**

[72] MANDELL, JEFFREY, US

[72] BARNARD, STEVEN, US

[72] MOON, JOHN, US

[72] ROBERT BACIGALUPO, MARIA CANDELARIA, US

[71] ILLUMINA, INC., US

[85] 2019-12-02

[86] 2019-02-13 (PCT/US2019/017830)

[87] (WO2019/160937)

[30] US (62/710,465) 2018-02-16

[21] **3,065,960**  
[13] A1

[51] **Int.Cl. B07B 1/46 (2006.01) B07B 1/04 (2006.01)**

[25] EN

[54] **MINING SCREENING PANEL FIXING SYSTEM**

[54] **SYSTEME DE FIXATION DE PANNEAU DE CRIBLAGE D'EXPLOITATION MINIERE**

[72] MAMMADOV, ASAD, AU

[72] THANGAVELU, MURUGAVEL, AU

[72] STRONG, CRAIG, AU

[71] SCHENCK PROCESS AUSTRALIA PTY LIMITED, AU

[85] 2019-12-03

[86] 2018-06-06 (PCT/AU2018/050561)

[87] (WO2018/223186)

[30] AU (2017902146) 2017-06-06

[21] **3,065,961**  
[13] A1

[51] **Int.Cl. C07C 311/21 (2006.01) A61K 31/63 (2006.01) A61P 11/06 (2006.01) C07C 311/44 (2006.01)**

[25] EN

[54] **INHIBITORS OF RAC1 AND USES THEREOF FOR INDUCING BRONCHODILATATION**

[54] **INHIBITEURS DE RAC1 ET LEURS UTILISATIONS POUR INDUIRE UNE BRONCHODILATATION**

[72] SAUZEAU, VINCENT, FR

[72] LOIRAND, GERVAISE, FR

[72] LEBRETON, JACQUES, FR

[72] TESSIER, ARNAUD, FR

[72] QUEMENIER, AGNES, FR

[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[71] UNIVERSITE DE NANTES, FR

[71] CHU NANTES, FR

[85] 2019-12-03

[86] 2018-06-06 (PCT/EP2018/064920)

[87] (WO2018/224560)

[30] EP (17305662.3) 2017-06-06

[21] **3,065,964**  
[13] A1

[51] **Int.Cl. B41M 5/50 (2006.01) B41M 5/52 (2006.01) B44C 5/04 (2006.01)**

[25] EN

[54] **METHOD FOR MANUFACTURING INKJET PRINTABLE PAPER OR FOIL FOR USE AS A DECOR PAPER OR FOIL**

[54] **PROCEDE DE FABRICATION DE PAPIER OU DE FEUILLE IMPRIMABLE PAR JET D'ENCRE POUR UNE UTILISATION EN TANT QUE PAPIER DECORATIF OU FEUILLE DECORATIVE**

[72] CLEMENT, BENJAMIN, BE

[72] IDE, MATTHIAS, BE

[72] LEDEGEN, SAM, BE

[71] UNILIN, BVBA, BE

[85] 2019-12-03

[86] 2018-06-12 (PCT/IB2018/054239)

[87] (WO2018/229649)

[30] EP (17176082.0) 2017-06-14

[21] **3,065,990**  
[13] A1

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/198 (2006.01)**

[25] EN

[54] **LEVODOPA INFUSION SOLUTION**

[54] **SOLUTION DE PERFUSION DE LEVODOPA**

[72] ERIKSSON, ELIAS, SE

[72] DIZDAR SEGRELL, NIL, SE

[72] EHRNEBO, MATS, SE

[72] BRING, LEIF, SE

[71] DIZLIN PHARMACEUTICALS AB, SE

[85] 2019-12-03

[86] 2018-06-05 (PCT/EP2018/064774)

[87] (WO2018/224501)

[30] SE (1750707-0) 2017-06-05

[21] **3,065,998**  
[13] A1

[51] **Int.Cl. B60B 33/00 (2006.01) B60B 5/04 (2006.01) B60B 33/02 (2006.01) F16D 63/00 (2006.01)**

[25] EN

[54] **SUSPENSION CASTER WITH BRAKE LEVER AND WHEEL FORK AND YOKE PORTION HAVING COMMON PIVOT AXIS**

[54] **ROULETTE DE SUSPENSION AVEC LEVIER DE FREIN ET FOURCHE DE ROUE ET PARTIE CHAPE AYANT UN AXE DE PIVOTEMENT COMMUN**

[72] SCHENK, CHARLES, US

[72] FRESHOUR, MICHAEL, US

[71] COLSON GROUP HOLDINGS, LLC, US

[85] 2019-12-02

[86] 2018-05-08 (PCT/US2018/031520)

[87] (WO2018/231372)

[30] US (15/619,647) 2017-06-12

## Demandes PCT entrant en phase nationale

[21] **3,065,999**  
[13] A1

[51] **Int.Cl. C12N 5/00 (2006.01) A61K 39/395 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01) G01N 33/58 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **DETECTION OF BIOMARKERS ON VESICLES FOR THE DIAGNOSIS AND PROGNOSIS OF DISEASES AND DISORDERS**

[54] **DETECTION DE BIOMARQUEURS SUR DES VESICULES POUR LE DIAGNOSTIC ET LE PRONOSTIC DE MALADIES ET DE TROUBLES**

[72] MITSUHASHI, MASATO, US  
[71] NANOSOMIX, INC., US  
[85] 2019-12-02  
[86] 2018-05-24 (PCT/US2018/034495)  
[87] (WO2018/218090)  
[30] US (62/510,726) 2017-05-24  
[30] US (62/547,024) 2017-08-17

[21] **3,066,000**  
[13] A1

[51] **Int.Cl. H02K 1/27 (2006.01) H02K 15/03 (2006.01)**

[25] EN

[54] **PRE-WARPED ROTORS FOR CONTROL OF MAGNET-STATOR GAP IN AXIAL FLUX MACHINES**

[54] **ROTORS PREDEFORMES PERMETTANT LA COMMANDE D'UN ESPACE ENTRE UN AIMANT ET UN STATOR DANS DES MACHINES A FLUX AXIAL**

[72] MILHEIM, GEORGE HARDER, US  
[71] E-CIRCUIT MOTORS, INC., US  
[85] 2019-12-02  
[86] 2018-05-25 (PCT/US2018/034569)  
[87] (WO2018/226434)  
[30] US (62/515,251) 2017-06-05  
[30] US (62/515,256) 2017-06-05  
[30] US (15/983,985) 2018-05-18

[21] **3,066,001**  
[13] A1

[51] **Int.Cl. A01K 1/015 (2006.01) C04B 7/42 (2006.01) C04B 18/02 (2006.01) C04B 18/06 (2006.01) C04B 20/10 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MANUFACTURING GRANULES**

[54] **SYSTEMES ET PROCEDES DE FABRICATION DE GRANULES**

[72] DAY, KEITH CHARLES, US  
[72] LEWIS, JOHN, US  
[72] DAY, ETHAN GEORGE, US  
[71] BENEFICIATE: NORTH AMERICA, LLC, US  
[85] 2019-12-02  
[86] 2018-06-06 (PCT/US2018/036222)  
[87] (WO2018/226804)  
[30] US (62/515,632) 2017-06-06  
[30] US (62/536,791) 2017-07-25

[21] **3,066,003**  
[13] A1

[51] **Int.Cl. H01R 13/6582 (2011.01) H01R 12/50 (2011.01) H05K 7/20 (2006.01)**

[25] EN

[54] **TRANSCEIVER ASSEMBLY ARRAY WITH FIXED HEATSINK AND FLOATING TRANSCEIVERS**

[54] **RESEAU D'ENSEMBLES EMETTEURS-RECEPTEURS AVEC DISSIPATEUR THERMIQUE FIXE ET EMETTEURS-RECEPTEURS FLOTTANTS**

[72] GUETIG, KEITH R., US  
[72] HALL, THOMAS A., III, US  
[72] COLLINGWOOD, ANDREW R., US  
[72] NIGHTINGALE, JOHN L., US  
[72] ZBINDEN, ERIC J., US  
[71] SAMTEC, INC., US  
[85] 2019-12-02  
[86] 2018-06-06 (PCT/US2018/036223)  
[87] (WO2018/226805)  
[30] US (62/516,533) 2017-06-07  
[30] US (62/535,355) 2017-07-21

[21] **3,066,004**  
[13] A1

[51] **Int.Cl. G16H 20/00 (2018.01) G16H 50/00 (2018.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR IDENTIFYING CANCER TREATMENTS FROM NORMALIZED BIOMARKER SCORES**

[54] **SYSTEMES ET PROCEDES D'IDENTIFICATION DE TRAITEMENTS DU CANCER A PARTIR DE SCORES DE BIOMARQUEUR NORMALISES**

[72] BAGAEV, ALEXANDER, RU  
[72] FRENKEL, FELIKS, RU  
[72] ATAULLAKHANOV, RAVSHAN, RU  
[71] BOSTONGENE CORPORATION, US  
[85] 2019-12-02  
[86] 2018-06-12 (PCT/US2018/037008)  
[87] (WO2018/231762)  
[30] US (62/518,787) 2017-06-13  
[30] US (62/598,440) 2017-12-13

[21] **3,066,007**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY WITH ICOS AGONIST AND OX40 AGONIST TO TREAT CANCER**

[54] **POLYTHERAPIE A L'AIDE D'UN AGONISTE ICOS ET D'UN AGONISTE OX40 POUR LE TRAITEMENT DU CANCER**

[72] HOPSON, CHRISTOPHER B., US  
[72] KILIAN, DAVID J., US  
[72] MAYES, PATRICK A., US  
[72] YADAVILLI, SAPNA, US  
[72] YANAMANDRA, NIRANJAN, US  
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB  
[85] 2019-12-03  
[86] 2018-06-08 (PCT/IB2018/054169)  
[87] (WO2018/225035)  
[30] US (62/517,389) 2017-06-09

## PCT Applications Entering the National Phase

[21] **3,066,009**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/517 (2006.01) A61P 17/06 (2006.01)**

[25] EN

[54] **PROTEIN KINASES INHIBITORS**

[54] **INHIBITEURS DE PROTEINE KINASE**

[72] KURZ, GUIDO, ES

[72] CAMACHO GOMEZ, JUAN, ES

[71] ONCOSTELLAE, S.L., ES

[85] 2019-11-29

[86] 2018-05-31 (PCT/ES2018/070396)

[87] (WO2018/220252)

[30] ES (P201730759) 2017-06-01

[21] **3,066,010**  
[13] A1

[51] **Int.Cl. C07C 45/48 (2006.01) C07C 49/76 (2006.01)**

[25] EN

[54] **PROCESS FOR THE CATALYTIC DECARBOXYLATIVE CROSS-KETONIZATION OF ARYL AND ALIPHATIC CARBOXYLIC ACID**

[54] **PROCEDE DE CETONISATION CROISEE CATALYTIQUE DECARBOXYLANTE D'UN ARYLE ET D'UN ACIDE CARBOXYLIQUE ALIPHATIQUE**

[72] BACK, OLIVIER, FR

[72] MARION, PHILIPPE, FR

[71] RHODIA OPERATIONS, FR

[85] 2019-12-03

[86] 2018-06-15 (PCT/EP2018/066030)

[87] (WO2018/229285)

[30] EP (17305744.9) 2017-06-16

[30] EP (17306791.9) 2017-12-15

[21] **3,066,011**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/517 (2006.01) A61P 17/06 (2006.01)**

[25] EN

[54] **CARBOXYLIC ACID DERIVATIVES AS PROTEIN KINASE INHIBITORS**

[54] **DERIVES D'ACIDES CARBOXYLIQUES DE PYRIDOQUINAZOLINES EN TANT QU'INHIBITEURS DE PROTEINES KINASES**

[72] KURZ, GUIDO, ES

[72] CAMACHO GOMEZ, JUAN, ES

[71] ONCOSTELLAE, S.L., ES

[85] 2019-11-29

[86] 2018-05-31 (PCT/ES2018/070397)

[87] (WO2018/220253)

[30] ES (P201730760) 2017-06-01

[21] **3,066,012**  
[13] A1

[51] **Int.Cl. H01M 8/04992 (2016.01) H01M 8/04537 (2016.01) G01R 31/36 (2019.01)**

[25] FR

[54] **METHOD AND SYSTEM FOR DIAGNOSING THE OPERATING STATE OF AN ELECTROCHEMICAL SYSTEM IN REAL-TIME, AND ELECTROCHEMICAL SYSTEM INCORPORATING THIS DIAGNOSTIC SYSTEM**

[54] **PROCEDE ET SYSTEME POUR DIAGNOSTIQUER EN TEMPS REEL L'ETAT DE FONCTIONNEMENT D'UN SYSTEME ELECTROCHIMIQUE, ET SYSTEME ELECTROCHIMIQUE INTEGRANT CE SYSTEME DE DIAGNOSTIC**

[72] FAIVRE, SEBASTIEN, FR

[72] GUSTIN, FREDERIC, FR

[72] HISSEL, DANIEL, FR

[72] HAREL, FABIEN, FR

[72] LI, ZHONGLIANG, FR

[71] UNIVERSITE DE FRANCHE-COMTE, FR

[71] INSTITUT FRANCAIS DES SCIENCES ET TECHNOLOGIES DES TRANSPORTS, DE L'AMAGEMENT ET DES RESEAUX, FR

[85] 2019-12-02

[86] 2018-05-31 (PCT/EP2018/064346)

[87] (WO2018/220115)

[30] FR (1754949) 2017-06-02

[21] **3,066,014**  
[13] A1

[51] **Int.Cl. B29C 70/34 (2006.01) B29D 99/00 (2010.01) B29C 70/54 (2006.01) F03D 1/06 (2006.01)**

[25] EN

[54] **A WIND TURBINE BLADE AND A METHOD OF MANUFACTURING THE WIND TURBINE BLADE**

[54] **PALE D'EOLIENNE ET PROCEDE DE FABRICATION DE LA PALE D'EOLIENNE**

[72] LUND-LAVERICK, MICHAEL, DK

[72] NIELSEN, LARS, DK

[71] LM WIND POWER INTERNATIONAL TECHNOLOGY II APS, DK

[85] 2019-12-03

[86] 2018-07-13 (PCT/EP2018/069110)

[87] (WO2019/012119)

[30] EP (17181167.2) 2017-07-13

[21] **3,066,015**  
[13] A1

[51] **Int.Cl. H04W 52/02 (2009.01) H04W 68/02 (2009.01)**

[25] EN

[54] **PAGING METHOD, TERMINAL DEVICE, AND NETWORK DEVICE**

[54] **PROCEDE DE RADIOMESSAGERIE, DISPOSITIF DE TERMINAL ET DISPOSITIF DE RESEAU**

[72] LIU, JIANHUA, CN

[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN

[85] 2019-12-03

[86] 2017-08-11 (PCT/CN2017/097264)

[87] (WO2019/028910)

[21] **3,066,016**  
[13] A1

[51] **Int.Cl. B29C 64/209 (2017.01) B33Y 30/00 (2015.01) B29C 64/106 (2017.01)**

[25] EN

[54] **A 3D PRINTER HEAD FOR USE IN A 3D PRINTER, A 3D PRINTER HAVING SUCH A 3D PRINTER HEAD, A METHOD FOR OPERATING SUCH A 3D PRINTER, AND PRINTED PRODUCT PRODUCED WITH SUCH A 3D PRINTER**

[54] **TETE D'IMPRESSON 3D POUR L'UTILISATION DANS UNE IMPRIMANTE 3D, IMPRIMANTE 3D COMPRENANT UNE TELLE TETE D'IMPRESSON 3D, PROCEDE POUR LE FONCTIONNEMENT D'UNE TELLE IMPRIMANTE 3D ET PRODUIT FABRIQUE AVEC UNE TELLE IMPRIMANTE 3D**

[72] STUBENRUSS, MORITZ, IT

[71] STARFORT KG DES STUBENRUSS MORITZ, IT

[85] 2019-12-03

[86] 2018-04-25 (PCT/EP2018/060569)

[87] (WO2018/210537)

[30] IT (102017000052877) 2017-05-16

## Demandes PCT entrant en phase nationale

[21] **3,066,018**  
[13] A1

[51] **Int.Cl. E21B 3/02 (2006.01) F16J 15/16 (2006.01)**

[25] EN

[54] **PORTABLE DRILLING MACHINE AND WATER-SEAL STRUCTURE OF POWER HEAD THEREOF**

[54] **MACHINE DE FORAGE PORTATIVE ET SA STRUCTURE DE JOINT HYDRAULIQUE A TETE D'ALIMENTATION**

[72] WANG, JIAN, CN

[72] LIU, XUYONG, CN

[71] ZHUHAI EAGLER SPECIALTY DRILLING EQUIPMENT CO., LTD., CN

[85] 2019-12-03

[86] 2017-11-29 (PCT/CN2017/113590)

[87] (WO2018/233218)

[30] CN (201710462273.1) 2017-06-19

[21] **3,066,019**  
[13] A1

[51] **Int.Cl. H04B 10/2575 (2013.01) H04B 10/50 (2013.01) H04B 10/572 (2013.01) H01S 3/13 (2006.01)**

[25] EN

[54] **OPTICAL FREQUENCY COMB LOCKING SYSTEM**

[54] **SYSTEME DE VERROUILLAGE DE PEIGNE DE FREQUENCES OPTIQUES**

[72] FERNANDEZ, JAVIER H., US

[72] CLATTERBUCK, TODD O., US

[72] DANIELE, ANDREW N., US

[72] LACKEY, MICHAEL S., US

[72] BIBB, DARCY, US

[72] THAI, CHON, US

[71] RAYTHEON COMPANY, US

[85] 2019-12-02

[86] 2018-06-06 (PCT/US2018/036212)

[87] (WO2018/226796)

[30] US (62/516,188) 2017-06-07

[30] US (15/621,569) 2017-06-13

[21] **3,066,020**  
[13] A1

[51] **Int.Cl. A61K 39/09 (2006.01) A61P 31/04 (2006.01)**

[25] EN

[54] **METHOD OF TREATMENT**

[54] **METHODE DE TRAITEMENT**

[72] BEBIA, ZOURAB, US

[72] CORSARO, BARTHOLOMEW, US

[72] DRIVER, DAVID JEFFREY, US

[72] DIEUSSAERT, ILSE, US

[72] HENRY, OUZAMA, US

[72] MARGARIT-Y-ROS, IMMACULADA, IT

[71] GLAXOSMITHKLINE BIOLOGICALS SA, BE

[85] 2019-12-03

[86] 2018-06-14 (PCT/IB2018/054377)

[87] (WO2018/229708)

[30] US (62/520,669) 2017-06-16

[30] US (62/594,120) 2017-12-04

[21] **3,066,021**  
[13] A1

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/32 (2012.01) G06Q 20/36 (2012.01)**

[25] EN

[54] **MOBILE PAYMENT ROAMING**

[54] **ITINERANCE DE PAIEMENT MOBILE**

[72] MAKHOTIN, M. OLEG, FR

[72] ELHAOUSSINE, M. MEHDI, FR

[71] IDEMIA FRANCE, FR

[85] 2019-12-03

[86] 2018-05-24 (PCT/EP2018/063697)

[87] (WO2018/228798)

[30] EP (17305734.0) 2017-06-15

[21] **3,066,022**  
[13] A1

[51] **Int.Cl. B65G 21/20 (2006.01) B65G 23/14 (2006.01)**

[25] EN

[54] **DRIVE DEVICE, DRIVE ELEMENT AND CONVEYING-CART DRIVE ARRANGEMENT**

[54] **ARRANGEMENT D'ENTRAINEMENT, ELEMENT D'ENTRAINEMENT ET MECANISME D'ENTRAINEMENT POUR CHARIOT DE TRANSPORT**

[72] EISINGER, THOMAS, DE

[72] DROSTE, HEINRICH, DE

[71] INTERROLL HOLDING AG, CH

[85] 2019-12-02

[86] 2018-06-20 (PCT/EP2018/066420)

[87] (WO2019/002048)

[30] DE (10 2017 006 212.9) 2017-06-30

[21] **3,066,023**  
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) G09B 23/30 (2006.01)**

[25] EN

[54] **GASTROINTESTINAL TRACT SIMULATION SYSTEM, COMPARTMENTS THEREFOR, AND METHOD**

[54] **SYSTEME DE SIMULATION DE TRACTUS GASTRO-INTESTINAL, COMPARTIMENTS POUR CELUI-CI, ET METHODE**

[72] MASCART, LOUIS-PHILIPPE, BE

[72] MARZORATI, MASSIMO, BE

[72] WINDELS, TIM, BE

[72] POSSEMIERS, SAM, BE

[72] VAN DEN ABBEELE, PIETER, BE

[71] PRODIGEST BVBA, BE

[85] 2019-12-03

[86] 2018-06-06 (PCT/EP2018/064917)

[87] (WO2018/224558)

[30] EP (17174613.4) 2017-06-06

[21] **3,066,024**  
[13] A1

[51] **Int.Cl. H02J 50/10 (2016.01) A47J 27/00 (2006.01)**

[25] EN

[54] **WIRELESS POWER SUPPLY SYSTEM FOR COOKING APPLIANCE AND COOKING APPLIANCE**

[54] **SYSTEME D'ALIMENTATION ELECTRIQUE SANS FIL POUR APPAREIL DE CUISSON ET APPAREIL DE CUISSON**

[72] ZHANG, FAN, CN

[72] WANG, YUNFENG, CN

[72] JIANG, DEYONG, CN

[72] LEI, JUN, CN

[72] LIU, WENHUA, CN

[72] HUANG, SHUFENG, CN

[72] ZENG, LUTIAN, CN

[71] FOSHAN SHUNDE MIDEA ELECTRICAL HEATING APPLIANCES MANUFACTURING CO., L., CN

[85] 2019-12-03

[86] 2017-12-11 (PCT/CN2017/115480)

[87] (WO2019/037334)

[30] CN (201710739808.5) 2017-08-25

[30] CN (201721072978.4) 2017-08-25

[30] CN (201710834242.4) 2017-09-15

## PCT Applications Entering the National Phase

[21] **3,066,025**  
[13] A1

[51] **Int.Cl. C10G 29/20 (2006.01) C10G 5/00 (2006.01) C10G 9/00 (2006.01) C10G 57/00 (2006.01)**

[25] EN

[54] **NATURAL GAS LIQUID UPGRADING BY IONIC LIQUID CATALYZED ALKYLATION**

[54] **VALORISATION DE LIQUIDE DE GAZ NATUREL PAR ALKYLATION CATALYSEE PAR UN LIQUIDE IONIQUE**

[72] TIMKEN, HYE-KYUNG CHO, US  
[72] PEINADO, KENNETH JOHN, US  
[72] CHANG, BONG-KYU, US  
[71] CHEVRON U.S.A. INC., US  
[85] 2019-12-03  
[86] 2018-06-07 (PCT/IB2018/054078)  
[87] (WO2019/008454)  
[30] US (15/640,655) 2017-07-03

[21] **3,066,027**  
[13] A1

[51] **Int.Cl. D21H 21/02 (2006.01) D21C 9/00 (2006.01) D21H 21/04 (2006.01) D21H 21/20 (2006.01)**

[25] EN

[54] **COMPOSITION, ITS USE AND METHOD FOR REMOVING AND PREVENTING WET STRENGTH RESINS FROM CONTAMINATING PAPERMAKING EQUIPMENT**

[54] **COMPOSITION, SON UTILISATION ET PROCEDE PERMETTANT D'ELIMINER ET D'EMPECHER LA CONTAMINATION D'UN EQUIPEMENT DE FABRICATION DE PAPIER PAR DES RESINES RESISTANTES A L'HUMIDITE**

[72] ZOU, YONG, US  
[72] LUO, YUPING, US  
[72] CASASUS, ANNA, US  
[71] KEMIRA OYJ, FI  
[85] 2019-12-03  
[86] 2018-06-26 (PCT/FI2018/050500)  
[87] (WO2019/002682)  
[30] US (62/527,027) 2017-06-29  
[30] FI (20175707) 2017-08-01

[21] **3,066,029**  
[13] A1

[51] **Int.Cl. G06K 9/62 (2006.01)**

[25] EN

[54] **IMAGE FEATURE ACQUISITION**

[54] **ACQUISITION DE CARACTERISTIQUES D'IMAGE**

[72] KANG, LIPING, CN  
[71] 10353744 CANADA LTD., CA  
[85] 2019-12-03  
[86] 2017-12-20 (PCT/CN2017/117447)  
[87] (WO2019/015246)  
[30] CN (201710598221.7) 2017-07-20

[21] **3,066,030**  
[13] A1

[51] **Int.Cl. A01D 45/26 (2006.01)**

[25] EN

[54] **HARVESTING OF CROPS**

[54] **RECOLTE DE CULTURES**

[72] GEORGE, ESTWICK, GB  
[72] KEELING, PETER, GB  
[71] KMS PROJECTS LIMITED, GB  
[85] 2019-12-03  
[86] 2017-06-07 (PCT/GB2017/051656)  
[87] (WO2017/212267)  
[30] GB (1609914.5) 2016-06-07

[21] **3,066,031**  
[13] A1

[51] **Int.Cl. C07C 311/21 (2006.01) A61K 31/63 (2006.01) A61P 35/04 (2006.01) C07C 311/44 (2006.01)**

[25] EN

[54] **INHIBITORS OF RAC1 AND USES THEREOF FOR TREATING CANCERS**

[54] **INHIBITEURS DE RAC1 ET LEURS UTILISATIONS DANS LE TRAITEMENT DE CANCERS**

[72] SAUZEAU, VINCENT, FR  
[72] LOIRAND, GERVAISE, FR  
[72] LEBRETON, JACQUES, FR  
[72] TESSIER, ARNAUD, FR  
[72] QUEMENER, AGNES, FR  
[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR  
[71] UNIVERSITE DE NANTES, FR  
[71] CHU NANTES, FR  
[85] 2019-12-03  
[86] 2018-06-06 (PCT/EP2018/064928)  
[87] (WO2018/224563)  
[30] EP (17305664.9) 2017-06-06

[21] **3,066,032**  
[13] A1

[51] **Int.Cl. B66F 11/04 (2006.01) B66F 17/00 (2006.01) G01S 13/93 (2006.01) G01S 15/93 (2006.01)**

[25] FR

[54] **AERIAL LIFT WITH AUTOMATIC POSITIONING IN COMPACT TRANSPORTATION POSITION**

[54] **NACELLE ELEVATRICE A PLACEMENT AUTOMATIQUE EN POSITION COMPACTE DE TRANSPORT**

[72] BONNEFOY, NICOLAS, FR  
[72] DORAY, JEAN-BAPTISTE, FR  
[71] HAULOTTE GROUP, FR  
[85] 2019-12-03  
[86] 2018-05-31 (PCT/FR2018/051258)  
[87] (WO2018/229381)  
[30] FR (1755204) 2017-06-12

[21] **3,066,033**  
[13] A1

[51] **Int.Cl. H04W 36/32 (2009.01)**

[25] EN

[54] **RADIO COMMUNICATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE**

[54] **PROCEDE DE RADIOCOMMUNICATION, DISPOSITIF TERMINAL ET DISPOSITIF DE RESEAU**

[72] TANG, HAI, CN  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2019-12-03  
[86] 2018-02-13 (PCT/CN2018/076670)  
[87] (WO2019/157635)

## Demandes PCT entrant en phase nationale

[21] <b>3,066,034</b> [13] A1	[21] <b>3,066,037</b> [13] A1	[21] <b>3,066,040</b> [13] A1
[51] <b>Int.Cl. G06Q 20/32 (2012.01) G06Q 20/20 (2012.01) G06Q 20/30 (2012.01) G06Q 20/34 (2012.01) G07F 7/08 (2006.01)</b>	[51] <b>Int.Cl. A61K 31/135 (2006.01) A61K 31/15 (2006.01) A61K 31/165 (2006.01) A61K 31/198 (2006.01) A61K 31/437 (2006.01) A61P 25/06 (2006.01)</b>	[51] <b>Int.Cl. H04L 9/32 (2006.01)</b>
[25] FR	[25] EN	[25] EN
[54] <b>PROCEDE DE TRANSMISSION DE DONNEES VERS UNE TETE DE LECTURE MAGNETIQUE, PROCEDE DE TRAITEMENT DES DONNEES RECUES, TERMINAL DE PAIEMENT ET PROGRAMME CORRESPONDANTS</b>	[54] <b>INHIBITORS OF VASCULAR ADHESION PROTEIN-1 FOR USE IN PREVENTION OR TREATMENT OF MIGRAINE</b>	[54] <b>TERMINAL INFORMATION TRANSFER METHOD AND RELEVANT PRODUCTS</b>
[54] <b>METHOD FOR TRANSMITTING DATA TO A MAGNETIC READING HEAD, METHOD FOR PROCESSING RECEIVED DATA, CORRESPONDING PAYMENT TERMINAL AND PROGRAM</b>	[54] <b>INHIBITEURS DE LA PROTEINE 1 D'ADHESION VASCULAIRE DESTINES A ETRE UTILISES DANS LA PREVENTION OU LE TRAITEMENT DE LA MIGRAINE</b>	[54] <b>PROCEDE DE TRANSFERT D'INFORMATIONS DE TERMINAL ET PRODUITS PERTINENTS</b>
[72] QUENTIN, PIERRE, FR	[72] PULLMAN, WILLIAM, US	[72] TANG, HAI, CN
[71] INGENICO GROUP, FR	[71] PROXIMAGEN, LLC, US	[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-12-03	[85] 2019-12-03	[85] 2019-12-03
[86] 2018-06-12 (PCT/EP2018/065551)	[86] 2018-06-08 (PCT/GB2018/051558)	[86] 2018-05-17 (PCT/CN2018/087361)
[87] (WO2018/229075)	[87] (WO2018/224837)	[87] (WO2019/169738)
[30] FR (1755309) 2017-06-13	[30] GB (1709136.4) 2017-06-08	[30] CN (PCT/CN2018/078025) 2018-03-05
		[30] CN (PCT/CN2018/079508) 2018-03-19
		[30] CN (PCT/CN2018/081166) 2018-03-29
[21] <b>3,066,035</b> [13] A1	[21] <b>3,066,038</b> [13] A1	[21] <b>3,066,041</b> [13] A1
[51] <b>Int.Cl. C12N 15/113 (2010.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61K 31/7088 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01)</b>	[51] <b>Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01)</b>	[51] <b>Int.Cl. B25J 9/00 (2006.01) B25J 17/00 (2006.01) B25J 19/00 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>ANTISENSE OLIGONUCLEOTIDES FOR MODULATING THE FUNCTION OF A T CELL</b>	[54] <b>COMBINATION THERAPY WITH ICOS AGONIST AND OX40 AGONIST TO TREAT CANCER</b>	[54] <b>SYSTEM FOR ASSISTING AN OPERATOR IN EXERTING EFFORTS</b>
[54] <b>OLIGONUCLEOTIDES ANTISENS POUR MODULER LA FONCTION D'UN LYMPHOCYTE T</b>	[54] <b>POLYTHERAPIE AVEC UN AGONISTE ICOS ET UN AGONISTE OX40 POUR TRAITER LE CANCER</b>	[54] <b>SYSTEME PERMETTANT D'AIDER UN OPERATEUR A EXERCER DES EFFORTS</b>
[72] GUCCIONE, ERNEST, SG	[72] HOPSON, CHRISTOPHER B., US	[72] MOISE, MATTEO, IT
[72] WEE, KENG BOON DAVE, SG	[72] KILIAN, DAVID J., US	[72] MORELLI, LUCA, IT
[72] BERTOLETTI, ANTONIO, SG	[72] MAYES, PATRICK A., US	[72] GIOVACCHINI, FRANCESCO, IT
[71] AGENCY FOR SCIENCE TECHNOLOGY AND RESEARCH, SG	[72] YADAVILLI, SAPNA, US	[72] VITIELLO, NICOLA, IT
[71] LION TCR, SG	[72] YANAMANDRA, NIRANJAN, US	[72] COLOMBINA, GIUSEPPE, IT
[85] 2019-12-03	[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB	[71] IUVO S.R.L., IT
[86] 2018-06-27 (PCT/SG2018/050313)	[85] 2019-12-03	[85] 2019-12-03
[87] (WO2019/004939)	[86] 2018-06-08 (PCT/IB2018/054168)	[86] 2018-06-19 (PCT/IB2018/054513)
[30] SG (10201705285S) 2017-06-27	[87] (WO2018/225034)	[87] (WO2019/016629)
	[30] US (62/517,382) 2017-06-09	[30] IT (102017000081177) 2017-07-18

## PCT Applications Entering the National Phase

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[21] **3,066,042**  
[13] A1

[51] **Int.Cl. G21C 19/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR ALIGNING NUCLEAR REACTOR TUBES AND END FITTINGS USING TUBE GEOMETRY**  
[54] **SYSTEME ET PROCEDE D'ALIGNEMENT DE TUBES DE REACTEUR NUCLEAIRE ET DE RACCORDS D'EXTREMITE A L'AIDE D'UNE GEOMETRIE DE TUBE**  
[72] ZIAEI, REZA, CA  
[71] CANDU ENERGY INC., CA  
[85] 2019-12-04  
[86] 2018-06-22 (PCT/CA2018/050776)  
[87] (WO2018/232531)  
[30] US (62/524,418) 2017-06-23

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[21] **3,066,043**  
[13] A1

[51] **Int.Cl. A61K 31/4709 (2006.01) A61K 9/00 (2006.01) A61K 38/12 (2006.01) A61P 31/04 (2006.01)**  
[25] EN  
[54] **COMBINATION COMPRISING A PARTICULAR POLYMYXIN**  
[54] **ASSOCIATION COMPRENANT UNE POLYMYXINE PARTICULIERE**  
[72] COATES, ANTHONY, GB  
[72] HU, YANMIN, GB  
[71] HELPERBY THERAPEUTICS LIMITED, GB  
[85] 2019-12-03  
[86] 2018-06-08 (PCT/GB2018/051569)  
[87] (WO2018/224843)  
[30] GB (1709193.5) 2017-06-09

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[21] **3,066,044**  
[13] A1

[51] **Int.Cl. A01N 43/36 (2006.01) A01N 25/00 (2006.01) A01N 25/02 (2006.01) A01N 43/00 (2006.01) A01N 43/34 (2006.01) A01N 43/48 (2006.01)**  
[25] EN  
[54] **COMBINATION OF PYROGLUTAMIC ACID AND A STROBILURIN FUNGICIDE FOR IMPROVED PLANT HEALTH EFFECTS**  
[54] **ASSOCIATION D'ACIDE PYROGLUTAMIQUE ET D'UN FONGICIDE STROBILURINE POUR DES EFFETS AMELIORES SUR LA SANTE DES PLANTES**  
[72] VANDERVORT, NICHOLAS WILLIAM, III, US  
[72] WERNER, MATTHEW ALAN, US  
[72] WILSON, JOHN SAMUEL, US  
[72] GRECH, NIGEL M., US  
[71] VERDESIAN LIFE SCIENCES U.S., LLC, US  
[85] 2019-12-03  
[86] 2018-06-05 (PCT/IB2018/054025)  
[87] (WO2018/224966)  
[30] US (62/515,279) 2017-06-05

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[21] **3,066,045**  
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61K 39/00 (2006.01)**  
[25] EN  
[54] **IL-1BETA BINDING ANTIBODIES FOR USE IN TREATING CANCER**  
[54] **ANTICORPS SE LIANT A IL-1BETA DESTINES A ETRE UTILISES DANS LE TRAITEMENT DU CANCER**  
[72] LIGUEROS-SAYLAN, MONICA, US  
[72] MATCHABA, PATRICE, US  
[72] THUREN, TOM, US  
[72] RIDKER, PAUL, US  
[72] LIBBY, PETER, US  
[72] OTTEWELL, PENELOPE, GB  
[72] LAU, YANG YI, US  
[72] DUGAN, MARGARET, US  
[71] NOVARTIS AG, CH  
[85] 2019-12-03  
[86] 2018-06-22 (PCT/IB2018/054637)  
[87] (WO2018/235056)  
[30] US (62/523,458) 2017-06-22  
[30] US (62/596,054) 2017-12-07  
[30] US (62/649,631) 2018-03-29  
[30] TW (107115136) 2018-05-03  
[30] US (15/970,542) 2018-05-03  
[30] US (62/529,515) 2017-07-07  
[30] US (62/550,307) 2017-08-25  
[30] US (62/550,325) 2017-08-25  
[30] IB (PCT/IB2018/053096) 2018-05-03

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[21] **3,066,046**  
[13] A1

[51] **Int.Cl. A61K 31/50 (2006.01) A61K 9/26 (2006.01) A61K 47/14 (2017.01) A61K 47/38 (2006.01) A61P 19/02 (2006.01)**  
[25] EN  
[54] **PHARMACEUTICAL COMPOSITION AND METHOD FOR PREPARING SAME**  
[54] **COMPOSITION PHARMACEUTIQUE ET SA METHODE DE PREPARATION**  
[72] ZHANG, DAIMEI, CN  
[72] ZHANG, TINGTING, CN  
[72] DING, HUAN, CN  
[71] JIANGSU HENGRUI MEDICINE CO., LTD., CN  
[85] 2019-12-03  
[86] 2018-07-03 (PCT/CN2018/094211)  
[87] (WO2019/007317)  
[30] CN (201710536705.9) 2017-07-04  
[30] CN (201711105075.6) 2017-11-10

## Demandes PCT entrant en phase nationale

[21] **3,066,048**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN  
[54] **COMBINATION THERAPY**  
[54] **POLYTHERAPIE**

[72] BI, MEIXIA, US  
[72] HOPSON, CHRISTOPHER B., US  
[72] MAYES, PATRICK A., US  
[72] YADAVILLI, SAPNA, US  
[71] GLAXOSMITHKLINE  
INTELLECTUAL PROPERTY  
DEVELOPMENT LIMITED, GB

[85] 2019-12-03  
[86] 2018-06-08 (PCT/IB2018/054167)  
[87] (WO2018/225033)  
[30] US (62/517,309) 2017-06-09  
[30] US (62/666,278) 2018-05-03

[21] **3,066,049**  
[13] A1

[51] **Int.Cl. G21C 19/00 (2006.01) G21C 17/00 (2006.01) G21C 19/20 (2006.01) G21D 3/00 (2006.01)**

[25] EN  
[54] **COMMUNICATIONS SYSTEMS AND METHODS FOR NUCLEAR REACTOR TOOLING**  
[54] **SYSTEMES ET PROCEDES DE COMMUNICATION POUR OUTILLAGE DE REACTEUR NUCLEAIRE**

[72] SZCZEPAN, ANDRZEJ PIOTR, CA  
[72] JAMIESON, ROBERT WILLIAM, CA  
[72] DROSSIS, JOHN, CA  
[72] BRAVO, CESAR ANTONIO, CA  
[71] CANDU ENERGY INC., CA

[85] 2019-12-04  
[86] 2018-06-22 (PCT/CA2018/050769)  
[87] (WO2018/232525)  
[30] US (62/524,411) 2017-06-23  
[30] US (62/646,449) 2018-03-22

[21] **3,066,051**  
[13] A1

[51] **Int.Cl. E03D 9/02 (2006.01) B08B 9/093 (2006.01)**

[25] EN  
[54] **TOILET CLEANING DEVICES SYSTEMS AND METHODS**  
[54] **PROCEDES DE NETTOYAGE DE TOILETTES**

[72] SONOVANI, BINYAMIN YEFET, IL  
[71] KILLER WHALE L.T.D, IL

[85] 2019-12-03  
[86] 2018-06-04 (PCT/IL2018/050601)  
[87] (WO2018/225056)  
[30] US (62/514,854) 2017-06-04

[21] **3,066,052**  
[13] A1

[51] **Int.Cl. F24F 11/42 (2018.01) F24F 11/61 (2018.01)**

[25] EN  
[54] **AIR CONDITIONER DEFROSTING CONTROL METHOD AND DEVICE THEREOF**  
[54] **PROCEDE DE COMMANDE DE DEGIVRAGE DE CLIMATISEUR ET DISPOSITIF ASSOCIE**

[72] LI, JUN, CN  
[71] GD MIDEA HEATING & VENTILATING EQUIPMENT CO., LTD., CN

[71] MIDEA GROUP CO., LTD., CN

[85] 2019-12-03  
[86] 2018-12-27 (PCT/CN2018/124385)  
[87] (WO2019/214254)  
[30] CN (201810425172.1) 2018-05-07

[21] **3,066,053**  
[13] A1

[51] **Int.Cl. G01N 33/48 (2006.01) G01N 33/574 (2006.01) G01N 33/577 (2006.01)**

[25] EN  
[54] **METHOD OF PREDICTING PERSONALIZED RESPONSE TO CANCER TREATMENT WITH IMMUNE CHECKPOINT INHIBITORS AND KITS THEREFOR**  
[54] **PROCEDE DE PREDICTION DE REPOSE PERSONNALISEE AU TRAITEMENT DU CANCER PAR DES INHIBITEURS DE POINTS DE CONTROLE IMMUNITAIRES ET TROUSSES ASSOCIEES**

[72] SHAKED, YUVAL, IL  
[71] RAPPAPORT FAMILY INSTITUTE FOR RESEARCH IN THE MEDICAL SCIENCES, IL

[85] 2019-12-03  
[86] 2018-06-04 (PCT/IL2018/050609)  
[87] (WO2018/225063)  
[30] US (62/514,851) 2017-06-04  
[30] US (62/564,392) 2017-09-28  
[30] US (62/594,141) 2017-12-04

[21] **3,066,055**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 35/39 (2015.01) C12N 5/00 (2006.01)**

[25] EN  
[54] **DEVICES AND METHODS FOR DELIVERING THERAPEUTICS**  
[54] **DISPOSITIFS ET METHODES D'ADMINISTRATION DE SUBSTANCES THERAPEUTIQUES**

[72] THANOS, CHRISTOPHER, US  
[72] QIU, YANG, US  
[71] SEMMA THERAPEUTICS, INC., US

[85] 2019-12-03  
[86] 2018-06-14 (PCT/US2018/037637)  
[87] (WO2018/232180)  
[30] US (62/519,702) 2017-06-14

## PCT Applications Entering the National Phase

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[21] **3,066,056**  
[13] A1

[51] **Int.Cl. F24V 30/00 (2018.01)**  
[25] EN  
[54] **HEAT GENERATING DEVICE AND METHOD FOR GENERATING HEAT**  
[54] **DISPOSITIF ET PROCEDE DE PRODUCTION DE CHALEUR**  
[72] IWAMURA, YASUHIRO, JP  
[72] ITO, TAKEHIKO, JP  
[72] KASAGI, JIROTA, JP  
[72] YOSHINO, HIDEKI, JP  
[72] HATTORI, MASANAQ, JP  
[71] CLEAN PLANET INC., JP  
[85] 2019-12-03  
[86] 2018-06-07 (PCT/JP2018/021933)  
[87] (WO2018/230447)  
[30] JP (2017-117917) 2017-06-15

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[21] **3,066,057**  
[13] A1

[51] **Int.Cl. B26B 21/22 (2006.01)**  
[25] EN  
[54] **SHAVING CARTRIDGE WITH ENHANCED RINSABILITY**  
[54] **CARTOUCHE DE RASAGE A RINCAGE AMELIORE**  
[72] BITTENCOURT, ANTONIO CARLOS ACATAUASSU, BR  
[72] MOHITE, YOGESH HUMBIRRAO, IN  
[71] SUPER-MAX PERSONAL CARE PVT.LTD., IN  
[85] 2019-12-03  
[86] 2018-05-05 (PCT/IN2018/050278)  
[87] (WO2019/003241)  
[30] IN (201621044497) 2017-06-26

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[21] **3,066,058**  
[13] A1

[51] **Int.Cl. G01M 3/24 (2006.01)**  
[25] EN  
[54] **PIPELINE DEEP CRACK DETECTION**  
[54] **DETECTION DE FISSURES PROFONDES DE PIPELINE**  
[72] GIESE, JOCHEN, UWE, DE  
[72] MUELLER, OLAF, DE  
[71] GENERAL ELECTRIC COMPANY, US  
[85] 2019-12-03  
[86] 2018-04-13 (PCT/US2018/027464)  
[87] (WO2018/226314)  
[30] US (15/617,632) 2017-06-08

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[21] **3,066,059**  
[13] A1

[51] **Int.Cl. C04B 18/02 (2006.01) C04B 24/04 (2006.01) C09K 3/22 (2006.01) C12N 1/20 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS OF BIOLOGICALLY CEMENTED STRUCTURES FOR MARINE APPLICATIONS**  
[54] **COMPOSITIONS ET PROCEDES DE STRUCTURES CIMENTEES BIOLOGIQUEMENT POUR DES APPLICATIONS MARINES**  
[72] DOSIER, GINGER K., US  
[72] DOSIER, J. MICHAEL, US  
[72] MCALLISTER, STEVEN W., US  
[71] BIOMASON, INC., US  
[85] 2019-12-03  
[86] 2018-04-25 (PCT/US2018/029378)  
[87] (WO2018/200684)  
[30] US (62/489,528) 2017-04-25

---

[21] **3,066,060**  
[13] A1

[51] **Int.Cl. A23L 13/00 (2016.01) C12N 5/077 (2010.01) A23L 17/00 (2016.01)**  
[25] EN  
[54] **EX VIVO MEAT PRODUCTION**  
[54] **PRODUCTION DE CHAIR EX VIVO**  
[72] ELFENBEIN, ARYE, US  
[72] KOLBECK, JUSTIN LEE, US  
[71] WILD TYPE, INC., US  
[85] 2019-12-03  
[86] 2018-06-07 (PCT/US2018/036552)  
[87] (WO2018/227016)  
[30] US (62/516,575) 2017-06-07  
[30] US (62/653,332) 2018-04-05

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[21] **3,066,061**  
[13] A1

[51] **Int.Cl. C11B 7/00 (2006.01) C07C 67/58 (2006.01) C07C 69/587 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING POLYUNSATURATED FATTY ACID-CONTAINING COMPOSITION**  
[54] **PROCEDE DE FABRICATION DE COMPOSITION A TENEUR EN ACIDES GRAS POLYINSATURES**  
[72] IKEMOTO, HIROYUKI, JP  
[72] TAKEMOTO, KENJI, JP  
[72] HARATA, MASATAKA, JP  
[72] NONAKA, SHINGO, JP  
[72] KANAI, HIDEKI, JP  
[71] NISSHIN PHARMA INC., JP  
[85] 2019-12-03  
[86] 2018-06-14 (PCT/JP2018/022654)  
[87] (WO2018/230622)  
[30] JP (2017-116356) 2017-06-14

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[21] **3,066,062**  
[13] A1

[51] **Int.Cl. B01D 61/14 (2006.01) B01D 61/16 (2006.01) B01D 61/58 (2006.01) B01D 63/08 (2006.01) B01D 65/02 (2006.01) B01D 69/12 (2006.01) B01D 71/34 (2006.01) B01D 71/56 (2006.01) B01D 71/68 (2006.01) A61K 38/00 (2006.01) A61K 39/395 (2006.01) A61P 31/12 (2006.01)**  
[25] EN  
[54] **METHOD FOR FILTERING PROTEIN-CONTAINING LIQUID**  
[54] **PROCEDE DE FILTRATION POUR LIQUIDE CONTENANT DES PROTEINES**  
[72] IWASAKI, TAKUMA, JP  
[72] YOKOYAMA, YOSHIRO, JP  
[71] ASAHI KASEI MEDICAL CO., LTD., JP  
[85] 2019-12-03  
[86] 2018-06-05 (PCT/JP2018/021574)  
[87] (WO2018/230397)  
[30] JP (2017-115076) 2017-06-12

## Demandes PCT entrant en phase nationale

[21] **3,066,063**  
[13] A1

[51] **Int.Cl. F03C 1/28 (2006.01) F04B 1/04 (2006.01) F04B 1/12 (2006.01) F04B 53/08 (2006.01) F04B 53/14 (2006.01) F04B 53/18 (2006.01) F16J 1/00 (2006.01)**

[25] FR

[54] **HYDRAULIC PISTON WITH VALVE FOR HOLDING A COOLING AND LUBRICATION SEAL**

[54] **PISTON HYDRAULIQUE A VALVE PORTE-JOINT DE REFROIDISSEMENT ET DE LUBRIFICATION**

[72] RABHI, VIANNEY, FR

[71] RABHI, VIANNEY, FR

[85] 2019-12-03

[86] 2018-06-06 (PCT/FR2018/051300)

[87] (WO2018/224769)

[30] FR (1755029) 2017-06-06

[21] **3,066,064**  
[13] A1

[51] **Int.Cl. A61B 17/17 (2006.01) A61B 17/04 (2006.01)**

[25] EN

[54] **MULTI-BARREL DRILL GUIDE**

[54] **GUIDE-FORET A PLUSIEURS CANONS**

[72] THIBODEAU, ROBERT A., US

[72] SUMMITT, MATTHEW C., US

[72] ALFONSO, GREGORY A., US

[72] ROFMAN, ROBERT A., US

[72] CALVERT, ERIKA T., US

[71] CONMED CORPORATION, US

[85] 2019-12-03

[86] 2018-05-31 (PCT/US2018/035260)

[87] (WO2018/226490)

[30] US (62/515,074) 2017-06-05

[30] US (15/679,641) 2017-08-17

[21] **3,066,065**  
[13] A1

[51] **Int.Cl. A61M 1/00 (2006.01) A61F 13/00 (2006.01) A61F 13/02 (2006.01)**

[25] EN

[54] **PEEL AND PLACE DRESSING FOR NEGATIVE-PRESSURE TREATMENT**

[54] **PANSEMENT DE DECOLLEMENT ET DE PLACEMENT DESTINE A UN TRAITEMENT PAR PRESSION NEGATIVE**

[72] LOCKE, CHRISTOPHER BRIAN, GB

[72] ROBINSON, TIMOTHY MARK, GB

[71] KCI LICENSING, INC., US

[85] 2019-12-03

[86] 2018-06-05 (PCT/US2018/036129)

[87] (WO2018/226744)

[30] US (62/516,566) 2017-06-07

[30] US (62/516,550) 2017-06-07

[30] US (62/565,754) 2017-09-29

[30] US (62/576,498) 2017-10-24

[30] US (62/592,950) 2017-11-30

[30] US (62/613,494) 2018-01-04

[30] US (62/615,821) 2018-01-10

[30] US (62/616,244) 2018-01-11

[30] US (62/623,325) 2018-01-29

[30] US (62/625,704) 2018-02-02

[30] US (62/633,438) 2018-02-21

[30] US (62/650,572) 2018-03-30

[30] US (62/516,540) 2017-06-07

[21] **3,066,067**  
[13] A1

[51] **Int.Cl. B60T 3/00 (2006.01) B65G 69/00 (2006.01) B65G 69/28 (2006.01)**

[25] EN

[54] **A RESTRAINT SYSTEM FOR A FREIGHT TRANSPORTER AND A RELATED METHOD**

[54] **SYSTEME DE RETENUE POUR UN TRANSPORTEUR DE FRET ET PROCEDE ASSOCIE**

[72] BOWMAN, KENNETH C., US

[72] KIKSTRA, LEONARD, US

[71] RITE-HITE HOLDING CORPORATION, US

[85] 2019-12-03

[86] 2018-05-31 (PCT/US2018/035300)

[87] (WO2018/226496)

[30] US (15/614,229) 2017-06-05

[21] **3,066,068**  
[13] A1

[51] **Int.Cl. C04B 26/28 (2006.01) C08L 3/04 (2006.01)**

[25] EN

[54] **JOINT COMPOUND WITH SULFONATED STARCH**

[54] **PATE A JOINTS COMPRENANT DE L'AMIDON SULFONE**

[72] WEINBERGER, RENEE J., US

[72] LU, RUNHAI, US

[72] SANG, YIJUN, US

[72] ROSENTHAL, GUY L., US

[71] UNITED STATES GYPSUM COMPANY, US

[85] 2019-12-03

[86] 2018-06-05 (PCT/US2018/035962)

[87] (WO2018/226629)

[30] US (62/516,348) 2017-06-07

[30] US (15/914,633) 2018-03-07

[21] **3,066,069**  
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) C12Q 1/04 (2006.01)**

[25] EN

[54] **CULTURE MEDIUM FOR DETECTION OF BACTERIUM BELONGING TO GENUS LISTERIA**

[54] **MILIEU DE CULTURE POUR DETECTION DE LISTERIA**

[72] HOSOKAWA, SHUHEI, JP

[72] MIZUOCHI, SHINGO, JP

[72] KASHIDA, MITSUAKI, JP

[71] NISSUI PHARMACEUTICAL CO., LTD., JP

[85] 2019-12-03

[86] 2018-06-07 (PCT/JP2018/021855)

[87] (WO2018/225821)

[30] JP (2017-114054) 2017-06-09

[21] **3,066,070**  
[13] A1

[51] **Int.Cl. C11D 3/37 (2006.01)**

[25] FR

[54] **PHOSPHATE-FREE POLYMERIC DETERGENT COMPOSITION**

[54] **COMPOSITION DETERGENTE POLYMERIQUE SANS PHOSPHATE**

[72] KENSICHER, YVES, FR

[72] SUAU, JEAN-MARC, FR

[71] COATEX, FR

[85] 2019-12-03

[86] 2018-06-13 (PCT/FR2018/051390)

[87] (WO2018/229430)

[30] FR (1755451) 2017-06-16

## PCT Applications Entering the National Phase

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[21] **3,066,071**  
[13] A1

[51] **Int.Cl. B65D 5/00 (2006.01) B65D 5/42 (2006.01) B65D 5/50 (2006.01)**

[25] EN

[54] **PACKAGING SYSTEM FOR PERSONAL CARE PRODUCT**

[54] **SYSTEME D'EMBALLAGE DESTINE A UN PRODUIT DE SOINS PERSONNELS**

[72] MAROTTI, MARTIN JAY, US

[72] GAUVIN, ANDREW MARTIN JOSEPH, US

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2019-12-03

[86] 2018-03-23 (PCT/US2018/023908)

[87] (WO2018/226291)

[30] US (62/515,549) 2017-06-06

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[21] **3,066,072**  
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR LIGHTING FIXTURES**

[54] **SYSTEMES ET PROCEDES POUR APPAREILS D'ECLAIRAGE**

[72] DUONG, DUNG, US

[72] JOHNSON, RANDALL, US

[72] KLASE, NICHOLAS, US

[71] FLUENCE BIOENGINEERING, INC., US

[85] 2019-12-03

[86] 2018-05-25 (PCT/US2018/034544)

[87] (WO2018/226431)

[30] US (62/516,412) 2017-06-07

[30] US (15/684,665) 2017-08-23

[30] US (15/688,358) 2017-08-28

[30] US (15/697,149) 2017-09-06

[30] US (15/829,197) 2017-12-01

[30] US (15/859,409) 2017-12-30

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[21] **3,066,074**  
[13] A1

[51] **Int.Cl. C12P 21/00 (2006.01) A61K 38/00 (2006.01) A61K 39/395 (2006.01) C07K 14/00 (2006.01)**

[25] EN

[54] **GUIDED COMBINATIONAL THERAPEUTIC ANTIBODY**

[54] **ANTICORPS THERAPEUTIQUE COMBINATOIRE GUIDE**

[72] YONGJUN, GUAN, US

[71] ANTIBODY BIOPHARM, INC., US

[85] 2019-12-03

[86] 2018-06-07 (PCT/US2018/036497)

[87] (WO2018/226985)

[30] US (62/516,583) 2017-06-07

---

[21] **3,066,075**  
[13] A1

[51] **Int.Cl. B01J 19/32 (2006.01) B01D 53/18 (2006.01) B01D 53/78 (2006.01)**

[25] EN

[54] **HYDROPHILIZED MATERIAL, HYDROPHILIZED MEMBER, AND GAS-LIQUID CONTACT APPARATUS IN WHICH SAME IS USED**

[54] **MATERIAU HYDROPHILISE, ELEMENT HYDROPHILISE ET DISPOSITIF DE CONTACT GAZ-LIQUIDE DANS LEQUEL CELUI-CI EST UTILISE**

[72] IKEDA, RYOSUKE, JP

[72] ISO, YOSHIYUKI, JP

[72] NAKAMURA, SHIKO, JP

[72] OKUHARA, HIROHITO, JP

[72] TAKANO, KENJI, JP

[71] IHI CORPORATION, JP

[85] 2019-12-03

[86] 2018-07-20 (PCT/JP2018/027328)

[87] (WO2019/021966)

[30] JP (2017-143328) 2017-07-25

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[21] **3,066,076**  
[13] A1

[51] **Int.Cl. G06Q 10/00 (2012.01) G06Q 50/26 (2012.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR TAILORING AN ELECTRONIC DIGITAL ASSISTANT INQUIRY RESPONSE AS A FUNCTION OF PREVIOUSLY DETECTED USER INGESTION OF RELATED VIDEO INFORMATION**

[54] **SYSTEME ET PROCEDE POUR PERSONNALISER UNE REPONSE D'INTERROGATION D'ASSISTANT NUMERIQUE ELECTRONIQUE EN FONCTION D'UNE INGESTION D'UTILISATEUR PRECEDEMENT DETECTEE D'INFORMATIONSVIDEO ASSOCIEES**

[72] KOSKAN, PATRICK D., US

[72] BLANCO, ALEJANDRO G., US

[71] MOTOROLA SOLUTIONS, INC., US

[85] 2019-12-03

[86] 2018-05-24 (PCT/US2018/034397)

[87] (WO2018/226423)

[30] US (15/613,336) 2017-06-05

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[21] **3,066,077**  
[13] A1

[51] **Int.Cl. C07K 7/06 (2006.01) A61K 38/00 (2006.01)**

[25] EN

[54] **TAU AGGREGATION INHIBITORS**

[54] **INHIBITEUR D'AGREGATION DE TAU**

[72] TANAKA, SHIHO, US

[72] WRIGHT, ASHLEY, US

[72] TREANOR, JAMES, US

[72] APOSTOL, MARCIN, US

[71] ADRX, INC., US

[85] 2019-12-03

[86] 2018-06-07 (PCT/US2018/036507)

[87] (WO2018/226992)

[30] US (62/516,393) 2017-06-07

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[21] **3,066,078**  
[13] A1

[51] **Int.Cl. B65G 43/08 (2006.01) B65G 47/90 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR IDENTIFYING AND TRANSFERRING PARCELS FROM A FIRST CONVEYOR TO A SECOND CONVEYOR**

[54] **SYSTEME ET PROCEDE D'IDENTIFICATION ET DE TRANSFERT DE COLIS D'UN PREMIER TRANSPORTEUR A UN SECOND TRANSPORTEUR**

[72] HILLERICH, THOMAS ANTHONY, JR., US

[72] MCCUE, MICHAEL ALAN, US

[72] STURM, GREGORY ROBERT, US

[72] CALDWELL, DAVID W., II, US

[72] STURM, DEREK ROBERT, US

[71] MATERIAL HANDLING SYSTEMS, INC., US

[85] 2019-12-03

[86] 2018-06-06 (PCT/US2018/036180)

[87] (WO2018/226773)

[30] US (62/515,909) 2017-06-06

[30] US (62/616,469) 2018-01-12

## Demandes PCT entrant en phase nationale

[21] **3,066,080**  
[13] A1

[51] **Int.Cl. B01D 71/06 (2006.01) B01D 69/10 (2006.01) B01D 69/12 (2006.01) C07C 7/144 (2006.01) C07C 9/00 (2006.01) C07C 11/02 (2006.01)**

[25] EN

[54] **TRANSPORT MEMBRANES FOR OLEFIN/PARAFFIN SEPARATIONS**

[54] **MEMBRANES DE TRANSPORT POUR SEPARATIONS D'OLEFINES/PARAFFINES**

[72] KARNS, NICOLE K., US

[72] LIU, CHUNQING, US

[71] UOP LLC, US

[85] 2019-12-03

[86] 2018-05-30 (PCT/US2018/035004)

[87] (WO2018/226466)

[30] US (15/615,134) 2017-06-06

[21] **3,066,081**  
[13] A1

[51] **Int.Cl. A61F 2/16 (2006.01) A61F 9/00 (2006.01) G02B 3/08 (2006.01)**

[25] EN

[54] **ADJUSTABLE OPTICAL POWER INTRAOCULAR LENSES**

[54] **LENTILLES INTRAOCULAIRES A PUISSANCE OPTIQUE REGLABLE**

[72] ARGENTO, CLAUDIO, US

[72] SAUL, TOM, US

[72] MIXTER, COLIN, US

[71] SHIFAMED HOLDINGS, LLC, US

[85] 2019-12-03

[86] 2018-06-07 (PCT/US2018/036548)

[87] (WO2018/227014)

[30] US (62/516,541) 2017-06-07

[21] **3,066,083**  
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A23L 33/10 (2016.01) A61K 31/18 (2006.01) A61K 31/506 (2006.01)**

[25] EN

[54] **N2,N4-DIPHENYLPYRIMIDINE-2,4-DIAMINE DERIVATIVE, METHOD FOR PREPARING SAME, AND PHARMACEUTICAL COMPOSITION CONTAINING SAME AS ACTIVE INGREDIENT FOR PREVENTION OR TREATMENT OF CANCER**

[54] **DERIVE DE N2,N4-DIPHENYLPYRIMIDINE-2,4-DIAMINE, SON PROCEDE DE PREPARATION, ET COMPOSITION PHARMACEUTIQUE LE CONTENANT COMME PRINCIPE ACTIF POUR LA PREVENTION OU LE TRAITEMENT DU CANCER**

[72] LEE, KWANGHO, KR

[72] SHIN, INJI, KR

[72] CHOI, GILDON, KR

[72] CHAE, CHONG HAK, KR

[72] CHOE, HYEON JEONG, KR

[72] JUNG, MYOUNG EUN, KR

[72] JEON, BYEONG UK, KR

[72] CHO, BYOUNG CHUL, KR

[72] PARK, CHAE WON, KR

[72] KIM, HWAN, KR

[72] DUGGIRALA, KRISHNA BABU, KR

[71] KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY, KR

[85] 2019-12-03

[86] 2018-06-12 (PCT/KR2018/006644)

[87] (WO2018/230934)

[30] KR (10-2017-0073907) 2017-06-13

[30] KR (10-2017-0146241) 2017-11-03

[21] **3,066,084**  
[13] A1

[51] **Int.Cl. A61K 31/47 (2006.01) A61K 31/404 (2006.01) A61K 31/443 (2006.01) A61K 31/4439 (2006.01) A61P 11/12 (2006.01)**

[25] EN

[54] **METHODS OF TREATMENT FOR CYSTIC FIBROSIS**

[54] **METHODES DE TRAITEMENT DE LA FIBROSE KYSTIQUE**

[72] HASELTINE, ERIC L., US

[72] MOSKOWITZ, SAMUEL, US

[72] ROBERTSON, SARAH, US

[72] WALTZ, DAVID, US

[72] CHEN, WEICHAO GEORGE, US

[71] VERTEX PHARMACEUTICALS INCORPORATED, US

[85] 2019-12-03

[86] 2018-06-08 (PCT/US2018/036610)

[87] (WO2018/227049)

[30] US (62/517,049) 2017-06-08

[30] US (62/533,381) 2017-07-17

[30] US (62/562,044) 2017-09-22

[30] US (62/623,757) 2018-01-30

[30] US (62/633,021) 2018-02-20

[30] US (62/649,266) 2018-03-28

[21] **3,066,085**  
[13] A1

[51] **Int.Cl. C07K 14/245 (2006.01) A61K 35/74 (2015.01) C07K 14/005 (2006.01) C12N 9/06 (2006.01) C12N 9/88 (2006.01)**

[25] EN

[54] **BACTERIA FOR THE TREATMENT OF DISORDERS**

[54] **BACTERIES POUR LE TRAITEMENT DE TROUBLES**

[72] FALB, DEAN, US

[72] FISHER, ADAM B., US

[72] ISABELLA, VINCENT M., US

[72] KOTULA, JONATHAN W., US

[72] LUBKOWICZ, DAVID, US

[72] MILLER, PAUL F., US

[72] MILLET, YVES, US

[72] ROWE, SARAH ELIZABETH, US

[71] SYNLOGIC OPERATING COMPANY, INC., US

[85] 2019-12-03

[86] 2018-06-21 (PCT/US2018/038840)

[87] (WO2018/237198)

[30] US (62/523,225) 2017-06-21

[30] US (62/523,202) 2017-06-21

[30] US (62/552,829) 2017-08-31

[30] US (62/552,785) 2017-08-31

[30] US (62/614,213) 2018-01-05

[30] US (62/624,299) 2018-01-31

## PCT Applications Entering the National Phase

[21] **3,066,086**  
[13] A1

[51] **Int.Cl. F24D 17/00 (2006.01) F24D 19/10 (2006.01) F24H 1/08 (2006.01) F24H 1/12 (2006.01) F24H 9/12 (2006.01) F24H 9/20 (2006.01)**

[25] EN

[54] **RECIRCULATING FLUID HEATING SYSTEMS**

[54] **SYSTEMES DE CHAUFFAGE DE FLUIDE DE RECIRCULATION**

[72] CALLAHAN, JEREMIAH M., US

[72] DOESBURG, ERIC J., US

[72] LYON, GREGORY S., US

[72] WIECKOWSKI, MICHAEL J., US

[71] HEATWORKS TECHNOLOGIES, INC., US

[85] 2019-12-03

[86] 2018-06-05 (PCT/US2018/036075)

[87] (WO2018/226706)

[30] US (62/515,831) 2017-06-06

[21] **3,066,087**  
[13] A1

[51] **Int.Cl. D04H 1/4334 (2012.01)**

[25] EN

[54] **POLYAMIDE NANOFIBER NONWOVENS**

[54] **NON-TISSES EN NANOFIBRES DE POLYAMIDE**

[72] YUNG, WAI-SHING, US

[72] OSBORN, SCOTT, US

[72] SCHWIER, CHRIS, US

[72] GOPAL, VIKRAM, US

[72] ORTEGA, ALBERT, US

[71] ASCEND PERFORMANCE MATERIALS OPERATIONS LLC, US

[85] 2019-12-03

[86] 2018-06-08 (PCT/US2018/036637)

[87] (WO2018/227069)

[30] US (62/516,867) 2017-06-08

[30] US (62/518,769) 2017-06-13

[21] **3,066,088**  
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01) H04W 72/04 (2009.01) H04L 27/26 (2006.01) H04B 7/06 (2006.01)**

[25] EN

[54] **DEMODULATION REFERENCE SIGNAL (DMRS) SEQUENCE GENERATION AND RESOURCE MAPPING FOR PHYSICAL BROADCAST CHANNEL (PBCH) TRANSMISSIONS**

[54] **GENERATION DE SEQUENCE DE SIGNAL DE REFERENCE DE DEMODULATION (DMRS) ET MISE EN CORRESPONDANCE DE RESSOURCES POUR DES TRANSMISSIONS DE CANAL DE DIFFUSION PHYSIQUE (PBCH)**

[72] NAM, WOOSEOK, US

[72] LUO, TAO, US

[72] WANG, XIAO FENG, US

[72] AKKARAKARAN, SONY, US

[72] JOHN WILSON, MAKESH PRAVIN, US

[72] NAGARAJA, SUMEETH, US

[72] CHAKRABORTY, KAUSHIK, US

[72] CHEN, SHENGBO, US

[71] QUALCOMM INCORPORATED, US

[85] 2019-12-03

[86] 2018-06-28 (PCT/US2018/039977)

[87] (WO2019/013986)

[30] US (62/530,824) 2017-07-10

[30] US (16/020,248) 2018-06-27

[21] **3,066,089**  
[13] A1

[51] **Int.Cl. C08G 75/00 (2006.01) C08G 75/02 (2016.01)**

[25] EN

[54] **DUAL CURE SEALANTS**

[54] **PRODUITS D'ETANCHEITE A DOUBLE DURCISSEMENT**

[72] LIU, JIANCHENG, US

[72] PATHAK, SRIKANT, US

[72] VIRNELSON, BRUCE, US

[71] PRC-DESOTO INTERNATIONAL, INC., US

[85] 2019-12-03

[86] 2018-06-08 (PCT/US2018/036746)

[87] (WO2018/227149)

[30] US (62/517,648) 2017-06-09

[21] **3,066,091**  
[13] A1

[51] **Int.Cl. G01C 21/20 (2006.01) G01C 21/34 (2006.01) G08B 7/06 (2006.01) G08B 25/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR AIDING RESPONSES TO AN EVENT DETECTED BY A MONITORING SYSTEM**

[54] **SYSTEME ET PROCEDE D'AIDE A DES REPONSES A UN EVENEMENT DETECTE PAR UN SYSTEME DE SURVEILLANCE**

[72] CORRENTI, MATTHEW DANIEL, US

[72] ALPERT, CHARLES RICHARD, US

[72] ROBERTS, AARON LEE, US

[71] ALARM.COM INCORPORATED, US

[85] 2019-12-03

[86] 2018-06-08 (PCT/US2018/036747)

[87] (WO2018/227150)

[30] US (62/517,813) 2017-06-09

[21] **3,066,092**  
[13] A1

[51] **Int.Cl. C07D 333/52 (2006.01) C07D 333/60 (2006.01) C09K 11/06 (2006.01) H01G 9/20 (2006.01) H01L 51/42 (2006.01) H01L 51/46 (2006.01)**

[25] EN

[54] **VISIBLY TRANSPARENT, NEAR-INFRARED-ABSORBING AND ULTRAVIOLET-ABSORBING PHOTOVOLTAIC DEVICES**

[54] **DISPOSITIFS PHOTOVOLTAIQUES VISIBLEMENT TRANSPARENTS, ABSORBANT LE PROCHE INFRAROUGE ET ABSORBANT LES ULTRAVIOLETS**

[72] BARR, MILES, US

[72] PANDEY, RICHA, US

[72] JUROW, MATTHEW, US

[72] HE, BO, US

[71] UBIQUITOUS ENERGY, INC., US

[85] 2019-12-03

[86] 2018-06-15 (PCT/US2018/037923)

[87] (WO2018/232358)

[30] US (62/521,154) 2017-06-16

[30] US (62/521,158) 2017-06-16

[30] US (62/521,160) 2017-06-16

[30] US (62/521,211) 2017-06-16

[30] US (62/521,214) 2017-06-16

[30] US (62/521,224) 2017-06-16

## Demandes PCT entrant en phase nationale

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[21] **3,066,093**  
[13] A1

[51] **Int.Cl. A61M 1/00 (2006.01) A61F 13/00 (2006.01) A61F 13/02 (2006.01)**

[25] EN

[54] **COMPOSITE DRESSINGS FOR IMPROVED GRANULATION AND REDUCED MACERATION WITH NEGATIVE-PRESSURE TREATMENT**

[54] **PANSEMENTS COMPOSITES POUR GRANULATION AMELIOREE ET MACERATION REDUITE AVEC TRAITEMENT A PRESSION NEGATIVE**

[72] LOCKE, CHRISTOPHER BRIAN, GB

[72] ROBINSON, TIMOTHY MARK, GB

[71] KCI LICENSING, INC., US

[85] 2019-12-03

[86] 2018-06-05 (PCT/US2018/036074)

[87] (WO2018/226705)

[30] US (62/516,540) 2017-06-07

[30] US (62/516,550) 2017-06-07

[30] US (62/516,566) 2017-06-07

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[21] **3,066,094**  
[13] A1

[51] **Int.Cl. C08G 59/68 (2006.01) C08G 63/82 (2006.01) C08L 63/00 (2006.01)**

[25] EN

[54] **ION-CROSSLINKED POLYMERIC OR OLIGOMERIC COMPOSITIONS**

[54] **COMPOSITIONS POLYMERES OU OLIGOMERES RETICULEES PAR DES IONS**

[72] YANG, JIAN, US

[72] GERHARD, ETHAN, US

[71] THE PENN STATE RESEARCH FOUNDATION, US

[85] 2019-12-03

[86] 2018-06-08 (PCT/US2018/036750)

[87] (WO2018/227151)

[30] US (62/517,377) 2017-06-09

[30] US (62/517,418) 2017-06-09

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[21] **3,066,095**  
[13] A1

[51] **Int.Cl. B65D 90/10 (2006.01) B65D 88/76 (2006.01) E03F 5/10 (2006.01)**

[25] EN

[54] **TANK FOR PRESSURE SEWER INSTALLATION**

[54] **RESERVOIR POUR INSTALLATION D'EGOUT SOUS PRESSION**

[72] CASEY, EAMON, AU

[72] PASTULOVIC, PAUL, AU

[71] SOUTH EAST WATER CORPORATION, AU

[85] 2019-12-04

[86] 2018-06-29 (PCT/AU2018/050678)

[87] (WO2019/000052)

[30] AU (2017902555) 2017-06-30

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[21] **3,066,096**  
[13] A1

[51] **Int.Cl. C10G 17/02 (2006.01) C10G 31/08 (2006.01) C10G 32/02 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS OF REMOVING CONTAMINANTS IN REFINERY DESALTING**

[54] **COMPOSITIONS ET PROCEDES D'ELIMINATION DE CONTAMINANTS DANS LE DESSALAGE DE RAFFINERIE**

[72] FELIPE, MARY JANE LEGASPI, US

[72] WEERS, JERRY J., US

[72] NGUYEN, TRAN M., US

[71] BAKER HUGHES, A GE COMPANY, LLC, US

[85] 2019-12-03

[86] 2018-06-05 (PCT/US2018/036103)

[87] (WO2018/226723)

[30] US (62/515,281) 2017-06-05

[30] US (15/997,127) 2018-06-04

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[21] **3,066,097**  
[13] A1

[51] **Int.Cl. F21V 8/00 (2006.01) F21V 29/83 (2015.01) F21V 23/00 (2015.01)**

[25] EN

[54] **OPTIC ASSEMBLIES AND FIXTURES COMPRISING THE SAME**

[54] **ENSEMBLES OPTIQUES ET APPAREILS COMPRENANT CEUX-CI**

[72] LIM, JIN HONG, US

[72] WILCOX, KURT, US

[72] KARPICHEV, BORIS, US

[72] WALKER, DONALD, US

[71] IDEAL INDUSTRIES LIGHTING LLC, US

[85] 2019-12-03

[86] 2018-06-13 (PCT/US2018/037301)

[87] (WO2018/231959)

[30] US (15/625,546) 2017-06-16

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[21] **3,066,098**  
[13] A1

[51] **Int.Cl. G21C 19/20 (2006.01)**

[25] EN

[54] **CALANDRIA TUBE INSERT RELEASE AND REMOVAL TOOL AND METHOD**

[54] **OUTIL ET PROCEDE DE LIBERATION ET D'ENL?VEMENT D'INSERTION DE TUBE DE CALANDRE**

[72] RICHARD, CRAIG, CA

[72] SZCZEPAN, ANDRZEJ PIOTR, CA

[72] JAMIESON, ROBERT WILLIAM, CA

[72] PATTERSON, CHUCK, CA

[72] DEADMAN, JASON, CA

[72] SOLTI, GEORGE, CA

[72] JACOBS, CHRIS, CA

[71] CANDU ENERGY INC., CA

[85] 2019-12-04

[86] 2018-06-22 (PCT/CA2018/050770)

[87] (WO2018/232526)

[30] US (62/524,085) 2017-06-23

## PCT Applications Entering the National Phase

[21] **3,066,099**  
[13] A1

[51] **Int.Cl. C11D 1/83 (2006.01) C11D 1/12 (2006.01) C11D 1/14 (2006.01) C11D 1/94 (2006.01) C11D 11/00 (2006.01) C11D 17/04 (2006.01) C11D 1/72 (2006.01) C11D 1/75 (2006.01)**

[25] EN

[54] **CLEANING PRODUCT**

[54] **PRODUIT DE NETTOYAGE**

[72] ROSMANINHO, ROXANE, BE

[72] DEBRECZENI, MATE, BE

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2019-12-03

[86] 2018-06-18 (PCT/US2018/038006)

[87] (WO2018/236713)

[30] EP (17177275.9) 2017-06-22

[30] EP (18153117.9) 2018-01-24

[21] **3,066,100**  
[13] A1

[51] **Int.Cl. A61B 8/00 (2006.01)**

[25] EN

[54] **AMPLIFIER WITH BUILT IN TIME GAIN COMPENSATION FOR ULTRASOUND APPLICATIONS**

[54] **AMPLIFICATEUR DOTE D'UNE COMPENSATION DE GAIN EN TEMPS INTEGREE DESTINE A DES APPLICATIONS ULTRASONORES**

[72] SINGH, AMANDEEP, US

[72] CHEN, KAILIANG, US

[72] RALSTON, TYLER S., US

[71] BUTTERFLY NETWORK, INC., US

[85] 2019-12-03

[86] 2018-06-19 (PCT/US2018/038148)

[87] (WO2018/236779)

[30] US (62/522,622) 2017-06-20

[21] **3,066,101**  
[13] A1

[51] **Int.Cl. G21C 17/00 (2006.01) G21C 17/017 (2006.01)**

[25] EN

[54] **INSPECTION TOOL AND METHOD FOR NUCLEAR REACTOR FUEL CHANNEL ASSEMBLY**

[54] **OUTIL ET PROCEDE D'INSPECTION POUR ASSEMBLAGE DE CANAL DE COMBUSTIBLE DE REACTEUR NUCLEAIRE**

[72] DROSSIS, JOHN, CA

[72] DI CARLO, KEVIN, CA

[72] JAMIESON, ROBERT WILLIAM, CA

[72] ROWE, RON, CA

[72] DEADMAN, JASON, CA

[71] CANDU ENERGY INC., CA

[85] 2019-12-04

[86] 2018-06-20 (PCT/CA2018/050751)

[87] (WO2018/232508)

[30] US (62/524,113) 2017-06-23

[21] **3,066,102**  
[13] A1

[51] **Int.Cl. F01L 1/02 (2006.01)**

[25] EN

[54] **SYNCHRONOUS BELT DRIVE SYSTEM**

[54] **SYSTEME D'ENTRAINEMENT A COURROIE SYNCHRONE**

[72] LACY, WILLIAM FRASER, US

[71] GATES CORPORATION, US

[85] 2019-12-03

[86] 2018-06-28 (PCT/US2018/039989)

[87] (WO2019/010053)

[30] US (15/642,041) 2017-07-05

[21] **3,066,103**  
[13] A1

[51] **Int.Cl. G21C 19/20 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR ALIGNING NUCLEAR REACTOR TUBES AND END FITTINGS USING TUBE ROTATION**

[54] **SYSTEME ET PROCEDE D'ALIGNEMENT DE TUBES DE REACTEUR NUCLEAIRE ET DE RACCORDS D'EXTREMITE A L'AIDE D'UNE ROTATION DE TUBE**

[72] STRANART, JEAN-CLAUDE, CA

[72] ZIAEI, REZA, CA

[71] CANDU ENERGY INC., CA

[85] 2019-12-04

[86] 2018-06-22 (PCT/CA2018/050775)

[87] (WO2018/232530)

[30] US (62/524,422) 2017-06-23

[21] **3,066,104**  
[13] A1

[51] **Int.Cl. E21B 43/267 (2006.01) C09K 8/92 (2006.01) E21B 33/12 (2006.01) E21B 43/14 (2006.01)**

[25] EN

[54] **METHOD FOR TEMPORARY ISOLATION OF WELL INTERVAL, METHOD FOR HYDRAULIC REFRACTURING, AND METHOD FOR WELL KILLING**

[54] **PROCEDE D'ISOLATION PROVISOIRE D'UN INTERVALLE DE Puits, PROCEDE D'UNE FRACTURATION HYDRAULIQUE REPETEE D'UNE FORMATION ET PROCEDE D'ETOUFFEMENT D'UN Puits**

[72] DANILEVICH, ELENA VLADIMIROVNA, RU

[72] PARKHONYUK, SERGEY DMITRIEVICH, RU

[72] SILKO, NIKITA YURIEVICH, RU

[71] SCHLUMBERGER CANADA LIMITED, CA

[85] 2019-12-03

[86] 2017-06-09 (PCT/RU2017/000394)

[87] (WO2018/226113)

## Demandes PCT entrant en phase nationale

[21] **3,066,105**  
[13] A1

[51] **Int.Cl. C11D 1/29 (2006.01) C11D 1/37 (2006.01) C11D 11/00 (2006.01)**

[25] EN

[54] **DETERGENT COMPOSITIONS COMPRISING AES SURFACTANT HAVING ALKYL CHAIN LENGTHS OF FOURTEEN TOTAL CARBONS**

[54] **COMPOSITIONS DETERGENTES COMPRENANT UN TENSIOACTIF A BASE D'AES PRESENTANT DES LONGUEURS DE CHAINE ALKYLE DE QUATORZE CARBONES AU TOTAL**

[72] VINSON, PHILLIP KYLE, US

[72] STENGER, PATRICK CHRISTOPHER, US

[72] SHEAROUSE, WILLIAM COFFIN, US

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2019-12-03

[86] 2018-06-29 (PCT/US2018/040163)

[87] (WO2019/006223)

[30] US (15/638,411) 2017-06-30

[21] **3,066,106**  
[13] A1

[51] **Int.Cl. H04W 36/00 (2009.01) H04W 74/00 (2009.01)**

[25] EN

[54] **SYNCHRONIZATION SIGNAL TRANSMISSION FOR MOBILITY**

[54] **EMISSION DE SIGNAUX DE SYNCHRONISATION POUR DES FINS DE MOBILITE**

[72] ISLAM, MUHAMMAD NAZMUL, US

[72] LI, JUNYI, US

[72] ABEDINI, NAVID, US

[72] SUBRAMANIAN, SUNDAR, US

[71] QUALCOMM INCORPORATED, US

[85] 2019-12-03

[86] 2018-07-04 (PCT/US2018/040833)

[87] (WO2019/014033)

[30] US (16/027,050) 2018-07-03

[30] US (62/531,289) 2017-07-11

[21] **3,066,107**  
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) C12N 5/0793 (2010.01) A61K 38/17 (2006.01) C07H 21/04 (2006.01) C12N 15/87 (2006.01)**

[25] EN

[54] **COMBINATION THERAPIES FOR INNER EAR SENSORY HAIR CELL REGENERATION/REPLACEMENT**

[54] **POLYTHERAPIES POUR LA REGENERATION/LE REMPLACEMENT DES CELLULES CILIEES SENSORIELLES DE L'OREILLE INTERNE**

[72] WEST, MATTHEW B., US

[72] KOPKE, RICHARD D., US

[71] HOUGH EAR INSTITUTE, US

[85] 2019-12-03

[86] 2017-06-02 (PCT/US2017/035673)

[87] (WO2017/210553)

[30] US (62/345,740) 2016-06-03

[21] **3,066,109**  
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) C12N 15/70 (2006.01) C12N 15/74 (2006.01)**

[25] EN

[54] **MICROORGANISMS PROGRAMMED TO PRODUCE IMMUNE MODULATORS AND ANTI-CANCER THERAPEUTICS IN TUMOR CELLS**

[54] **MICRO-ORGANISMES PROGRAMMES POUR PRODUIRE DES IMMUNOMODULATEURS ET DES AGENTS THERAPEUTIQUES ANTICANCEREUX DANS DES CELLULES TUMORALES**

[72] FISHER, ADAM, US

[72] LI, NING, US

[72] LORA, JOSE M., US

[71] SYNLOGIC OPERATING COMPANY, INC., US

[85] 2019-12-03

[86] 2018-07-11 (PCT/US2018/041705)

[87] (WO2019/014391)

[30] US (62/531,784) 2017-07-12

[30] US (62/543,322) 2017-08-09

[30] US (62/552,319) 2017-08-30

[30] US (62/592,317) 2017-11-29

[30] US (62/607,210) 2017-12-18

[30] US (PCT/US2018/012698) 2018-01-05

[30] US (62/628,786) 2018-02-09

[30] US (62/642,535) 2018-03-13

[30] US (62/657,487) 2018-04-13

[30] US (62/688,852) 2018-06-22

[21] **3,066,110**  
[13] A1

[51] **Int.Cl. C07D 249/14 (2006.01) A61K 31/4196 (2006.01) A61K 31/4439 (2006.01) A61K 31/506 (2006.01) A61K 31/517 (2006.01) A61P 35/00 (2006.01) C07D 401/04 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 405/04 (2006.01) C07D 405/12 (2006.01) C07D 409/12 (2006.01) C07D 409/14 (2006.01) C07D 417/12 (2006.01)**

[25] EN

[54] **TRIAZOLE BENZAMIDE DERIVATIVES AND THE COMPOSITIONS AND METHODS OF TREATMENT REGARDING THE SAME**

[54] **DERIVES DE TRIAZOLE BENZAMIDE ET COMPOSITIONS ET PROCEDES DE TRAITEMENT ASSOCIES**

[72] JOHNSTON, JENNIFER, US

[72] GAROFALO, ALBERT W., US

[72] FATHEREE, PAUL ROSS, US

[71] AN2H DISCOVERY LIMITED, IE

[85] 2019-12-03

[86] 2017-06-05 (PCT/US2017/035994)

[87] (WO2017/210694)

[30] US (62/345,478) 2016-06-03

[21] **3,066,111**  
[13] A1

[51] **Int.Cl. B31F 1/28 (2006.01) B26D 5/34 (2006.01)**

[25] EN

[54] **CONTROLS FOR PAPER, SHEET, AND BOX MANUFACTURING SYSTEMS**

[54] **COMMANDES DE SYSTEMES DE FABRICATION DE PAPIER, DE FEUILLE ET DE BOITE**

[72] WIDNER, ERNEST BARFIELD, US

[72] JAIN, AMITH SUBHASH CHANDRA, US

[72] SEAY, ROBERT DENNIS, US

[71] GEORGIA-PACIFIC CORRUGATED LLC, US

[85] 2019-12-03

[86] 2018-07-13 (PCT/US2018/041992)

[87] (WO2019/014539)

[30] US (62/532,483) 2017-07-14

[30] US (62/583,853) 2017-11-09

[30] US (16/033,309) 2018-07-12

[30] US (62/597,005) 2017-12-11

## PCT Applications Entering the National Phase

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[21] **3,066,112**  
[13] A1  
[51] **Int.Cl. H01B 7/04 (2006.01) H01B 7/08 (2006.01) H01B 9/00 (2006.01) H01B 9/06 (2006.01) H01B 13/06 (2006.01) H01B 13/14 (2006.01) H01B 13/32 (2006.01)**  
[25] EN  
[54] **POWER CABLES FOR ELECTRIC SUBMERSIBLE PUMP**  
[54] **CABLES D'ALIMENTATION POUR POMPE ELECTRIQUE SUBMERSIBLE**  
[72] MILOUCHEV, TOMA, US  
[72] FOE, BILL, US  
[72] WIENCEK, EDWARD, US  
[71] PRYSMIAN S.P.A., IT  
[85] 2019-12-03  
[86] 2017-06-09 (PCT/US2017/036733)  
[87] (WO2018/226241)

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[21] **3,066,113**  
[13] A1  
[51] **Int.Cl. A61K 31/485 (2006.01) A61K 31/5415 (2006.01) A61P 1/08 (2006.01) A61P 25/04 (2006.01)**  
[25] EN  
[54] **PHARMACEUTICAL COMPOSITIONS COMPRISING AN OPIOID ANALGESIC AND AN ANTIEMETIC TO TREAT PAIN**  
[54] **COMPOSITIONS PHARMACEUTIQUES COMPRENANT UN ANALGESIQUE OPIOIDE ET UN ANTIEMETIQUE POUR TRAITER LA DOULEUR**  
[72] BOSSE, PAUL, US  
[72] HIGGINS, JOHN, US  
[72] SCHACHTEL, BERNARD, US  
[72] KOZAREK, WILLIAM, US  
[71] CHARLESTON LABORATORIES, INC., US  
[85] 2019-12-03  
[86] 2017-06-09 (PCT/US2017/036801)  
[87] (WO2017/214538)  
[30] US (62/348,688) 2016-06-10  
[30] US (62/398,408) 2016-09-22  
[30] US (62/447,745) 2017-01-18

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[21] **3,066,114**  
[13] A1  
[51] **Int.Cl. C10M 159/22 (2006.01) C10M 159/24 (2006.01)**  
[25] EN  
[54] **METHODS FOR IMPROVING RESISTANCE TO TIMING CHAIN WEAR WITH A MULTI-COMPONENT DETERGENT SYSTEM**  
[54] **PROCEDES POUR AMELIORER LA RESISTANCE A L'USURE DE CHAINE DE DISTRIBUTION AVEC UN SYSTEME DE DETERGENT A COMPOSANTS MULTIPLES**  
[72] FLETCHER, KRISTIN, US  
[72] RANSOM, PAUL, GB  
[72] CARPENTIER, GUILLAUME, GB  
[71] AFTON CHEMICAL CORPORATION, US  
[85] 2019-12-03  
[86] 2018-02-28 (PCT/US2018/020221)  
[87] (WO2018/226277)  
[30] US (15/613,696) 2017-06-05

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[21] **3,066,115**  
[13] A1  
[51] **Int.Cl. G06Q 10/04 (2012.01) G06Q 10/06 (2012.01) B31B 50/16 (2017.01) G01N 21/89 (2006.01)**  
[25] EN  
[54] **DIGITAL PRE-PRINT PAPER, SHEET, AND BOX MANUFACTURING SYSTEMS**  
[54] **SYSTEMES NUMERIQUES DE FABRICATION DE PAPIER, DE FEUILLE ET DE BOITE PREIMPRIMES**  
[72] SEAY, ROBERT DENNIS, US  
[71] GEORGIA-PACIFIC CORRUGATED LLC, US  
[85] 2019-12-03  
[86] 2018-07-13 (PCT/US2018/042000)  
[87] (WO2019/014544)  
[30] US (62/532,483) 2017-07-14  
[30] US (62/596,964) 2017-12-11  
[30] US (16/033,348) 2018-07-12

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[21] **3,060,546**

[13] A1

[51] **Int.Cl. H04W 72/00 (2009.01) H04J  
11/00 (2006.01)**

[25] EN

[54] **DYNAMIC CONFIGURATION OF  
A FLEXIBLE ORTHOGONAL  
FREQUENCY DIVISION  
MULTIPLEXING PHY  
TRANSPORT DATA FRAME**

[54] **CONFIGURATION DYNAMIQUE  
D'UNE TRAME FLEXIBLE DE  
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MULTIPLÉXAGE PAR  
REPARTITION ORTHOGONALE  
DE LA FREQUENCE**

[72] SIMON, MICHAEL J., US

[72] SHELBY, KEVIN A., US

[72] EARNSHAW, MARK, CA

[71] ONE MEDIA, LLC, US

[22] 2015-08-07

[41] 2016-02-11

[62] 3,016,736

[30] US (62/034,583) 2014-08-07

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COSTEUX, STEPHANE	2,850,129	DEPUY SYNTHES PRODUCTS, INC.	2,825,198	ECOCHEM INTERNATIONAL, NAAMLOZE VENNOOTSCHAP	2,773,103
COULON, MARTIAL	2,823,442	DEPUY SYNTHES PRODUCTS, INC.	2,844,619	ECOLAB USA INC.	2,976,139
COVEZZI, MASSIMO	3,043,121	DEPUY SYNTHES PRODUCTS, INC.	2,869,421	ECOSERVICES, LLC	2,905,430
		DEPUY SYNTHES PRODUCTS, LLC	2,825,198	EDBAUER, MITCHELL S.	2,863,397
		DEPUY SYNTHES PRODUCTS, LLC	2,869,421	EDWARDS LIFESCIENCES CORPORATION	2,961,051

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EIDLER, WERNER	2,875,952	FOSTER, RICHARD	3,013,004	GELION TECHNOLOGIES PTY LTD	2,938,623
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ELECTRICITE DE FRANCE	2,908,345	FRAMPTON, DION MATTHEW FREDERICK	3,015,426	GENENTECH, INC.	2,734,922
ELI LILLY AND COMPANY	2,963,321	FRANCOTYP-POSTALIA GMBH	2,983,963	GENENTECH, INC.	2,873,663
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ENDURA PRODUCTS, INC.	2,987,618	ANGEWANDTEN		GENOCEA BIOSCIENCES, INC.	2,797,937
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ETHICON LLC	2,869,653	FORSCHUNG E.V.	2,984,573	GINZBURG, BORIS	2,752,454
ETHICON, INC.	2,839,514	FRESENIUS MEDICAL CARE HOLDINGS, INC.	2,991,781	GINZBURG, VERA	2,752,454
ETHICON, INC.	2,855,139	FRIED, ELCHANAN	2,912,582	GIORDANO, JAMES R.	2,813,389
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FERRAMOSCA, ADRIAN	2,935,809	FUNDACION SALES	2,778,953	GODFREY, JAMES F.	2,984,906
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AFL TELECOMMUNICATIONS LLC	3,029,525	BRATEN, HANS	3,010,166	EKSTRAND, STEFAN	3,013,500
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ROBERTS, MICHAEL	3,065,757	LIMITED	3,066,104	SONG, HUIMIN	3,065,828
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ROBINSON, TIMOTHY MARK	3,066,065	SCHMID, MARIUS	3,065,890	YEFET	3,066,051
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